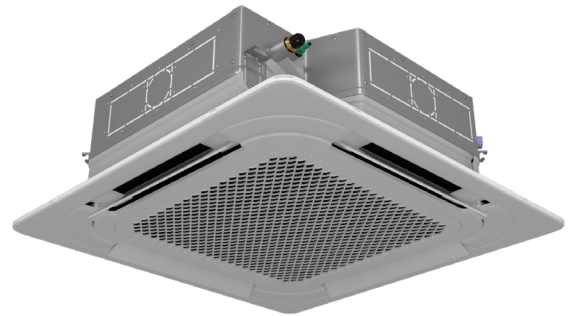
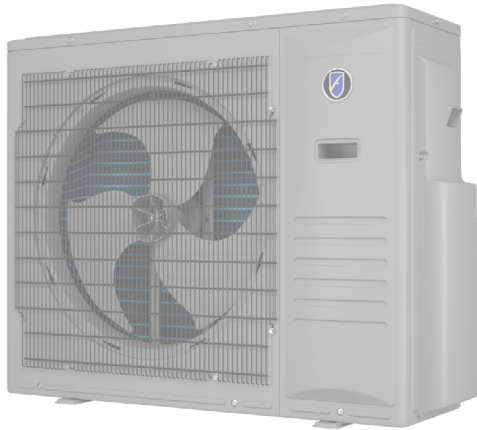




FRIEDRICH

Ductless Floating Air® Pro Multi-Zone R-454B Refrigerant



Outdoor Unit

230-Volt: FPHMR18A3D, FPHMR27A3D, FPHMR36A3D, FPHMR42A3D

Wall Mounted Unit

230-Volt: FAHFW07A3D, FAHFW09A3D, FAHFW12A3D, FAHFW18A3D, FAHFW24A3D

Cassette

230-Volt: FPHFC09A3D, FPHFC12A3D, FPHFC24A3D, FPHFC24A3D

Ducted

230-Volt: FPHFD09A3D, FPHFD12A3D, FPHFD24A3D, FPHFD24A3D

THE EXPERTS IN ROOM AIR CONDITIONING

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INTRODUCTION

Important Safety Information

The information in this manual is intended for use by a qualified technician who is familiar with the safety procedures required for installation and repair, and who is equipped with the proper tools and test instruments required to service this product.

Installation or repairs made by unqualified persons can result in subjecting the unqualified person making such repairs as well as the persons being served by the equipment to hazards resulting in injury or electrical shock which can be serious or even fatal.

Maintenance is the responsibility of the owner. Failure to properly maintain or repair equipment may result in personal injury and/or various types of property damage (fire, flood, etc.).

Safety warnings have been placed throughout this manual to alert you to potential hazards that may be encountered. If you install or perform service on equipment, it is your responsibility to read and obey these warnings to guard against any bodily injury or property damage which may result to you or others. Due to continuing research in new energy-saving technology, all information in this manual is subject to change without notice.

This service manual is designed to be used in conjunction with the installation and operation manuals provided with each air conditioning system.

This service manual was written to assist the professional service technician to quickly and accurately diagnose and repair malfunctions.

Installation procedures are not given in this manual. They are given in the Installation/Operation manual which can be acquired on the Friedrich [website](#). Click the Link or scan the QR code to be directed to the Professional page where you can locate our technical literature.



SAFETY IS IMPORTANT

We have provided many important safety messages in this manual and on your appliance. Always read and obey all safety messages.



This is a safety Alert symbol. This symbol alerts you to potential hazards that can kill or hurt you and others.

All safety messages will tell you what the potential hazard is, tell you how to reduce the chance of injury, and tell you what will happen if the instructions are not followed.

All safety messages will follow the safety alert symbol with the word "WARNING" or "CAUTION". These words mean:



WARNING

Indicates a hazard which, if not avoided, can result in severe personal injury or death and damage to product or other property.



CAUTION

Indicates a hazard which, if not avoided, can result in personal injury and damage to product or other property.

NOTICE

Indicates property damage can occur if instructions are not followed.



This symbol indicates that this appliance uses a flammable refrigerant. If the refrigerant is leaked and is exposed to an external ignition source, there is a risk of fire.



This symbol indicates that the Operation Manual should be read carefully.



This symbol indicates that service personnel should be handling this equipment with reference to the installation manual.



This symbol indicates that information is available such as the Installation and Operation manual, or the Service Manual.

INTRODUCTION

Personal Injury Or Death Hazards

SAFETY FIRST	 WARNING	 AVERTISSEMENT	 ADVERTENCIA
	Do not remove, disable or bypass this unit's safety devices. Doing so may cause fire, injuries, or death.	Ne pas supprimer, désactiver ou contourner cette l'unité des dispositifs de sécurité, faire vous risqueriez de provoquer le feu, les blessures ou la mort.	No eliminar, desactivar o pasar por alto los dispositivos de seguridad de la unidad. Si lo hace podría producirse fuego, lesiones o muerte.



ELECTRICAL HAZARDS:

- Unplug and/or disconnect all electrical power to the unit before performing inspections, maintenance, or service.
- Make sure to follow proper lockout/tag out procedures.
- Always work in the company of a qualified assistant if possible.
- Capacitors, even when disconnected from the electrical power source, retain an electrical charge potential capable of causing electric shock or electrocution.
- Handle, discharge, and test capacitors according to safe, established, standards, and approved procedures.
- Extreme care, proper judgment, and safety procedures must be exercised if it becomes necessary to test or troubleshoot equipment with the power on to the unit.
- Do not spray water on the air conditioning unit while the power is on.
- Electrical component malfunction caused by water could result in electric shock or other electrically unsafe conditions when the power is restored and the unit is turned on, even after the exterior is dry.
- Use air conditioner on a single dedicated circuit within the specified amperage rating.
- Use on a properly grounded outlet only.
- Do not cut or modify the power supply cord or remove the ground prong of the plug.
- Never operate the unit on an extension cord.
- Follow all safety precautions and use proper and adequate protective safety aids such as: gloves, goggles, clothing, properly insulated tools, and testing equipment etc.
- Failure to follow proper safety procedures and/or these warnings can result in serious injury or death.

INTRODUCTION

PERSONAL INJURY OR DEATH HAZARDS

- **REFRIGERATION SYSTEM REPAIR HAZARDS:**
- Use approved standard refrigerant recovering procedures and equipment to relieve high pressure before opening system for repair. Reference EPA regulations (40 CFR Part 82, Subpart F) Section 608.
- Do not allow liquid refrigerant to contact skin. Direct contact with liquid refrigerant can result in minor to moderate injury.
- Be extremely careful when using an oxy-acetylene torch. Direct contact with the torch's flame or hot surfaces can cause serious burns.
- Make certain to protect personal and surrounding property with fire proof materials and have a fire extinguisher at hand while using a torch.
- Provide adequate ventilation to vent off toxic fumes, and work with a qualified assistant whenever possible.
- Always use a pressure regulator when using dry nitrogen to test the sealed refrigeration system for leaks, flushing etc.
- **MECHANICAL HAZARDS:**
- Extreme care, proper judgment and all safety procedures must be followed when testing, troubleshooting, handling, or working around unit with moving and/or rotating parts.
- Be careful when, handling and working around exposed edges and corners of the sleeve, chassis, and other unit components especially the sharp fins of the indoor and outdoor coils.
- Use proper and adequate protective aids such as: gloves, clothing, safety glasses etc.
- Failure to follow proper safety procedures and/or these warnings can result in serious injury or death.
- **PROPERTY DAMAGE HAZARDS**
- **FIRE DAMAGE HAZARDS:**
- Read the Installation/Operation Manual for the air conditioning unit prior to operating.
- Use air conditioner on a single dedicated circuit within the specified amperage rating.
- Be extremely careful when using acetylene torch and protect surrounding property.
- Failure to follow these instructions can result in fire and minor to serious property damage.
- **WATER DAMAGE HAZARDS:**
- Improper installation, maintenance or servicing of the air conditioner unit can result in water damage to personal items or property.
- Ensure that the units drain has sufficient pitch to the outside to allow water to drain from the unit.
- Do not drill holes in the bottom of the drain pan or the underside of the unit.
- Failure to follow these instructions can result in damage to the unit and/or minor to serious property damage.

INTRODUCTION

Personal Injury Or Death Hazards

⚠️ WARNING: The manufacturer's warranty does not cover any damage or defect to the air conditioner caused by the attachment or use of any components, accessories or devices (other than those authorized by the manufacturer) into, onto or in conjunction with the air conditioner. You should be aware that the use of unauthorized components, accessories or devices may adversely affect the operation of the air conditioner and may also endanger life and property. The manufacturer disclaims any responsibility for such loss or injury resulting from the use of such unauthorized components, accessories or devices.

⚠️ WARNING: This appliance is not intended for use by persons (Including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

⚠️ WARNING: The maximum altitude for this appliance is 2,000 meters(6,562 feet).

Do not use above 2,000 meters(6,562 feet).

⚠️ WARNING: Electrical Shock Hazard

Disconnect all power to the unit before starting maintenance. All electrical connections and wiring **MUST** be installed by a qualified electrician and conform to the National Code and all local codes which have jurisdiction. Failure to do so can result in property damage, severe electrical shock or death.



⚠️ WARNING: Read Installation Manual

Read this manual thoroughly prior to equipment installation or operation. It is the installer's responsibility to properly apply and install the equipment. Installation must be in conformance with the NFPA 70-2023 national electric code or current edition, International Mechanic code 2021 or current edition, and any other local or national codes.



⚠️ WARNING: Safety First

Do not remove, disable, or bypass this unit's safety devices. Doing so may cause fire, injuries, or death.

⚠️ WARNING: This Product uses R-454B Refrigerant

Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.

The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater.

Do not pierce or burn.

Be aware that refrigerants may not contain an odor.



**Refrigerant
Safety Group
A2L**

⚠️ WARNING: Refrigeration System under High pressure

Do not puncture, heat, expose to flame or incinerate. Only certified refrigeration technicians should service this equipment. R454B systems operate at higher pressures than R22 equipment. Appropriate safe service and handling practices must be used.



⚠️ CAUTION: Do Not Operate Equipment During Active Stages Of Construction

To ensure proper operation, Friedrich requires that all equipment is not operated during active construction phases. This includes active stages of completing framing, drywalling, spackling, sanding, painting, flooring, and moulding in the equipment's designated conditioning space. The use of this equipment during construction could result in premature failure of the components and/or system and is in violation of our standard warranty guidelines. The operation of newly installed equipment during construction will accelerate the commencement and/or termination of the warranty period.

⚠️ WARNING: Keep all air circulation and ventilation openings free from obstruction.

⚠️ WARNING: The unit should not be in contact with any equipment that will transmit vibration to the unit. Any excessive vibration or pulsation to the unit could result in damage to the refrigerant tubing.

INTRODUCTION

Model And Serial Number Location

Indoor Unit
On side of Unit



Figure 101 (Indoor Unit Model Nameplate location)

Outdoor Unit
On side of Unit



Figure 102 (Indoor Unit Model Nameplate location)

INTRODUCTION

Model Identification Guide

MODEL IDENTIFICATION GUIDE

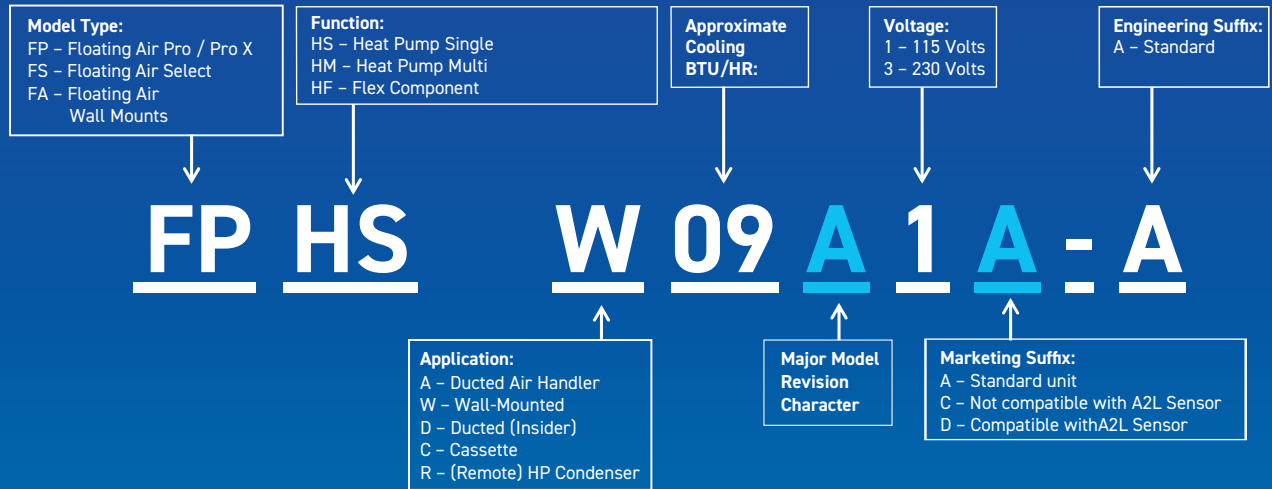


Figure 103 (Model Number Reference Guide)

Serial Number Reference Guide

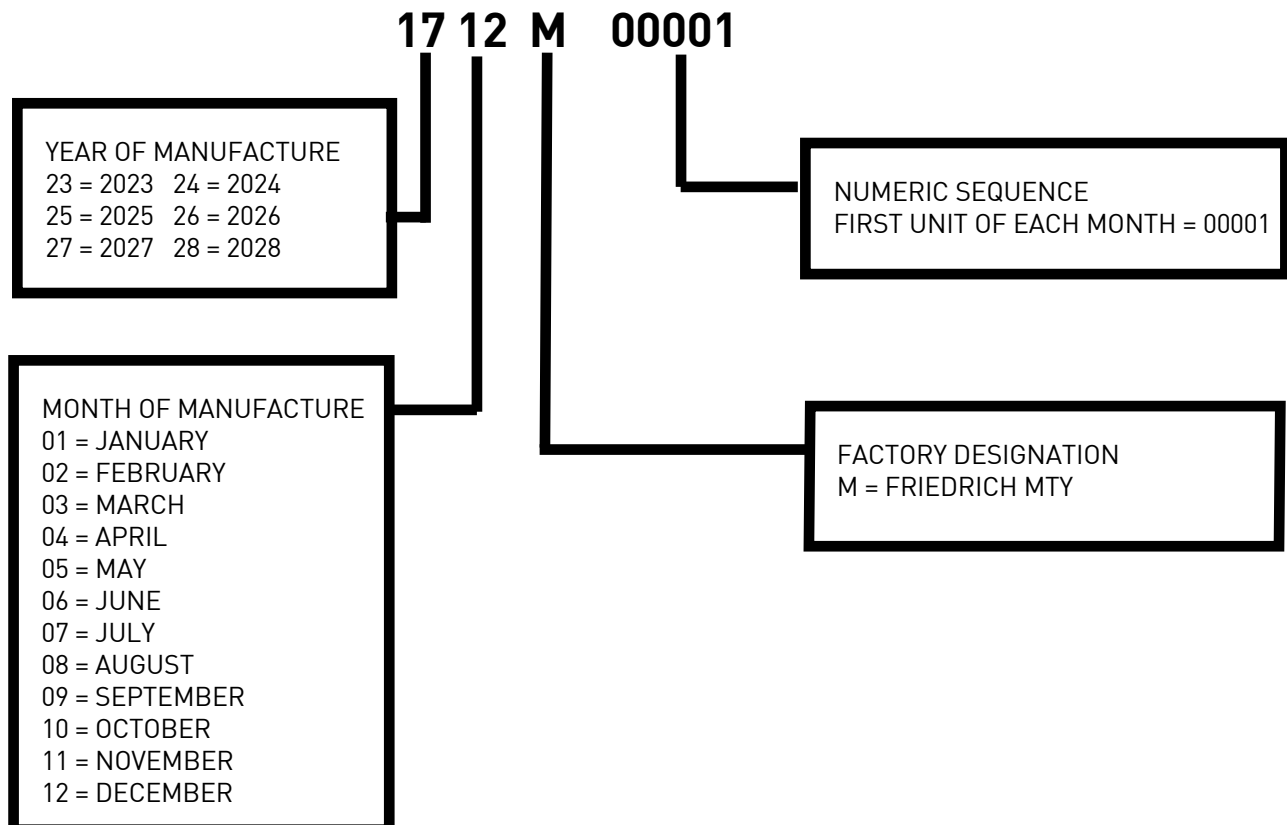


Figure 104 (Serial Number Reference Guide)

SPECIFICATION

18-27k BTU (Outdoor Units) (Non-Ducted Configuration)

Model		Unit	FPHMR18A3D	FPHMR27A3D
Power Supply		V/ph/Hz	208-230/1/60	208/230/1/60
Energy Star Standard		Y/N	Y	Y
Energy Star -Cold Climate		Y/N	Y	Y
Performance				
Cooling	Rated Capacity at 95	Btu/h	18000	27000
	Cooling Capacity Range(MIN-MAX)	Btu/h	9000-22000	9000-31000
	Capacity at 115	Btu/h	18000	27000
	Power Input	W	1350	2100
	Current	A	6.3	9.3
	EER2 at 95	Btu/h/W	13.3	12.9
	SEER2	Btu/h/W	22.0	23.0
	Working Temperature Range		5~125	5~125
Heating	Rated Capacity at 47	Btu/h	18000	27000
	Heating Capacity Range(MIN-MAX)	Btu/h	14500-30000	20100-44000
	Power Input	W	1380	2200
	Current	A	6.4	10
	COP2 at 47	W/W	3.8	3.6
	COP @ 5F	W/W	2.0	1.8
	HSPF2(IV)	Btu/h/W	10.00	10.0
	HSPF2(V)	Btu/h/W	8.0	7.7
	Rated Capacity Heating at 17°F -8.3	Btu/h	11500	17600
	Maximum Heating Capacity @17F -8.3	Btu/h	18000	27000
	Maximum Heating Capacity @5F -15	Btu/h	18000	27000
	Maximum Heating Capacity @-5F -20.5	Btu/h	13500	20000
	Maximum Heating Capacity @-13F -25	Btu/h	13356	19177
	Working Temperature Range		-13~75	-13~75
Outdoor Airflow	Air Circulation(high) for Outdoor	ft3 CFM	1850	3356.9
	Outdoor Sound pressure	dB (A)	55	62
Outdoor Fan Motor	Model		ZWB1710L00A	ZWB4710L18A
	Qty		1	1
	Output	W	60	220
	Speed (Hi)	r/min	880	850
Electrical	Rated Current	Cooling (A)	5.8	9.3
		Heating (A)	6.1	10
	MOP(Rating of Overcurrent Protective Device)	A	30.0	40.0
	MCA(Minimum Circuit Ampacity)	A	21.0	25.0
communication wire size and type			4×14AWG	4×14AWG

Figure 201

SPECIFICATIONS

18-27k BTU (Outdoor Units) (Non-Ducted Configuration)

Model		Unit	FPHMR18A3D	FPHMR27A3D
Refrigeration	Moisture Removal	pints/hr	2.4	3.0
	Refrigerant		R454B	R454B
	Refrigerant charge volume	oz	51.1	76.2
	Compressor type		ROTARY	ROTARY
	Compressor MFG		Panasonic	Panasonic
	Compressor model #		KRD220XAA21	KKD330XAA21
	Expansion Device		EEV	EEV
	Condenser material		copper pipe+Hydrophilic alu- minium	copper pipe+Hydrophilic alu- minium
	Liquid Pipe	inch	1/4	1/4
	Gas Pipe	inch	3/8	3/8
	Max. Pipe Length (Total)	ft	164	230
	Max. Elevation (indoor units higher than outdoor unit)	ft	49	49
	Pre-charge Pipe Length	ft	50	75
	additional refrigerant charge per foot after 25 ft	ounces/foot	0.2	0.2
DIMENSIONS & WEIGHT				
Outdoor Unit	Dimension (WxHxD)	inches 1/8ths	33-7/8×26-3/8×12-1/4	38-3/8 ×32-7/8 ×14-1/8
		mm	860×670×310	975×835×360
	Packing(LxWxH)	inches 1/8ths	39×17-3/4×-28-3/4	43-3/4×18-1/8×37-3/4
		mm	990×450×730	1111×460×960
	Net Weight	lbs	46	72.9
		kg	101.4	160.6
	Shipping Weight	lbs	51	83.1
		kg	112.4	183.2
Loading	One Set Loading Capacity (20GP/40GP/40'HQ)			
	Outdoor Unit Loading Capacity (20GP/40GP/40'HQ)		90/186/186	52/106/106
	Indoor Unit Loading Capacity (20GP/40GP/40'HQ)			
	Stack height (Stack Limit)inch		28-3/4*4	37-3/4*4
Figure 201				

SPECIFICATIONS

36-42k BTU (Outdoor Units) (Non-Ducted Configuration)

Model		Unit	FPHMR36A3D	FPHMR42A3D
Power Supply		V/ph/Hz	208/230/1/60	208/230/1/60
Energy Star Standard		Y/N	Y	Y
Energy Star -Cold Climate		Y/N	Y	Y
Performance				
Cooling	Rated Capacity at 95	Btu/h	36000	42000
	Cooling Capacity Range(MIN-MAX)	Btu/h	36000	42000
	Capacity at 115	Btu/h	9000-46800	9000-54600
	Power Input	W	2802	3500
	Current	A	12.8	15.5
	EER2 at 95	Btu/h/W	12.85	12
	SEER2	Btu/h/W	22	22
	Working Temperature Range		5~125	5~125
Heating	Rated Capacity at 47	Btu/h	36000	48000
	Heating Capacity Range(MIN-MAX)	Btu/h	9000-54000	9000-58000
	Power Input	W	2700	3910
	Current	A	12.5	18.0
	COP2 at 47	W/W	3.91	3.60
	COP @ 5F	W/W	1.9	1.9
	HSPF2(IV)	Btu/h/W	10	9.5
	HSPF2(V)	Btu/h/W	7.8	7.4
	Rated Capacity Heating at 17°F -8.3	Btu/h	22600	28200
	Maximum Heating Capacity @17F -8.3	Btu/h	36000	36000
	Maximum Heating Capacity @5F -15	Btu/h	36000	36000
	Maximum Heating Capacity @-5F -20.5	Btu/h	27000	28000
	Maximum Heating Capacity @-13F -25	Btu/h	26175	27216
	Working Temperature Range		-13~75	-13~75
Outdoor Airflow	Air Circulation(high) for Outdoor	ft3 CFM	3356.9	3356.9
	Outdoor Sound pressure	dB (A)	64	64
Outdoor Fan Motor	Model		ZWB4710L18A	ZWB4710L18A
	Qty		1	1
	Output	W	220	220
	Speed (Hi)	r/min	830	830
Electrical	Rated Current	Cooling (A)	12.8	15.5
		Heating (A)	12.5	18
	MOP(Rating of Overcurrent Protective Device)	A	50	60
	MCA(Minimum Circuit Am- pacity)	A	32	36
	communication wire size and type		4×14AWG	4×14AWG

Figure 202

SPECIFICATIONS

36-42k BTU (Outdoor Units) (Non-Ducted Configuration)

Model		Unit	FPHMR36A3D	FPHMR42A3D
Refrigeration	Moisture Removal	pints/hr	4.3	4.4
	Refrigerant		R454B	R454B
	Refrigerant charge volume	oz	105.8	105.8
	Compressor type		ROTARY	ROTARY
	Compressor MFG		CRSS	CRSS
	Compressor model #		C-7RZ420H1CAF	C-7RZ420H1CAF
	Expansion Device		EEV	EEV
	Condenser material		copper pipe+Hydrophilic aluminium	copper pipe+Hydrophilic aluminium
	Liquid Pipe	inch	1/4	1/4
	Gas Pipe	inch	3/8	3/8
	Max. Pipe Length (Total)	ft	230	262
	Max. Elevation (indoor units higher than outdoor unit)	ft	49	49
	Pre-charge Pipe Length	ft	100	125
	additional refrigerant charge per foot after 25 ft	ounces/foot	0.2	0.2
DIMENSIONS & WEIGHT				
Outdoor Unit	Dimension (WxHxD)	inches 1/8ths	38-3/8 ×32-7/8 ×14-1/8	38-3/8 ×32-7/8 ×14-1/8
		mm	975×835×360	975×835×360
	Packing(LxWxH)	inches 1/8ths	43-3/4×18-1/8×37-3/4	43-3/4×18-1/8×37-3/4
		mm	1111×460×960	1111×460×960
	Net Weight	lbs	77	78
		kg	169.8	172
	Shipping Weight	lbs	87	88
		kg	191.8	194
Loading	One Set Loading Capacity (20GP/40GP/40'HQ)			
	Outdoor Unit Loading Capacity (20GP/40GP/40'HQ)		52/106/106	52/106/106
	Indoor Unit Loading Capacity (20GP/40GP/40'HQ)			
	Stack height (Stack Limit)inch		37-3/4*4	37-3/4*4
Figure 202				

SPECIFICATIONS

7-12K Wall Mounted Units

	FAC Indoor Model			FAHMW073D	FAHFW09A3D	FAHFW12A3D
	Power Supply		V/ph/Hz	208V/230V~,60Hz,1P		
	Energy Star Standard		Y/N	Y	Y	Y
	Energy Star -Cold Climate		Y/N	Y	Y	Y
Performance						
Indoor Air-Flow	Air Circulation(Max)		ft3 CFM	382	382	394
	Air Circulation(high)		ft3 CFM	341	341	365
	Air Circulation(medium)		ft3 CFM	294	294	312
	Air Circulation(low)		ft3 CFM	247	247	253
	Indoor Sound Pressure(Max//H/M/L/Quiet)		dB (A)	42/39/37/35/32	42/39/37/35/32	42/39/37/35/32
Indoor Fan Motor	Model			KD09060033	KD09060033	KD09060033
	Qty			1	1	1
	Output		W	25	25	25
	Capacitor		μF	/	/	/
	Speed(Hi/Med/Lo)		r/min	1101/938/800	1101/938/800	1154/992/800
DIMENSIONS & WEIGHT						
Indoor Unit	Dimension (WxHxD)		inches 1/8ths	33 7/8 ×11 2/8 ×8 4/8	33 7/8 ×11 2/8 ×8 4/8	33 7/8 ×11 2/8 ×8 4/8
			mm	860×285×216	860×285×216	860×285×216
	Packing(LxHxW)		inches 1/8ths	36 5/8 ×15 ×11 2/8	36 5/8 ×15 ×11 2/8	36 5/8 ×15 ×11 2/8
			mm	930×380×285	930×380×285	930×380×285
	Net Weight		lbs	22.1	22.1	22.1
			kg	10	10	10
	Shipping Weight		lbs	26.5	26.5	26.5
			kg	12	12	12
Loading	One Set Loading Capacity (20GP/40GP/40'HQ)			90/185/210	90/185/210	90/185/210
	Outdoor Unit Loading Capacity (20GP/40GP/40'HQ)			108/222/296	108/222/296	108/222/296
	Indoor Unit Loading Capacity (20GP/40GP/40'HQ)			310/623/700	310/623/700	310/623/700
	Stack height (Stack Limit) Indoor Unit/Outdoor Unit			8/4	8/4	8/4
A2L Sensor			Y/N	Optional	Optional	Optional
Figure 203						

SPECIFICATIONS

18-24k BTU Wall Mounted Units

	FAC Indoor Model		FAHFW18A3D	FAHFW24A3D
	Power Supply	V/ph/Hz		
	Energy Star Standard	Y/N	Y	Y
	Energy Star -Cold Climate	Y/N	Y	Y
Performance				
Indoor AirFlow	Air Circulation(Max)	ft3 CFM	647	706
	Air Circulation(high)	ft3 CFM	588	647
	Air Circulation(medium)	ft3 CFM	482	559
	Air Circulation(low)	ft3 CFM	382	441
	Indoor Sound Pressure(Max//H/M/L/ Quiet)	dB (A)	48/45/41/39/36	50/48/43/41/39
Indoor Fan Motor	Model		ZWK465A00410	K1B310497
	Qty		1	1
	Output	W	35	35
	Capacitor	μF	/	/
	Speed(Hi/Med/Lo)	r/min	1100/960/800	1200/1040/880
DIMENSIONS & WEIGHT				
Indoor Unit	Dimension (WxHxD)	inches 1/8ths	45 2/8 ×13 2/8 ×10 1/8	45 2/8 ×13 2/8 ×10 1/8
		mm	1148×336×256	1148×336×256
	Packing(LxHxW)	inches 1/8ths	47 7/8 ×16 1/8 ×13	47 7/8 ×16 1/8 ×13
		mm	1215×410×330	1215×410×330
	Net Weight	lbs	34.2	34.2
		kg	15.5	15.5
	Shipping Weight	lbs	39.7	39.7
		kg	18	18
Loading	One Set Loading Capacity (20GP/40GP/40'HQ)		60/127/145	49/104/120
	Outdoor Unit Loading Capacity (20GP/40GP/40'HQ)		93/189/189	54/110/165
	Indoor Unit Loading Capacity (20GP/40GP/40'HQ)		173/368/406	173/368/406
	Stack height (Stack Limit) (Indoor Unit/Outdoor Unit)		8/4	8/3
A2L Sensor		Y/N	N	N
Figure 204				

SPECIFICATIONS

9-12k BTU Cassette

FAC Indoor Model			FPHFC09A3D	FPHFC12A3D
Power Supply		V/ph/Hz	208-230/1/60	208-230/1/60
Energy Star Standard		Y/N	Y	Y
Energy Star -Cold Climate		Y/N	Y	Y
Indoor AirFlow	Air Circulation(Max)	ft3 CFM	341	341
	Air Circulation(high)	ft3 CFM	341	341
	Air Circulation(medium)	ft3 CFM	294	294
	Air Circulation(low)	ft3 CFM	235	235
	Indoor Sound Pressure(Max//H/M/L/ Quiet)	dB (A)	52	52
Indoor Fan Motor	Model		ZW465B500021	ZW465B500021
	Qty		1	1
	Output	W	1/13HP	1/13HP
	Capacitor	μF	NA	NA
	Speed(Hi/Med/Lo)	r/min	700/600/500	700/600/500
	communication wire size and type		4 x 14 AWG stranded THHN	4 x 14 AWG stranded THHN
	Refrigerant		R454B	R454B
	Evaporator material		Hydrophilic aluminium fin & Copper tube	Hydrophilic aluminium fin & Copper tube
	Liquid Pipe	inch	1/4	1/4
	Gas Pipe	inch	3/8	3/8
	DIMENSIONS & WEIGHT			
Indoor Unit	Dimension (WxHxD)	inches 1/8ths	22-1/2 ×8-1/2×22-1/2	22-1/2 ×8-1/2×22-1/2
		mm	570×215×570	570×215×570
	Packing(LxWxH)	inches 1/8ths	28-3/4 ×26-1/4×11-1/2	28-3/4 ×26-1/4×11-1/2
		mm	730×668×292	730×668×292
	Net Weight	lbs	34.2	34.2
		kg	15.5	15.5
	Shipping Weight	lbs	40.8	40.8
		kg	18.5	18.5
Panel (Grille)	Dimension (WxHxD)	inches 1/8ths	24-3/8×1-5/8×24-3/8	24-3/8×1-5/8×24-3/8
		mm	620×40×620	620×40×620
	Packing(LxWxH)	inches 1/8ths	27-1/8×26-3/4 ×4-1/2	27-1/8×26-3/4 ×4-1/2
		mm	690×680×115	690×680×115
	Net Weight	lbs	5.7	5.7
		kg	2.6	2.6
	Shipping Weight	lbs	9.9	9.9
		kg	4.5	4.5
A2L Sensor		Y/N	Y	Y
Max Condensate pump lift		ft	2.4	2.4

Figure 205

SPECIFICATIONS

18-24k BTU Cassette

FAC Indoor Model			FPHFC18A3D	FPHFC24A3D
Power Supply		V/ph/Hz	208-230/1/60	208-230/1/60
Energy Star Standard		Y/N	Y	Y
Energy Star -Cold Climate		Y/N	Y	Y
Indoor AirFlow	Air Circulation(Max)	ft3 CFM	643	706
	Air Circulation(high)	ft3 CFM	643	706
	Air Circulation(medium)	ft3 CFM	554	588
	Air Circulation(low)	ft3 CFM	465	494
	Indoor Sound Pressure(Max//H/M/L/Quiet)	dB (A)	50	53
Indoor Fan Motor	Model		ZW511B500061	ZW511B500061
	Qty		1	1
	Output	W	1/10	1/10
	Capacitor	μF	NA	NA
	Speed(Hi/Med/Lo)	r/min	420/3810/320	470/400/340
	communication wire size and type		4 x 14 AWG stranded THHN	4 x 14 AWG stranded THHN
	Refrigerant		R454B	R454B
	Evaporator material		Hydrophilic aluminium fin & Copper tube	Hydrophilic aluminium fin & Copper tube
	Liquid Pipe	inch	1/4	3/8
	Gas Pipe	inch	1/2	5/8
DIMENSIONS & WEIGHT				
Indoor Unit	Dimension (WxHxD)	inches 1/8ths	33-1/8 ×9-1/4 ×33-1/8	33-1/8 ×9-1/4 ×33-1/8
		mm	840×236×840	840×236×840
	Packing(LxWxH)	inches 1/8ths	37-3/8 ×12-5/8 ×37-3/8	37-3/8 ×12-5/8 ×37-3/8
		mm	950×320×950	950×320×950
	Net Weight	lbs	52.9	52.9
		kg	24.0	24.0
	Shipping Weight	lbs	63.9	63.9
		kg	29.0	29.0
Panel (Grille)	Dimension (WxHxD)	inches 1/8ths	37-3/8×2×37-3/8	37-3/8×2×37-3/8
		mm	950×50×950	950×50×950
	Packing(LxWxH)	inches 1/8ths	40-1/8×39-3/8×4-1/8	40-1/8×39-3/8×4-1/8
		mm	1020×1000×105	1020×1000×105
	Net Weight	lbs	14.3	14.3
		kg	6.5	6.5
	Shipping Weight	lbs	19.8	19.8
		kg	9	9
A2L Sensor		Y/N	Y	Y
Max Condensate pump lift		ft	2.4	2.4

Figure 206

SPECIFICATIONS

9-12k BTU Ducted

FAC Indoor Model			FPHFC09A3D	FPHFC12A3D
Type			Ducted	Ducted
Power Supply		V/ph/Hz	208~230/1/60	208~230/1/60
Energy Star Standard		Y/N	Y	Y
Energy Star -Cold Climate		Y/N	Y	Y
Indoor AirFlow	Air Circulation(Max)	ft3 CFM	324	324
	Air Circulation(high)	ft3 CFM	324	324
	Air Circulation(medium)	ft3 CFM	294	294
	Air Circulation(low)	ft3 CFM	235	235
	Indoor Sound Pressure(Max//H/ M/L/Quiet)	dB (A)	57	57
	ESP in-H2O)	Rated with filter	0.2	0.2
		Range with filter	0-0.12	0-0.12
Indoor Fan Motor	Model		TWZ65-S01	TWZ65-S01
	Qty		1	1
	Output	W	1/20HP	1/20HP
	Capacitor	μF	NA	NA
	Speed(Hi/Med/Lo)	r/min	1110/1000/800	1110/1000/800
Communication wire size and type	No. x AWG		4 x 14 AWG Stranded THHN	4 x 14 AWG Stranded THHN
	Evaporator material		Hydrophilic aluminium fin & Cop- per tube	Hydrophilic aluminium fin & Copper tube
	Liquid Pipe	inch	1/4	1/4
	Gas Pipe	inch	3/8	3/8
DIMENSIONS & WEIGHT				
Indoor Unit	Dimension (WxHxD)	inches 1/8ths	35-7/8 ×7-1/2×17-5/8	35-7/8 ×7-1/2×17-5/8
		mm	910×190×447	910×190×447
	Packing(LxWxH)	inches 1/8ths	42-1/2×22-1/4 ×11-1/4	42-1/2×22-1/4 ×11-1/4
		mm	1080×565×285	1080×565×285
	Net Weight	lbs	44.1	44.1
		kg	20.0	20.0
	Shipping Weight	lbs	51.8	51.8
		kg	23.5	23.5
A2L Sensor		Y/N	Y	Y
Max Condensate pump lift		ft	2.3	2.3
Figure 207				

SPECIFICATIONS

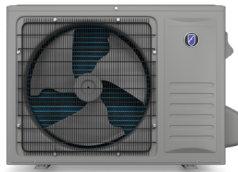
18-24k BTU Ducted

FAC Indoor Model			FPHFC18A3D	FPHFC24A3D
Type			Ducted	Ducted
Power Supply		V/ph/Hz	208~230/1/60	208~230/1/60
Energy Star Standard		Y/N	Y	Y
Energy Star -Cold Climate		Y/N	Y	Y
Indoor AirFlow	Air Circulation(Max)	ft3 CFM	530	735
	Air Circulation(high)	ft3 CFM	530	735
	Air Circulation(medium)	ft3 CFM	471	647
	Air Circulation(low)	ft3 CFM	412	559
	Indoor Sound Pressure(Max// H/M/L/Quiet)	dB (A)	60	68
	ESP in-H2O)	Rated with filter	0.2	0.6
		Range with filter	0-0.56	0-0.66
Indoor Fan Motor	Model		ZWF-100H	ZWF-210H
	Qty		1	1
	Output	W	1/8HP	2/7HP
	Capacitor	μF	NA	NA
	Speed(Hi/Med/Lo)	r/min	920/820/720	1400/1250/1100
communication wire size and type	No.x AWG		4 x 14 AWG Stranded THHN	4 x 14 AWG Stranded THHN
	Evaporator material		Hydrophilic aluminium fin & Copper tube	Hydrophilic aluminium fin & Copper tube
	Liquid Pipe	inch	1/4	3/8
	Gas Pipe	inch	1/2	5/8
DIMENSIONS & WEIGHT				
Indoor Unit	Dimension (WxHxD)	inches 1/8ths	31-1/2×9-5/8×27-1/2	43-1/4×9-5/8×27-1/2
		mm	800×245×700	1100×245×700
	Packing(LxWxH)	inches 1/8ths	38-5/8×12-3/8×31-7/8	50-3/8×12-3/8×31-7/8
		mm	980×315×810	1280×315×810
	Net Weight	lbs	58.4	73.9
		kg	26.5	33.5
	Shipping Weight	lbs	58.4	73.9
		kg	31	38.5
A2L Sensor		Y/N	Y	Y
Max Condensate pump lift		ft	2.3	2.3
Figure 208				

SPECIFICATIONS

Allowable Configurations 18k-36k

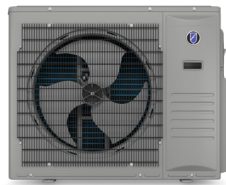
Choose the outdoor unit that is applicable to the number of indoor spaces you want to heat and cool. Mix-and-match flexibility lets you pick the type of indoor units best suited to the application. Choose from wall-mounted, ceiling cassette, or concealed ducted heat pumps.



2 ZONES ONLY

18,000 BTU

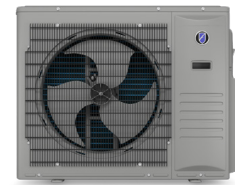
24,000 Btu max. connected capacity



2 OR 3 ZONES

27,000 BTU

36,000 Btu max. connected capacity



2, 3, OR 4 ZONES

36,000 BTU

48,000 Btu max. connected capacity

FPHMR18A3D		
ZONE 1	ZONE 2	TOTAL
7	7	14
7	9	16
7	12	19
9	9	18
9	12	21
12	12	24 (max.)

FPHMR27A3D				
ZONE 1	ZONE 2	ZONE 3	TOTAL	
7	7	-	14	
7	9	-	16	
7	12	-	19	
7	18	-	25	
9	9	-	18	
9	12	-	21	
9	18	-	27	
9	24	-	33	
12	12	-	24	
12	18	-	30	
18	18	-	36 (max.)	
7	7	7	21	
7	7	9	23	
7	7	12	26	
7	7	18	32	
7	9	9	25	
7	9	12	28	
7	9	18	34	
7	12	12	31	
7	12	18	37	
9	9	9	27	
9	9	12	30	
9	9	18	36 (max.)	
9	12	12	33	
12	12	12	36 (max.)	

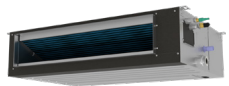
FPHMR36A3D				
ZONE 1	ZONE 2	ZONE 3	ZONE 4	TOTAL
18	18	-	-	36
7	7	7	-	21
7	7	9	-	23
7	7	12	-	26
7	7	18	-	32
7	7	24	-	38
7	9	9	-	25
7	9	12	-	28
7	9	18	-	34
7	9	24	-	40
7	12	12	-	31
7	12	18	-	37
7	12	24	-	43
7	18	24	-	49
9	9	9	-	27
9	9	12	-	30
9	9	18	-	36
9	9	24	-	42
9	12	12	-	33
9	12	18	-	39
9	12	24	-	45
9	18	24	-	51
12	12	12	-	36
12	12	18	-	42
12	12	24	-	48 (max.)
18	18	7	-	43
18	18	9	-	45
18	18	12	-	48 (max.)
7	7	7	7	28
7	7	7	9	30
7	7	7	12	33
7	7	7	18	39
7	7	7	24	45
7	7	9	9	32
7	7	12	12	35
7	7	9	18	41
7	7	9	24	47
7	7	12	12	38
7	7	12	18	44
7	7	12	24	50
7	9	9	9	34
7	9	9	12	37
7	9	9	18	43
7	9	9	24	49
7	9	12	12	40
7	9	12	18	46
7	9	12	24	52
7	12	12	12	43
7	12	12	18	49
9	9	9	9	36
9	9	9	12	39
9	9	9	18	45
9	9	9	24	51
9	9	12	12	42
9	9	12	18	48
9	12	12	12	45
9	12	12	18	51
12	12	12	12	48 (max.)

 Floating Air™ Multi-zone allowable combinations that exceed our 100% ratio.

INDOOR UNITS

 Wall-mounted	MODEL	BTU
	FPHMW07A3B	7,000
	FPHFW09A3B	9,000
	FPHFW12A3B	12,000
	FPHFW18A3B	18,000
	FPHFW24A3B	24,000

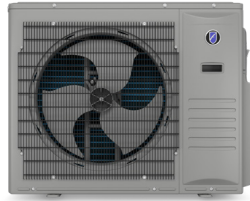
 Ceiling cassette	MODEL	BTU
	FPHFC09A3D	9,000
	FPHFC12A3D	12,000
	FPHFC18A3D	18,000
	FPHFC24A3D	24,000

 Concealed ducted	MODEL	BTU
	FPHFD09A3A	9,000
	FPHFD12A3A	12,000
	FPHFD18A3A	18,000
	FPHFD24A3A	24,000

 Air handler	MODEL	BTU
	FPHFA18A3D	18,000
	FPHFA24A3D	24,000

SPECIFICATIONS

Allowable Configurations 42k



3, 4, OR 5 ZONES

42,000 BTU

54,000 Btu max. connected capacity

FPHMR42A3D					
ZONE 1	ZONE 2	ZONE 3	ZONE 4	ZONE 5	TOTAL
7	7	7	-	-	21
7	7	9	-	-	23
7	7	12	-	-	26
7	7	18	-	-	32
7	7	24	-	-	38
7	9	9	-	-	25
7	9	12	-	-	28
7	9	18	-	-	34
7	9	24	-	-	40
7	12	12	-	-	31
7	12	18	-	-	37
7	12	24	-	-	43
7	18	18	-	-	43
7	18	24	-	-	49
9	9	9	-	-	27
9	9	12	-	-	30
9	9	18	-	-	36
9	9	24	-	-	42
9	12	12	-	-	33
9	12	18	-	-	39
9	12	24	-	-	45
9	18	18	-	-	45
9	18	24	-	-	51
12	12	12	-	-	36
12	12	18	-	-	42
12	12	24	-	-	48
12	18	18	-	-	48
12	18	24	-	-	54
7	7	7	7	-	28
7	7	7	9	-	30
7	7	7	12	-	33
7	7	7	18	-	39
7	7	7	24	-	45
7	7	9	9	-	32
7	7	9	12	-	35
7	7	9	18	-	41
7	7	9	24	-	47
7	7	12	12	-	38
7	7	12	18	-	44
7	7	12	24	-	50
7	7	18	24	-	56
7	9	9	9	-	34
7	9	9	12	-	37
7	9	9	18	-	43
7	9	9	24	-	49
7	9	12	12	-	40
7	9	12	18	-	46
7	9	12	24	-	52
7	9	18	24	-	58
7	12	12	12	-	43
7	12	12	18	-	49
7	12	12	24	-	55
9	9	9	9	-	36
9	9	9	12	-	39
9	9	9	18	-	45
9	9	9	24	-	51
9	9	12	12	-	42
9	9	12	18	-	48
9	9	12	24	-	54 (max.)
9	12	12	12	-	45
9	12	12	18	-	51
12	12	12	12	-	48
12	12	12	18	-	54 (max.)

FPHMR42A3D					
ZONE 1	ZONE 2	ZONE 3	ZONE 4	ZONE 5	TOTAL
7	7	7	7	7	35
7	7	7	7	9	37
7	7	7	7	12	40
7	7	7	7	18	46
7	7	7	7	24	52
7	7	7	9	9	39
7	7	7	9	12	42
7	7	7	9	18	48
7	7	7	9	24	54 (max.)
7	7	7	12	12	45
7	7	7	12	18	51
7	7	7	9	9	41
7	7	7	9	12	44
7	7	7	9	18	50
7	7	7	9	24	56
7	7	9	12	12	47
7	7	9	12	18	53
7	7	9	12	24	59
7	7	9	18	18	54
7	7	9	18	24	60
7	9	9	9	9	43
7	9	9	9	12	46
7	9	9	9	18	52
7	9	9	9	24	58
7	9	9	12	12	49
7	9	9	12	18	55
7	9	9	12	24	61
7	9	9	18	18	60
7	9	9	18	24	66
7	9	9	24	24	72
9	9	9	9	9	45
9	9	9	9	12	48
9	9	9	9	18	54 (max.)
9	9	9	9	24	60
9	9	9	12	12	51
9	9	9	12	18	57
9	9	9	12	24	63
9	9	9	18	18	66
9	9	9	18	24	72
9	12	12	12	12	48
9	12	12	12	18	54 (max.)

SPECIFICATIONS

Room Size Restriction

Maximum Refrigerant Charge X[oz(g)]				
Model (Btu/h)	18k	27k	36k	42k
Maximum Refrigerant Charge	69.67 [1975]	101.34 [2873]	127 [3600]	128.33 [3638]

Figure 209

Minimum room size R-454B refrigerant is determined by total refrigerant charge in system. Use this chart to determine the minimum room size the indoor head can be installed in without an A2L Sensor. 7k, 9k, and 12k 208/230V indoor heads are capable of adding an optional accessory A2L sensor. All cassettes and Ducted units have an A2L sensor installed and are exempt from the room size restriction.

Prior to installing the unit use the formulas below to determine the total refrigerant charge for the unit. If the total charge is less than 64 oz. there is no room size restriction. If the total charge is over 64 oz. refer to the the Required Minimum Room Area chart to determine the minimum square footage of the room the indoor unit can be installed in. If rooms are connected by opening that people can walk through but with no door installed, those areas can be considered one space. If the total refrigerant charge exceeds the room area, the indoor unit shall not be installed without an A2L sensor.

WARNING

Required minimum room area Y [ft.²(m²)]

X[oz.(g)]	Ducted unit		Cassette unit		Wall-mounted unit	
	Return air outlet height [ft.(m)]	Y[ft. ² (m ²)]	Return air outlet height [ft.(m)]	Y[ft. ² (m ²)]	Return air outlet height [ft.(m)]	Y[ft. ² (m ²)]
<63.49(1800)	No restriction					
63.49(1800)	7.2(2.2)	60(5.5)	7.2(2.2)	60(5.5)	5.9(1.8)	73(6.8)
67.02(1900)		63(5.8)		63(5.8)		77(7.1)
70.55(2000)		66(6.1)		66(6.1)		81(7.5)
74.08(2100)		69(6.4)		69(6.4)		85(7.9)
77.60(2200)		73(6.8)		73(6.8)		90(8.3)
81.13(2300)		77(7.1)		77(7.1)		93(8.6)
84.66(2400)		80(7.4)		80(7.4)		97(9.0)
88.18(2500)		83(7.7)		83(7.7)		102(9.4)
91.71(2600)		86(8.0)		86(8.0)		106(9.8)
95.24(2700)		90(8.3)		90(8.3)		109(10.1)
98.77(2800)		93(8.6)		93(8.6)		113(10.5)
102.29(2900)		95(8.9)		95(8.9)		118(10.9)
105.82(3000)		99(9.2)		99(9.2)		122(11.3)
109.35(3100)		103(9.5)		103(9.5)		125(11.6)
112.88(3200)		106(9.8)		106(9.8)		130(12.0)
116.40(3300)		109(10.1)		109(10.1)		134(12.4)
119.93(3400)		112(10.4)		112(10.4)		138(12.8)
123.46(3500)		115(10.7)		115(10.7)		141(13.1)
126.99(3600)		120(11.1)		120(11.1)		146(13.5)
130.51(3700)		123(11.4)		123(11.4)		153(14.2)
134.04(3800)		126(11.7)		126(11.7)		162(15.0)
137.57(3900)		130(12.0)		130(12.0)		170(15.8)
141.10(4000)		133(12.3)		133(12.3)		179(16.6)
144.62(4100)		136(12.6)		136(12.6)		188(17.4)
148.15(4200)		139(12.9)		139(12.9)		197(18.3)
151.68(4300)		142(13.2)		142(13.2)		207(19.2)
155.21(4400)		146(13.5)		146(13.5)		217(20.1)
158.73(4500)		151(14.0)		151(14.0)		226(21.0)
162.26(4600)		159(14.7)		159(14.7)		236(21.9)
165.79(4700)		165(15.3)		165(15.3)		247(22.9)
169.32(4800)		173(16.0)		173(16.0)		258(23.9)
172.84(4900)		180(16.7)		180(16.7)		268(24.9)
176.37(5000)		187(17.3)		187(17.3)		279(25.9)

Figure 210

SPECIFICATIONS

Indoor Unit Clearances

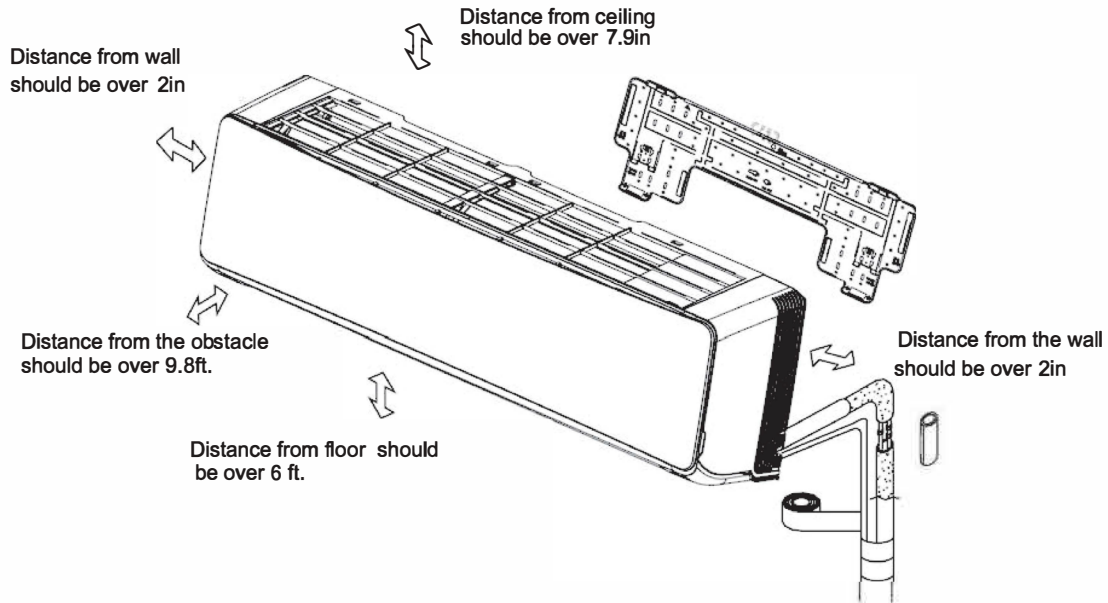


Figure 211 (Indoor Unit Clearances)

Outdoor Unit Clearances

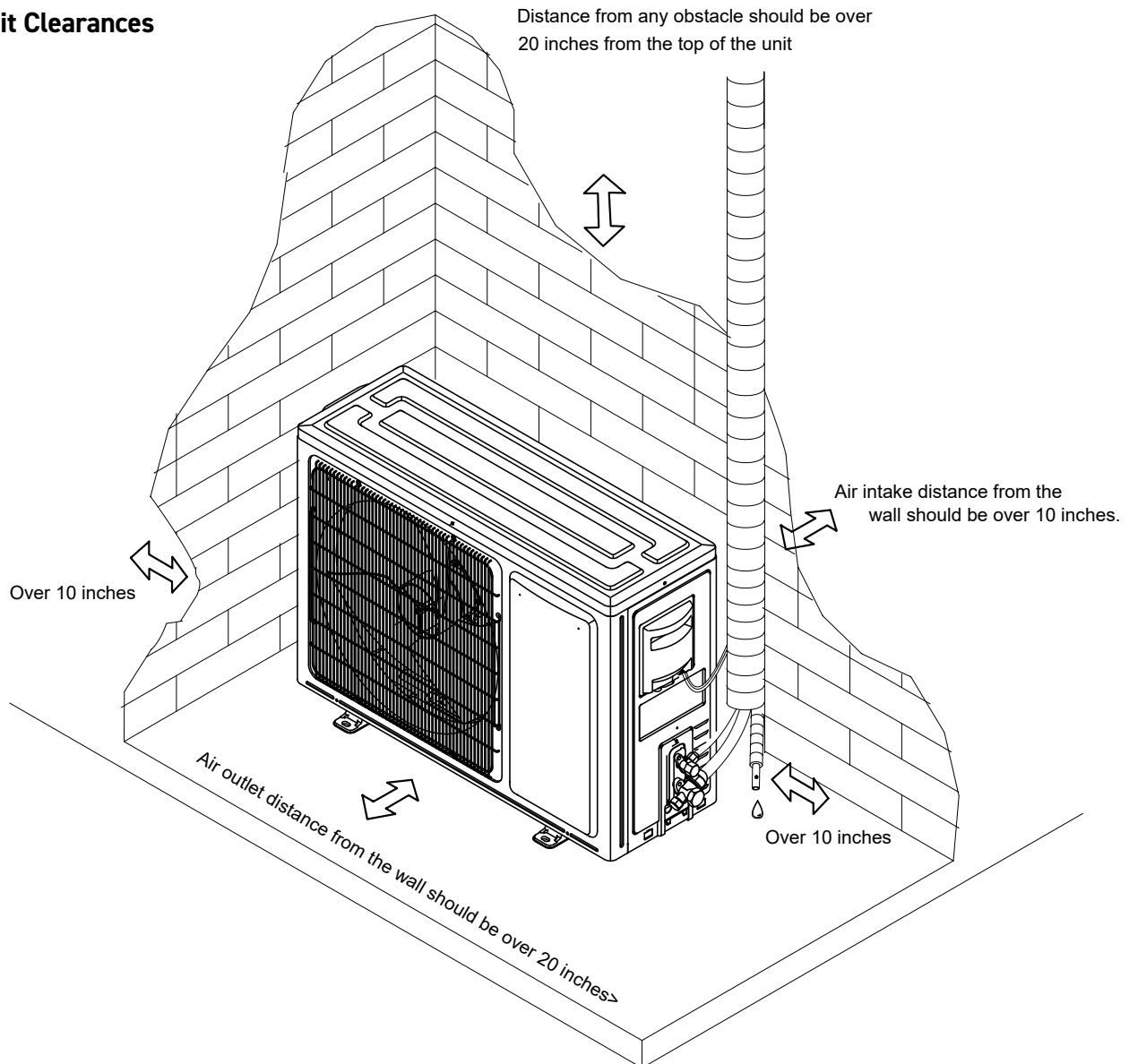


Figure 211 (Outdoor Unit Clearances)

SPECIFICATIONS

Dimensions Indoor Unit

FAHFW09A3D, FAHFW12A3D

ALL DIMENSIONS GIVEN IN INCHES (")

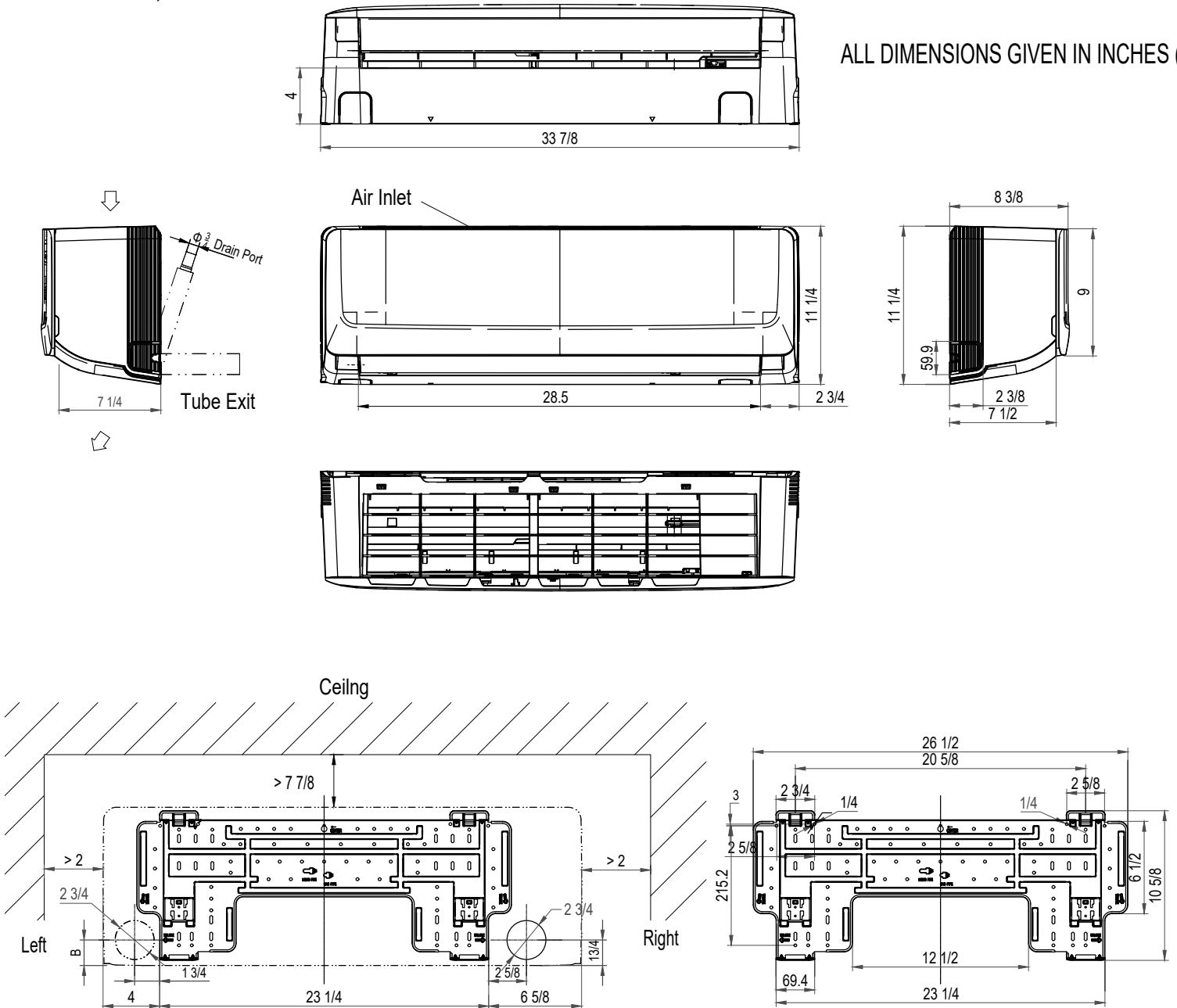


Figure 212

SPECIFICATIONS

Dimensions Indoor

Unit FAHFW18A3D, FAHFW24A3D

ALL DIMENSIONS GIVEN IN INCHES (")

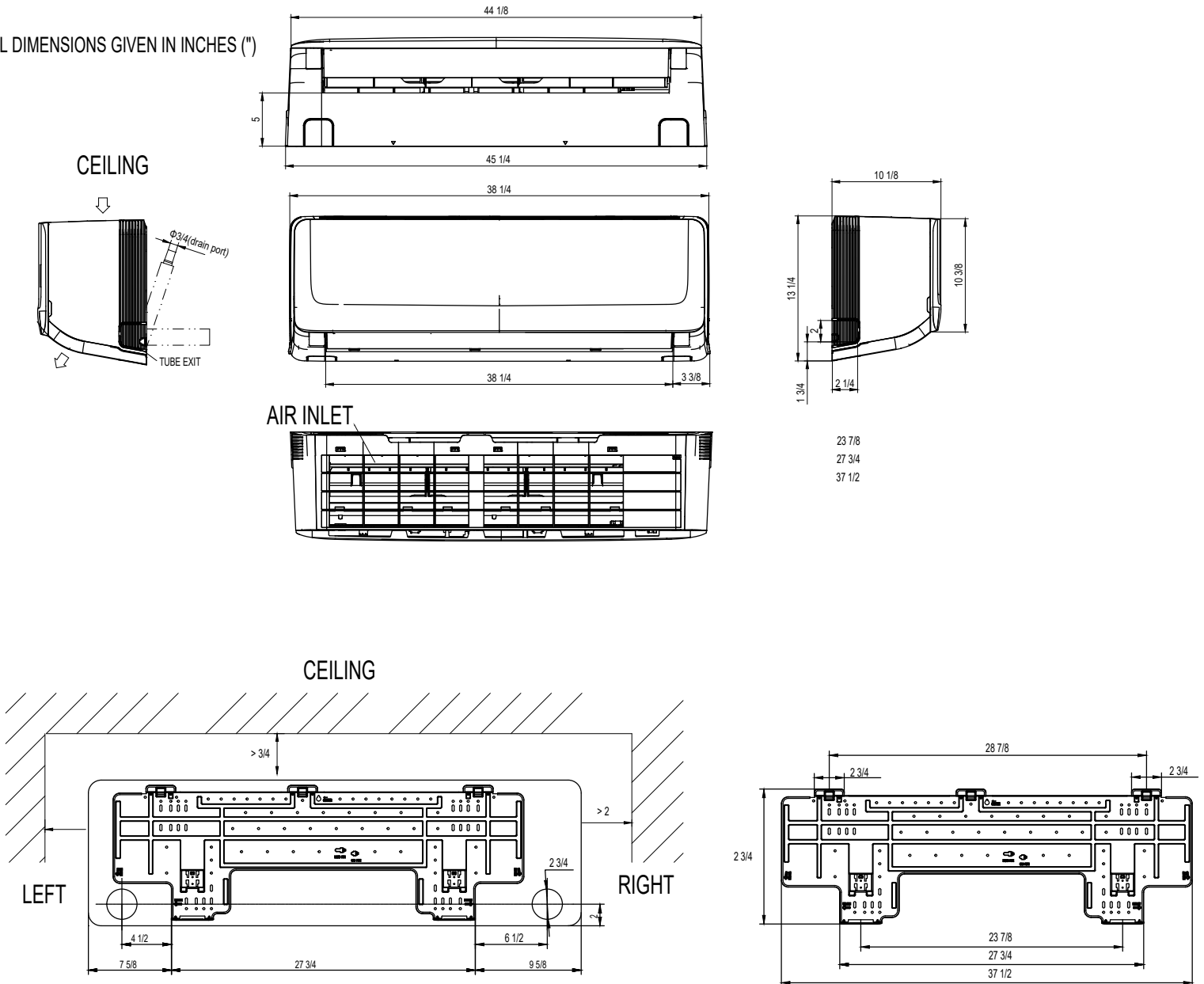


Figure 213

SPECIFICATIONS

Dimensions Outdoor Unit

FPHMR18A3D

18K

Unit: in.

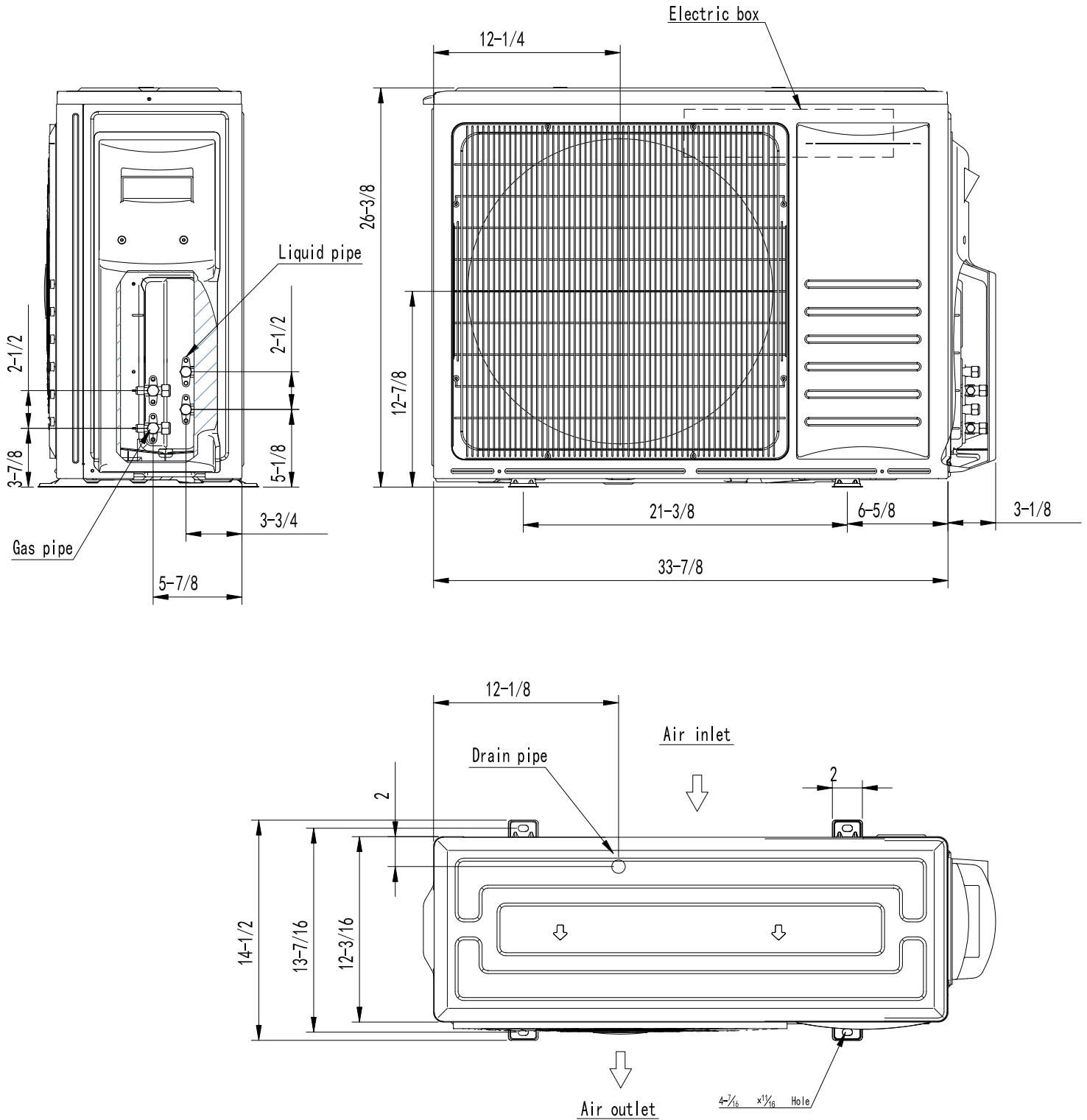


Figure 214

SPECIFICATIONS

Dimensions Outdoor Unit

FPHMR27A3D, FPHMR36A3D, FPHMR42A3D

27K/36K/42KK

Unit: in.

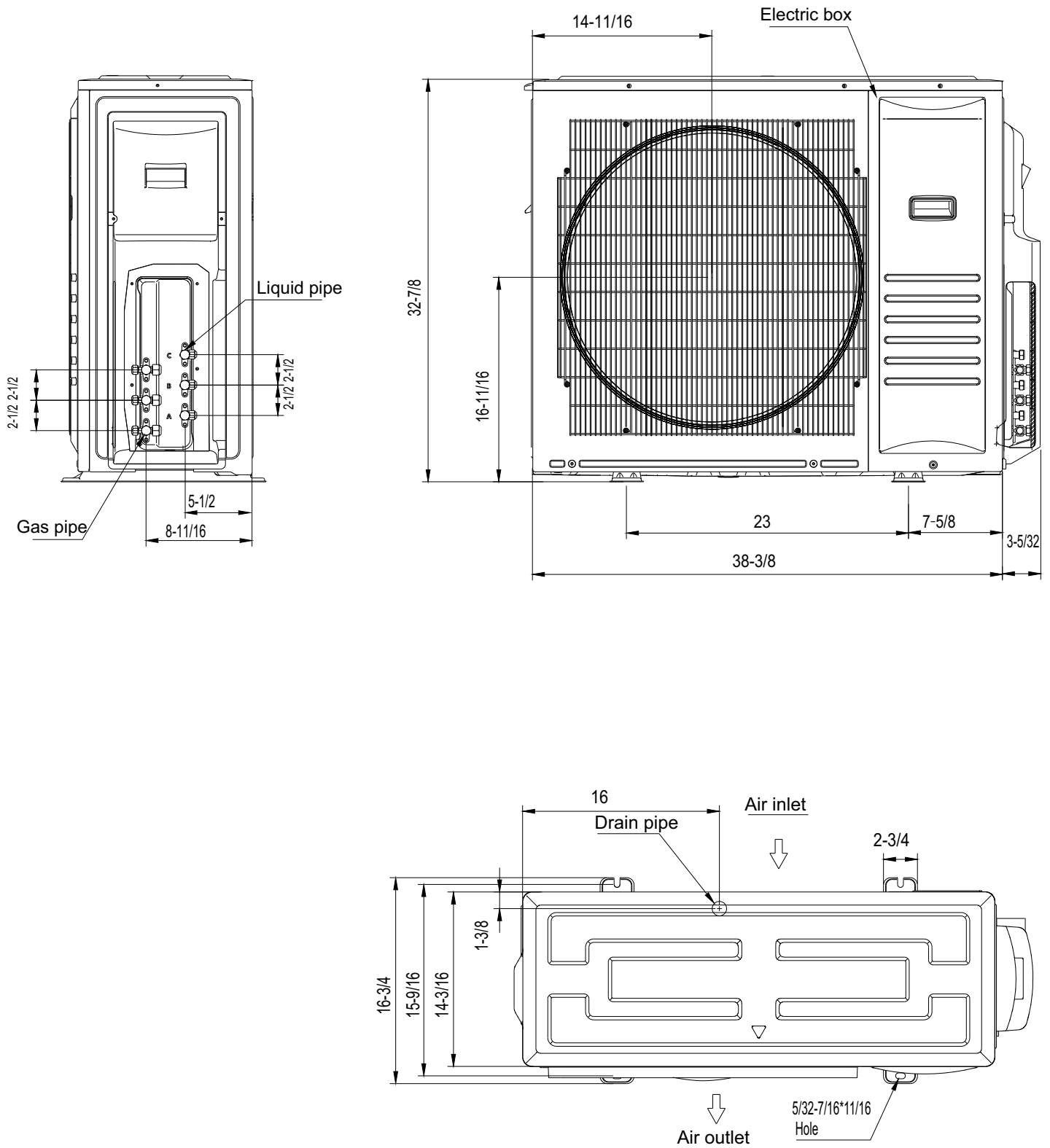


Figure 215

SPECIFICATIONS

Dimensions Cassette (9 and 12k BTU)

Unit: in.(mm)

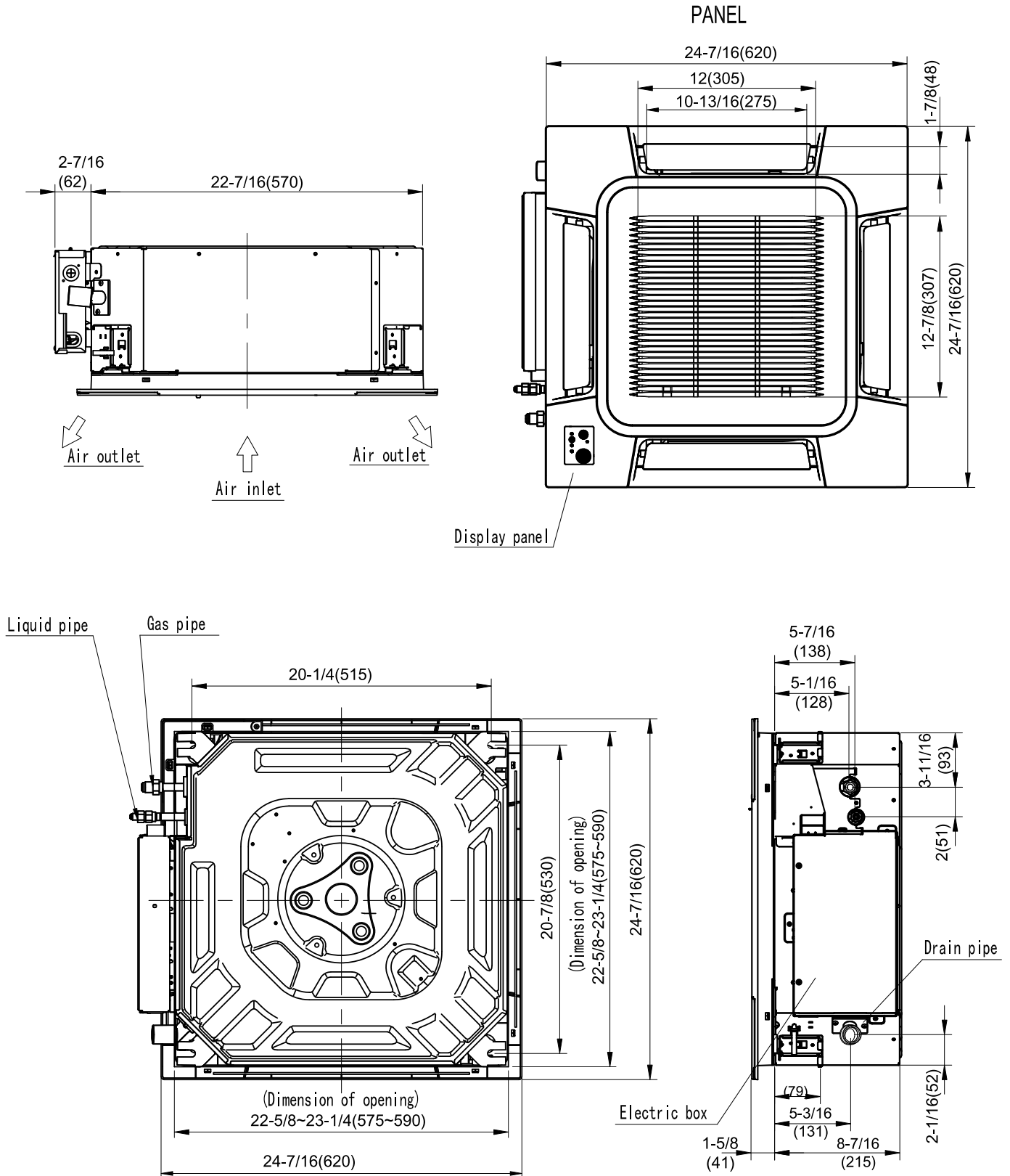


Figure 216

SPECIFICATIONS

Dimensions Cassette (18 and 24k BTU)

Unit: (mm)

PANEL

37-3/8(950)

21-5/8(550)

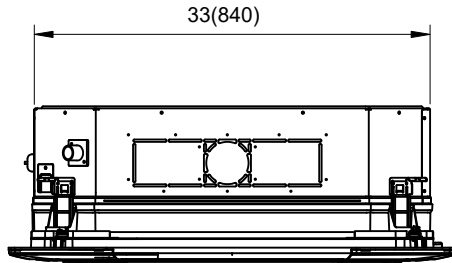
19-3/16(487)

Electric box

37-3/8(950)

22(559)

Display panel



Liquid pipe

Gas pipe

30(760)

(Dimension of opening)
33-7/8~35-7/8(860~910)

30(760)

(Dimension of opening)

33-7/8~35-7/8(860~910)

8-1/4(209)

7-1/8(182)

4(101)

5-7/8(149)

33-1/8(841)

1/2(12)

5-7/8(148)

8(203)

H+1-1/8(28)

1-3/16(30)

Drain pipe

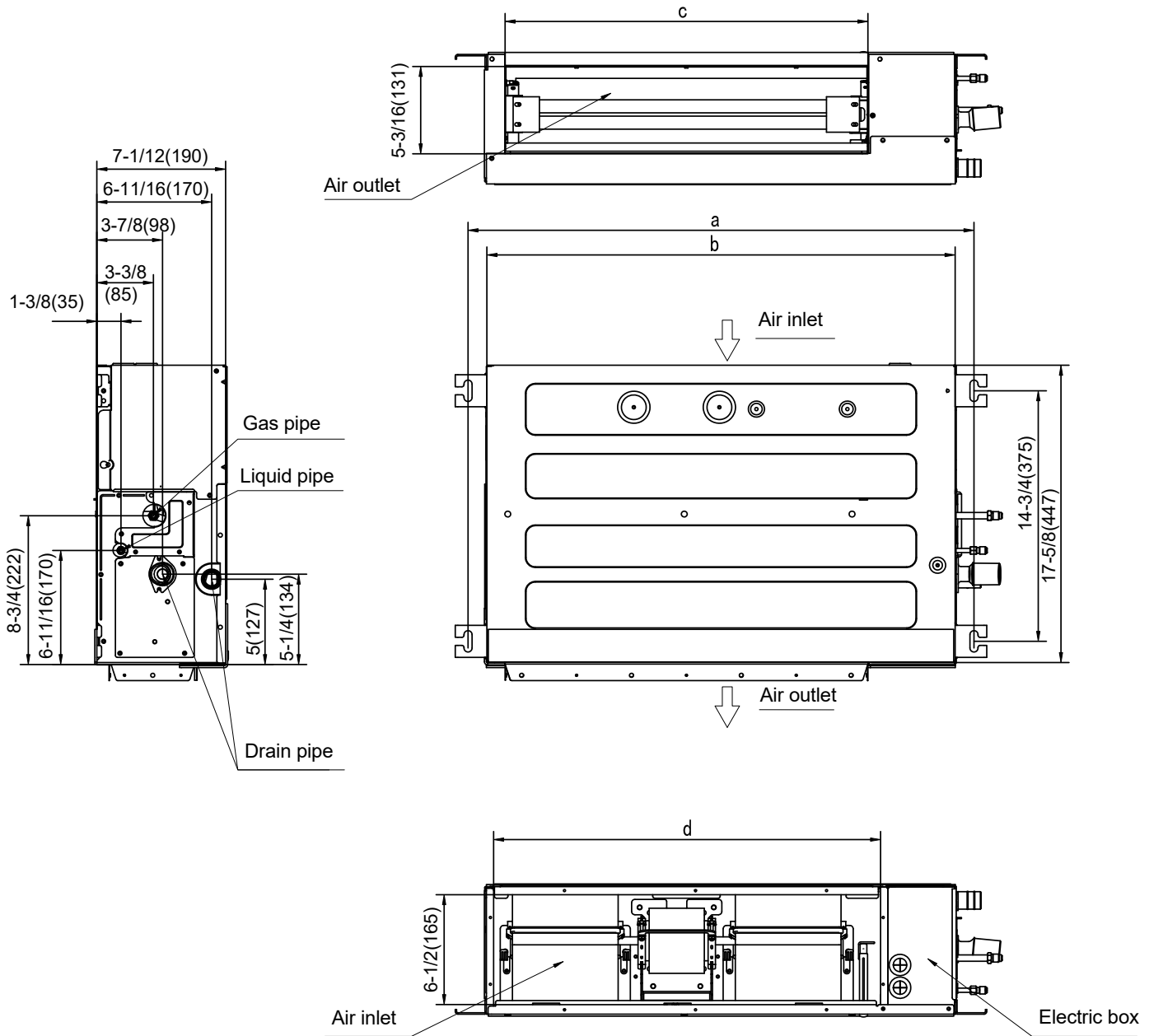
Model	H
18K/24K	236
36K	272

Figure 217

SPECIFICATIONS

Dimensions Ducted (9 and 12k BTU)

Unit : in.(mm)



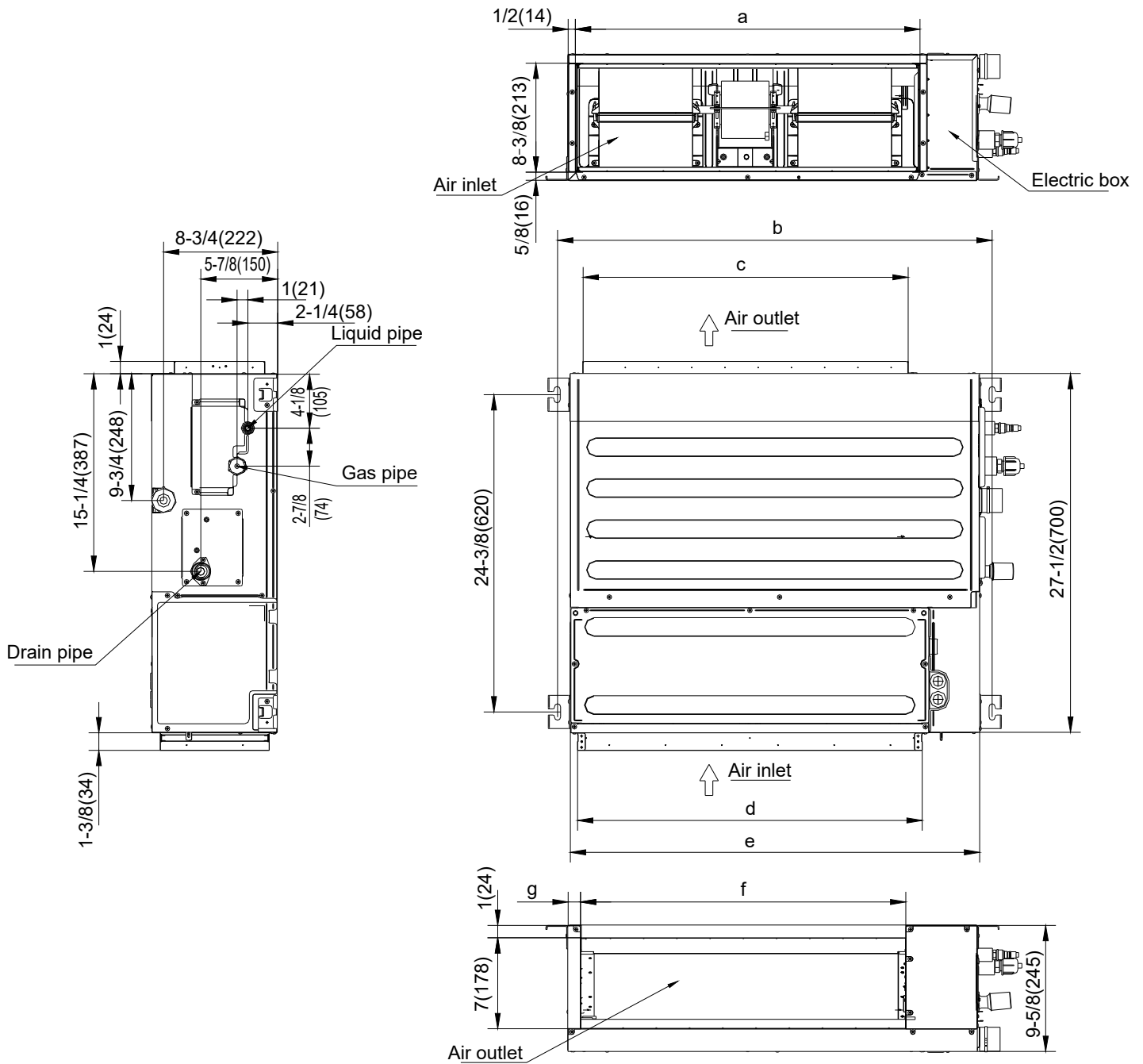
Model (Btu/h)	a	b	c	d
9K/12K	37-13/16 (961)	35-13/16 (910)	29-1/2 (749)	30 (786)

Figure 218

SPECIFICATIONS

Dimensions Ducted (18 and 24k BTU)

Unit : in.(mm)

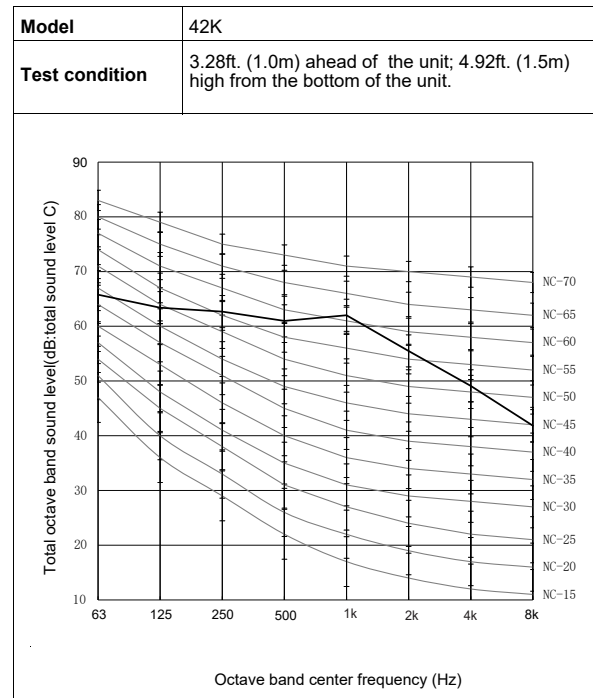
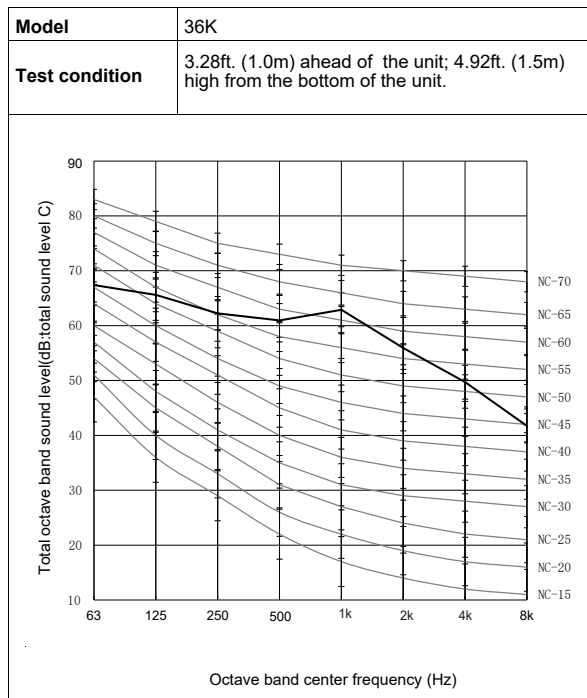
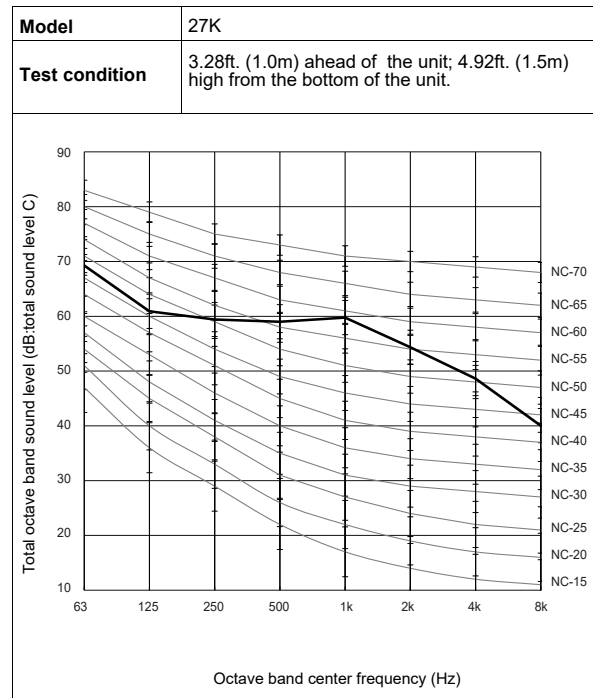
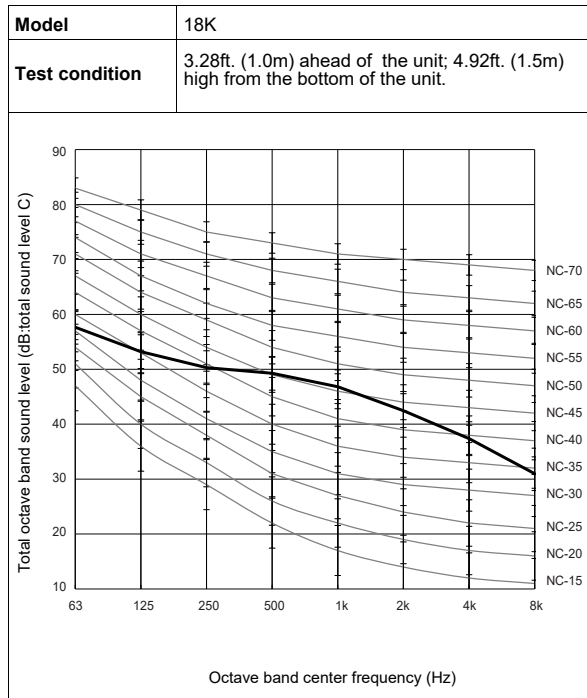


Model(Btu/h)	a	b	c	d	e	f	g
18K	26-1/2 (674)	33-1/2 (850)	25 (636)	26-1/2 (673)	31-1/2 (800)	25 (636)	1 (24)
24K	38-3/8 (974)	45-1/4 (1150)	35-7/8 (912)	38-1/4 (973)	43-1/4 (1100)	35-7/8 (912)	1-7/8 (49)

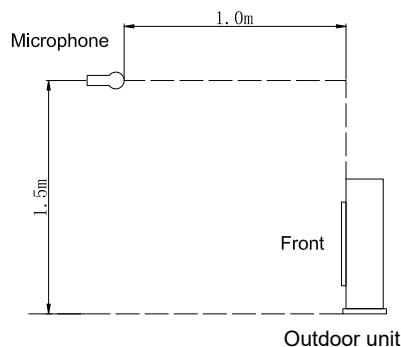
Figure 219

SPECIFICATIONS

Sound Pressure Data - Outdoor Units



Test conditions



Notes:

1. The sound power level is dependent on the operating conditions of the unit. Sound measurements shall be carried out at the standard rating conditions. Test method reference standard EN 12102-1.
2. Power source 230V, 50Hz.
3. The operation values were obtained in an semi-anechoic chamber (conversion values).
4. Sound levels will varies with operating and environmental conditions.

Figure 220

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts)

The following charts show the characteristics of outdoor unit capacity, which corresponds with the operating ambient temperature of outdoor unit.

Conditions:

- ① Pipe length / height difference : 25 ft. (7.5m) / 0 ft. (0m)
- ② Compressor at rated inverter frequency
- ③ Indoor fan speed at high fan speed
- ④ Capacity loss due to white frost and defrost operation is not included.

Remarks:

Q: Total Cooling Capacity (Gross) kW SHC: Sensible Heat Capacity (Gross) SHF: Sensible Heat Factor IPT: Power Input(including the compressor, evap. fan motor & cond. fan motor) W DB: Dry Bulb Temperature WB: Wet Bulb Temperature
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SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 18K (Cooling Up to 2 indoor units series)

			Cooling Operation PERFORMANCE DATA																																																			
			OUTDOOR DB (°F)																																																			
COMBINATION (%)	IDDB (°F)	ID WB (°F)	5				19				32				50				59				70				77				81				86				95				102				104				113			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT								
130%	70	64	18.47	11.27	0.61	1480	18.29	11.16	0.61	1493	18.09	11.03	0.61	1507	17.86	10.89	0.61	1519	17.68	10.78	0.61	1527	17.49	10.67	0.61	1578	17.25	10.52	0.61	1647	16.94	10.33	0.61	1759	16.54	10.09	0.61	1840	16.06	9.80	0.61	1909	14.78	9.01	0.61	2005	14.63	8.92	0.61	2025	12.07	7.36	0.61	2102
	70	68	19.23	9.42	0.49	1503	19.04	9.33	0.49	1517	18.83	9.23	0.49	1531	18.59	9.11	0.49	1543	18.41	9.02	0.49	1550	18.21	8.92	0.49	1601	17.96	8.80	0.49	1671	17.64	8.64	0.49	1782	17.23	8.44	0.49	1864	16.72	8.19	0.49	1933	15.39	7.54	0.49	2029	15.23	7.46	0.49	2049	12.57	6.16	0.49	2126
	72	64	19.04	12.38	0.65	1495	18.85	12.25	0.65	1508	18.65	12.12	0.65	1522	18.41	11.97	0.65	1535	18.23	11.85	0.65	1542	18.03	11.72	0.65	1594	17.78	11.56	0.65	1664	17.46	11.35	0.65	1776	17.06	11.09	0.65	1859	16.56	10.76	0.65	1928	15.23	9.90	0.65	2025	15.08	9.80	0.65	2046	12.44	8.09	0.65	2124
	72	68	19.62	10.40	0.53	1519	19.43	10.30	0.53	1532	19.22	10.19	0.53	1546	18.97	10.06	0.53	1558	18.78	9.96	0.53	1566	18.58	9.85	0.53	1617	18.32	9.71	0.53	1688	18.00	9.54	0.53	1800	17.58	9.32	0.53	1882	17.07	9.04	0.53	1952	15.70	8.32	0.53	2049	15.54	8.24	0.53	2069	12.82	6.80	0.53	2147
	72	72	19.96	8.18	0.41	1535	19.76	8.10	0.41	1548	19.55	8.01	0.41	1562	19.29	7.91	0.41	1574	19.10	7.83	0.41	1582	18.90	7.75	0.41	1634	18.63	7.64	0.41	1704	18.31	7.51	0.41	1816	17.88	7.33	0.41	1899	17.36	7.12	0.41	1968	15.97	6.55	0.41	2065	15.81	6.48	0.41	2086	13.04	5.35	0.41	2164
	73	64	19.43	13.41	0.69	1510	19.24	13.27	0.69	1524	19.03	13.13	0.69	1538	18.78	12.96	0.69	1550	18.60	12.83	0.69	1558	18.40	12.69	0.69	1610	18.14	12.52	0.69	1681	17.82	12.30	0.69	1794	17.40	12.01	0.69	1877	16.90	11.66	0.69	1948	15.54	10.73	0.69	2046	15.39	10.62	0.69	2066	12.70	8.76	0.69	2145
	73	68	20.03	11.41	0.57	1534	19.83	11.30	0.57	1548	19.61	11.18	0.57	1562	19.36	11.03	0.57	1574	19.17	10.93	0.57	1582	18.96	10.81	0.57	1634	18.70	10.66	0.57	1705	18.37	10.47	0.57	1818	17.94	10.22	0.57	1901	17.41	9.93	0.57	1972	16.02	9.13	0.57	2070	15.86	9.04	0.57	2090	13.08	7.46	0.57	2169
	73	72	20.37	9.16	0.45	1550	20.16	9.07	0.45	1564	19.94	8.97	0.45	1578	19.69	8.86	0.45	1590	19.49	8.77	0.45	1598	19.28	8.68	0.45	1650	19.02	8.56	0.45	1721	18.68	8.41	0.45	1835	18.24	8.21	0.45	1918	17.71	7.97	0.45	1988	16.29	7.33	0.45	2086	16.13	7.26	0.45	2107	13.31	5.99	0.45	2186
	75	64	19.83	14.47	0.73	1525	19.63	14.33	0.73	1539	19.42	14.17	0.73	1553	19.17	13.99	0.73	1566	18.98	13.85	0.73	1574	18.77	13.70	0.73	1626	18.51	13.51	0.73	1698	18.18	13.27	0.73	1812	17.76	12.96	0.73	1896	17.24	12.59	0.73	1968	15.86	11.58	0.73	2066	15.70	11.46	0.73	2087	12.96	9.46	0.73	2167
	75	68	20.43	12.46	0.61	1549	20.23	12.34	0.61	1563	20.01	12.21	0.61	1577	19.75	12.05	0.61	1590	19.56	11.93	0.61	1598	19.35	11.80	0.61	1650	19.08	11.64	0.61	1722	18.74	11.43	0.61	1837	18.30	11.16	0.61	1921	17.77	10.84	0.61	1992	16.35	9.97	0.61	2091	16.18	9.87	0.61	2111	13.35	8.14	0.61	2191
	75	72	20.78	10.18	0.49	1566	20.58	10.08	0.49	1580	20.35	9.97	0.49	1594	20.09	9.84	0.49	1606	19.89	9.75	0.49	1614	19.67	9.64	0.49	1667	19.40	9.51	0.49	1738	19.06	9.34	0.49	1853	18.61	9.12	0.49	1937	18.07	8.85	0.49	2008	16.63	8.15	0.49	2107	16.46	8.07	0.49	2128	13.58	6.65	0.49	2208
	75	75	21.07	7.80	0.37	1585	20.86	7.72	0.37	1599	20.64	7.64	0.37	1613	20.37	7.54	0.37	1626	20.17	7.46	0.37	1634	19.95	7.38	0.37	1686	19.67	7.28	0.37	1758	19.33	7.15	0.37	1873	18.87	6.98	0.37	1957	18.32	6.78	0.37	2028	16.86	6.24	0.37	2127	16.69	6.18	0.37	2147	13.77	5.09	0.37	2227
	77	64	20.44	15.74	0.77	1541	20.24	15.58	0.77	1555	20.02	15.41	0.77	1569	19.76	15.22	0.77	1582	19.56	15.06	0.77	1590	19.35	14.90	0.77	1642	19.08	14.70	0.77	1715	18.75	14.44	0.77	1831	18.31	14.10	0.77	1915	17.77	13.69	0.77	1987	16.35	12.59	0.77	2087	16.19	12.47	0.77	2108	13.36	10.28	0.77	2189
	77	68	21.07	13.69	0.65	1565	20.86	13.56	0.65	1579	20.63	13.41	0.65	1593	20.37	13.24	0.65	1606	20.16	13.11	0.65	1614	19.94	12.96	0.65	1667	19.67	12.78	0.65	1739	19.32	12.56	0.65	1855	18.87	12.26	0.65	1940	18.32	11.91	0.65	2012	16.85	10.95	0.65	2112	16.68	10.85	0.65	2133	13.76	8.95	0.65	2213
	77	72	21.42	11.35	0.53	1582	21.21	11.24	0.53	1596	20.98	11.12	0.53	1610	20.71	10.98	0.53	1623	20.51	10.87	0.53	1631	20.28	10.75	0.53	1684	20.00	10.60	0.53	1756	19.65	10.41	0.53	1872	19.19	10.17	0.53	1957	18.63	9.87	0.53	2029	17.14	9.08	0.53	2128	16.97	8.99	0.53	2149	14.00	7.42	0.53	2230
	77	75	21.72	8.91	0.41	1601	21.51	8.82	0.41	1615	21.27	8.72	0.41	1630	21.00	8.61	0.41	1642	20.79	8.53	0.41	1650	20.57	8.43	0.41	1703	20.28	8.32	0.41	1776	19.92	8.17	0.41	1892	19.46	7.98	0.41	1976	18.89	7.75	0.41	2048	17.38	7.13	0.41	2148	17.21	7.05	0.41	2169	14.19	5.82	0.41	2249
	79	64	21.07	17.07	0.81	1556	20.86	16.90	0.81	1570	20.64	16.72	0.81	1585	20.37	16.50	0.81	1598	20.17	16.34	0.81	1606	19.95	16.16	0.81	1659	19.68	15.94	0.81	1732	19.33	15.65	0.81	1849	18.87	15.29	0.81	1935	18.32	14.84	0.81	2007	16.86	13.66	0.81	2108	16.69	13.52	0.81	2130	13.77	11.15	0.81	2211
	79	68	21.72	14.98	0.69	1581	21.50	14.84	0.69	1595	21.27	14.68	0.69	1609	21.00	14.49	0.69	1622	20.79	14.34	0.69	1630	20.56	14.19	0.69	1684	20.28	13.99	0.69	1757	19.92	13.74	0.69	1874	19.45	13.42	0.69	1960	18.89	13.03	0.69	2032	17.37	11.99	0.69	2133	17.20	11.87	0.69	2154	14.19	9.79	0.69	2236
	79	72	22.09	12.59	0.57	1598	21.87	12.46	0.57	1612	21.63	12.33	0.57	1626	2																																							

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 18K (Cooling Up to 2 indoor units series)

	Cooling Operation PERFORMANCE DATA																	
	OUTDOOR DB (°F)																	
COMBINATION (%)	IDDB (°F)	IDWB (°F)	115				120				122				126			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT
130%	70	64	11.71	7.14	0.61	2117	10.42	6.36	0.61	2160	10.00	6.10	0.61	2181	9.50	5.80	0.61	2225
	70	68	12.19	5.97	0.49	2141	10.85	5.32	0.49	2183	10.41	5.10	0.49	2205	9.89	4.85	0.49	2249
	72	64	12.07	7.84	0.65	2139	10.74	6.98	0.65	2182	10.31	6.70	0.65	2204	9.80	6.37	0.65	2248
	72	68	12.44	6.59	0.53	2162	11.07	5.87	0.53	2205	10.63	5.63	0.53	2227	10.10	5.35	0.53	2272
	72	72	12.65	5.19	0.41	2179	11.26	4.62	0.41	2222	10.81	4.43	0.41	2243	10.27	4.21	0.41	2288
	73	64	12.32	8.50	0.69	2160	10.96	7.56	0.69	2204	10.52	7.26	0.69	2226	10.00	6.90	0.69	2270
	73	68	12.69	7.23	0.57	2184	11.30	6.44	0.57	2228	10.84	6.18	0.57	2250	10.30	5.87	0.57	2294
	73	72	12.91	5.81	0.45	2201	11.49	5.17	0.45	2244	11.03	4.96	0.45	2266	10.48	4.71	0.45	2311
	75	64	12.57	9.17	0.73	2182	11.18	8.16	0.73	2226	10.74	7.84	0.73	2248	10.20	7.45	0.73	2293
	75	68	12.95	7.90	0.61	2206	11.53	7.03	0.61	2250	11.07	6.75	0.61	2273	10.51	6.41	0.61	2318
	75	72	13.17	6.45	0.49	2223	11.72	5.74	0.49	2267	11.25	5.51	0.49	2289	10.69	5.24	0.49	2334
	75	75	13.36	4.94	0.37	2242	11.89	4.40	0.37	2286	11.41	4.22	0.37	2308	10.84	4.01	0.37	2354
	77	64	12.96	9.98	0.77	2204	11.53	8.88	0.77	2248	11.07	8.52	0.77	2271	10.52	8.10	0.77	2317
	77	68	13.35	8.68	0.65	2229	11.88	7.72	0.65	2273	11.41	7.42	0.65	2295	10.84	7.04	0.65	2341
	77	72	13.58	7.20	0.53	2245	12.09	6.41	0.53	2290	11.60	6.15	0.53	2312	11.02	5.84	0.53	2358
	77	75	13.77	5.65	0.41	2265	12.25	5.02	0.41	2309	11.76	4.82	0.41	2332	11.18	4.58	0.41	2377
	79	64	13.36	10.82	0.81	2226	11.89	9.63	0.81	2271	11.41	9.24	0.81	2294	10.84	8.78	0.81	2340
	79	68	13.76	9.50	0.69	2251	12.25	8.45	0.69	2296	11.76	8.11	0.69	2319	11.17	7.71	0.69	2365
	79	72	14.00	7.98	0.57	2268	12.46	7.10	0.57	2313	11.96	6.82	0.57	2335	11.36	6.48	0.57	2382
	79	75	14.19	6.39	0.45	2288	12.63	5.69	0.45	2332	12.13	5.46	0.45	2355	11.52	5.18	0.45	2401
	79	79	14.42	4.76	0.33	2311	12.84	4.24	0.33	2355	12.32	4.07	0.33	2378	11.71	3.86	0.33	2424
	81	64	13.63	11.58	0.85	2249	12.13	10.31	0.85	2294	11.64	9.90	0.85	2317	11.06	9.40	0.85	2364
	81	66	13.91	10.99	0.79	2259	12.38	9.78	0.79	2304	11.88	9.39	0.79	2327	11.29	8.92	0.79	2374
	81	68	14.05	10.25	0.73	2274	12.50	9.13	0.73	2319	12.00	8.76	0.73	2342	11.40	8.32	0.73	2389
	81	72	14.28	8.71	0.61	2291	12.71	7.76	0.61	2336	12.20	7.44	0.61	2359	11.59	7.07	0.61	2406
	81	75	14.48	7.10	0.49	2311	12.89	6.32	0.49	2356	12.38	6.06	0.49	2379	11.76	5.76	0.49	2426
	81	79	14.72	5.45	0.37	2334	13.10	4.85	0.37	2379	12.57	4.65	0.37	2402	11.94	4.42	0.37	2449
	82	64	13.76	12.25	0.89	2271	12.25	10.90	0.89	2317	11.76	10.47	0.89	2340	11.17	9.94	0.89	2387
	82	68	14.05	10.82	0.77	2297	12.50	9.63	0.77	2342	12.00	9.24	0.77	2365	11.40	8.78	0.77	2413
	82	72	14.19	9.22	0.65	2314	12.63	8.21	0.65	2359	12.12	7.88	0.65	2383	11.51	7.48	0.65	2430
	82	75	14.43	7.65	0.53	2334	12.84	6.81	0.53	2380	12.33	6.53	0.53	2403	11.71	6.21	0.53	2450
	82	79	14.63	6.00	0.41	2357	13.02	5.34	0.41	2403	12.50	5.12	0.41	2426	11.87	4.87	0.41	2473
	84	64	13.90	12.65	0.91	2294	12.37	11.26	0.91	2340	11.88	10.81	0.91	2364	11.28	10.27	0.91	2411
	84	68	14.19	11.49	0.81	2320	12.63	10.23	0.81	2366	12.12	9.82	0.81	2389	11.51	9.33	0.81	2437
	84	72	14.47	9.98	0.69	2337	12.88	8.89	0.69	2383	12.36	8.53	0.69	2406	11.75	8.10	0.69	2454
	84	75	14.57	8.31	0.57	2357	12.97	7.39	0.57	2403	12.45	7.10	0.57	2427	11.83	6.74	0.57	2474
	84	79	14.78	6.65	0.45	2381	13.15	5.92	0.45	2427	12.62	5.68	0.45	2450	11.99	5.40	0.45	2498
	86	64	14.04	12.78	0.91	2317	12.50	11.37	0.91	2364	12.00	10.92	0.91	2387	11.40	10.37	0.91	2435
	86	68	14.33	12.18	0.85	2343	12.75	10.84	0.85	2389	12.24	10.41	0.85	2413	11.63	9.89	0.85	2461
	86	72	14.61	10.67	0.73	2360	13.01	9.50	0.73	2407	12.49	9.12	0.73	2431	11.86	8.66	0.73	2479
	86	75	14.72	8.98	0.61	2381	13.10	7.99	0.61	2427	12.57	7.67	0.61	2451	11.95	7.29	0.61	2499
	86	79	14.92	7.31	0.49	2405	13.28	6.51	0.49	2451	12.75	6.25	0.49	2475	12.11	5.94	0.49	2523
	88	64	14.18	12.91	0.91	2340	12.62	11.49	0.91	2387	12.12	11.03	0.91	2411	11.51	10.48	0.91	2460
	88	68	14.47	12.88	0.89	2366	12.88	11.46	0.89	2413	12.36	11.00	0.89	2437	11.75	10.45	0.89	2486
	88	72	14.76	11.37	0.77	2384	13.14	10.12	0.77	2431	12.61	9.71	0.77	2455	11.98	9.23	0.77	2503
	88	75	14.86	9.66	0.65	2405	13.23	8.60	0.65	2452	12.70	8.26	0.65	2476	12.07	7.84	0.65	2524
	88	79	15.07	7.99	0.53	2429	13.41	7.11	0.53	2476	12.88	6.83	0.53	2500	12.23	6.48	0.53	2548
	90	64	14.32	13.03	0.91	2364	12.75	11.60	0.91	2411	12.24	11.14	0.91	2435	11.63	10.58	0.91	2484
	90	68	14.62	13.30	0.91	2390	13.01	11.84	0.91	2437	12.49	11.36	0.91	2462	11.86	10.80	0.91	2510
	90	72	14.91	12.08	0.81	2408	13.27	10.75	0.81	2455	12.74	10.32	0.81	2479	12.10	9.80	0.81	2528
	90	75	15.01	10.36	0.69	2429	13.36	9.22	0.69	2476	12.83	8.85	0.69	2500	12.19	8.41	0.69	2549
	90	79	15.22	8.68	0.57	2453	13.55	7.72	0.57	2500	13.01	7.41	0.57	2525	12.36	7.04	0.57	2574

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 18K (Cooling up to 2 indoor units series)

			Cooling Operation PERFORMANCE DATA																																																			
			OUTDOOR DB (°F)																																																			
COMBINATION (%)	IDDB (°F)	ID WB (°F)	5				19				32				50				59				70				77				81				86				95				102				104				113			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT								
120%	70	64	18.30	11.16	0.61	1466	18.11	11.05	0.61	1479	17.92	10.93	0.61	1492	17.69	10.79	0.61	1505	17.51	10.68	0.61	1512	17.32	10.57	0.61	1562	17.08	10.42	0.61	1631	16.78	10.24	0.61	1742	16.39	10.00	0.61	1822	15.91	9.71	0.61	1891	14.64	8.93	0.61	1986	14.49	8.84	0.61	2006	11.96	7.29	0.61	2082
	70	68	19.05	9.33	0.49	1489	18.86	9.24	0.49	1502	18.66	9.14	0.49	1516	18.42	9.02	0.49	1528	18.23	8.94	0.49	1536	18.04	8.84	0.49	1586	17.79	8.72	0.49	1655	17.47	8.56	0.49	1765	17.06	8.36	0.49	1846	16.57	8.12	0.49	1914	15.24	7.47	0.49	2009	15.09	7.39	0.49	2029	12.45	6.10	0.49	2106
	72	64	18.86	12.26	0.65	1480	18.68	12.14	0.65	1494	18.47	12.01	0.65	1508	18.23	11.85	0.65	1520	18.05	11.74	0.65	1527	17.86	11.61	0.65	1578	17.61	11.45	0.65	1648	17.30	11.25	0.65	1759	16.89	10.98	0.65	1841	16.40	10.66	0.65	1910	15.09	9.81	0.65	2006	14.94	9.71	0.65	2026	12.32	8.01	0.65	2103
	72	68	19.44	10.30	0.53	1504	19.25	10.20	0.53	1518	19.04	10.09	0.53	1531	18.79	9.96	0.53	1544	18.61	9.86	0.53	1551	18.40	9.75	0.53	1602	18.15	9.62	0.53	1672	17.83	9.45	0.53	1783	17.41	9.23	0.53	1865	16.90	8.96	0.53	1934	15.55	8.24	0.53	2030	15.40	8.16	0.53	2050	12.70	6.73	0.53	2127
	72	72	19.77	8.11	0.41	1520	19.57	8.03	0.41	1534	19.36	7.94	0.41	1547	19.11	7.84	0.41	1560	18.92	7.76	0.41	1567	18.72	7.67	0.41	1618	18.46	7.57	0.41	1688	18.13	7.43	0.41	1799	17.71	7.26	0.41	1881	17.19	7.05	0.41	1950	15.82	6.48	0.41	2046	15.66	6.42	0.41	2066	12.92	5.30	0.41	2143
	73	64	19.25	13.28	0.69	1495	19.06	13.15	0.69	1509	18.85	13.01	0.69	1523	18.61	12.84	0.69	1535	18.42	12.71	0.69	1543	18.22	12.57	0.69	1594	17.97	12.40	0.69	1665	17.65	12.18	0.69	1777	17.24	11.90	0.69	1859	16.74	11.55	0.69	1929	15.40	10.62	0.69	2026	15.24	10.52	0.69	2046	12.58	8.68	0.69	2125
	73	68	19.84	11.31	0.57	1519	19.64	11.19	0.57	1533	19.43	11.07	0.57	1547	19.18	10.93	0.57	1559	18.99	10.82	0.57	1567	18.78	10.70	0.57	1618	18.52	10.56	0.57	1689	18.19	10.37	0.57	1801	17.77	10.13	0.57	1883	17.25	9.83	0.57	1953	15.87	9.05	0.57	2050	15.71	8.96	0.57	2070	12.96	7.39	0.57	2149
	73	72	20.17	9.08	0.45	1536	19.97	8.99	0.45	1549	19.76	8.89	0.45	1563	19.50	8.78	0.45	1575	19.31	8.69	0.45	1583	19.10	8.59	0.45	1635	18.84	8.48	0.45	1705	18.50	8.33	0.45	1817	18.07	8.13	0.45	1900	17.54	7.89	0.45	1969	16.14	7.26	0.45	2066	15.98	7.19	0.45	2087	13.18	5.93	0.45	2165
	75	64	19.64	14.34	0.73	1510	19.45	14.20	0.73	1524	19.23	14.04	0.73	1538	18.99	13.86	0.73	1551	18.80	13.72	0.73	1558	18.59	13.57	0.73	1610	18.34	13.39	0.73	1681	18.01	13.15	0.73	1795	17.59	12.84	0.73	1878	17.08	12.47	0.73	1949	15.71	11.47	0.73	2047	15.56	11.36	0.73	2067	12.83	9.37	0.73	2146
	75	68	20.24	12.35	0.61	1535	20.04	12.22	0.61	1548	19.82	12.09	0.61	1562	19.57	11.94	0.61	1575	19.37	11.82	0.61	1583	19.16	11.69	0.61	1635	18.90	11.53	0.61	1706	18.56	11.32	0.61	1819	18.13	11.06	0.61	1902	17.60	10.74	0.61	1973	16.19	9.88	0.61	2071	16.03	9.78	0.61	2091	13.23	8.07	0.61	2170
	75	72	20.59	10.09	0.49	1551	20.38	9.99	0.49	1565	20.16	9.88	0.49	1579	19.90	9.75	0.49	1591	19.70	9.65	0.49	1599	19.49	9.55	0.49	1651	19.22	9.42	0.49	1722	18.88	9.25	0.49	1836	18.44	9.03	0.49	1919	17.90	8.77	0.49	1989	16.47	8.07	0.49	2087	16.30	7.99	0.49	2108	13.45	6.59	0.49	2187
	75	75	20.87	7.72	0.37	1571	20.67	7.65	0.37	1584	20.44	7.56	0.37	1598	20.18	7.47	0.37	1611	19.98	7.39	0.37	1619	19.76	7.31	0.37	1670	19.49	7.21	0.37	1742	19.14	7.08	0.37	1855	18.70	6.92	0.37	1938	18.15	6.72	0.37	2009	16.70	6.18	0.37	2107	16.53	6.12	0.37	2127	13.64	5.05	0.37	2206
	77	64	20.25	15.59	0.77	1526	20.05	15.44	0.77	1540	19.83	15.27	0.77	1554	19.57	15.07	0.77	1566	19.38	14.92	0.77	1574	19.17	14.76	0.77	1627	18.90	14.56	0.77	1698	18.57	14.30	0.77	1813	18.14	13.96	0.77	1897	17.61	13.56	0.77	1968	16.20	12.47	0.77	2067	16.04	12.35	0.77	2088	13.23	10.19	0.77	2168
	77	68	20.87	13.56	0.65	1550	20.66	13.43	0.65	1564	20.44	13.28	0.65	1578	20.17	13.11	0.65	1591	19.97	12.98	0.65	1599	19.76	12.84	0.65	1651	19.48	12.66	0.65	1723	19.14	12.44	0.65	1838	18.69	12.15	0.65	1922	18.15	11.79	0.65	1993	16.69	10.85	0.65	2092	16.53	10.74	0.65	2112	13.64	8.86	0.65	2192
	77	72	21.22	11.25	0.53	1567	21.01	11.14	0.53	1581	20.78	11.01	0.53	1595	20.52	10.87	0.53	1607	20.31	10.77	0.53	1615	20.09	10.65	0.53	1668	19.81	10.50	0.53	1739	19.46	10.32	0.53	1854	19.01	10.07	0.53	1938	18.45	9.78	0.53	2009	16.98	9.00	0.53	2108	16.81	8.91	0.53	2129	13.87	7.35	0.53	2209
	77	75	21.52	8.82	0.41	1586	21.31	8.74	0.41	1600	21.07	8.64	0.41	1614	20.80	8.53	0.41	1627	20.60	8.44	0.41	1635	20.37	8.35	0.41	1687	20.09	8.24	0.41	1759	19.74	8.09	0.41	1874	19.27	7.90	0.41	1958	18.71	7.67	0.41	2029	17.22	7.06	0.41	2128	17.04	6.99	0.41	2149	14.06	5.77	0.41	2228
	79	64	20.87	16.91	0.81	1541	20.67	16.74	0.81	1555	20.44	16.56	0.81	1569	20.18	16.35	0.81	1582	19.98	16.18	0.81	1590	19.76	16.01	0.81	1643	19.49	15.79	0.81	1715	19.14	15.51	0.81	1831	18.70	15.14	0.81	1916	18.15	14.70	0.81	1988	16.70	13.53	0.81	2088	16.53	13.39	0.81	2109	13.64	11.05	0.81	2190
	79	68	21.51	14.84	0.69	1566	21.30	14.70	0.69	1580	21.07	14.54	0.69	1594	20.80	14.35	0.69	1607	20.59	14.21	0.69	1615	20.37	14.05	0.69	1668	20.09	13.86	0.69	1740	19.73	13.61	0.69	1856	19.27	13.30	0.69	1941	18.71	12.91	0.69	2013	17.21	11.88	0.69	2113	17.04	11.76	0.69	2134	14.06	9.70	0.69	2214
	79	72	21.88	12.47	0.57	1583	21.66	12.35	0.57	1597	21.43	12.21	0.57																																									

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 18K (Cooling up to 2 indoor units series)

	Cooling Operation PERFORMANCE DATA																	
	OUTDOOR DB (°F)																	
COMBINATION (%)	IDDB (°F)	IDWB (°F)	115				120				122				126			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT
120%	70	64	11.60	7.07	0.61	2097	10.32	6.30	0.61	2139	9.91	6.04	0.61	2161	9.41	5.74	0.61	2204
	70	68	12.07	5.92	0.49	2120	10.75	5.27	0.49	2163	10.32	5.06	0.49	2184	9.80	4.80	0.49	2227
	72	64	11.96	7.77	0.65	2118	10.64	6.92	0.65	2161	10.21	6.64	0.65	2182	9.70	6.31	0.65	2226
	72	68	12.32	6.53	0.53	2142	10.97	5.81	0.53	2184	10.53	5.58	0.53	2206	10.00	5.30	0.53	2250
	72	72	12.53	5.14	0.41	2158	11.15	4.57	0.41	2201	10.71	4.39	0.41	2222	10.17	4.17	0.41	2266
	73	64	12.20	8.42	0.69	2139	10.86	7.49	0.69	2182	10.42	7.19	0.69	2204	9.90	6.83	0.69	2249
	73	68	12.57	7.17	0.57	2163	11.19	6.38	0.57	2206	10.74	6.12	0.57	2228	10.20	5.82	0.57	2273
	73	72	12.79	5.75	0.45	2180	11.38	5.12	0.45	2223	10.92	4.92	0.45	2245	10.38	4.67	0.45	2289
	75	64	12.45	9.09	0.73	2161	11.08	8.09	0.73	2205	10.64	7.76	0.73	2227	10.10	7.38	0.73	2271
	75	68	12.83	7.83	0.61	2185	11.42	6.97	0.61	2229	10.96	6.69	0.61	2251	10.41	6.35	0.61	2296
	75	72	13.05	6.39	0.49	2202	11.61	5.69	0.49	2245	11.15	5.46	0.49	2267	10.59	5.19	0.49	2312
	75	75	13.23	4.90	0.37	2221	11.77	4.36	0.37	2265	11.30	4.18	0.37	2287	10.74	3.97	0.37	2332
	77	64	12.83	9.88	0.77	2183	11.42	8.79	0.77	2227	10.96	8.44	0.77	2249	10.42	8.02	0.77	2294
	77	68	13.23	8.60	0.65	2207	11.77	7.65	0.65	2251	11.30	7.35	0.65	2274	10.74	6.98	0.65	2319
	77	72	13.45	7.13	0.53	2224	11.97	6.34	0.53	2268	11.49	6.09	0.53	2290	10.92	5.79	0.53	2335
	77	75	13.64	5.59	0.41	2244	12.14	4.98	0.41	2288	11.65	4.78	0.41	2310	11.07	4.54	0.41	2355
	79	64	13.23	10.72	0.81	2205	11.77	9.54	0.81	2249	11.30	9.16	0.81	2272	10.74	8.70	0.81	2317
	79	68	13.64	9.41	0.69	2230	12.14	8.37	0.69	2274	11.65	8.04	0.69	2297	11.07	7.64	0.69	2342
	79	72	13.87	7.90	0.57	2247	12.34	7.03	0.57	2291	11.85	6.75	0.57	2313	11.26	6.42	0.57	2359
	79	75	14.06	6.33	0.45	2266	12.51	5.63	0.45	2311	12.01	5.41	0.45	2333	11.41	5.14	0.45	2379
	79	79	14.29	4.71	0.33	2289	12.71	4.20	0.33	2333	12.21	4.03	0.33	2356	11.60	3.83	0.33	2402
	81	64	13.50	11.48	0.85	2227	12.02	10.21	0.85	2272	11.53	9.80	0.85	2295	10.96	9.31	0.85	2341
	81	66	13.78	10.88	0.79	2237	12.26	9.69	0.79	2282	11.77	9.30	0.79	2305	11.18	8.83	0.79	2351
	81	68	13.91	10.16	0.73	2252	12.38	9.04	0.73	2297	11.89	8.68	0.73	2320	11.29	8.24	0.73	2366
	81	72	14.15	8.63	0.61	2269	12.59	7.68	0.61	2314	12.09	7.37	0.61	2337	11.49	7.01	0.61	2383
	81	75	14.35	7.03	0.49	2289	12.77	6.26	0.49	2334	12.26	6.01	0.49	2357	11.65	5.71	0.49	2403
	81	79	14.58	5.39	0.37	2312	12.97	4.80	0.37	2357	12.46	4.61	0.37	2380	11.83	4.38	0.37	2426
	82	64	13.64	12.14	0.89	2250	12.14	10.80	0.89	2295	11.65	10.37	0.89	2318	11.07	9.85	0.89	2364
	82	68	13.91	10.71	0.77	2275	12.38	9.53	0.77	2320	11.89	9.15	0.77	2343	11.29	8.70	0.77	2390
	82	72	14.05	9.13	0.65	2292	12.51	8.13	0.65	2337	12.01	7.80	0.65	2360	11.41	7.41	0.65	2407
	82	75	14.29	7.57	0.53	2312	12.72	6.74	0.53	2357	12.21	6.47	0.53	2380	11.60	6.15	0.53	2427
	82	79	14.49	5.94	0.41	2335	12.90	5.29	0.41	2381	12.38	5.08	0.41	2404	11.76	4.82	0.41	2450
	84	64	13.77	12.53	0.91	2272	12.26	11.15	0.91	2318	11.77	10.71	0.91	2341	11.18	10.17	0.91	2388
	84	68	14.05	11.38	0.81	2298	12.51	10.13	0.81	2343	12.01	9.73	0.81	2366	11.41	9.24	0.81	2413
	84	72	14.33	9.89	0.69	2315	12.76	8.80	0.69	2360	12.25	8.45	0.69	2384	11.63	8.03	0.69	2431
	84	75	14.43	8.23	0.57	2335	12.85	7.32	0.57	2381	12.33	7.03	0.57	2404	11.72	6.68	0.57	2451
	84	79	14.64	6.59	0.45	2359	13.03	5.86	0.45	2404	12.51	5.63	0.45	2428	11.88	5.35	0.45	2475
	86	64	13.91	12.66	0.91	2295	12.38	11.27	0.91	2341	11.88	10.81	0.91	2364	11.29	10.27	0.91	2412
	86	68	14.19	12.06	0.85	2320	12.63	10.74	0.85	2367	12.13	10.31	0.85	2390	11.52	9.79	0.85	2438
	86	72	14.48	10.57	0.73	2338	12.88	9.41	0.73	2384	12.37	9.03	0.73	2408	11.75	8.58	0.73	2455
	86	75	14.58	8.89	0.61	2359	12.97	7.91	0.61	2405	12.46	7.60	0.61	2428	11.83	7.22	0.61	2476
	86	79	14.78	7.24	0.49	2382	13.16	6.45	0.49	2428	12.63	6.19	0.49	2452	12.00	5.88	0.49	2499
	88	64	14.05	12.78	0.91	2318	12.50	11.38	0.91	2364	12.00	10.92	0.91	2388	11.40	10.38	0.91	2436
	88	68	14.33	12.76	0.89	2344	12.76	11.35	0.89	2390	12.25	10.90	0.89	2414	11.64	10.36	0.89	2462
	88	72	14.62	11.26	0.77	2361	13.01	10.02	0.77	2408	12.49	9.62	0.77	2432	11.87	9.14	0.77	2480
	88	75	14.72	9.57	0.65	2382	13.10	8.52	0.65	2429	12.58	8.18	0.65	2452	11.95	7.77	0.65	2500
	88	79	14.93	7.91	0.53	2406	13.29	7.04	0.53	2453	12.76	6.76	0.53	2476	12.12	6.42	0.53	2524
	90	64	14.19	12.91	0.91	2341	12.63	11.49	0.91	2388	12.12	11.03	0.91	2412	11.52	10.48	0.91	2460
	90	68	14.48	13.18	0.91	2367	12.89	11.73	0.91	2414	12.37	11.26	0.91	2438	11.75	10.69	0.91	2487
	90	72	14.77	11.96	0.81	2385	13.14	10.65	0.81	2432	12.62	10.22	0.81	2456	11.99	9.71	0.81	2504
	90	75	14.87	10.26	0.69	2406	13.24	9.13	0.69	2453	12.71	8.77	0.69	2477	12.07	8.33	0.69	2525

Capacities and Selection Data (Capacity Characteristics Charts) 18K (Cooling up to 2 indoor units series)

		Cooling Operation PERFORMANCE DATA																																																				
		OUTDOOR DB (°F)																																																				
COMBINATION (%)	IDDB (°F)	ID WB (°F)	5				19				32				50				59				70				77				81				86				95				102				104				113			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT				
110%	70	64	17.95	10.95	0.61	1451	17.77	10.84	0.61	1465	17.58	10.72	0.61	1478	17.35	10.58	0.61	1490	17.18	10.48	0.61	1497	16.99	10.37	0.61	1547	16.76	10.22	0.61	1616	16.46	10.04	0.61	1725	16.08	9.81	0.61	1805	15.61	9.52	0.61	1872	14.51	8.85	0.61	1966	14.37	8.77	0.61	1986	11.85	7.23	0.61	2062
	70	68	18.69	9.16	0.49	1475	18.50	9.07	0.49	1488	18.30	8.97	0.49	1501	18.07	8.85	0.49	1513	17.89	8.76	0.49	1521	17.69	8.67	0.49	1571	17.45	8.55	0.49	1639	17.14	8.40	0.49	1748	16.74	8.20	0.49	1828	16.25	7.96	0.49	1896	15.11	7.41	0.49	1990	14.96	7.33	0.49	2010	12.34	6.05	0.49	2086
	72	64	18.50	12.03	0.65	1466	18.32	11.91	0.65	1479	18.12	11.78	0.65	1493	17.89	11.63	0.65	1505	17.71	11.51	0.65	1513	17.52	11.39	0.65	1563	17.28	11.23	0.65	1632	16.97	11.03	0.65	1742	16.57	10.77	0.65	1823	16.09	10.46	0.65	1891	14.96	9.73	0.65	1986	14.81	9.63	0.65	2006	12.22	7.94	0.65	2083
	72	68	19.07	10.11	0.53	1490	18.88	10.01	0.53	1503	18.67	9.90	0.53	1517	18.44	9.77	0.53	1529	18.25	9.67	0.53	1536	18.05	9.57	0.53	1587	17.80	9.44	0.53	1656	17.49	9.27	0.53	1766	17.08	9.05	0.53	1847	16.58	8.79	0.53	1915	15.42	8.17	0.53	2010	15.27	8.09	0.53	2030	12.60	6.68	0.53	2107
	72	72	19.39	7.95	0.41	1506	19.20	7.87	0.41	1519	18.99	7.79	0.41	1533	18.75	7.69	0.41	1545	18.56	7.61	0.41	1553	18.36	7.53	0.41	1603	18.11	7.42	0.41	1672	17.79	7.29	0.41	1782	17.37	7.12	0.41	1863	16.86	6.91	0.41	1931	15.68	6.43	0.41	2026	15.53	6.37	0.41	2046	12.81	5.25	0.41	2123
	73	64	18.88	13.03	0.69	1481	18.69	12.90	0.69	1494	18.49	12.76	0.69	1508	18.25	12.59	0.69	1520	18.07	12.47	0.69	1528	17.88	12.33	0.69	1579	17.63	12.16	0.69	1648	17.32	11.95	0.69	1760	16.91	11.67	0.69	1841	16.42	11.33	0.69	1910	15.27	10.54	0.69	2006	15.12	10.43	0.69	2027	12.47	8.61	0.69	2101
	73	68	19.46	11.09	0.57	1505	19.27	10.98	0.57	1518	19.06	10.86	0.57	1532	18.81	10.72	0.57	1544	18.63	10.62	0.57	1552	18.42	10.50	0.57	1603	18.17	10.36	0.57	1672	17.85	10.17	0.57	1784	17.43	9.93	0.57	1865	16.92	9.64	0.57	1934	15.74	8.97	0.57	2030	15.58	8.88	0.57	2051	12.85	7.33	0.57	2128
	73	72	19.79	8.91	0.45	1521	19.59	8.82	0.45	1535	19.38	8.72	0.45	1548	19.13	8.61	0.45	1561	18.94	8.52	0.45	1568	18.74	8.43	0.45	1619	18.48	8.31	0.45	1689	18.15	8.17	0.45	1800	17.72	7.98	0.45	1882	17.21	7.74	0.45	1951	16.00	7.20	0.45	2047	15.84	7.13	0.45	2067	13.07	5.88	0.45	2148
	75	64	19.27	10.61	0.73	1496	19.07	13.92	0.73	1509	18.87	13.77	0.73	1523	18.63	13.60	0.73	1536	18.44	13.46	0.73	1543	18.24	13.32	0.73	1595	17.99	13.13	0.73	1665	17.67	12.90	0.73	1778	17.26	12.60	0.73	1860	16.75	12.23	0.73	1930	15.58	11.37	0.73	2027	15.42	11.26	0.73	2047	12.73	9.29	0.73	2125
	75	68	19.86	12.11	0.61	1520	19.66	11.99	0.61	1534	19.44	11.86	0.61	1547	19.20	11.71	0.61	1560	19.01	11.59	0.61	1568	18.80	11.47	0.61	1619	18.54	11.31	0.61	1689	18.21	11.11	0.61	1802	17.78	10.85	0.61	1884	17.27	10.53	0.61	1954	16.06	9.80	0.61	2051	15.90	9.70	0.61	2071	13.12	8.00	0.61	2149
	75	72	20.19	9.89	0.49	1536	19.99	9.80	0.49	1550	19.78	9.69	0.49	1564	19.52	9.57	0.49	1576	19.33	9.47	0.49	1584	19.12	9.37	0.49	1635	18.85	9.24	0.49	1706	18.52	9.08	0.49	1818	18.09	8.86	0.49	1901	17.56	8.60	0.49	1970	16.33	8.00	0.49	2067	16.17	7.92	0.49	2088	13.34	6.54	0.49	2166
	75	75	20.48	7.58	0.37	1556	20.27	7.50	0.37	1570	20.05	7.42	0.37	1583	19.79	7.32	0.37	1596	19.60	7.25	0.37	1603	19.39	7.17	0.37	1655	19.12	7.07	0.37	1725	18.78	6.95	0.37	1838	18.34	6.79	0.37	1920	17.81	6.59	0.37	1990	16.56	6.13	0.37	2087	16.39	6.07	0.37	2107	13.52	5.00	0.37	2185
	77	64	19.86	15.29	0.77	1511	19.66	15.14	0.77	1525	19.45	14.98	0.77	1539	19.20	14.78	0.77	1551	19.01	14.64	0.77	1559	18.80	14.48	0.77	1611	18.54	14.28	0.77	1682	18.22	14.03	0.77	1796	17.79	13.70	0.77	1879	17.27	13.30	0.77	1949	16.06	12.37	0.77	2047	15.90	12.24	0.77	2068	13.12	10.10	0.77	2147
	77	68	20.47	13.31	0.65	1535	20.27	13.17	0.65	1549	20.05	13.03	0.65	1563	19.79	12.86	0.65	1576	19.59	12.74	0.65	1583	19.38	12.60	0.65	1635	19.11	12.42	0.65	1706	18.77	12.20	0.65	1820	18.33	11.92	0.65	1903	17.80	11.57	0.65	1974	16.55	10.76	0.65	2072	16.39	10.65	0.65	2092	13.52	7.79	0.65	2171
	77	72	20.82	11.03	0.53	1552	20.60	11.02	0.53	1566	20.39	10.81	0.53	1580	20.13	10.67	0.53	1592	19.93	10.56	0.53	1600	19.71	10.45	0.53	1652	19.44	10.30	0.53	1723	19.09	10.12	0.53	1837	18.65	9.88	0.53	1920	18.10	9.59	0.53	1990	16.84	8.92	0.53	2088	16.67	8.83	0.53	2109	13.75	7.29	0.53	2188
	77	75	21.21	8.65	0.41	1572	20.90	8.57	0.41	1585	20.67	8.48	0.41	1599	20.41	8.37	0.41	1612	20.21	8.28	0.41	1620	20.19	8.19	0.41	1672	19.71	8.08	0.41	1743	19.36	7.94	0.41	1856	18.91	7.75	0.41	1939	18.36	7.53	0.41	2010	17.07	7.00	0.41	2108	16.90	6.93	0.41	2128	13.94	5.72	0.41	2207
	79	64	20.48	16.59	0.81	1526	20.27	16.42	0.81	1540	20.05	16.24	0.81	1554	19.80	16.03	0.81	1567	19.60	15.88	0.81	1575	19.39	15.70	0.81	1627	19.12	15.49	0.81	1699	18.78	15.21	0.81	1814	18.34	14.86	0.81	1898	17.81	14.42	0.81	1969	16.56	13.41	0.81	2068	16.39	13.28	0.81	2089	13.52	10.96	0.81	2168
	79	68	21.10	14.56	0.69	1551	20.89	14.42	0.69	1565	20.67	14.26	0.69	1579	20.40	14.08	0.69	1591	20.20	13.94	0.69	1599	19.98	13.79	0.69	1652	19.70	13.60	0.69	1724	19.36	13.35	0.69	1838	18.90	13.04	0.69	1922	18.35	12.66	0.69	1994	17.07	11.78	0.69	2093	16.90	11.66	0.69	2113	13.94	9.62	0.69	2193
	79	72	21.46	12.23	0.57	1568	21.25	12.11	0.57	1582	21.02	11.98	0.57	1596	20.75	11.83	0.57	1608	20.54	11.71	0.57	1616	20.32	11.58	0.57	1669	20.04	11.42	0.57	1740	19.68	11.22	0.57	1855	19.22	10.96	0.57	1939	18.66	10.64	0.57	2010	17.36	9.89	0.57	2109	17.18	9.79	0.57	2130	14.18	8.08	0.57	2210
	79	75	21.76	9.79	0.45	1587	21.55	9.70	0.45	1601	21.31	9.59	0.45	1616	21.04	9.47	0.45	1628	20.83	9.37	0.45	1636	20.60	9.27	0.45	1688	20.32	9.14	0.45	1760	19.96	8.98	0.45	1875	19.49	8.77	0.45	1959	18.92	8.52	0.45	2030	17.60	7.92	0.45	2129	17.42	7.84	0.45	2150	14.37	6.47	0.45	2230
	79	79	22.11	7.30	0.33	1610	21.89	7.22	0.33	1624	21.65	7.15	0.33	1638	21.37	7.05	0.33	1651	21.16	6.98	0.33	1659	20.93	6.91	0.33	1711	20.64	6.81	0.33	1783	20.28	6.69	0.33	1898	19.80	6.54	0.33	1982	19.23	6.34	0.33	2053	17.88	5.90	0.33	2152	17.70	5.84	0.33	2173	14.60	4.82	0.33	2252
	81	64	20.89	17.76	0.85	1542	20.69	17.58	0.85	1556	20.46	17.39	0.85	1570	20.20	17.17	0.85	1583	20.00	17.00	0.85	1591	19.78	16.81	0.85	1643	19.51	16.58	0.85	1716	19.16	16.29	0.85	1832	18.71	15.91	0.85	1917	18.17	15.44	0.85	1989	16.90	14.36	0.85	2089	16.73	14.22	0.85	2110	13.80	11.73	0.85	2190
	81	66	21.32	16.84	0.79	1552	21.11	16.68	0.79	1566	20.88	16.49	0.79	1580	20.61	16.28	0.79	1593	20.41	16.12	0.79	1601	20.19	15.95	0.79	1653	19.91	15.73	0.79	1726	19.55	15.45	0.79	1842	19.10	15.09	0.79	1927	18.54	14.65	0.79	1999	17.24	13.62	0.79	2099	17.07	13.49	0.79	2120	14.08	11.13	0.79	2200
	81	68	21.53	15.72	0.73	1567	21.32	15.56	0.73	1581	21.09	15.39	0.73	1595	20.82	15.20	0.73	1608	20.61	15.05	0.73</																																	

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 18K (Cooling up to 2 indoor units series)

Cooling Operation PERFORMANCE DATA																		
COMBINATION (%)	OUTDOOR DB (°F)																	
	IDDB (°F)	IDWB (°F)	115				120				122				126			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT
110%	70	64	11.50	7.01	0.61	2077	10.23	6.24	0.61	2118	9.83	5.99	0.61	2140	9.33	5.69	0.61	2183
	70	68	11.97	5.87	0.49	2100	10.66	5.22	0.49	2142	10.23	5.01	0.49	2163	9.72	4.76	0.49	2206
	72	64	11.85	7.71	0.65	2098	10.55	6.86	0.65	2140	10.13	6.58	0.65	2161	9.62	6.25	0.65	2205
	72	68	12.22	6.48	0.53	2121	10.87	5.76	0.53	2163	10.44	5.53	0.53	2185	9.92	5.26	0.53	2228
	72	72	12.43	5.09	0.41	2137	11.06	4.53	0.41	2180	10.62	4.35	0.41	2201	10.09	4.14	0.41	2245
	73	64	12.10	8.35	0.69	2119	10.77	7.43	0.69	2161	10.34	7.13	0.69	2183	9.82	6.77	0.69	2227
	73	68	12.47	7.11	0.57	2143	11.10	6.32	0.57	2185	10.65	6.07	0.57	2207	10.12	5.77	0.57	2251
	73	72	12.68	5.71	0.45	2159	11.28	5.08	0.45	2202	10.83	4.87	0.45	2223	10.29	4.63	0.45	2267
	75	64	12.34	9.01	0.73	2140	10.99	8.02	0.73	2183	10.55	7.70	0.73	2205	10.02	7.31	0.73	2249
	75	68	12.72	7.76	0.61	2164	11.32	6.91	0.61	2207	10.87	6.63	0.61	2229	10.33	6.30	0.61	2274
	75	72	12.94	6.34	0.49	2181	11.51	5.64	0.49	2224	11.05	5.42	0.49	2246	10.50	5.15	0.49	2290
	75	75	13.12	4.85	0.37	2200	11.68	4.32	0.37	2243	11.21	4.15	0.37	2265	10.65	3.94	0.37	2309
	77	64	12.73	9.80	0.77	2162	11.33	8.72	0.77	2205	10.87	8.37	0.77	2227	10.33	7.95	0.77	2272
	77	68	13.12	8.52	0.65	2186	11.67	7.59	0.65	2230	11.21	7.28	0.65	2252	10.65	6.92	0.65	2297
	77	72	13.34	7.07	0.53	2203	11.87	6.29	0.53	2246	11.40	6.04	0.53	2268	10.83	5.74	0.53	2313
	77	75	13.52	5.55	0.41	2222	12.04	4.94	0.41	2266	11.56	4.74	0.41	2288	10.98	4.50	0.41	2333
	79	64	13.12	10.63	0.81	2184	11.68	9.46	0.81	2227	11.21	9.08	0.81	2250	10.65	8.63	0.81	2295
	79	68	13.52	9.33	0.69	2208	12.03	8.30	0.69	2252	11.55	7.97	0.69	2275	10.97	7.57	0.69	2320
	79	72	13.75	7.84	0.57	2225	12.24	6.98	0.57	2269	11.75	6.70	0.57	2291	11.16	6.36	0.57	2337
	79	75	13.94	6.27	0.45	2245	12.41	5.58	0.45	2289	11.91	5.36	0.45	2311	11.32	5.09	0.45	2356
	79	79	14.17	4.67	0.33	2268	12.61	4.16	0.33	2312	12.10	3.99	0.33	2334	11.50	3.79	0.33	2379
	81	64	13.39	11.38	0.85	2206	11.91	10.13	0.85	2250	11.44	9.72	0.85	2273	10.87	9.24	0.85	2318
	81	66	13.66	10.79	0.79	2216	12.16	9.60	0.79	2260	11.67	9.22	0.79	2283	11.09	8.76	0.79	2328
	81	68	13.80	10.07	0.73	2231	12.28	8.96	0.73	2275	11.79	8.61	0.73	2298	11.20	8.17	0.73	2343
	81	72	14.03	8.56	0.61	2248	12.49	7.62	0.61	2292	11.99	7.31	0.61	2315	11.39	6.95	0.61	2360
	81	75	14.23	6.97	0.49	2268	12.66	6.20	0.49	2312	12.16	5.96	0.49	2335	11.55	5.66	0.49	2380
	81	79	14.46	5.35	0.37	2291	12.87	4.76	0.37	2335	12.35	4.57	0.37	2358	11.73	4.34	0.37	2403
	82	64	13.52	12.03	0.89	2228	12.03	10.71	0.89	2272	11.55	10.28	0.89	2295	10.97	9.77	0.89	2341
	82	68	13.80	10.62	0.77	2253	12.28	9.45	0.77	2298	11.79	9.08	0.77	2321	11.20	8.62	0.77	2367
	82	72	13.93	9.06	0.65	2270	12.40	8.06	0.65	2315	11.91	7.74	0.65	2338	11.31	7.35	0.65	2384
	82	75	14.17	7.51	0.53	2290	12.61	6.68	0.53	2335	12.11	6.42	0.53	2358	11.50	6.10	0.53	2404
	82	79	14.37	5.89	0.41	2314	12.79	5.24	0.41	2358	12.28	5.03	0.41	2381	11.66	4.78	0.41	2427
	84	64	13.66	12.43	0.91	2250	12.15	11.06	0.91	2295	11.67	10.62	0.91	2318	11.08	10.09	0.91	2365
	84	68	13.93	11.29	0.81	2275	12.40	10.05	0.81	2321	11.91	9.64	0.81	2344	11.31	9.16	0.81	2390
	84	72	14.21	9.81	0.69	2293	12.65	8.73	0.69	2338	12.14	8.38	0.69	2361	11.54	7.96	0.69	2408
	84	75	14.31	8.16	0.57	2313	12.74	7.26	0.57	2358	12.23	6.97	0.57	2381	11.62	6.62	0.57	2428
	84	79	14.51	6.53	0.45	2337	12.92	5.81	0.45	2382	12.40	5.58	0.45	2405	11.78	5.30	0.45	2451
	86	64	13.79	12.55	0.91	2272	12.28	11.17	0.91	2318	11.78	10.72	0.91	2341	11.20	10.19	0.91	2388
	86	68	14.07	11.96	0.85	2298	12.53	10.65	0.85	2344	12.02	10.22	0.85	2367	11.42	9.71	0.85	2414
	86	72	14.36	10.48	0.73	2316	12.78	9.33	0.73	2361	12.27	8.95	0.73	2385	11.65	8.51	0.73	2432
	86	75	14.46	8.82	0.61	2336	12.87	7.85	0.61	2382	12.35	7.53	0.61	2405	11.73	7.16	0.61	2452
	86	79	14.66	7.18	0.49	2360	13.05	6.39	0.49	2406	12.52	6.14	0.49	2429	11.90	5.83	0.49	2476
	88	64	13.93	12.68	0.91	2295	12.40	11.28	0.91	2341	11.90	10.83	0.91	2365	11.31	10.29	0.91	2412
	88	68	14.21	12.65	0.89	2321	12.65	11.26	0.89	2367	12.15	10.81	0.89	2391	11.54	10.27	0.89	2438
	88	72	14.50	11.16	0.77	2339	12.90	9.94	0.77	2385	12.39	9.54	0.77	2409	11.77	9.06	0.77	2456
	88	75	14.60	9.49	0.65	2360	12.99	8.45	0.65	2406	12.48	8.11	0.65	2429	11.85	7.70	0.65	2477
	88	79	14.81	7.85	0.53	2384	13.18	6.98	0.53	2430	12.65	6.70	0.53	2453	12.02	6.37	0.53	2501
	90	64	14.07	12.80	0.91	2318	12.52	11.40	0.91	2365	12.02	10.94	0.91	2388	11.42	10.39	0.91	2436
	90	68	14.36	13.06	0.91	2344	12.78	11.63	0.91	2391	12.27	11.16	0.91	2415	11.65	10.60	0.91	2463
	90	72	14.64	11.86	0.81	2362	13.03	10.56	0.81	2409	12.51	10.13	0.81	2433	11.89	9.63	0.81	2481
	90	75	14.75	10.18	0.69	2383	13.12	9.06	0.69	2430	12.60	8.69	0.69	2454	11.97	8.26	0.69	2502
	90	79	14.95	8.52	0.57	2407	13.31	7.59	0.57	2454	12.78	7.28	0.57	2478	12.14	6.92	0.57	2526

Capacities and Selection Data (Capacity Characteristics Charts) 18K (Cooling up to 2 indoor units series)

		Cooling Operation PERFORMANCE DATA																																																				
		OUTDOOR DB (°F)																																																				
COMBINATION (%)	IDDB (°F)	ID WB (°F)	5				19				32				50				59				70				77				81				86				95				102				104				113			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT				
100%	70	64	17.42	10.63	0.61	1416	17.25	10.52	0.61	1429	17.06	10.41	0.61	1442	16.85	10.28	0.61	1453	16.68	10.17	0.61	1461	16.50	10.06	0.61	1509	16.27	9.92	0.61	1576	15.98	9.75	0.61	1683	15.61	9.52	0.61	1760	15.15	9.24	0.61	1826	14.09	8.60	0.61	1918	13.95	8.51	0.61	1938	11.51	7.02	0.61	2012
	70	68	18.14	8.89	0.49	1439	17.96	8.80	0.49	1452	17.77	8.71	0.49	1465	17.54	8.59	0.49	1477	17.37	8.51	0.49	1484	17.18	8.42	0.49	1533	16.94	8.30	0.49	1599	16.64	8.15	0.49	1706	16.25	7.96	0.49	1784	15.78	7.73	0.49	1850	14.67	7.19	0.49	1942	14.53	7.12	0.49	1961	11.98	5.87	0.49	2035
	72	64	17.96	11.68	0.65	1430	17.79	11.56	0.65	1443	17.59	11.44	0.65	1456	17.37	11.29	0.65	1468	17.19	11.18	0.65	1475	17.01	11.05	0.65	1525	16.77	10.90	0.65	1592	16.48	10.71	0.65	1700	16.09	10.46	0.65	1778	15.62	10.15	0.65	1845	14.53	9.44	0.65	1938	14.38	9.35	0.65	1957	11.87	7.71	0.65	2032
	72	68	18.51	9.81	0.53	1454	18.33	9.72	0.53	1467	18.13	9.61	0.53	1480	17.90	9.49	0.53	1492	17.72	9.39	0.53	1499	17.53	9.29	0.53	1548	17.29	9.16	0.53	1616	16.98	9.00	0.53	1723	16.58	8.79	0.53	1802	16.10	8.53	0.53	1869	14.97	7.94	0.53	1961	14.82	7.86	0.53	1981	12.23	6.48	0.53	2056
	72	72	18.83	7.72	0.41	1470	18.64	7.64	0.41	1483	18.44	7.56	0.41	1496	18.20	7.46	0.41	1508	18.02	7.39	0.41	1515	17.83	7.31	0.41	1565	17.58	7.21	0.41	1632	17.27	7.08	0.41	1739	16.86	6.91	0.41	1818	16.37	6.71	0.41	1885	15.23	6.24	0.41	1978	15.07	6.18	0.41	1997	12.44	5.10	0.41	2072
	73	64	18.33	12.65	0.69	1444	18.15	12.52	0.69	1458	17.95	12.39	0.69	1471	17.72	12.23	0.69	1483	17.55	12.11	0.69	1490	17.35	11.97	0.69	1540	17.12	11.81	0.69	1608	16.81	11.60	0.69	1717	16.42	11.33	0.69	1796	15.94	11.00	0.69	1864	14.82	10.23	0.69	1957	14.68	10.13	0.69	1977	12.11	8.35	0.69	2052
	73	68	18.89	10.77	0.57	1468	18.70	10.66	0.57	1482	18.50	10.55	0.57	1495	18.26	10.41	0.57	1507	18.08	10.31	0.57	1514	17.89	10.20	0.57	1564	17.64	10.05	0.57	1632	17.33	9.88	0.57	1741	16.92	9.64	0.57	1820	16.43	9.36	0.57	1888	15.28	8.71	0.57	1981	15.13	8.62	0.57	2001	12.48	7.11	0.57	2076
	73	72	19.21	8.65	0.45	1485	19.02	8.56	0.45	1498	18.82	8.47	0.45	1511	18.57	8.36	0.45	1523	18.39	8.28	0.45	1531	18.19	8.19	0.45	1580	17.94	8.07	0.45	1648	17.62	7.93	0.45	1757	17.21	7.74	0.45	1836	16.71	7.52	0.45	1904	15.54	6.99	0.45	1998	15.38	6.92	0.45	2017	12.69	5.71	0.45	2093
	75	64	18.70	13.65	0.73	1459	18.52	13.52	0.73	1472	18.32	13.37	0.73	1486	18.08	13.20	0.73	1498	17.90	13.07	0.73	1505	17.71	12.93	0.73	1556	17.46	12.75	0.73	1624	17.16	12.52	0.73	1734	16.75	12.23	0.73	1814	16.27	11.87	0.73	1882	15.13	11.04	0.73	1977	14.98	10.93	0.73	1997	12.35	9.02	0.73	2073
	75	68	19.28	11.76	0.61	1483	19.09	11.64	0.61	1497	18.88	11.52	0.61	1510	18.64	11.37	0.61	1522	18.45	11.26	0.61	1530	18.25	11.13	0.61	1580	18.00	10.98	0.61	1648	17.68	10.79	0.61	1758	17.27	10.53	0.61	1839	16.76	10.23	0.61	1907	15.59	9.51	0.61	2001	15.43	9.41	0.61	2021	12.73	7.77	0.61	2097
	75	72	19.60	9.61	0.49	1500	19.41	9.51	0.49	1513	19.20	9.41	0.49	1527	18.95	9.29	0.49	1539	18.77	9.20	0.49	1546	18.56	9.10	0.49	1596	18.30	8.97	0.49	1665	17.98	8.81	0.49	1775	17.56	8.60	0.49	1855	17.05	8.35	0.49	1923	15.86	7.77	0.49	2018	15.70	7.69	0.49	2038	12.95	6.35	0.49	2114
	75	75	19.88	7.36	0.37	1519	19.68	7.28	0.37	1533	19.47	7.20	0.37	1546	19.22	7.11	0.37	1558	19.03	7.04	0.37	1566	18.82	6.96	0.37	1616	18.56	6.87	0.37	1684	18.23	6.75	0.37	1794	17.81	6.59	0.37	1874	17.29	6.40	0.37	1943	16.08	5.95	0.37	2037	15.92	5.89	0.37	2057	13.13	4.86	0.37	2133
	77	64	19.28	14.85	0.77	1474	19.09	14.70	0.77	1487	18.88	14.54	0.77	1501	18.64	14.35	0.77	1513	18.46	14.21	0.77	1521	18.26	14.06	0.77	1571	18.00	13.86	0.77	1641	17.69	13.62	0.77	1752	17.27	13.30	0.77	1833	16.77	12.91	0.77	1901	15.59	12.01	0.77	1997	15.44	11.89	0.77	2017	12.74	9.81	0.77	2094
	77	68	19.87	12.92	0.65	1498	19.68	12.79	0.65	1512	19.46	12.65	0.65	1525	19.21	12.49	0.65	1538	19.02	12.36	0.65	1545	18.82	12.23	0.65	1596	18.56	12.06	0.65	1665	18.23	11.85	0.65	1776	17.80	11.57	0.65	1857	17.28	11.23	0.65	1926	16.07	10.45	0.65	2021	15.91	10.34	0.65	2042	13.13	8.53	0.65	2119
	77	72	20.21	10.71	0.53	1515	20.01	10.61	0.53	1528	19.79	10.49	0.53	1542	19.54	10.36	0.53	1554	19.35	10.25	0.53	1562	19.14	10.14	0.53	1612	18.87	10.00	0.53	1682	18.54	9.82	0.53	1793	18.10	9.59	0.53	1874	17.58	9.32	0.53	1943	16.35	8.66	0.53	2038	16.18	8.56	0.53	2058	13.35	7.08	0.53	2135
	77	75	20.49	8.40	0.41	1535	20.29	8.32	0.41	1548	20.07	8.23	0.41	1562	19.81	8.12	0.41	1574	19.62	8.04	0.41	1581	19.40	7.96	0.41	1632	19.14	7.85	0.41	1701	18.80	7.71	0.41	1812	18.36	7.53	0.41	1893	17.82	7.31	0.41	1962	16.57	6.80	0.41	2058	16.41	6.73	0.41	2078	13.54	5.55	0.41	2155
	79	64	19.88	16.10	0.81	1489	19.68	15.94	0.81	1502	19.47	15.77	0.81	1516	19.22	15.57	0.81	1528	19.03	15.41	0.81	1536	18.82	15.25	0.81	1587	18.56	15.03	0.81	1657	18.23	14.77	0.81	1769	17.81	14.42	0.81	1851	17.29	14.00	0.81	1921	16.08	13.02	0.81	2017	15.92	12.89	0.81	2037	13.13	10.64	0.81	2115
	79	68	20.49	14.14	0.69	1513	20.29	14.00	0.69	1527	20.06	13.84	0.69	1541	19.81	13.67	0.69	1553	19.61	13.53	0.69	1561	19.40	13.38	0.69	1612	19.13	13.20	0.69	1682	18.79	12.97	0.69	1794	18.35	12.66	0.69	1876	17.82	12.29	0.69	1945	16.57	11.43	0.69	2042	16.40	11.32	0.69	2062	13.53	9.34	0.69	2140
	79	72	20.84	11.88	0.57	1530	20.63	11.76	0.57	1544	20.41	11.63	0.57	1558	20.14	11.48	0.57	1570	19.94	11.37	0.57	1578	19.73	11.24	0.57	1629	19.45	11.09	0.57	1699	19.11	10.89	0.57	1811	18.66	10.64	0.57	1893	18.12	10.33	0.57	1962	16.85	9.61	0.57	2059	16.68	9.51	0.57	2079	13.76	7.84	0.57	2157
	79	75	21.13	9.51	0.45	1550	20.92	9.41	0.45	1564	20.69	9.31	0.45	1577	20.43	9.19	0.45	1590	20.22	9.10	0.45	1597	20.00	9.00	0.45	1648	19.73	8.88	0.45	1719	19.38	8.72	0.45	1831	18.92	8.52	0.45	1912	18.37	8.27	0.45	1982	17.09	7.69	0.45	2079	16.92	7.61	0.45	2099	13.96	6.28	0.45	2177
	79	79	21.47	7.08	0.33	1573	21.25	7.01	0.33	1586	21.02	6.94	0.33	1600	20.75	6.85	0.33	1612	20.55	6.78	0.33	1620	20.32	6.71	0.33	1671	20.04	6.61	0.33	1741	19.69	6.50	0.33	1853	19.23	6.34	0.33	1935	18.67	6.16	0.33	2005	17.36	5.73	0.33	2101	17.19	5.67	0.33	2122	14.18	4.68	0.33	2199
	81	64	20.29	17.24	0.85	1504	20.08	17.07	0.85	1517	19.87	16.89	0.85	1531	19.61	16.67	0.85	1544	19.42	16.50	0.85	1552	19.21	16.32	0.85	1603	18.94	16.10	0.85	1674	18.61	15.81	0.85	1787	18.17	15.44	0.85	1870	17.64	14.99	0.85	1940	16.41	13.94	0.85	2038	16.24	13.80	0.85	2058	13.40	11.39	0.85	2137
	81	66	20.70	16.35	0.79	1514	20.49	16.19	0.79	1527	20.27	16.01	0.79	1541	20.01	15.81	0.79	1554	19.81	15.65	0.79	1562	19.60	15.48	0.79	1613	19.33	15.27	0.79	1684	18.98	15.00	0.79	1797	18.54	14.65	0.79	1880	18.00	14.22	0.79	1950	16.74	13.22	0.79	2048	16.57	13.09	0.79	2068	13.67	10.80	0.79	2147
	81	68	20.91	15.26	0.73	1529	20.70	15.11	0.73	1542	20.47	14.95	0.73	1556	20.21	14.75	0.73	1569	20.01	14.61	0.7																																	

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 18K(Cooling up to 2 indoor units series)

Cooling Operation PERFORMANCE DATA																		
OUTDOOR DB (°F)																		
COMBINATION (%)	IDDB (°F)	IDWB (°F)	115				120				122				126			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT
100%	70	64	11.16	6.81	0.61	2026	9.94	6.06	0.61	2066	9.54	5.82	0.61	2087	9.06	5.53	0.61	2129
	70	68	11.62	5.70	0.49	2049	10.35	5.07	0.49	2090	9.93	4.87	0.49	2111	9.44	4.62	0.49	2153
	72	64	11.51	7.48	0.65	2046	10.24	6.66	0.65	2087	9.83	6.39	0.65	2108	9.34	6.07	0.65	2151
	72	68	11.86	6.29	0.53	2070	10.56	5.60	0.53	2111	10.13	5.37	0.53	2132	9.63	5.10	0.53	2174
	72	72	12.06	4.95	0.41	2086	10.74	4.40	0.41	2127	10.31	4.23	0.41	2148	9.79	4.01	0.41	2191
	73	64	11.74	8.10	0.69	2067	10.45	7.21	0.69	2108	10.03	6.92	0.69	2130	9.53	6.58	0.69	2172
	73	68	12.10	6.90	0.57	2091	10.77	6.14	0.57	2132	10.34	5.89	0.57	2154	9.82	5.60	0.57	2196
	73	72	12.31	5.54	0.45	2107	10.96	4.93	0.45	2149	10.52	4.73	0.45	2170	9.99	4.50	0.45	2213
	75	64	11.98	8.75	0.73	2088	10.67	7.79	0.73	2130	10.24	7.47	0.73	2151	9.73	7.10	0.73	2194
	75	68	12.35	7.53	0.61	2112	10.99	6.71	0.61	2154	10.55	6.44	0.61	2175	10.03	6.12	0.61	2218
	75	72	12.56	6.15	0.49	2128	11.18	5.48	0.49	2170	10.73	5.26	0.49	2192	10.20	5.00	0.49	2235
	75	75	12.74	4.71	0.37	2148	11.34	4.19	0.37	2190	10.88	4.03	0.37	2211	10.34	3.83	0.37	2254
	77	64	12.35	9.51	0.77	2109	11.00	8.47	0.77	2151	10.56	8.13	0.77	2173	10.03	7.72	0.77	2216
	77	68	12.73	8.28	0.65	2133	11.33	7.37	0.65	2176	10.88	7.07	0.65	2197	10.34	6.72	0.65	2241
	77	72	12.95	6.86	0.53	2150	11.53	6.11	0.53	2192	11.06	5.86	0.53	2214	10.51	5.57	0.53	2258
	77	75	13.13	5.38	0.41	2170	11.69	4.79	0.41	2212	11.22	4.60	0.41	2234	10.66	4.37	0.41	2277
	79	64	12.74	10.32	0.81	2130	11.34	9.18	0.81	2173	10.88	8.81	0.81	2195	10.34	8.37	0.81	2239
	79	68	13.13	9.06	0.69	2155	11.68	8.06	0.69	2198	11.22	7.74	0.69	2219	10.65	7.35	0.69	2264
	79	72	13.35	7.61	0.57	2172	11.88	6.77	0.57	2214	11.41	6.50	0.57	2236	10.84	6.18	0.57	2280
	79	75	13.54	6.09	0.45	2191	12.05	5.42	0.45	2234	11.57	5.20	0.45	2256	10.99	4.94	0.45	2300
	79	79	13.75	4.54	0.33	2214	12.24	4.04	0.33	2257	11.75	3.88	0.33	2279	11.16	3.68	0.33	2323
	81	64	13.00	11.05	0.85	2152	11.57	9.83	0.85	2195	11.10	9.44	0.85	2217	10.55	8.97	0.85	2261
	81	66	13.26	10.48	0.79	2162	11.80	9.32	0.79	2205	11.33	8.95	0.79	2227	10.76	8.50	0.79	2271
	81	68	13.39	9.78	0.73	2177	11.92	8.70	0.73	2220	11.44	8.35	0.73	2242	10.87	7.94	0.73	2286
	81	72	13.62	8.31	0.61	2194	12.12	7.40	0.61	2237	11.64	7.10	0.61	2259	11.06	6.74	0.61	2303
	81	75	13.81	6.77	0.49	2214	12.29	6.02	0.49	2257	11.80	5.78	0.49	2279	11.21	5.49	0.49	2323
	81	79	14.03	5.19	0.37	2237	12.49	4.62	0.37	2280	11.99	4.44	0.37	2302	11.39	4.21	0.37	2346
	82	64	13.13	11.68	0.89	2173	11.68	10.40	0.89	2217	11.22	9.98	0.89	2239	10.65	9.48	0.89	2284
	82	68	13.39	10.31	0.77	2198	11.92	9.18	0.77	2242	11.44	8.81	0.77	2264	10.87	8.37	0.77	2309
	82	72	13.53	8.79	0.65	2216	12.04	7.83	0.65	2259	11.56	7.51	0.65	2281	10.98	7.14	0.65	2326
	82	75	13.76	7.29	0.53	2236	12.25	6.49	0.53	2279	11.76	6.23	0.53	2302	11.17	5.92	0.53	2347
	82	79	13.95	5.72	0.41	2259	12.42	5.09	0.41	2303	11.92	4.89	0.41	2325	11.32	4.64	0.41	2370
	84	64	13.26	12.06	0.91	2195	11.80	10.74	0.91	2239	11.33	10.31	0.91	2261	10.76	9.79	0.91	2307
	84	68	13.53	10.96	0.81	2220	12.04	9.75	0.81	2264	11.56	9.36	0.81	2287	10.98	8.89	0.81	2332
	84	72	13.80	9.52	0.69	2238	12.28	8.47	0.69	2282	11.79	8.14	0.69	2304	11.20	7.73	0.69	2350
	84	75	13.90	7.92	0.57	2258	12.37	7.05	0.57	2302	11.87	6.77	0.57	2325	11.28	6.43	0.57	2370
	84	79	14.09	6.34	0.45	2282	12.54	5.64	0.45	2326	12.04	5.42	0.45	2348	11.44	5.15	0.45	2394
	86	64	13.39	12.19	0.91	2217	11.92	10.85	0.91	2261	11.44	10.41	0.91	2284	10.87	9.89	0.91	2330
	86	68	13.66	11.61	0.85	2243	12.16	10.34	0.85	2287	11.67	9.92	0.85	2310	11.09	9.43	0.85	2356
	86	72	13.94	10.17	0.73	2260	12.40	9.06	0.73	2305	11.91	8.69	0.73	2327	11.31	8.26	0.73	2373
	86	75	14.04	8.56	0.61	2281	12.49	7.62	0.61	2325	11.99	7.31	0.61	2348	11.39	6.95	0.61	2394
	86	79	14.23	6.97	0.49	2304	12.67	6.21	0.49	2349	12.16	5.96	0.49	2372	11.55	5.66	0.49	2417
	88	64	13.52	12.31	0.91	2239	12.04	10.95	0.91	2284	11.56	10.52	0.91	2307	10.98	9.99	0.91	2353
	88	68	13.80	12.28	0.89	2265	12.28	10.93	0.89	2310	11.79	10.49	0.89	2333	11.20	9.97	0.89	2379
	88	72	14.08	10.84	0.77	2283	12.53	9.65	0.77	2328	12.03	9.26	0.77	2351	11.43	8.80	0.77	2397
	88	75	14.18	9.21	0.65	2303	12.62	8.20	0.65	2348	12.11	7.87	0.65	2371	11.51	7.48	0.65	2418
	88	79	14.37	7.62	0.53	2327	12.79	6.78	0.53	2372	12.28	6.51	0.53	2395	11.67	6.18	0.53	2442
	90	64	13.66	12.43	0.91	2261	12.16	11.06	0.91	2307	11.67	10.62	0.91	2330	11.09	10.09	0.91	2377
	90	68	13.94	12.68	0.91	2288	12.41	11.29	0.91	2333	11.91	10.84	0.91	2356	11.31	10.30	0.91	2403
	90	72	14.22	11.52	0.81	2305	12.65	10.25	0.81	2351	12.15	9.84	0.81	2374	11.54	9.35	0.81	2421
	90	75	14.32	9.88	0.69	2326	12.74	8.79	0.69	2372	12.23	8.44	0.69	2395	11.62	8.02	0.69	2442
	90	79	14.52	8.28	0.57	2351	12.92	7.36	0.57	2396	12.40	7.07	0.57	2419	11.78	6.72	0.57	2466

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 18K(Cooling up to 2 indoor units series)

	Cooling Operation PERFORMANCE DATA																																																					
	OUTDOOR DB (°F)																																																					
COMBINATION (%)	IDDB (°F)	ID WB (°F)	5				19				32				50				59				70				77				81				86				95				102				104				113			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT								
90%	70	64	17.08	10.42	0.61	1401	16.91	10.31	0.61	1414	16.72	10.20	0.61	1427	16.51	10.07	0.61	1439	16.35	9.97	0.61	1446	16.17	9.86	0.61	1494	15.94	9.73	0.61	1560	15.66	9.55	0.61	1666	15.30	9.33	0.61	1743	14.85	9.06	0.61	1808	13.81	8.42	0.61	1899	13.67	8.34	0.61	1918	11.28	6.88	0.61	1991
	70	68	17.78	8.71	0.49	1425	17.60	8.63	0.49	1438	17.41	8.53	0.49	1451	17.19	8.42	0.49	1462	17.02	8.34	0.49	1470	16.83	8.25	0.49	1518	16.60	8.13	0.49	1584	16.31	7.99	0.49	1689	15.93	7.80	0.49	1766	15.46	7.58	0.49	1832	14.38	7.05	0.49	1923	14.24	6.98	0.49	1942	11.74	5.75	0.49	2015
	72	64	17.60	11.44	0.65	1416	17.43	11.33	0.65	1429	17.24	11.21	0.65	1442	17.02	11.06	0.65	1453	16.85	10.95	0.65	1461	16.67	10.83	0.65	1509	16.44	10.68	0.65	1576	16.15	10.50	0.65	1682	15.77	10.25	0.65	1760	15.31	9.95	0.65	1826	14.24	9.25	0.65	1918	14.09	9.16	0.65	1937	11.63	7.56	0.65	2011
	72	68	18.14	9.62	0.53	1439	17.96	9.52	0.53	1452	17.77	9.42	0.53	1465	17.54	9.30	0.53	1477	17.37	9.20	0.53	1484	17.18	9.10	0.53	1533	16.94	8.98	0.53	1600	16.64	8.82	0.53	1706	16.25	8.61	0.53	1784	15.78	8.36	0.53	1850	14.67	7.78	0.53	1942	14.53	7.70	0.53	1961	11.98	6.35	0.53	2035
	72	72	18.45	7.57	0.41	1456	18.27	7.49	0.41	1468	18.07	7.41	0.41	1482	17.84	7.31	0.41	1493	17.66	7.24	0.41	1501	17.47	7.16	0.41	1549	17.23	7.06	0.41	1616	16.92	6.94	0.41	1722	16.53	6.78	0.41	1800	16.05	6.58	0.41	1866	14.92	6.12	0.41	1958	14.77	6.06	0.41	1977	12.19	5.00	0.41	2051
	73	64	17.96	12.40	0.69	1430	17.79	12.27	0.69	1443	17.59	12.14	0.69	1456	17.37	11.98	0.69	1468	17.19	11.86	0.69	1475	17.01	11.74	0.69	1524	16.77	11.57	0.69	1592	16.48	11.37	0.69	1699	16.09	11.10	0.69	1778	15.62	10.78	0.69	1845	14.53	10.02	0.69	1938	14.38	9.92	0.69	1957	11.87	8.19	0.69	2032
	73	68	18.51	10.55	0.57	1454	18.33	10.45	0.57	1467	18.13	10.33	0.57	1480	17.90	10.20	0.57	1492	17.72	10.10	0.57	1499	17.53	9.99	0.57	1548	17.29	9.85	0.57	1616	16.98	9.68	0.57	1723	16.58	9.45	0.57	1802	16.10	9.18	0.57	1869	14.97	8.53	0.57	1962	14.82	8.45	0.57	1981	12.23	6.97	0.57	2056
	73	72	18.83	8.47	0.45	1470	18.64	8.39	0.45	1483	18.44	8.30	0.45	1496	18.20	8.19	0.45	1508	18.02	8.11	0.45	1516	17.83	8.02	0.45	1565	17.58	7.91	0.45	1632	17.27	7.77	0.45	1740	16.86	7.59	0.45	1818	16.37	7.37	0.45	1885	15.23	6.85	0.45	1978	15.07	6.78	0.45	1997	12.44	5.60	0.45	2072
	75	64	18.33	13.38	0.73	1444	18.15	13.25	0.73	1458	17.95	13.10	0.73	1471	17.72	12.94	0.73	1483	17.55	12.81	0.73	1490	17.35	12.67	0.73	1540	17.12	12.49	0.73	1608	16.81	12.27	0.73	1717	16.42	11.99	0.73	1796	15.94	11.64	0.73	1863	14.82	10.82	0.73	1957	14.68	10.71	0.73	1977	12.11	8.84	0.73	2052
	75	68	18.89	11.52	0.61	1469	18.70	11.41	0.61	1482	18.50	11.29	0.61	1495	18.26	11.14	0.61	1507	18.08	11.03	0.61	1515	17.89	10.91	0.61	1564	17.64	10.76	0.61	1632	17.33	10.57	0.61	1741	16.92	10.32	0.61	1820	16.43	10.02	0.61	1888	15.28	9.32	0.61	1981	15.13	9.23	0.61	2001	12.48	7.61	0.61	2077
	75	72	19.21	9.41	0.49	1485	19.02	9.32	0.49	1498	18.82	9.22	0.49	1512	18.57	9.10	0.49	1524	18.39	9.01	0.49	1531	18.19	8.91	0.49	1581	17.94	8.79	0.49	1649	17.62	8.63	0.49	1757	17.21	8.43	0.49	1837	16.71	8.19	0.49	1904	15.54	7.61	0.49	1998	15.38	7.54	0.49	2018	12.69	6.22	0.49	2093
	75	75	19.48	7.21	0.37	1504	19.29	7.14	0.37	1518	19.08	7.06	0.37	1531	18.83	6.97	0.37	1543	18.65	6.90	0.37	1550	18.44	6.82	0.37	1600	18.19	6.73	0.37	1668	17.87	6.61	0.37	1777	17.45	6.46	0.37	1856	16.94	6.27	0.37	1924	15.76	5.83	0.37	2017	15.60	5.77	0.37	2037	12.87	4.76	0.37	2112
	77	64	18.90	14.55	0.77	1459	18.71	14.41	0.77	1472	18.51	14.25	0.77	1486	18.27	14.07	0.77	1498	18.09	13.93	0.77	1505	17.89	13.78	0.77	1555	17.64	13.59	0.77	1624	17.33	13.35	0.77	1734	16.93	13.03	0.77	1814	16.43	12.65	0.77	1882	15.28	11.77	0.77	1977	15.13	11.65	0.77	1997	12.48	9.61	0.77	2073
	77	68	19.48	12.66	0.65	1483	19.28	12.53	0.65	1497	19.07	12.40	0.65	1510	18.83	12.24	0.65	1522	18.64	12.12	0.65	1530	18.44	11.99	0.65	1580	18.18	11.82	0.65	1649	17.86	11.61	0.65	1758	17.44	11.34	0.65	1839	16.94	11.01	0.65	1907	15.75	10.24	0.65	2001	15.59	10.14	0.65	2021	12.86	8.36	0.65	2098
	77	72	19.81	10.50	0.53	1500	19.61	10.39	0.53	1513	19.40	10.28	0.53	1527	19.15	10.15	0.53	1539	18.96	10.05	0.53	1547	18.75	9.94	0.53	1597	18.49	9.80	0.53	1665	18.17	9.63	0.53	1775	17.74	9.40	0.53	1855	17.22	9.13	0.53	1923	16.02	8.49	0.53	2018	15.86	8.40	0.53	2038	13.08	6.93	0.53	2114
	77	75	20.08	8.23	0.41	1520	19.89	8.15	0.41	1533	19.67	8.06	0.41	1546	19.42	7.96	0.41	1559	19.22	7.88	0.41	1566	19.02	7.80	0.41	1616	18.75	7.69	0.41	1685	18.42	7.55	0.41	1795	17.99	7.38	0.41	1875	17.47	7.16	0.41	1943	16.24	6.66	0.41	2038	16.08	6.59	0.41	2058	13.27	5.44	0.41	2134
	79	64	19.48	15.78	0.81	1474	19.29	15.62	0.81	1487	19.08	15.45	0.81	1501	18.83	15.26	0.81	1513	18.65	15.10	0.81	1521	18.44	14.94	0.81	1571	18.19	14.73	0.81	1640	17.87	14.47	0.81	1751	17.45	14.13	0.81	1832	16.94	13.72	0.81	1901	15.76	12.76	0.81	1997	15.60	12.63	0.81	2017	12.87	10.42	0.81	2094
	79	68	20.08	13.85	0.69	1498	19.88	13.72	0.69	1512	19.66	13.57	0.69	1525	19.41	13.39	0.69	1538	19.22	13.26	0.69	1545	19.01	13.12	0.69	1596	18.75	12.94	0.69	1665	18.42	12.71	0.69	1776	17.98	12.41	0.69	1857	17.46	12.05	0.69	1926	16.24	11.20	0.69	2022	16.08	11.09	0.69	2042	13.26	9.15	0.69	2119
	79	72	20.42	11.64	0.57	1515	20.22	11.52	0.																																													

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 18K(Cooling up to 2 indoor units series)

	Cooling Operation PERFORMANCE DATA																	
	OUTDOOR DB (°F)																	
COMBINATION (%)	IDDB (°F)	IDWB (°F)	115				120				122				126			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT
90%	70	64	10.94	6.67	0.61	2005	9.74	5.94	0.61	2046	9.35	5.70	0.61	2066	8.88	5.42	0.61	2108
	70	68	11.39	5.58	0.49	2029	10.14	4.97	0.49	2069	9.73	4.77	0.49	2090	9.25	4.53	0.49	2131
	72	64	11.28	7.33	0.65	2026	10.04	6.53	0.65	2066	9.64	6.26	0.65	2087	9.16	5.95	0.65	2129
	72	68	11.62	6.16	0.53	2049	10.35	5.48	0.53	2090	9.93	5.26	0.53	2111	9.44	5.00	0.53	2153
	72	72	11.82	4.85	0.41	2066	10.52	4.31	0.41	2106	10.10	4.14	0.41	2127	9.60	3.93	0.41	2169
	73	64	11.51	7.94	0.69	2046	10.24	7.07	0.69	2087	9.83	6.79	0.69	2108	9.34	6.45	0.69	2150
	73	68	11.86	6.76	0.57	2070	10.56	6.02	0.57	2111	10.13	5.78	0.57	2132	9.63	5.49	0.57	2174
	73	72	12.06	5.43	0.45	2086	10.74	4.83	0.45	2127	10.31	4.64	0.45	2148	9.79	4.41	0.45	2191
	75	64	11.74	8.57	0.73	2067	10.45	7.63	0.73	2108	10.03	7.33	0.73	2129	9.53	6.96	0.73	2172
	75	68	12.10	7.38	0.61	2091	10.77	6.57	0.61	2132	10.34	6.31	0.61	2154	9.82	5.99	0.61	2196
	75	72	12.31	6.03	0.49	2107	10.96	5.37	0.49	2149	10.52	5.15	0.49	2170	9.99	4.90	0.49	2213
	75	75	12.48	4.62	0.37	2127	11.11	4.11	0.37	2168	10.66	3.95	0.37	2190	10.13	3.75	0.37	2232
	77	64	12.11	9.32	0.77	2088	10.78	8.30	0.77	2130	10.34	7.97	0.77	2151	9.83	7.57	0.77	2194
	77	68	12.48	8.11	0.65	2112	11.11	7.22	0.65	2154	10.66	6.93	0.65	2175	10.13	6.58	0.65	2219
	77	72	12.69	6.73	0.53	2129	11.29	5.99	0.53	2171	10.84	5.75	0.53	2192	10.30	5.46	0.53	2235
	77	75	12.87	5.28	0.41	2148	11.45	4.70	0.41	2190	10.99	4.51	0.41	2212	10.44	4.28	0.41	2255
	79	64	12.48	10.11	0.81	2109	11.11	9.00	0.81	2151	10.66	8.64	0.81	2173	10.13	8.21	0.81	2216
	79	68	12.86	8.88	0.69	2133	11.45	7.90	0.69	2176	10.99	7.58	0.69	2197	10.44	7.20	0.69	2241
	79	72	13.08	7.46	0.57	2150	11.64	6.64	0.57	2193	11.18	6.37	0.57	2214	10.62	6.05	0.57	2258
	79	75	13.27	5.97	0.45	2170	11.81	5.31	0.45	2212	11.33	5.10	0.45	2234	10.77	4.85	0.45	2278
	79	79	13.48	4.45	0.33	2193	12.00	3.96	0.33	2235	11.52	3.80	0.33	2257	10.94	3.61	0.33	2300
	81	64	12.74	10.83	0.85	2130	11.34	9.64	0.85	2173	10.88	9.25	0.85	2195	10.34	8.79	0.85	2239
	81	66	13.00	10.27	0.79	2140	11.57	9.14	0.79	2183	11.10	8.77	0.79	2205	10.55	8.33	0.79	2249
	81	68	13.13	9.58	0.73	2155	11.68	8.53	0.73	2198	11.22	8.19	0.73	2220	10.65	7.78	0.73	2264
	81	72	13.35	8.14	0.61	2172	11.88	7.25	0.61	2215	11.41	6.96	0.61	2237	10.84	6.61	0.61	2281
	81	75	13.54	6.63	0.49	2192	12.05	5.90	0.49	2235	11.57	5.67	0.49	2257	10.99	5.38	0.49	2301
	81	79	13.75	5.09	0.37	2215	12.24	4.53	0.37	2258	11.75	4.35	0.37	2280	11.16	4.13	0.37	2324
	82	64	12.86	11.45	0.89	2151	11.45	10.19	0.89	2194	10.99	9.78	0.89	2217	10.44	9.29	0.89	2261
	82	68	13.13	10.11	0.77	2177	11.68	9.00	0.77	2220	11.22	8.64	0.77	2242	10.65	8.20	0.77	2286
	82	72	13.26	8.62	0.65	2194	11.80	7.67	0.65	2237	11.33	7.36	0.65	2259	10.76	6.99	0.65	2303
	82	75	13.48	7.15	0.53	2214	12.00	6.36	0.53	2257	11.52	6.11	0.53	2279	10.94	5.80	0.53	2324
	82	79	13.67	5.61	0.41	2237	12.17	4.99	0.41	2280	11.68	4.79	0.41	2302	11.10	4.55	0.41	2347
	84	64	12.99	11.82	0.91	2173	11.56	10.52	0.91	2216	11.10	10.10	0.91	2239	10.55	9.60	0.91	2284
	84	68	13.26	10.74	0.81	2198	11.80	9.56	0.81	2242	11.33	9.18	0.81	2264	10.76	8.72	0.81	2309
	84	72	13.52	9.33	0.69	2216	12.04	8.30	0.69	2259	11.55	7.97	0.69	2282	10.98	7.57	0.69	2327
	84	75	13.62	7.76	0.57	2236	12.12	6.91	0.57	2280	11.64	6.63	0.57	2302	11.05	6.30	0.57	2347
	84	79	13.81	6.21	0.45	2259	12.29	5.53	0.45	2303	11.80	5.31	0.45	2325	11.21	5.04	0.45	2370
	86	64	13.12	11.94	0.91	2195	11.68	10.63	0.91	2239	11.21	10.20	0.91	2261	10.65	9.69	0.91	2307
	86	68	13.39	11.38	0.85	2220	11.92	10.13	0.85	2264	11.44	9.72	0.85	2287	10.87	9.24	0.85	2332
	86	72	13.66	9.97	0.73	2238	12.16	8.87	0.73	2282	11.67	8.52	0.73	2304	11.09	8.09	0.73	2350
	86	75	13.75	8.39	0.61	2258	12.24	7.47	0.61	2302	11.75	7.17	0.61	2325	11.16	6.81	0.61	2370
	86	79	13.95	6.83	0.49	2282	12.41	6.08	0.49	2326	11.92	5.84	0.49	2349	11.32	5.55	0.49	2394
	88	64	13.25	12.06	0.91	2216	11.80	10.73	0.91	2261	11.32	10.31	0.91	2284	10.76	9.79	0.91	2330
	88	68	13.52	12.04	0.89	2242	12.04	10.71	0.89	2287	11.56	10.28	0.89	2310	10.98	9.77	0.89	2356
	88	72	13.80	10.62	0.77	2260	12.28	9.45	0.77	2305	11.79	9.08	0.77	2327	11.20	8.62	0.77	2373
	88	75	13.89	9.03	0.65	2281	12.36	8.04	0.65	2326	11.87	7.72	0.65	2348	11.28	7.33	0.65	2394
	88	79	14.09	7.47	0.53	2305	12.54	6.64	0.53	2349	12.04	6.38	0.53	2372	11.43	6.06	0.53	2418
	90	64	13.39	12.18	0.91	2239	11.91	10.84	0.91	2284	11.44	10.41	0.91	2307	10.87	9.89	0.91	2353
	90	68	13.66	12.43	0.91	2265	12.16	11.06	0.91	2310	11.67	10.62	0.91	2333	11.09	10.09	0.91	2379
	90	72	13.93	11.29	0.81	2283	12.40	10.04	0.81	2328	11.90	9.64	0.81	2351	11.31	9.16	0.81	2397
	90	75	14.03	9.68	0.69	2304	12.49	8.62	0.69	2349	11.99	8.27	0.69	2372	11.39	7.86	0.69	2418

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 18K(Cooling up to 2 indoor units series)

Cooling Operation PERFORMANCE DATA																		
COMBINATION (%)	OUTDOOR DB (°F)																	
	IDDB (°F)	IDWB (°F)	115				120				122				126			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT
80%	70	64	10.61	6.47	0.61	1985	9.44	5.76	0.61	2025	9.06	5.53	0.61	2045	8.61	5.25	0.61	2086
	70	68	11.04	5.41	0.49	2009	9.83	4.82	0.49	2048	9.44	4.62	0.49	2069	8.96	4.39	0.49	2110
	72	64	10.93	7.11	0.65	2005	9.73	6.33	0.65	2045	9.34	6.07	0.65	2066	8.88	5.77	0.65	2107
	72	68	11.27	5.97	0.53	2029	10.03	5.32	0.53	2069	9.63	5.10	0.53	2090	9.15	4.85	0.53	2131
	72	72	11.46	4.70	0.41	2045	10.20	4.18	0.41	2085	9.79	4.01	0.41	2106	9.30	3.81	0.41	2147
	73	64	11.16	7.70	0.69	2025	9.93	6.85	0.69	2066	9.53	6.58	0.69	2087	9.06	6.25	0.69	2129
	73	68	11.50	6.55	0.57	2049	10.23	5.83	0.57	2090	9.82	5.60	0.57	2111	9.33	5.32	0.57	2153
	73	72	11.69	5.26	0.45	2066	10.41	4.68	0.45	2106	9.99	4.50	0.45	2127	9.49	4.27	0.45	2169
	75	64	11.39	8.31	0.73	2046	10.13	7.40	0.73	2087	9.73	7.10	0.73	2108	9.24	6.75	0.73	2150
	75	68	11.73	7.16	0.61	2070	10.44	6.37	0.61	2111	10.03	6.12	0.61	2132	9.52	5.81	0.61	2174
	75	72	11.93	5.85	0.49	2086	10.62	5.20	0.49	2128	10.20	5.00	0.49	2149	9.69	4.75	0.49	2191
	75	75	12.10	4.48	0.37	2106	10.77	3.98	0.37	2147	10.34	3.83	0.37	2168	9.82	3.63	0.37	2210
	77	64	11.74	9.04	0.77	2066	10.45	8.04	0.77	2108	10.03	7.72	0.77	2129	9.53	7.34	0.77	2172
	77	68	12.10	7.86	0.65	2091	10.77	7.00	0.65	2132	10.34	6.72	0.65	2154	9.82	6.38	0.65	2196
	77	72	12.30	6.52	0.53	2108	10.95	5.80	0.53	2149	10.51	5.57	0.53	2170	9.99	5.29	0.53	2213
	77	75	12.47	5.11	0.41	2127	11.10	4.55	0.41	2169	10.66	4.37	0.41	2190	10.13	4.15	0.41	2233
	79	64	12.10	9.80	0.81	2087	10.77	8.72	0.81	2129	10.34	8.37	0.81	2151	9.82	7.96	0.81	2194
	79	68	12.47	8.60	0.69	2112	11.10	7.66	0.69	2154	10.65	7.35	0.69	2175	10.12	6.98	0.69	2219
	79	72	12.68	7.23	0.57	2129	11.29	6.43	0.57	2171	10.84	6.18	0.57	2192	10.29	5.87	0.57	2235
	79	75	12.86	5.79	0.45	2149	11.45	5.15	0.45	2191	10.99	4.94	0.45	2212	10.44	4.70	0.45	2255
	79	79	13.07	4.31	0.33	2171	11.63	3.84	0.33	2213	11.16	3.68	0.33	2235	10.61	3.50	0.33	2278
	81	64	12.35	10.50	0.85	2108	10.99	9.34	0.85	2151	10.55	8.97	0.85	2172	10.02	8.52	0.85	2216
	81	66	12.60	9.95	0.79	2118	11.21	8.86	0.79	2161	10.76	8.50	0.79	2182	10.23	8.08	0.79	2226
	81	68	12.73	9.29	0.73	2133	11.33	8.27	0.73	2176	10.87	7.94	0.73	2197	10.33	7.54	0.73	2241
	81	72	12.94	7.89	0.61	2150	11.52	7.03	0.61	2193	11.06	6.74	0.61	2214	10.50	6.41	0.61	2258
	81	75	13.12	6.43	0.49	2170	11.68	5.72	0.49	2213	11.21	5.49	0.49	2234	10.65	5.22	0.49	2278
	81	79	13.33	4.93	0.37	2193	11.87	4.39	0.37	2236	11.39	4.21	0.37	2257	10.82	4.00	0.37	2301
	82	64	12.47	11.10	0.89	2129	11.10	9.88	0.89	2172	10.65	9.48	0.89	2194	10.12	9.01	0.89	2238
	82	68	12.73	9.80	0.77	2155	11.33	8.72	0.77	2197	10.87	8.37	0.77	2219	10.33	7.95	0.77	2263
	82	72	12.85	8.35	0.65	2172	11.44	7.44	0.65	2215	10.98	7.14	0.65	2236	10.43	6.78	0.65	2281
	82	75	13.07	6.93	0.53	2192	11.63	6.17	0.53	2235	11.17	5.92	0.53	2257	10.61	5.62	0.53	2301
	82	79	13.25	5.43	0.41	2215	11.80	4.84	0.41	2258	11.32	4.64	0.41	2280	10.76	4.41	0.41	2324
	84	64	12.60	11.46	0.91	2151	11.21	10.20	0.91	2194	10.76	9.79	0.91	2216	10.22	9.30	0.91	2261
	84	68	12.85	10.41	0.81	2176	11.44	9.27	0.81	2219	10.98	8.89	0.81	2241	10.43	8.45	0.81	2286
	84	72	13.11	9.05	0.69	2194	11.67	8.05	0.69	2237	11.20	7.73	0.69	2259	10.64	7.34	0.69	2303
	84	75	13.20	7.52	0.57	2214	11.75	6.70	0.57	2257	11.28	6.43	0.57	2279	10.72	6.11	0.57	2324
	84	79	13.39	6.02	0.45	2237	11.91	5.36	0.45	2281	11.44	5.15	0.45	2303	10.87	4.89	0.45	2347
	86	64	12.72	11.58	0.91	2172	11.32	10.30	0.91	2216	10.87	9.89	0.91	2238	10.33	9.40	0.91	2283
	86	68	12.98	11.03	0.85	2198	11.55	9.82	0.85	2242	11.09	9.43	0.85	2264	10.54	8.96	0.85	2309
	86	72	13.24	9.67	0.73	2216	11.78	8.60	0.73	2259	11.31	8.26	0.73	2281	10.75	7.85	0.73	2326
	86	75	13.33	8.13	0.61	2236	11.87	7.24	0.61	2280	11.39	6.95	0.61	2302	10.82	6.60	0.61	2347
	86	79	13.52	6.62	0.49	2260	12.03	5.90	0.49	2303	11.55	5.66	0.49	2326	10.97	5.38	0.49	2371
	88	64	12.85	11.69	0.91	2194	11.44	10.41	0.91	2238	10.98	9.99	0.91	2261	10.43	9.49	0.91	2306
	88	68	13.11	11.67	0.89	2220	11.67	10.38	0.89	2264	11.20	9.97	0.89	2287	10.64	9.47	0.89	2332
	88	72	13.37	10.30	0.77	2238	11.90	9.16	0.77	2282	11.43	8.80	0.77	2304	10.85	8.36	0.77	2350
	88	75	13.47	8.75	0.65	2258	11.99	7.79	0.65	2303	11.51	7.48	0.65	2325	10.93	7.11	0.65	2370
	88	79	13.66	7.24	0.53	2282	12.15	6.44	0.53	2326	11.67	6.18	0.53	2349	11.08	5.87	0.53	2394
	90	64	12.98	11.81	0.91	2216	11.55	10.51	0.91	2260	11.09	10.09	0.91	2283	10.53	9.59	0.91	2329
	90	68	13.24	12.05	0.91	2242	11.79	10.72	0.91	2287	11.31	10.30	0.91	2309	10.75	9.78	0.91	2355
	90	72	13.51	10.94	0.81	2260	12.02	9.74	0.81	2305	11.54	9.35	0.81	2327	10.96	8.88	0.81	2373
	90	75	13.60	9.39	0.69	2281	12.11	8.35	0.69	2326	11.62	8.02	0.69	2348	11.04	7.62	0.69	2394

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 18K(Heating up to 2 indoor units series)

18K(Up to 2 indoor units series)

HEATING PERFORMANCE DATA

COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		-13		-5		0		5		14		17		23		32	
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
130%	59	15.00	2343	17.25	2566	19.17	2701	20.84	2756	14.54	2436	16.16	2460	17.01	2485	18.69	2536
	61	14.82	2362	17.05	2587	18.94	2723	20.59	2779	14.37	2455	15.97	2480	16.81	2505	18.47	2556
	63	14.65	2381	16.85	2608	18.72	2745	20.35	2801	14.20	2475	15.78	2500	16.61	2525	18.25	2577
	64	14.47	2400	16.65	2629	18.50	2767	20.10	2824	14.03	2495	15.59	2520	16.41	2546	18.03	2598
	66	14.30	2419	16.45	2650	18.28	2789	19.87	2846	13.86	2515	15.41	2540	16.22	2566	17.82	2619
	68	14.16	2439	16.29	2671	18.10	2812	19.67	2869	13.73	2535	15.25	2561	16.06	2587	17.64	2640
	70	13.99	2466	16.09	2701	17.88	2843	19.43	2901	13.56	2563	15.07	2589	15.86	2615	17.43	2669
	72	13.82	2493	15.90	2730	17.66	2874	19.20	2933	13.40	2591	14.89	2618	15.67	2644	17.22	2698
	73	13.66	2520	15.71	2760	17.45	2906	18.97	2965	13.24	2620	14.71	2646	15.48	2673	17.02	2728
	75	13.49	2548	15.52	2791	17.24	2938	18.74	2998	13.08	2649	14.53	2676	15.30	2703	16.81	2758
	77	13.33	2576	15.33	2821	17.04	2970	18.52	3031	12.92	2678	14.36	2705	15.11	2732	16.61	2788
	79	13.17	2604	15.15	2852	16.83	3003	18.29	3064	12.77	2707	14.19	2735	14.93	2762	16.41	2819
	81	13.01	2633	14.97	2884	16.63	3036	18.08	3098	12.61	2737	14.02	2765	14.75	2793	16.21	2850
	82	12.86	2662	14.79	2916	16.43	3069	17.86	3132	12.46	2767	13.85	2795	14.58	2823	16.02	2881
	84	12.70	2691	14.61	2948	16.23	3103	17.64	3166	12.31	2798	13.68	2826	14.40	2854	15.83	2913
	86	12.55	2721	14.43	2980	16.04	3137	17.43	3201	12.17	2828	13.52	2857	14.23	2886	15.64	2945
COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		41		47		50		59		68		75					
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT				
130%	59	20.32	2669	20.84	2702	21.94	2803	23.04	2887	23.73	2944	24.44	3003				
	61	20.07	2691	20.59	2724	21.68	2825	22.76	2910	23.45	2968	24.15	3028				
	63	19.84	2712	20.35	2746	21.42	2848	22.49	2933	23.17	2992	23.86	3052				
	64	19.60	2734	20.10	2768	21.17	2871	22.23	2957	22.90	3016	23.58	3077				
	66	19.37	2756	19.87	2790	20.92	2894	21.96	2981	22.62	3041	23.30	3101				
	68	19.18	2779	19.67	2813	20.71	2917	21.75	3005	22.40	3065	23.07	3126				
	70	18.95	2809	19.43	2844	20.46	2950	21.49	3038	22.13	3099	22.79	3161				
	72	18.72	2840	19.20	2875	20.22	2982	21.23	3071	21.87	3133	22.52	3196				
	73	18.50	2871	18.97	2907	19.97	3015	20.97	3105	21.60	3167	22.25	3231				
	75	18.27	2903	18.74	2939	19.74	3048	20.72	3139	21.34	3202	21.98	3266				
	77	18.05	2935	18.52	2971	19.50	3082	20.47	3174	21.09	3237	21.72	3302				
	79	17.84	2967	18.29	3004	19.26	3115	20.23	3209	20.83	3273	21.46	3339				
	81	17.62	3000	18.08	3037	19.03	3150	19.98	3244	20.58	3309	21.20	3375				
	82	17.41	3033	17.86	3070	18.80	3184	19.75	3280	20.34	3345	20.95	3412				
	84	17.20	3066	17.64	3104	18.58	3219	19.51	3316	20.09	3382	20.70	3450				
	86	17.00	3100	17.43	3138	18.36	3255	19.27	3352	19.85	3419	20.45	3488				
COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		-13		-5		0		5		14		17		23		32	
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
120%	59	14.57	2231	16.75	2444	18.61	2573	20.23	2625	14.12	2320	15.69	2343	16.51	2367	18.15	2415
	61	14.39	2249	16.55	2464	18.39	2593	19.99	2646	13.95	2338	15.50	2362	16.32	2386	17.93	2434
	63	14.22	2267	16.36	2483	18.17	2614	19.75	2668	13.79	2357	15.32	2381	16.12	2405	17.72	2454
	64	14.05	2286	16.16	2504	17.96	2635	19.52	2689	13.62	2376	15.14	2400	15.93	2424	17.51	2474
	66	13.89	2304	15.97	2524	17.74	2657	19.29	2711	13.46	2395	14.96	2419	15.74	2444	17.30	2494
	68	13.75	2323	15.81	2544	17.57	2678	19.10	2733	13.33	2415	14.81	2439	15.59	2464	17.13	2514
	70	13.58	2348	15.62	2572	17.36	2707	18.87	2763	13.17	2441	14.63	2466	15.40	2491	16.92	2542
	72	13.42	2374	15.43	2600	17.15	2737	18.64	2793	13.01	2468	14.46	2493	15.22	2518	16.72	2570
	73	13.26	2400	15.25	2629	16.94	2767	18.42	2824	12.85	2495	14.28	2520	15.03	2546	16.52	2598
	75	13.10	2427	15.07	2658	16.74	2798	18.20	2855	12.70	2523	14.11	2548	14.85	2574	16.32	2626
	77	12.94	2453	14.89	2687	16.54	2829	17.98	2886	12.55	2550	13.94	2576	14.67	2602	16.13	2655
	79	12.79	2480	14.71	2717	16.34	2860	17.76	2918	12.40	2578	13.77	2604	14.50	2631	15.93	2684
	81	12.64	2508	14.53	2747	16.14	2891	17.55	2950	12.25	2607	13.61	2633	14.32	2660	15.74	2714
	82	12.48	2535	14.36	2777	15.95	2923	17.34	2983	12.10	2635	13.44	2662	14.15	2689	15.55	2744
	84	12.33	2563	14.18	2807	15.76	2955	17.13	3015	11.96	2664	13.28	2691	13.98	2719	15.37	2774
	86	12.19	2591	14.01	2838	15.57	2988	16.92	3049	11.81	2694	13.12	2721	13.81	2748	15.18	2805

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 18K(Heating up to 2 indoor units series)

COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		41		47		50		59		68		75					
		Q	INPUT	Q	INPUT	Q	INPUT	Q	Q	INPUT	Q	INPUT	Q				
120%	59	19.72	2542	20.23	2574	21.30	2669	22.37	2749	23.04	2804	23.73	2860				
	61	19.49	2563	19.99	2594	21.05	2691	22.10	2771	22.76	2827	23.45	2883				
	63	19.26	2583	19.75	2615	20.80	2712	21.84	2794	22.49	2850	23.17	2907				
	64	19.03	2604	19.52	2636	20.55	2734	21.58	2816	22.23	2873	22.90	2930				
	66	18.80	2625	19.29	2658	20.31	2756	21.32	2839	21.96	2896	22.62	2954				
	68	18.62	2646	19.10	2679	20.11	2779	21.11	2862	21.75	2919	22.40	2978				
	70	18.40	2675	18.87	2708	19.87	2809	20.86	2893	21.49	2951	22.13	3010				
	72	18.17	2705	18.64	2738	19.63	2840	20.61	2925	21.23	2984	21.87	3043				
	73	17.96	2735	18.42	2768	19.39	2871	20.36	2957	20.97	3017	21.60	3077				
	75	17.74	2765	18.20	2799	19.16	2903	20.12	2990	20.72	3050	21.34	3111				
	77	17.53	2795	17.98	2830	18.93	2935	19.88	3023	20.47	3083	21.09	3145				
	79	17.32	2826	17.76	2861	18.70	2967	19.64	3056	20.23	3117	20.83	3180				
	81	17.11	2857	17.55	2892	18.48	3000	19.40	3090	19.98	3151	20.58	3215				
	82	16.90	2888	17.34	2924	18.26	3033	19.17	3124	19.75	3186	20.34	3250				
	84	16.70	2920	17.13	2956	18.04	3066	18.94	3158	19.51	3221	20.09	3286				
	86	16.50	2952	16.92	2989	17.82	3100	18.71	3193	19.27	3257	19.85	3322				
COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		-13		-5		0		5		14		17		23		32	
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
110%	59	14.14	2188	15.91	2323	17.68	2445	19.64	2574	13.71	2274	15.23	2297	16.03	2320	17.62	2368
	61	13.97	2205	15.72	2341	17.47	2465	19.41	2594	13.54	2292	15.05	2316	15.84	2339	17.41	2387
	63	13.81	2223	15.53	2360	17.26	2484	19.18	2615	13.38	2311	14.87	2334	15.65	2358	17.20	2406
	64	13.64	2241	15.35	2379	17.06	2505	18.95	2636	13.23	2330	14.69	2353	15.47	2377	17.00	2425
	66	13.48	2259	15.17	2398	16.85	2525	18.73	2658	13.07	2348	14.52	2372	15.28	2396	16.80	2445
	68	13.35	2277	15.02	2418	16.69	2545	18.54	2679	12.94	2367	14.38	2391	15.13	2415	16.63	2465
	70	13.19	2302	14.84	2444	16.49	2573	18.32	2708	12.78	2393	14.20	2417	14.95	2442	16.43	2492
	72	13.03	2328	14.66	2471	16.29	2601	18.10	2738	12.63	2420	14.03	2444	14.77	2469	16.23	2519
	73	12.87	2353	14.48	2498	16.09	2630	17.88	2768	12.48	2446	13.87	2471	14.60	2496	16.04	2547
	75	12.72	2379	14.31	2526	15.90	2659	17.67	2799	12.33	2473	13.70	2498	14.42	2523	15.85	2575
	77	12.57	2405	14.14	2554	15.71	2688	17.45	2830	12.18	2500	13.53	2526	14.25	2551	15.66	2603
	79	12.42	2432	13.97	2582	15.52	2718	17.24	2861	12.04	2528	13.37	2553	14.08	2579	15.47	2632
	81	12.27	2458	13.80	2610	15.33	2748	17.04	2892	11.89	2556	13.21	2581	13.91	2608	15.28	2661
	82	12.12	2485	13.63	2639	15.15	2778	16.83	2924	11.75	2584	13.05	2610	13.74	2636	15.10	2690
	84	11.97	2513	13.47	2668	14.97	2808	16.63	2956	11.61	2612	12.90	2639	13.58	2665	14.92	2720
	86	11.83	2540	13.31	2697	14.79	2839	16.43	2989	11.47	2641	12.74	2668	13.41	2695	14.74	2750
COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		41		47		50		59		68		75					
		Q	INPUT	Q	INPUT	Q	INPUT	Q	Q	INPUT	Q	INPUT	Q				
110%	59	19.15	2492	19.64	2523	20.68	2617	21.72	2695	22.37	2749	23.04	2804				
	61	18.92	2512	19.41	2543	20.44	2638	21.46	2717	22.10	2771	22.76	2827				
	63	18.70	2533	19.18	2564	20.19	2659	21.20	2739	21.84	2794	22.49	2850				
	64	18.48	2553	18.95	2585	19.95	2681	20.95	2761	21.58	2816	22.23	2873				
	66	18.26	2574	18.73	2605	19.72	2702	20.70	2783	21.32	2839	21.96	2896				
	68	18.08	2594	18.54	2627	19.52	2724	20.50	2806	21.11	2862	21.75	2919				
	70	17.86	2623	18.32	2655	19.29	2754	20.25	2837	20.86	2893	21.49	2951				
	72	17.65	2652	18.10	2685	19.06	2784	20.01	2868	20.61	2925	21.23	2984				
	73	17.43	2681	17.88	2714	18.83	2815	19.77	2899	20.36	2957	20.97	3017				
	75	17.22	2710	17.67	2744	18.60	2846	19.53	2931	20.12	2990	20.72	3050				
	77	17.02	2740	17.45	2774	18.38	2877	19.30	2964	19.88	3023	20.47	3083				
	79	16.81	2770	17.24	2805	18.16	2909	19.07	2996	19.64	3056	20.23	3117				
	81	16.61	2801	17.04	2836	17.94	2941	18.84	3029	19.40	3090	19.98	3151				
	82	16.41	2832	16.83	2867	17.73	2973	18.61	3062	19.17	3124	19.75	3186				
	84	16.22	2863	16.63	2898	17.51	3006	18.39	3096	18.94	3158	19.51	3221				
	86	16.02	2894	16.43	2930	17.30	3039	18.17	3130	18.71	3193	19.27	3257				

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 18K(Heating up to 2 indoor units series)

COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		-13		-5		0		5		14		17		23		32	
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
100%	59	13.73	2124	15.45	2255	17.16	2374	19.07	2499	13.31	2208	14.79	2230	15.57	2253	17.10	2299
	61	13.57	2141	15.26	2273	16.96	2393	18.84	2519	13.15	2226	14.61	2248	15.38	2271	16.90	2317
	63	13.41	2158	15.08	2292	16.76	2412	18.62	2539	12.99	2244	14.44	2266	15.20	2289	16.70	2336
	64	13.25	2176	14.90	2310	16.56	2432	18.40	2560	12.84	2262	14.27	2285	15.02	2308	16.50	2355
	66	13.09	2193	14.73	2329	16.36	2451	18.18	2580	12.69	2280	14.10	2303	14.84	2326	16.31	2374
	68	12.96	2211	14.58	2347	16.20	2471	18.00	2601	12.56	2298	13.96	2322	14.69	2345	16.15	2393
	70	12.80	2235	14.41	2373	16.01	2498	17.78	2630	12.41	2324	13.79	2347	14.52	2371	15.95	2419
	72	12.65	2260	14.23	2399	15.81	2526	17.57	2659	12.26	2349	13.63	2373	14.34	2397	15.76	2446
	73	12.50	2285	14.06	2426	15.62	2553	17.36	2688	12.12	2375	13.46	2399	14.17	2423	15.57	2473
	75	12.35	2310	13.89	2452	15.44	2581	17.15	2717	11.97	2401	13.30	2425	14.00	2450	15.38	2500
	77	12.20	2335	13.73	2479	15.25	2610	16.95	2747	11.83	2428	13.14	2452	13.83	2477	15.20	2527
	79	12.05	2361	13.56	2507	15.07	2639	16.74	2777	11.68	2454	12.98	2479	13.67	2504	15.02	2555
	81	11.91	2387	13.40	2534	14.89	2668	16.54	2808	11.54	2481	12.83	2506	13.50	2532	14.84	2583
	82	11.77	2413	13.24	2562	14.71	2697	16.34	2839	11.41	2509	12.67	2534	13.34	2559	14.66	2612
	84	11.63	2440	13.08	2590	14.53	2727	16.15	2870	11.27	2536	12.52	2562	13.18	2588	14.48	2640
	86	11.49	2466	12.92	2619	14.36	2757	15.95	2902	11.13	2564	12.37	2590	13.02	2616	14.31	2669
COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		41		47		50		59		68		75					
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT				
100%	59	18.59	2420	19.07	2450	20.08	2541	21.08	2617	21.72	2669	22.37	2723				
	61	18.37	2439	18.84	2469	19.84	2561	20.83	2638	21.46	2691	22.10	2745				
	63	18.15	2459	18.62	2489	19.61	2582	20.59	2659	21.20	2712	21.84	2767				
	64	17.94	2479	18.40	2509	19.37	2603	20.34	2681	20.95	2734	21.58	2789				
	66	17.73	2499	18.18	2530	19.14	2624	20.10	2702	20.70	2756	21.32	2811				
	68	17.55	2519	18.00	2550	18.95	2645	19.90	2724	20.50	2779	21.11	2834				
	70	17.34	2546	17.78	2578	18.73	2674	19.66	2754	20.25	2809	20.86	2865				
	72	17.13	2575	17.57	2606	18.50	2703	19.43	2784	20.01	2840	20.61	2897				
	73	16.93	2603	17.36	2635	18.28	2733	19.19	2815	19.77	2871	20.36	2929				
	75	16.72	2631	17.15	2664	18.06	2763	18.96	2846	19.53	2903	20.12	2961				
	77	16.52	2660	16.95	2693	17.84	2793	18.74	2877	19.30	2935	19.88	2993				
	79	16.32	2690	16.74	2723	17.63	2824	18.51	2909	19.07	2967	19.64	3026				
	81	16.13	2719	16.54	2753	17.42	2855	18.29	2941	18.84	3000	19.40	3060				
	82	15.93	2749	16.34	2783	17.21	2887	18.07	2973	18.61	3033	19.17	3093				
	84	15.74	2779	16.15	2814	17.00	2918	17.85	3006	18.39	3066	18.94	3127				
	86	15.55	2810	15.95	2845	16.80	2950	17.64	3039	18.17	3100	18.71	3162				
COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		-13		-5		0		5		14		17		23		32	
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
90%	59	13.25	2086	14.90	2214	16.56	2331	18.40	2454	12.84	2168	14.27	2190	15.02	2212	16.51	2257
	61	13.09	2102	14.73	2232	16.36	2350	18.18	2473	12.69	2186	14.10	2208	14.84	2230	16.31	2275
	63	12.94	2119	14.55	2250	16.17	2369	17.97	2493	12.54	2203	13.93	2225	14.67	2248	16.12	2294
	64	12.78	2136	14.38	2268	15.98	2388	17.75	2513	12.39	2221	13.77	2243	14.49	2266	15.93	2312
	66	12.63	2154	14.21	2287	15.79	2407	17.54	2534	12.24	2239	13.60	2262	14.32	2284	15.74	2331
	68	12.51	2171	14.07	2305	15.63	2426	17.37	2554	12.12	2257	13.47	2280	14.18	2303	15.58	2350
	70	12.36	2195	13.90	2331	15.45	2453	17.16	2582	11.98	2282	13.31	2305	14.01	2328	15.39	2376
	72	12.21	2219	13.73	2356	15.26	2480	16.96	2611	11.83	2307	13.15	2330	13.84	2354	15.21	2402
	73	12.06	2243	13.57	2382	15.08	2507	16.75	2639	11.69	2332	12.99	2356	13.67	2380	15.03	2428
	75	11.92	2268	13.41	2408	14.90	2535	16.55	2668	11.55	2358	12.83	2382	13.51	2406	14.85	2455
	77	11.77	2293	13.25	2435	14.72	2563	16.35	2698	11.41	2384	12.68	2408	13.35	2432	14.67	2482
	79	11.63	2318	13.09	2462	14.54	2591	16.16	2727	11.28	2410	12.53	2434	13.19	2459	14.49	2509
	81	11.49	2344	12.93	2489	14.37	2620	15.96	2757	11.14	2437	12.38	2461	13.03	2486	14.32	2537
	82	11.36	2370	12.77	2516	14.19	2648	15.77	2788	11.01	2463	12.23	2488	12.87	2513	14.15	2565
	84	11.22	2396	12.62	2544	14.02	2678	15.58	2818	10.87	2490	12.08	2516	12.72	2541	13.98	2593
	86	11.08	2422	12.47	2572	13.86	2707	15.39	2849	10.74	2518	11.94	2543	12.57	2569	13.81	2621

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 18K(Heating up to 2 indoor units series)

COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		41		47		50		59		68		75					
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT				
90%	59	17.94	2376	18.40	2406	19.38	2495	20.35	2570	20.96	2621	21.58	2674				
	61	17.73	2395	18.18	2425	19.15	2515	20.10	2590	20.71	2642	21.33	2695				
	63	17.52	2415	17.97	2444	18.92	2535	19.87	2611	20.46	2664	21.08	2717				
	64	17.31	2434	17.75	2464	18.70	2556	19.63	2632	20.22	2685	20.83	2739				
	66	17.11	2454	17.54	2484	18.47	2576	19.40	2654	19.98	2707	20.58	2761				
	68	16.94	2473	17.37	2504	18.29	2597	19.21	2675	19.78	2729	20.37	2783				
	70	16.73	2501	17.16	2532	18.07	2626	18.97	2704	19.54	2759	20.13	2814				
	72	16.53	2528	16.96	2559	17.85	2655	18.75	2734	19.31	2789	19.89	2845				
	73	16.33	2556	16.75	2588	17.64	2684	18.52	2764	19.08	2820	19.65	2876				
	75	16.14	2584	16.55	2616	17.43	2713	18.30	2795	18.85	2851	19.41	2908				
	77	15.94	2613	16.35	2645	17.22	2743	18.08	2825	18.62	2882	19.18	2940				
	79	15.75	2641	16.16	2674	17.01	2773	17.86	2857	18.40	2914	18.95	2972				
	81	15.56	2670	15.96	2703	16.81	2804	17.65	2888	18.18	2946	18.72	3005				
	82	15.38	2700	15.77	2733	16.61	2835	17.44	2920	17.96	2978	18.50	3038				
	84	15.19	2729	15.58	2763	16.41	2866	17.23	2952	17.74	3011	18.28	3071				
	86	15.01	2759	15.39	2794	16.21	2897	17.02	2984	17.53	3044	18.06	3105				
COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		-13		-5		0		5		14		17		23		32	
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
80%	59	12.85	2065	14.46	2192	16.06	2308	17.85	2429	12.46	2146	13.84	2168	14.57	2190	16.01	2235
	61	12.70	2081	14.29	2210	15.87	2326	17.64	2449	12.31	2164	13.68	2186	14.40	2208	15.82	2253
	63	12.55	2098	14.12	2228	15.69	2345	17.43	2468	12.16	2181	13.51	2203	14.23	2225	15.63	2271
	64	12.40	2115	13.95	2246	15.50	2364	17.22	2488	12.02	2199	13.35	2221	14.06	2243	15.45	2289
	66	12.25	2132	13.78	2264	15.32	2383	17.02	2508	11.88	2217	13.20	2239	13.89	2262	15.26	2308
	68	12.13	2149	13.65	2282	15.16	2402	16.85	2529	11.76	2234	13.07	2257	13.75	2280	15.11	2326
	70	11.99	2173	13.48	2307	14.98	2429	16.65	2556	11.62	2259	12.91	2282	13.59	2305	14.93	2352
	72	11.84	2197	13.32	2333	14.80	2455	16.45	2585	11.48	2284	12.75	2307	13.43	2330	14.75	2378
	73	11.70	2221	13.16	2358	14.62	2482	16.25	2613	11.34	2309	12.60	2332	13.26	2356	14.58	2404
	75	11.56	2245	13.00	2384	14.45	2510	16.05	2642	11.20	2334	12.45	2358	13.10	2382	14.40	2430
	77	11.42	2270	12.85	2410	14.28	2537	15.86	2671	11.07	2360	12.30	2384	12.95	2408	14.23	2457
	79	11.28	2295	12.69	2437	14.10	2565	15.67	2700	10.94	2386	12.15	2410	12.79	2434	14.06	2484
	81	11.15	2320	12.54	2464	13.94	2593	15.48	2730	10.81	2412	12.01	2437	12.64	2461	13.89	2511
	82	11.01	2346	12.39	2491	13.77	2622	15.30	2760	10.68	2439	11.86	2463	12.49	2488	13.72	2539
	84	10.88	2372	12.24	2518	13.60	2651	15.11	2790	10.55	2466	11.72	2490	12.34	2516	13.56	2567
	86	10.75	2398	12.10	2546	13.44	2680	14.93	2821	10.42	2493	11.58	2518	12.19	2543	13.39	2595
COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		41		47		50		59		68		75					
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT				
80%	59	17.40	2352	17.85	2381	18.80	2470	19.73	2544	20.33	2595	20.94	2647				
	61	17.20	2371	17.64	2401	18.57	2490	19.50	2565	20.09	2616	20.69	2668				
	63	16.99	2390	17.43	2420	18.35	2510	19.27	2585	19.85	2637	20.44	2690				
	64	16.79	2410	17.22	2440	18.13	2530	19.04	2606	19.61	2658	20.20	2711				
	66	16.59	2429	17.02	2459	17.92	2551	18.82	2627	19.38	2680	19.96	2733				
	68	16.43	2449	16.85	2479	17.74	2571	18.63	2648	19.19	2701	19.76	2755				
	70	16.23	2476	16.65	2506	17.53	2599	18.41	2677	18.96	2731	19.53	2786				
	72	16.04	2503	16.45	2534	17.32	2628	18.18	2707	18.73	2761	19.29	2816				
	73	15.84	2530	16.25	2562	17.11	2657	17.97	2737	18.51	2791	19.06	2847				
	75	15.65	2558	16.05	2590	16.91	2686	17.75	2767	18.28	2822	18.83	2879				
	77	15.47	2586	15.86	2618	16.70	2716	17.54	2797	18.06	2853	18.61	2910				
	79	15.28	2615	15.67	2647	16.50	2746	17.33	2828	17.85	2885	18.38	2942				
	81	15.10	2644	15.48	2676	16.30	2776	17.12	2859	17.63	2916	18.16	2975				
	82	14.92	2673	15.30	2706	16.11	2806	16.91	2891	17.42	2948	17.94	3007				
	84	14.74	2702	15.11	2736	15.92	2837	16.71	2922	17.21	2981	17.73	3040				
	86	14.56	2732	14.93	2766	15.72	2868	16.51	2954	17.01	3014	17.52	3074				

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 27K(Cooling up to 3 indoor units series)

				Cooling Operation PERFORMANCE DATA																																																		
				OUTDOOR DB (°F)																																																		
COMBINATION (%)	IDDB (°F)	ID WB (°F)	5				19				32				50				59				70				77				81				86				95				102				104				113			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT								
130%	70	64	27.71	16.90	0.61	2129	27.43	16.73	0.61	2148	27.13	16.55	0.61	2168	26.78	16.34	0.61	2186	26.52	16.18	0.61	2197	26.23	16.00	0.61	2269	25.87	15.78	0.61	2369	25.41	15.50	0.61	2529	24.82	15.14	0.61	2646	24.09	14.70	0.61	2745	22.17	13.52	0.61	2883	21.94	13.39	0.61	2912	18.10	11.04	0.61	3023
	70	68	28.85	14.14	0.49	2152	28.56	14.00	0.49	2172	28.25	13.84	0.49	2192	27.89	13.67	0.49	2209	27.61	13.53	0.49	2220	27.31	13.38	0.49	2293	26.94	13.20	0.49	2393	26.46	12.96	0.49	2553	25.84	12.66	0.49	2670	25.09	12.29	0.49	2769	23.08	11.31	0.49	2907	22.85	11.20	0.49	2936	18.85	9.24	0.49	3047
	72	64	28.56	18.57	0.65	2150	28.28	18.38	0.65	2170	27.97	18.18	0.65	2190	27.61	17.95	0.65	2208	27.34	17.77	0.65	2219	27.04	17.58	0.65	2292	26.67	17.33	0.65	2393	26.20	17.03	0.65	2555	25.58	16.63	0.65	2673	24.84	16.14	0.65	2773	22.85	14.85	0.65	2912	22.62	14.70	0.65	2941	18.66	12.13	0.65	3054
	72	68	29.44	15.60	0.53	2174	29.15	15.45	0.53	2194	28.83	15.28	0.53	2214	28.46	15.08	0.53	2231	28.18	14.93	0.53	2243	27.87	14.77	0.53	2316	27.49	14.57	0.53	2417	27.00	14.31	0.53	2579	26.37	13.97	0.53	2697	25.60	13.57	0.53	2797	23.55	12.48	0.53	2936	23.32	12.36	0.53	2965	19.23	10.19	0.53	3077
	72	72	29.94	12.27	0.41	2190	29.64	12.15	0.41	2210	29.32	12.02	0.41	2230	28.94	11.87	0.41	2248	28.66	11.75	0.41	2259	28.34	11.62	0.41	2332	27.95	11.46	0.41	2433	27.46	11.26	0.41	2595	26.81	10.99	0.41	2713	26.03	10.67	0.41	2813	23.95	9.82	0.41	2952	23.71	9.72	0.41	2981	19.56	8.02	0.41	3094
	73	64	29.15	20.11	0.69	2172	28.86	19.91	0.69	2192	28.54	19.69	0.69	2212	28.18	19.44	0.69	2230	27.90	19.25	0.69	2241	27.59	19.04	0.69	2316	27.21	18.78	0.69	2418	26.73	18.44	0.69	2581	26.11	18.01	0.69	2700	25.34	17.49	0.69	2801	23.32	16.09	0.69	2942	23.08	15.93	0.69	2971	19.04	13.14	0.69	3084
	73	68	30.04	17.12	0.57	2196	29.74	16.95	0.57	2216	29.42	16.77	0.57	2236	29.04	16.55	0.57	2254	28.75	16.39	0.57	2265	28.44	16.21	0.57	2340	28.05	15.99	0.57	2442	27.55	15.70	0.57	2605	26.90	15.34	0.57	2724	26.12	14.89	0.57	2825	24.03	13.70	0.57	2966	23.79	13.56	0.57	2995	19.63	11.19	0.57	3108
	73	72	30.55	13.75	0.45	2213	30.25	13.61	0.45	2232	29.92	13.46	0.45	2252	29.53	13.29	0.45	2270	29.24	13.16	0.45	2282	28.92	13.01	0.45	2356	28.52	12.84	0.45	2458	28.02	12.61	0.45	2621	27.36	12.31	0.45	2740	26.56	11.95	0.45	2841	24.44	11.00	0.45	2982	24.20	10.89	0.45	3011	19.96	8.98	0.45	3125
	75	64	29.74	21.71	0.73	2194	29.45	21.50	0.73	2214	29.13	21.26	0.73	2234	28.75	20.99	0.73	2252	28.47	20.78	0.73	2264	28.16	20.55	0.73	2339	27.77	20.27	0.73	2442	27.28	19.91	0.73	2607	26.64	19.45	0.73	2727	25.86	18.88	0.73	2829	23.79	17.37	0.73	2971	23.56	17.20	0.73	3001	19.43	14.19	0.73	3116
	75	68	30.65	18.70	0.61	2218	30.35	18.51	0.61	2238	30.02	18.31	0.61	2259	29.63	18.08	0.61	2277	29.34	17.90	0.61	2288	29.02	17.70	0.61	2363	28.62	17.46	0.61	2466	28.11	17.15	0.61	2631	27.45	16.75	0.61	2751	26.65	16.26	0.61	2854	24.52	14.96	0.61	2996	24.28	14.81	0.61	3025	20.03	12.22	0.61	3140
	75	72	31.17	15.27	0.49	2235	30.86	15.12	0.49	2255	30.53	14.96	0.49	2275	30.14	14.77	0.49	2293	29.84	14.62	0.49	2305	29.51	14.46	0.49	2380	29.10	14.26	0.49	2483	28.59	14.01	0.49	2648	27.92	13.68	0.49	2768	27.11	13.28	0.49	2870	24.94	12.22	0.49	3012	24.69	12.10	0.49	3042	20.37	9.98	0.49	3156
	75	75	31.61	11.69	0.37	2254	31.30	11.58	0.37	2274	30.95	11.45	0.37	2294	30.56	11.31	0.37	2313	30.25	11.19	0.37	2324	29.93	11.07	0.37	2399	29.51	10.92	0.37	2502	28.99	10.73	0.37	2667	28.31	10.48	0.37	2787	27.49	10.17	0.37	2890	25.29	9.36	0.37	3032	25.03	9.26	0.37	3061	20.65	7.64	0.37	3176
	77	64	30.66	23.61	0.77	2216	30.36	23.37	0.77	2237	30.03	23.12	0.77	2257	29.64	22.82	0.77	2275	29.35	22.60	0.77	2287	29.03	22.35	0.77	2363	28.63	22.04	0.77	2467	28.12	21.65	0.77	2633	27.46	21.15	0.77	2755	26.66	20.53	0.77	2858	24.53	18.89	0.77	3001	24.28	18.70	0.77	3031	20.03	15.43	0.77	3147
	77	68	31.60	20.54	0.65	2241	31.29	20.34	0.65	2261	30.95	20.11	0.65	2281	30.55	19.86	0.65	2300	30.25	19.66	0.65	2311	29.92	19.45	0.65	2387	29.50	19.18	0.65	2491	28.98	18.84	0.65	2658	28.30	18.40	0.65	2779	27.48	17.86	0.65	2882	25.28	16.43	0.65	3026	25.03	16.27	0.65	3056	20.65	13.42	0.65	3172
	77	72	32.14	17.03	0.53	2257	31.82	16.86	0.53	2278	31.47	16.68	0.53	2298	31.07	16.47	0.53	2316	30.76	16.30	0.53	2328	30.43	16.13	0.53	2404	30.01	15.90	0.53	2508	29.47	15.62	0.53	2674	28.78	15.26	0.53	2796	27.95	14.81	0.53	2899	25.71	13.63	0.53	3043	25.45	13.49	0.53	3073	21.00	11.13	0.53	3188
	77	75	32.59	13.36	0.41	2277	32.26	13.23	0.41	2297	31.91	13.08	0.41	2318	31.50	12.92	0.41	2336	31.19	12.79	0.41	2347	30.85	12.65	0.41	2423	30.43	12.47	0.41	2527	29.89	12.25	0.41	2694	29.19	11.97	0.41	2815	28.34	11.62	0.41	2919	26.07	10.69	0.41	3062	25.81	10.58	0.41	3092	21.29	8.73	0.41	3208
	79	64	31.61	25.60	0.81	2239	31.30	25.35	0.81	2259	30.95	25.07	0.81	2280	30.56	24.75	0.81	2298	30.25	24.51	0.81	2310	29.93	24.24	0.81	2386	29.51	23.91	0.81	2492	28.99	23.48	0.81	2660	28.31	22.93	0.81	2783	27.49	22.26	0.81	2887	25.29	20.48	0.81	3032	25.03	20.28	0.81	3062	20.65	16.73	0.81	3179
	79	68	32.58	22.48	0.69	2263	32.25	22.25	0.69	2284	31.90	22.01	0.69	2304	31.49	21.73	0.69	2323	31.18	21.51	0.69	2335	30.84	21.28	0.69	2411	30.42	20.99	0.69	2516	29.88	20.62	0.69	2684	29.18	20.13	0.69	2807	28.33	19.55	0.69	2912	26.06	17.98	0.69	3056	25.80	17.80	0.69	3087	21.29	14.69	0.69	3204
	79	72	33.13	18.88																																																		

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 27K(Cooling up to 3 indoor units series)

	Cooling Operation PERFORMANCE DATA																	
	OUTDOOR DB (°F)																	
COMBINATION (%)	IDDB (°F)	IDWB (°F)	115				120				122				126			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT
130%	70	64	17.56	10.71	0.61	3044	15.63	9.53	0.61	3105	15.00	9.15	0.61	3136	14.25	8.69	0.61	3199
	70	68	18.28	8.96	0.49	3068	16.27	7.97	0.49	3129	15.62	7.65	0.49	3160	14.84	7.27	0.49	3223
	72	64	18.10	11.77	0.65	3075	16.11	10.47	0.65	3137	15.47	10.05	0.65	3168	14.69	9.55	0.65	3232
	72	68	18.66	9.89	0.53	3099	16.61	8.80	0.53	3160	15.94	8.45	0.53	3192	15.14	8.03	0.53	3255
	72	72	18.98	7.78	0.41	3115	16.89	6.92	0.41	3177	16.21	6.65	0.41	3208	15.40	6.31	0.41	3272
	73	64	18.47	12.75	0.69	3106	16.44	11.34	0.69	3168	15.78	10.89	0.69	3200	14.99	10.35	0.69	3264
	73	68	19.04	10.85	0.57	3130	16.94	9.66	0.57	3192	16.27	9.27	0.57	3224	15.45	8.81	0.57	3288
	73	72	19.36	8.71	0.45	3146	17.23	7.75	0.45	3209	16.54	7.44	0.45	3241	15.72	7.07	0.45	3305
	75	64	18.85	13.76	0.73	3137	16.78	12.25	0.73	3200	16.11	11.76	0.73	3232	15.30	11.17	0.73	3297
	75	68	19.43	11.85	0.61	3162	17.29	10.55	0.61	3225	16.60	10.13	0.61	3257	15.77	9.62	0.61	3322
	75	72	19.76	9.68	0.49	3178	17.58	8.62	0.49	3241	16.88	8.27	0.49	3273	16.04	7.86	0.49	3338
	75	75	20.03	7.41	0.37	3198	17.83	6.60	0.37	3261	17.12	6.33	0.37	3293	16.26	6.02	0.37	3357
	77	64	19.43	14.96	0.77	3169	17.30	13.32	0.77	3233	16.60	12.78	0.77	3265	15.77	12.15	0.77	3331
	77	68	20.03	13.02	0.65	3194	17.82	11.59	0.65	3257	17.11	11.12	0.65	3290	16.26	10.57	0.65	3355
	77	72	20.37	10.80	0.53	3210	18.13	9.61	0.53	3274	17.40	9.22	0.53	3306	16.53	8.76	0.53	3372
	77	75	20.65	8.47	0.41	3230	18.38	7.54	0.41	3293	17.65	7.24	0.41	3326	16.76	6.87	0.41	3391
	79	64	20.03	16.23	0.81	3201	17.83	14.44	0.81	3265	17.12	13.86	0.81	3298	16.26	13.17	0.81	3364
	79	68	20.65	14.25	0.69	3226	18.38	12.68	0.69	3290	17.64	12.17	0.69	3323	16.76	11.56	0.69	3389
	79	72	21.00	11.97	0.57	3243	18.69	10.65	0.57	3307	17.94	10.23	0.57	3340	17.04	9.72	0.57	3406
	79	75	21.29	9.58	0.45	3263	18.95	8.53	0.45	3327	18.19	8.19	0.45	3360	17.28	7.78	0.45	3426
	79	79	21.63	7.14	0.33	3285	19.25	6.35	0.33	3350	18.48	6.10	0.33	3382	17.56	5.79	0.33	3448
	81	64	20.44	17.38	0.85	3233	18.19	15.47	0.85	3298	17.47	14.85	0.85	3331	16.59	14.10	0.85	3398
	81	66	20.86	16.48	0.79	3243	18.57	14.67	0.79	3308	17.82	14.08	0.79	3341	16.93	13.38	0.79	3408
	81	68	21.07	15.38	0.73	3258	18.75	13.69	0.73	3323	18.00	13.14	0.73	3356	17.10	12.48	0.73	3423
	81	72	21.43	13.07	0.61	3275	19.07	11.63	0.61	3340	18.31	11.17	0.61	3373	17.39	10.61	0.61	3440
	81	75	21.73	10.65	0.49	3295	19.34	9.48	0.49	3360	18.56	9.10	0.49	3393	17.64	8.64	0.49	3460
	81	79	22.07	8.17	0.37	3318	19.65	7.27	0.37	3383	18.86	6.98	0.37	3416	17.92	6.63	0.37	3483
	82	64	20.65	18.38	0.89	3266	18.38	16.35	0.89	3331	17.64	15.70	0.89	3365	16.76	14.92	0.89	3432
	82	68	21.07	16.22	0.77	3291	18.75	14.44	0.77	3357	18.00	13.86	0.77	3390	17.10	13.17	0.77	3457
	82	72	21.28	13.83	0.65	3308	18.94	12.31	0.65	3374	18.18	11.82	0.65	3407	17.27	11.23	0.65	3475
	82	75	21.64	11.47	0.53	3328	19.26	10.21	0.53	3394	18.49	9.80	0.53	3427	17.57	9.31	0.53	3495
	82	79	21.94	9.00	0.41	3352	19.53	8.01	0.41	3417	18.75	7.69	0.41	3451	17.81	7.30	0.41	3518
	84	64	20.85	18.98	0.91	3298	18.56	16.89	0.91	3365	17.82	16.21	0.91	3398	16.93	15.40	0.91	3467
	84	68	21.28	17.24	0.81	3324	18.94	15.34	0.81	3390	18.18	14.73	0.81	3424	17.27	13.99	0.81	3492
	84	72	21.71	14.98	0.69	3341	19.32	13.33	0.69	3407	18.54	12.80	0.69	3441	17.62	12.16	0.69	3509
	84	75	21.86	12.46	0.57	3362	19.45	11.09	0.57	3428	18.68	10.64	0.57	3462	17.74	10.11	0.57	3530
	84	79	22.16	9.97	0.45	3385	19.73	8.88	0.45	3451	18.94	8.52	0.45	3485	17.99	8.10	0.45	3553
	86	64	21.06	19.17	0.91	3331	18.75	17.06	0.91	3398	18.00	16.38	0.91	3432	17.10	15.56	0.91	3501
	86	68	21.49	18.27	0.85	3357	19.13	16.26	0.85	3424	18.36	15.61	0.85	3458	17.44	14.83	0.85	3527
	86	72	21.92	16.00	0.73	3375	19.51	14.24	0.73	3442	18.73	13.67	0.73	3476	17.79	12.99	0.73	3545
	86	75	22.08	13.47	0.61	3395	19.65	11.99	0.61	3462	18.86	11.51	0.61	3496	17.92	10.93	0.61	3565
	86	79	22.39	10.97	0.49	3419	19.92	9.76	0.49	3486	19.13	9.37	0.49	3520	18.17	8.90	0.49	3589
	88	64	21.27	19.36	0.91	3365	18.93	17.23	0.91	3432	18.18	16.54	0.91	3467	17.27	15.71	0.91	3536
	88	68	21.71	19.32	0.89	3391	19.32	17.19	0.89	3458	18.55	16.51	0.89	3493	17.62	15.68	0.89	3562
	88	72	22.14	17.05	0.77	3408	19.71	15.17	0.77	3476	18.92	14.57	0.77	3510	17.97	13.84	0.77	3580
	88	75	22.30	14.49	0.65	3429	19.84	12.90	0.65	3497	19.05	12.38	0.65	3531	18.10	11.76	0.65	3601
	88	79	22.61	11.98	0.53	3453	20.12	10.66	0.53	3521	19.32	10.24	0.53	3555	18.35	9.73	0.53	3625
	90	64	21.49	19.55	0.91	3398	19.12	17.40	0.91	3467	18.36	16.71	0.91	3501	17.44	15.87	0.91	3572
	90	68	21.92	19.95	0.91	3425	19.51	17.76	0.91	3493	18.73	17.05	0.91	3528	17.80	16.19	0.91	3598
	90	72	22.36	18.11	0.81	3443	19.90	16.12	0.81	3511	19.11	15.48	0.81	3546	18.15	14.70	0.81	3616
	90	75	22.52	15.54	0.69	3464	20.04	13.83	0.69	3532	19.24	13.28	0.69	3567	18.28	12.61	0.69	3637
	90	79	22.84	13.02	0.57	3488	20.32	11.58	0.57	3556	19.51	11.12	0.57	3591	18.53	10.56	0.57	3661

Capacities and Selection Data (Capacity Characteristics Charts) 27K(Cooling up to 3 indoor units series)

		Cooling Operation PERFORMANCE DATA																																																				
		OUTDOOR DB (°F)																																																				
COMBINATION (%)	IDDB (°F)	ID WB (°F)	5				19				32				50				59				70				77				81				86				95				102				104				113			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT								
120%	70	64	27.44	16.74	0.61	2108	27.19	16.58	0.61	2128	26.88	16.39	0.61	2147	26.53	16.18	0.61	2165	26.27	16.02	0.61	2175	25.98	15.85	0.61	2248	25.62	15.63	0.61	2347	25.17	15.35	0.61	2505	24.58	14.99	0.61	2621	23.87	14.56	0.61	2719	21.96	13.39	0.61	2855	21.74	13.26	0.61	2884	17.93	10.94	0.61	2998
	70	68	28.58	14.00	0.49	2132	28.27	13.86	0.49	2151	27.99	13.71	0.49	2171	27.63	13.54	0.49	2188	27.35	13.40	0.49	2199	27.05	13.26	0.49	2271	26.68	13.07	0.49	2370	26.21	12.85	0.49	2529	25.60	12.54	0.49	2644	24.85	12.18	0.49	2743	22.86	11.20	0.49	2879	22.63	11.09	0.49	2908	18.67	9.15	0.49	3014
	72	64	28.29	18.39	0.65	2130	28.01	18.21	0.65	2149	27.71	18.01	0.65	2169	27.35	17.78	0.65	2186	27.08	17.60	0.65	2197	26.79	17.41	0.65	2270	26.42	17.17	0.65	2370	25.95	16.87	0.65	2530	25.34	16.47	0.65	2647	24.60	15.99	0.65	2746	22.64	14.71	0.65	2884	22.41	14.57	0.65	2913	18.49	12.02	0.65	3024
	72	68	29.16	15.45	0.53	2154	28.87	15.30	0.53	2173	28.56	15.13	0.53	2193	28.19	14.94	0.53	2210	27.91	14.79	0.53	2221	27.61	14.63	0.53	2294	27.23	14.43	0.53	2394	26.74	14.17	0.53	2554	26.12	13.84	0.53	2671	25.36	13.44	0.53	2770	23.33	12.36	0.53	2908	23.10	12.24	0.53	2937	19.05	10.10	0.53	3048
	72	72	29.65	12.16	0.41	2170	29.36	12.04	0.41	2189	29.04	11.91	0.41	2209	28.67	11.75	0.41	2226	28.39	11.64	0.41	2237	28.08	11.51	0.41	2310	27.69	11.35	0.41	2410	27.20	11.15	0.41	2570	26.56	10.89	0.41	2687	25.79	10.57	0.41	2786	23.72	9.73	0.41	2924	23.49	9.63	0.41	2953	19.38	7.94	0.41	3064
	73	64	28.87	19.92	0.69	2151	28.58	19.72	0.69	2171	28.27	19.51	0.69	2191	27.91	19.26	0.69	2208	27.63	19.07	0.69	2220	27.33	18.86	0.69	2293	26.96	18.60	0.69	2394	26.48	18.27	0.69	2556	25.86	17.84	0.69	2674	25.11	17.32	0.69	2774	23.10	15.94	0.69	2913	22.87	15.78	0.69	2943	18.86	13.02	0.69	3055
	73	68	29.75	16.96	0.57	2175	29.46	16.79	0.57	2195	29.14	16.61	0.57	2215	28.77	16.40	0.57	2232	28.48	16.23	0.57	2244	28.17	16.06	0.57	2317	27.78	15.84	0.57	2418	27.29	15.56	0.57	2580	26.65	15.19	0.57	2698	25.87	14.75	0.57	2798	23.80	13.57	0.57	2937	23.57	13.43	0.57	2967	19.44	11.08	0.57	3079
	73	72	30.26	13.62	0.45	2192	29.96	13.48	0.45	2211	29.63	13.34	0.45	2231	29.25	13.16	0.45	2249	28.96	13.03	0.45	2260	28.65	12.89	0.45	2334	28.25	12.71	0.45	2435	27.75	12.49	0.45	2596	27.10	12.20	0.45	2714	26.31	11.84	0.45	2815	24.21	10.89	0.45	2954	23.97	10.79	0.45	2983	19.77	8.90	0.45	3095
	75	64	29.46	21.51	0.73	2173	29.17	21.29	0.73	2193	28.85	21.06	0.73	2213	28.48	20.79	0.73	2231	28.20	20.58	0.73	2242	27.89	20.36	0.73	2316	27.51	20.08	0.73	2418	27.02	19.72	0.73	2582	26.39	19.26	0.73	2701	25.62	18.70	0.73	2802	23.57	17.21	0.73	2943	23.33	17.03	0.73	2972	19.25	14.05	0.73	3086
	75	68	30.36	18.52	0.61	2197	30.06	18.34	0.61	2217	29.73	18.14	0.61	2237	29.35	17.90	0.61	2255	29.06	17.73	0.61	2266	28.75	17.53	0.61	2341	28.35	17.29	0.61	2443	27.85	16.99	0.61	2606	27.19	16.59	0.61	2725	26.40	16.11	0.61	2826	24.29	14.82	0.61	2967	24.05	14.67	0.61	2997	19.84	12.10	0.61	3110
	75	72	30.88	15.13	0.49	2214	30.57	14.98	0.49	2234	30.24	14.82	0.49	2254	29.85	14.63	0.49	2272	29.56	14.48	0.49	2283	29.23	14.32	0.49	2357	28.83	14.13	0.49	2459	28.32	13.88	0.49	2622	27.66	13.55	0.49	2742	26.85	13.16	0.49	2843	24.70	12.10	0.49	2984	24.46	11.98	0.49	3013	20.18	9.89	0.49	3126
	75	75	31.31	11.58	0.37	2233	31.00	11.47	0.37	2253	30.66	11.35	0.37	2273	30.27	11.20	0.37	2291	29.97	11.09	0.37	2302	29.64	10.97	0.37	2377	29.23	10.82	0.37	2479	28.72	10.63	0.37	2642	28.04	10.38	0.37	2761	27.23	10.07	0.37	2862	25.05	9.27	0.37	3003	24.80	9.18	0.37	3033	20.46	7.57	0.37	3146
	77	64	30.37	23.39	0.77	2195	30.07	23.15	0.77	2215	29.74	22.90	0.77	2235	29.36	22.61	0.77	2253	29.07	22.38	0.77	2265	28.75	22.14	0.77	2340	28.36	21.83	0.77	2443	27.86	21.45	0.77	2608	27.20	20.95	0.77	2728	26.41	20.34	0.77	2831	24.30	18.71	0.77	2973	24.05	18.52	0.77	3002	19.85	15.28	0.77	3117
	77	68	31.30	20.35	0.65	2219	30.99	20.14	0.65	2240	30.65	19.92	0.65	2260	30.26	19.67	0.65	2278	29.96	19.47	0.65	2289	29.63	19.26	0.65	2364	29.23	19.00	0.65	2467	28.71	18.66	0.65	2632	28.04	18.22	0.65	2753	27.22	17.69	0.65	2855	25.04	16.28	0.65	2997	24.79	16.11	0.65	3027	20.45	13.29	0.65	3141
	77	72	31.83	16.87	0.53	2236	31.52	16.70	0.53	2256	31.17	16.52	0.53	2276	30.77	16.31	0.53	2294	30.47	16.15	0.53	2306	30.14	15.97	0.53	2381	29.72	15.75	0.53	2484	29.20	15.47	0.53	2649	28.51	15.11	0.53	2769	27.68	14.67	0.53	2872	25.47	13.50	0.53	3014	25.21	13.36	0.53	3044	20.80	11.02	0.53	3158
	77	75	32.28	13.23	0.41	2256	31.96	13.10	0.41	2276	31.61	12.96	0.41	2296	31.21	12.79	0.41	2314	30.90	12.67	0.41	2325	30.56	12.53	0.41	2401	30.14	12.36	0.41	2504	29.61	12.14	0.41	2669	28.91	11.85	0.41	2789	28.07	11.51	0.41	2891	25.82	10.59	0.41	3033	25.57	10.48	0.41	3063	21.09	8.65	0.41	3178
	79	64	31.31	25.36	0.81	2217	31.00	25.11	0.81	2237	30.66	24.84	0.81	2258	30.27	24.52	0.81	2276	29.97	24.28	0.81	2288	29.64	24.01	0.81	2364	29.23	23.68	0.81	2468	28.72	23.26	0.81	2634	28.04	22.72	0.81	2756	27.23	22.05	0.81	2859	25.05	20.29	0.81	3003	24.80	20.09	0.81	3033	20.46	16.57	0.81	3148
	79	68	32.27	22.27	0.69	2262	31.95	22.04	0.69	2282	31.60	21.80	0.69	2302	31.20	21.53	0.69	2321	30.89	21.31	0.69	2332	30.55	21.08	0.69	2388	30.13	20.79	0.69	2489	29.60	20.42	0.69	2659	28.90	19.94	0.69	2781	28.06	19.36	0.69	2884	25.82	17.81	0.69	3027	25.56	17.63	0.69	3057	21.09	14.55	0.69	3173
	79	72	32.82	18.71	0.57	2259	32.49	18.52	0.57	2279	32.14	18.32	0.57	2299	31.73	18.08	0.57	2318	31.41	17.90	0.57	2329	31.07	17.71	0.57	2405	30.64	17.47	0.57	2509	30.10	17.16	0.57	2676	29.39	16.75	0.57	2797	28.54	16.27	0.57	2901	26.25	14.97	0.57	3044	25.99	14.82	0.57	3074	21.44	12.22	0.57	3190
	79	75	33.28	14.97	0.45	2279	32.95	14.83	0.45	2299	32.59	14.66	0.45	2319	32.17	14.48	0.45	2337	31.85	14.33	0.45	2349	31.51	14.18	0.45	2425	31.07	13.98	0.45	2529	30.52	13.73	0.45	2696	29.81	13.41	0.45	2817	28.94	13.02	0.45	2921	26.62	11.98	0.45	3064	26.36	11.86	0.45	3094	21.74	9.78	0.45	3210
	79	79	33.81	11.16	0.33	2301	33.47	11.05	0.33	2322	33.11	10.93	0.33	2342	32.69	10.79	0.33	2360	32.36	10.68	0.33	2372	32.01	10.56	0.33	2448	31.57	10.42	0.33	2552	31.01	10.23	0.33	2718	30.28	9.99	0.33	2840	29.40	9.70	0.33	2943	27.05	8.93	0.33	3087	26.78	8.84	0.33	3117	22.09	7.29	0.33	3232
	81	64	31.95	27.16	0.85	2240	31.63	26.89	0.85	2260	31.29	26.60	0.85	2281	30.89	26.25	0.85	2299	30.58	25.99	0.85	2311	30.25	25.71	0.85	2387	29.83	25.36	0.85	2492	29.30	24.91	0.85	2661	28.62	24.32	0.85	2784	27.78	23.62	0.85	2888	25.56	21.73	0.85	3033	25.30	21.51	0.85	3063	20.88	17.74	0.85	3180
	81	66	32.60	25.75	0.79	2250	32.28	25.50	0.79	2270	31.93	25.22	0.79	2291	31.52	24.90	0.79	2309	31.21	24.65	0.79	2321	30.87	24.38	0.79	2397	30.44	24.05	0.79	2502	29.90	23.62	0.79	2671	29.20	23.07	0.79	2794	28.35	22.40	0.79	2898	26.08	20.60	0.79	3043	25.82	20.40	0.79	3073	21.30	16.83	0.79	3190
	81	68	32.93	24.04	0.73	2265	32.60	23.80	0.73	2285																																												

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 27K(Cooling up to 3 indoor units series)

Cooling Operation PERFORMANCE DATA																			
OUTDOOR DB (°F)																			
COMBINATION (%)	IDDB (°F)	IDWB (°F)	115				120				122				126				
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	
120%	70	64	17.39	10.61	0.61	3015	15.48	9.44	0.61	3076	14.86	9.07	0.61	3106	14.12	8.61	0.61	3169	
	70	68	18.11	8.87	0.49	3039	16.12	7.90	0.49	3099	15.48	7.58	0.49	3130	14.70	7.20	0.49	3192	
	72	64	17.93	11.66	0.65	3045	15.96	10.37	0.65	3107	15.32	9.96	0.65	3138	14.56	9.46	0.65	3201	
	72	68	18.48	9.80	0.53	3069	16.45	8.72	0.53	3130	15.79	8.37	0.53	3162	15.00	7.95	0.53	3224	
	72	72	18.80	7.71	0.41	3085	16.73	6.86	0.41	3147	16.06	6.58	0.41	3178	15.26	6.26	0.41	3241	
	73	64	18.30	12.63	0.69	3076	16.29	11.24	0.69	3138	15.63	10.79	0.69	3169	14.85	10.25	0.69	3233	
	73	68	18.86	10.75	0.57	3100	16.78	9.57	0.57	3162	16.11	9.18	0.57	3193	15.31	8.73	0.57	3257	
	73	72	19.18	8.63	0.45	3117	17.07	7.68	0.45	3178	16.39	7.37	0.45	3210	15.57	7.01	0.45	3273	
	75	64	18.67	13.63	0.73	3107	16.62	12.13	0.73	3170	15.95	11.65	0.73	3201	15.16	11.06	0.73	3266	
	75	68	19.24	11.74	0.61	3132	17.13	10.45	0.61	3194	16.44	10.03	0.61	3226	15.62	9.53	0.61	3290	
	75	72	19.57	9.59	0.49	3148	17.42	8.53	0.49	3210	16.72	8.19	0.49	3242	15.89	7.78	0.49	3306	
	75	75	19.85	7.34	0.37	3167	17.66	6.53	0.37	3230	16.96	6.27	0.37	3262	16.11	5.96	0.37	3326	
	77	64	19.25	14.82	0.77	3139	17.13	13.19	0.77	3202	16.45	12.66	0.77	3234	15.62	12.03	0.77	3299	
	77	68	19.84	12.90	0.65	3163	17.66	11.48	0.65	3226	16.95	11.02	0.65	3258	16.10	10.47	0.65	3323	
	77	72	20.18	10.69	0.53	3180	17.96	9.52	0.53	3243	17.24	9.14	0.53	3275	16.38	8.68	0.53	3340	
	77	75	20.46	8.39	0.41	3199	18.21	7.47	0.41	3262	17.48	7.17	0.41	3295	16.61	6.81	0.41	3359	
	79	64	19.85	16.07	0.81	3170	17.66	14.31	0.81	3234	16.96	13.73	0.81	3266	16.11	13.05	0.81	3332	
	79	68	20.45	14.11	0.69	3195	18.20	12.56	0.69	3259	17.47	12.06	0.69	3291	16.60	11.45	0.69	3357	
	79	72	20.80	11.86	0.57	3212	18.51	10.55	0.57	3276	17.77	10.13	0.57	3308	16.88	9.62	0.57	3374	
	79	75	21.09	9.49	0.45	3232	18.77	8.45	0.45	3295	18.02	8.11	0.45	3328	17.12	7.70	0.45	3393	
	79	79	21.43	7.07	0.33	3255	19.07	6.29	0.33	3318	18.31	6.04	0.33	3351	17.39	5.74	0.33	3416	
	81	64	20.25	17.21	0.85	3202	18.02	15.32	0.85	3267	17.30	14.71	0.85	3299	16.44	13.97	0.85	3366	
	81	66	20.66	16.32	0.79	3212	18.39	14.53	0.79	3277	17.65	13.95	0.79	3309	16.77	13.25	0.79	3376	
	81	68	20.87	15.24	0.73	3227	18.57	13.56	0.73	3292	17.83	13.02	0.73	3324	16.94	12.37	0.73	3391	
	81	72	21.22	12.95	0.61	3244	18.89	11.52	0.61	3309	18.13	11.06	0.61	3341	17.23	10.51	0.61	3408	
	81	75	21.52	10.55	0.49	3264	19.15	9.39	0.49	3329	18.39	9.01	0.49	3361	17.47	8.56	0.49	3428	
	81	79	21.87	8.09	0.37	3287	19.46	7.20	0.37	3352	18.68	6.91	0.37	3384	17.75	6.57	0.37	3451	
	82	64	20.45	18.20	0.89	3234	18.20	16.20	0.89	3299	17.47	15.55	0.89	3332	16.60	14.77	0.89	3399	
	82	68	20.87	16.07	0.77	3260	18.57	14.30	0.77	3325	17.83	13.73	0.77	3358	16.94	13.04	0.77	3425	
	82	72	21.08	13.70	0.65	3277	18.76	12.19	0.65	3342	18.01	11.71	0.65	3375	17.11	11.12	0.65	3442	
	82	75	21.44	11.36	0.53	3297	19.08	10.11	0.53	3362	18.32	9.71	0.53	3395	17.40	9.22	0.53	3462	
	82	79	21.74	8.91	0.41	3320	19.35	7.93	0.41	3385	18.57	7.61	0.41	3418	17.64	7.23	0.41	3485	
	84	64	20.66	18.80	0.91	3267	18.38	16.73	0.91	3332	17.65	16.06	0.91	3366	16.77	15.26	0.91	3433	
	84	68	21.08	17.07	0.81	3292	18.76	15.20	0.81	3358	18.01	14.59	0.81	3391	17.11	13.86	0.81	3459	
	84	72	21.50	14.84	0.69	3310	19.14	13.20	0.69	3375	18.37	12.68	0.69	3409	17.45	12.04	0.69	3476	
	84	75	21.65	12.34	0.57	3330	19.27	10.98	0.57	3396	18.50	10.54	0.57	3429	17.57	10.02	0.57	3497	
	84	79	21.95	9.88	0.45	3354	19.54	8.79	0.45	3419	18.76	8.44	0.45	3452	17.82	8.02	0.45	3520	
	86	64	20.86	18.99	0.91	3299	18.57	16.90	0.91	3366	17.83	16.22	0.91	3399	16.93	15.41	0.91	3468	
	86	68	21.29	18.10	0.85	3325	18.95	16.11	0.85	3391	18.19	15.46	0.85	3425	17.28	14.69	0.85	3493	
	86	72	21.72	15.85	0.73	3343	19.33	14.11	0.73	3409	18.55	13.54	0.73	3443	17.63	12.87	0.73	3511	
	86	75	21.87	13.34	0.61	3363	19.46	11.87	0.61	3430	18.68	11.40	0.61	3463	17.75	10.83	0.61	3532	
	86	79	22.17	10.87	0.49	3387	19.73	9.67	0.49	3453	18.95	9.28	0.49	3487	18.00	8.82	0.49	3555	
	88	64	21.07	19.18	0.91	3332	18.75	17.07	0.91	3399	18.00	16.38	0.91	3433	17.10	15.56	0.91	3502	
	88	68	21.50	19.14	0.89	3358	19.14	17.03	0.89	3425	18.37	16.35	0.89	3459	17.45	15.53	0.89	3528	
	88	72	21.93	16.89	0.77	3376	19.52	15.03	0.77	3443	18.74	14.43	0.77	3477	17.80	13.71	0.77	3546	
	88	75	22.09	14.36	0.65	3397	19.66	12.78	0.65	3464	18.87	12.27	0.65	3498	17.93	11.65	0.65	3567	
	88	79	22.40	11.87	0.53	3421	19.93	10.56	0.53	3488	19.14	10.14	0.53	3522	18.18	9.63	0.53	3591	
	90	64	21.28	19.37	0.91	3366	18.94	17.24	0.91	3433	18.18	16.55	0.91	3468	17.28	15.72	0.91	3537	
	90	68	21.72	19.76	0.91	3392	19.33	17.59	0.91	3460	18.56	16.89	0.91	3494	17.63	16.04	0.91	3564	
	90	72	22.15	17.94	0.81	3410	19.72	15.97	0.81	3477	18.93	15.33	0.81	3512	17.98	14.56	0.81	3581	
	90	75	22.31	15.39	0.69	3431	19.85	13.70	0.69	3498	19.06	13.15	0.69	3533	18.11	12.49	0.69	3602	

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 27K(Cooling up to 3 indoor units series)

		Cooling Operation PERFORMANCE DATA																																																				
		OUTDOOR DB (°F)																																																				
COMBINATION (%)	IDDB (°F)	ID WB (°F)	5				19				32				50				59				70				77				81				86				95				102				104				113			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT								
110%	70	64	26.92	16.42	0.61	2088	26.65	16.26	0.61	2107	26.36	16.08	0.61	2126	26.03	15.88	0.61	2144	25.77	15.72	0.61	2154	25.49	15.55	0.61	2226	25.14	15.33	0.61	2324	24.69	15.06	0.61	2481	24.11	14.71	0.61	2595	23.41	14.28	0.61	2693	21.77	13.28	0.61	2828	21.55	13.15	0.61	2856	17.78	10.85	0.61	2965
	70	68	28.03	13.74	0.49	2112	27.75	13.60	0.49	2131	27.45	13.45	0.49	2150	27.10	13.28	0.49	2167	26.83	13.15	0.49	2178	26.54	13.00	0.49	2249	26.17	12.82	0.49	2347	25.71	12.60	0.49	2504	25.11	12.30	0.49	2619	24.38	11.94	0.49	2716	22.67	11.11	0.49	2851	22.44	11.00	0.49	2880	18.52	9.07	0.49	2989
	72	64	27.75	18.04	0.65	2109	27.48	17.86	0.65	2128	27.18	17.67	0.65	2148	26.83	17.44	0.65	2165	26.57	17.27	0.65	2176	26.28	17.08	0.65	2248	25.91	16.84	0.65	2347	25.46	16.55	0.65	2506	24.86	16.16	0.65	2622	24.14	15.69	0.65	2720	22.45	14.59	0.65	2856	22.22	14.44	0.65	2885	18.33	11.92	0.65	2995
	72	68	28.60	15.16	0.53	2133	28.32	15.01	0.53	2152	28.01	14.85	0.53	2172	27.65	14.66	0.53	2189	27.38	14.51	0.53	2200	27.08	14.35	0.53	2272	26.71	14.15	0.53	2371	26.24	13.90	0.53	2530	25.62	13.58	0.53	2645	24.87	13.18	0.53	2744	23.13	12.26	0.53	2880	22.90	12.14	0.53	2909	18.89	10.01	0.53	3019
	72	72	29.09	11.93	0.41	2149	28.80	11.81	0.41	2168	28.49	11.68	0.41	2188	28.12	11.53	0.41	2205	27.84	11.42	0.41	2216	27.54	11.29	0.41	2288	27.16	11.14	0.41	2387	26.68	10.94	0.41	2546	26.06	10.68	0.41	2662	25.30	10.37	0.41	2760	23.53	9.65	0.41	2896	23.29	9.55	0.41	2925	19.21	7.88	0.41	3035
	73	64	28.32	19.54	0.69	2130	28.04	19.35	0.69	2150	27.73	19.14	0.69	2169	27.38	18.89	0.69	2187	27.11	18.70	0.69	2198	26.81	18.50	0.69	2271	26.44	18.25	0.69	2371	25.98	17.92	0.69	2531	25.37	17.50	0.69	2648	24.63	16.99	0.69	2747	22.90	15.80	0.69	2885	22.67	15.65	0.69	2914	18.71	12.91	0.69	3025
	73	68	29.19	16.64	0.57	2154	28.90	16.47	0.57	2174	28.58	16.29	0.57	2193	28.22	16.08	0.57	2211	27.94	15.92	0.57	2222	27.63	15.75	0.57	2295	27.25	15.53	0.57	2395	26.77	15.26	0.57	2555	26.14	14.90	0.57	2672	25.38	14.47	0.57	2771	23.60	13.45	0.57	2909	23.37	13.32	0.57	2938	19.28	10.99	0.57	3049
	73	72	29.68	13.36	0.45	2171	29.39	13.23	0.45	2190	29.07	13.08	0.45	2210	28.70	12.91	0.45	2227	28.41	12.79	0.45	2238	28.10	12.65	0.45	2311	27.72	12.47	0.45	2411	27.23	12.25	0.45	2571	26.59	11.96	0.45	2688	25.81	11.62	0.45	2788	24.01	10.80	0.45	2925	23.77	10.69	0.45	2954	19.61	8.82	0.45	3066
	75	64	28.90	21.10	0.73	2152	28.61	20.89	0.73	2172	28.30	20.66	0.73	2191	27.94	20.39	0.73	2209	27.66	20.19	0.73	2220	27.36	19.97	0.73	2294	26.98	19.70	0.73	2395	26.51	19.35	0.73	2557	25.88	18.90	0.73	2675	25.13	18.35	0.73	2775	23.37	17.06	0.73	2914	23.14	16.89	0.73	2944	19.09	13.93	0.73	3056
	75	68	29.78	18.17	0.61	2176	29.49	17.99	0.61	2196	29.17	17.79	0.61	2216	28.79	17.56	0.61	2233	28.51	17.39	0.61	2245	28.20	17.20	0.61	2318	27.81	16.96	0.61	2419	27.32	16.66	0.61	2581	26.68	16.27	0.61	2699	25.90	15.80	0.61	2799	24.09	14.69	0.61	2939	23.85	14.55	0.61	2968	19.67	12.00	0.61	3080
	75	72	30.29	14.84	0.49	2193	29.99	14.69	0.49	2212	29.66	14.53	0.49	2232	29.28	14.35	0.49	2250	28.99	14.21	0.49	2261	28.68	14.05	0.49	2335	28.28	13.86	0.49	2436	27.78	13.61	0.49	2597	27.13	13.29	0.49	2716	26.34	12.91	0.49	2816	24.50	12.00	0.49	2955	24.25	11.88	0.49	2984	20.01	9.80	0.49	3097
	75	75	30.71	11.36	0.37	2212	30.41	11.25	0.37	2232	30.08	11.13	0.37	2252	29.69	10.99	0.37	2269	29.40	10.88	0.37	2280	29.08	10.76	0.37	2354	28.68	10.61	0.37	2455	28.17	10.42	0.37	2617	27.51	10.18	0.37	2735	26.71	9.88	0.37	2835	24.84	9.19	0.37	2974	24.59	9.10	0.37	3004	20.29	7.51	0.37	3116
	77	64	29.79	22.94	0.77	2174	29.50	22.71	0.77	2194	29.18	22.47	0.77	2214	28.80	22.18	0.77	2231	28.52	21.96	0.77	2243	28.21	21.72	0.77	2317	27.82	21.42	0.77	2419	27.33	21.04	0.77	2583	26.68	20.55	0.77	2702	25.91	19.95	0.77	2803	24.09	18.55	0.77	2944	23.85	18.37	0.77	2973	19.68	15.15	0.77	3087
	77	68	30.70	19.96	0.65	2198	30.40	19.76	0.65	2218	30.07	19.55	0.65	2238	29.68	19.29	0.65	2256	29.39	19.10	0.65	2267	29.07	18.90	0.65	2342	28.67	18.63	0.65	2444	28.16	18.31	0.65	2607	27.50	17.88	0.65	2726	26.70	17.36	0.65	2828	24.83	16.14	0.65	2968	24.58	15.98	0.65	2998	20.28	13.18	0.65	3111
	77	72	31.23	16.55	0.53	2215	30.92	16.39	0.53	2235	30.58	16.21	0.53	2255	30.19	16.00	0.53	2273	29.89	15.84	0.53	2284	29.56	15.67	0.53	2358	29.16	15.45	0.53	2460	28.64	15.18	0.53	2624	27.97	14.82	0.53	2743	27.15	14.39	0.53	2844	25.25	13.38	0.53	2985	25.00	13.25	0.53	3014	20.63	10.93	0.53	3128
	77	75	31.66	12.98	0.41	2234	31.35	12.85	0.41	2254	31.01	12.71	0.41	2274	30.61	12.55	0.41	2292	30.31	12.43	0.41	2303	29.98	12.29	0.41	2378	29.56	12.12	0.41	2480	29.04	11.91	0.41	2643	28.36	11.63	0.41	2763	27.53	11.29	0.41	2864	25.61	10.50	0.41	3004	25.35	10.39	0.41	3034	20.91	8.58	0.41	3147
	79	64	30.71	24.88	0.81	2196	30.41	24.63	0.81	2216	30.08	24.36	0.81	2236	29.69	24.05	0.81	2254	29.40	23.81	0.81	2265	29.08	23.55	0.81	2341	28.68	23.23	0.81	2444	28.17	22.82	0.81	2609	27.51	22.28	0.81	2729	26.71	21.63	0.81	2831	24.84	20.12	0.81	2973	24.59	19.92	0.81	3003	20.29	16.43	0.81	3118
	79	68	31.65	21.84	0.69	2220	31.34	21.62	0.69	2240	31.00	21.39	0.69	2261	30.60	21.12	0.69	2279	30.30	20.91	0.69	2290	29.97	20.68	0.69	2365	29.56	20.39	0.69	2468	29.03	20.03	0.69	2633	28.35	19.56	0.69	2754	27.53	18.99	0.69	2856	25.60	17.66										

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 27K(Cooling up to 3 indoor units series)

	Cooling Operation PERFORMANCE DATA																	
	OUTDOOR DB (°F)																	
COMBINATION (%)	IDDB (°F)	IDWB (°F)	115				120				122				126			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT
110%	70	64	17.25	10.52	0.61	2986	15.35	9.36	0.61	3046	14.74	8.99	0.61	3076	14.00	8.54	0.61	3138
	70	68	17.96	8.80	0.49	3009	15.98	7.83	0.49	3069	15.35	7.52	0.49	3100	14.58	7.14	0.49	3162
	72	64	17.78	11.56	0.65	3016	15.83	10.29	0.65	3076	15.19	9.88	0.65	3107	14.43	9.38	0.65	3170
	72	68	18.33	9.71	0.53	3040	16.31	8.64	0.53	3100	15.66	8.30	0.53	3131	14.88	7.88	0.53	3193
	72	72	18.64	7.64	0.41	3056	16.59	6.80	0.41	3116	15.92	6.53	0.41	3147	15.13	6.20	0.41	3210
	73	64	18.15	12.52	0.69	3046	16.15	11.14	0.69	3108	15.50	10.70	0.69	3139	14.73	10.16	0.69	3202
	73	68	18.70	10.66	0.57	3070	16.64	9.49	0.57	3132	15.98	9.11	0.57	3163	15.18	8.65	0.57	3226
	73	72	19.02	8.56	0.45	3087	16.93	7.62	0.45	3148	16.25	7.31	0.45	3179	15.44	6.95	0.45	3242
	75	64	18.52	13.52	0.73	3077	16.48	12.03	0.73	3139	15.82	11.55	0.73	3170	15.03	10.97	0.73	3234
	75	68	19.08	11.64	0.61	3101	16.98	10.36	0.61	3163	16.30	9.95	0.61	3195	15.49	9.45	0.61	3258
	75	72	19.41	9.51	0.49	3118	17.27	8.46	0.49	3180	16.58	8.12	0.49	3211	15.75	7.72	0.49	3275
	75	75	19.68	7.28	0.37	3137	17.51	6.48	0.37	3199	16.81	6.22	0.37	3231	15.97	5.91	0.37	3294
	77	64	19.09	14.70	0.77	3108	16.99	13.08	0.77	3171	16.31	12.56	0.77	3202	15.49	11.93	0.77	3267
	77	68	19.67	12.79	0.65	3133	17.51	11.38	0.65	3195	16.81	10.93	0.65	3227	15.97	10.38	0.65	3291
	77	72	20.01	10.60	0.53	3149	17.81	9.44	0.53	3212	17.09	9.06	0.53	3244	16.24	8.61	0.53	3308
	77	75	20.29	8.32	0.41	3169	18.06	7.40	0.41	3231	17.33	7.11	0.41	3263	16.47	6.75	0.41	3327
	79	64	19.68	15.94	0.81	3140	17.51	14.19	0.81	3203	16.81	13.62	0.81	3235	15.97	12.94	0.81	3300
	79	68	20.28	13.99	0.69	3164	18.05	12.45	0.69	3227	17.33	11.96	0.69	3260	16.46	11.36	0.69	3324
	79	72	20.63	11.76	0.57	3181	18.36	10.46	0.57	3244	17.62	10.04	0.57	3276	16.74	9.54	0.57	3341
	79	75	20.91	9.41	0.45	3201	18.61	8.38	0.45	3264	17.87	8.04	0.45	3296	16.98	7.64	0.45	3361
	79	79	21.25	7.01	0.33	3224	18.91	6.24	0.33	3287	18.16	5.99	0.33	3319	17.25	5.69	0.33	3384
	81	64	20.08	17.07	0.85	3171	17.87	15.19	0.85	3235	17.16	14.58	0.85	3267	16.30	13.85	0.85	3333
	81	66	20.49	16.19	0.79	3181	18.24	14.41	0.79	3245	17.51	13.83	0.79	3277	16.63	13.14	0.79	3343
	81	68	20.70	15.11	0.73	3196	18.42	13.45	0.73	3260	17.68	12.91	0.73	3292	16.80	12.26	0.73	3358
	81	72	21.05	12.84	0.61	3213	18.73	11.43	0.61	3277	17.98	10.97	0.61	3309	17.08	10.42	0.61	3375
	81	75	21.34	10.46	0.49	3233	18.99	9.31	0.49	3297	18.23	8.93	0.49	3329	17.32	8.49	0.49	3395
	81	79	21.68	8.02	0.37	3256	19.30	7.14	0.37	3320	18.53	6.85	0.37	3352	17.60	6.51	0.37	3418
	82	64	20.28	18.05	0.89	3203	18.05	16.06	0.89	3267	17.33	15.42	0.89	3300	16.46	14.65	0.89	3366
	82	68	20.70	15.94	0.77	3228	18.42	14.18	0.77	3293	17.68	13.62	0.77	3325	16.80	12.93	0.77	3392
	82	72	20.90	13.59	0.65	3246	18.60	12.09	0.65	3310	17.86	11.61	0.65	3343	16.97	11.03	0.65	3409
	82	75	21.26	11.27	0.53	3266	18.92	10.03	0.53	3330	18.16	9.63	0.53	3363	17.25	9.14	0.53	3429
	82	79	21.55	8.84	0.41	3289	19.18	7.87	0.41	3353	18.42	7.55	0.41	3386	17.50	7.17	0.41	3452
	84	64	20.48	18.64	0.91	3235	18.23	16.59	0.91	3300	17.50	15.93	0.91	3333	16.63	15.13	0.91	3400
	84	68	20.90	16.93	0.81	3261	18.60	15.07	0.81	3326	17.86	14.47	0.81	3359	16.97	13.74	0.81	3426
	84	72	21.32	14.71	0.69	3278	18.97	13.09	0.69	3343	18.22	12.57	0.69	3376	17.31	11.94	0.69	3443
	84	75	21.47	12.24	0.57	3298	19.11	10.89	0.57	3363	18.34	10.46	0.57	3396	17.43	9.93	0.57	3463
	84	79	21.77	9.80	0.45	3322	19.38	8.72	0.45	3387	18.60	8.37	0.45	3420	17.67	7.95	0.45	3487
	86	64	20.69	18.83	0.91	3268	18.41	16.76	0.91	3333	17.68	16.09	0.91	3366	16.79	15.28	0.91	3434
	86	68	21.11	17.94	0.85	3293	18.79	15.97	0.85	3359	18.04	15.33	0.85	3392	17.14	14.57	0.85	3460
	86	72	21.53	15.72	0.73	3311	19.16	13.99	0.73	3376	18.40	13.43	0.73	3410	17.48	12.76	0.73	3477
	86	75	21.68	13.23	0.61	3331	19.30	11.77	0.61	3397	18.53	11.30	0.61	3430	17.60	10.74	0.61	3498
	86	79	21.99	10.77	0.49	3355	19.57	9.59	0.49	3421	18.79	9.21	0.49	3454	17.85	8.75	0.49	3522
	88	64	20.90	19.02	0.91	3300	18.60	16.92	0.91	3366	17.85	16.25	0.91	3400	16.96	15.43	0.91	3468
	88	68	21.32	18.98	0.89	3326	18.98	16.89	0.89	3392	18.22	16.21	0.89	3426	17.31	15.40	0.89	3494
	88	72	21.75	16.75	0.77	3344	19.36	14.90	0.77	3410	18.58	14.31	0.77	3444	17.65	13.59	0.77	3512
	88	75	21.90	14.24	0.65	3365	19.49	12.67	0.65	3431	18.71	12.16	0.65	3465	17.78	11.56	0.65	3533
	88	79	22.21	11.77	0.53	3389	19.77	10.48	0.53	3455	18.97	10.06	0.53	3489	18.03	9.55	0.53	3557
	90	64	21.10	19.21	0.91	3333	18.78	17.09	0.91	3400	18.03	16.41	0.91	3434	17.13	15.59	0.91	3503
	90	68	21.54	19.60	0.91	3359	19.17	17.44	0.91	3426	18.40	16.74	0.91	3460	17.48	15.91	0.91	3529
	90	72	21.97	17.79	0.81	3377	19.55	15.84	0.81	3444	18.77	15.20	0.81	3478	17.83	14.44	0.81	3547
	90	75	22.12	15.26	0.69	3398	19.69	13.58	0.69	3465	18.90	13.04	0.69	3499	17.95	12.39	0.69	3568

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 27K(Cooling up to 3 indoor units series)

				Cooling Operation PERFORMANCE DATA																																																			
				OUTDOOR DB (°F)																																																			
COMBINATION (%)	IDDB (°F)	ID WB (°F)	5				19				32				50				59				70				77				81				86				95				102				104				113				
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT									
100%	70	64	26.14	15.94	0.61	2037	25.88	15.79	0.61	2055	25.60	15.61	0.61	2074	25.27	15.41	0.61	2091	25.02	15.26	0.61	2102	24.75	15.10	0.61	2171	24.40	14.89	0.61	2267	23.97	14.62	0.61	2420	23.41	14.28	0.61	2532	22.73	13.86	0.61	2627	21.14	12.89	0.61	2759	20.93	12.77	0.61	2786	17.26	10.53	0.61	2892	
	70	68	27.22	13.34	0.49	2060	26.95	13.20	0.49	2079	26.65	13.06	0.49	2098	26.31	12.89	0.49	2115	26.05	12.76	0.49	2125	25.77	12.63	0.49	2195	25.41	12.45	0.49	2290	24.96	12.23	0.49	2444	24.38	11.94	0.49	2555	23.67	11.60	0.49	2650	22.01	10.78	0.49	2782	21.79	10.68	0.49	2810	17.98	8.81	0.49	2916	
	72	64	26.95	17.51	0.65	2057	26.68	17.34	0.65	2076	26.39	17.15	0.65	2095	26.05	16.93	0.65	2112	25.79	16.76	0.65	2123	25.51	16.58	0.65	2193	25.16	16.35	0.65	2290	24.71	16.06	0.65	2444	24.14	15.69	0.65	2557	23.43	15.23	0.65	2653	21.79	14.16	0.65	2786	21.57	14.02	0.65	2814	17.80	11.57	0.65	2922	
	72	68	27.77	14.72	0.53	2081	27.50	14.57	0.53	2100	27.20	14.41	0.53	2119	26.85	14.23	0.53	2136	26.58	14.09	0.53	2147	26.29	13.93	0.53	2217	25.93	13.74	0.53	2314	25.47	13.50	0.53	2468	24.87	13.18	0.53	2581	24.15	12.80	0.53	2677	22.46	11.90	0.53	2810	22.23	11.78	0.53	2838	18.34	9.72	0.53	2945	
	72	72	28.24	11.58	0.41	2097	27.96	11.46	0.41	2116	27.66	11.34	0.41	2135	27.30	11.19	0.41	2152	27.03	11.08	0.41	2163	26.74	10.96	0.41	2233	26.37	10.81	0.41	2330	25.90	10.62	0.41	2484	25.30	10.37	0.41	2597	24.56	10.07	0.41	2693	22.84	9.36	0.41	2826	22.61	9.27	0.41	2854	18.66	7.65	0.41	2962	
	73	64	27.50	18.97	0.69	2078	27.22	18.78	0.69	2097	26.93	18.58	0.69	2116	26.58	18.34	0.69	2133	26.32	18.16	0.69	2144	26.03	17.96	0.69	2215	25.67	17.71	0.69	2313	25.22	17.40	0.69	2469	24.63	16.99	0.69	2583	23.91	16.50	0.69	2680	22.24	15.34	0.69	2815	22.01	15.19	0.69	2843	18.16	12.53	0.69	2951	
	73	68	28.34	16.15	0.57	2102	28.06	15.99	0.57	2121	27.75	15.82	0.57	2140	27.40	15.62	0.57	2157	27.12	15.46	0.57	2168	26.83	15.29	0.57	2239	26.46	15.08	0.57	2337	25.99	14.81	0.57	2493	25.38	14.47	0.57	2607	24.64	14.05	0.57	2704	22.92	13.06	0.57	2839	22.69	12.93	0.57	2867	18.72	10.67	0.57	2975	
	73	72	28.82	12.97	0.45	2119	28.53	12.84	0.45	2138	28.22	12.70	0.45	2157	27.86	12.54	0.45	2174	27.59	12.41	0.45	2185	27.29	12.28	0.45	2256	26.91	12.11	0.45	2353	26.43	11.89	0.45	2509	25.81	11.62	0.45	2624	25.06	11.28	0.45	2720	23.31	10.49	0.45	2855	23.07	10.38	0.45	2883	19.04	8.57	0.45	2992	
	75	64	28.06	20.48	0.73	2099	27.78	20.28	0.73	2118	27.48	20.06	0.73	2138	27.12	19.80	0.73	2155	26.86	19.60	0.73	2166	26.56	19.39	0.73	2238	26.20	19.12	0.73	2336	25.73	18.79	0.73	2494	25.13	18.35	0.73	2609	24.40	17.81	0.73	2707	22.69	16.56	0.73	2843	22.46	16.40	0.73	2872	18.53	13.53	0.73	2981	
	75	68	28.92	17.64	0.61	2123	28.63	17.46	0.61	2143	28.32	17.27	0.61	2162	27.95	17.05	0.61	2179	27.68	16.88	0.61	2190	27.38	16.70	0.61	2262	27.00	16.47	0.61	2361	26.52	16.18	0.61	2518	25.90	15.80	0.61	2634	25.15	15.34	0.61	2731	23.39	14.26	0.61	2867	23.15	14.12	0.61	2896	19.10	11.65	0.61	3005	
	75	72	29.41	14.41	0.49	2140	29.12	14.27	0.49	2159	28.80	14.11	0.49	2178	28.43	13.93	0.49	2196	28.15	13.79	0.49	2207	27.84	13.64	0.49	2279	27.46	13.45	0.49	2377	26.97	13.22	0.49	2535	26.34	12.91	0.49	2650	25.57	12.53	0.49	2748	23.78	11.65	0.49	2884	23.54	11.54	0.49	2912	19.42	9.52	0.49	3022	
	75	75	29.82	11.03	0.37	2159	29.52	10.92	0.37	2179	29.20	10.80	0.37	2198	28.83	10.67	0.37	2215	28.54	10.56	0.37	2226	28.23	10.45	0.37	2298	27.84	10.30	0.37	2397	27.35	10.12	0.37	2554	26.71	9.88	0.37	2669	25.93	9.59	0.37	2767	24.12	8.92	0.37	2903	23.87	8.83	0.37	2932	19.70	7.29	0.37	3041	
	77	64	28.92	22.27	0.77	2120	28.64	22.05	0.77	2140	28.33	21.81	0.77	2159	27.96	21.53	0.77	2177	27.69	21.32	0.77	2188	27.38	21.09	0.77	2260	27.01	20.80	0.77	2360	26.53	20.43	0.77	2519	25.91	19.95	0.77	2636	25.15	19.37	0.77	2734	23.39	18.01	0.77	2872	23.16	17.83	0.77	2901	19.11	14.71	0.77	3011	
	77	68	29.81	19.38	0.65	2145	29.51	19.18	0.65	2164	29.19	18.98	0.65	2184	28.82	18.73	0.65	2201	28.53	18.55	0.65	2212	28.22	18.35	0.65	2285	27.83	18.09	0.65	2384	27.34	17.77	0.65	2544	26.70	17.36	0.65	2660	25.92	16.85	0.65	2759	24.11	15.67	0.65	2896	23.87	15.51	0.65	2925	19.69	12.80	0.65	3036	
	77	72	30.32	16.07	0.53	2162	30.02	15.91	0.53	2181	29.69	15.74	0.53	2200	29.31	15.53	0.53	2218	29.02	15.38	0.53	2229	28.70	15.21	0.53	2302	28.31	15.00	0.53	2401	27.81	14.74	0.53	2560	27.15	14.39	0.53	2677	26.36	13.97	0.53	2776	24.52	12.99	0.53	2913	24.27	12.86	0.53	2942	20.03	10.61	0.53	3052	
	77	75	30.74	12.60	0.41	2181	30.44	12.48	0.41	2201	30.11	12.34	0.41	2220	29.72	12.18	0.41	2238	29.42	12.06	0.41	2249	29.10	11.93	0.41	2321	28.70	11.77	0.41	2421	28.20	11.56	0.41	2580	27.53	11.29	0.41	2696	26.73	10.96	0.41	2795	24.86	10.19	0.41	2932	24.61	10.09	0.41	2961	20.31	8.33	0.41	3072	
	79	64	29.82	24.15	0.81	2142	29.52	23.91	0.81	2161	29.20	23.65	0.81	2181	28.83	23.35	0.81	2199	28.54	23.12	0.81	2210	28.23	22.87	0.81	2283	27.84	22.55	0.81	2384	27.35	22.15	0.81	2545	26.71	21.63	0.81	2662	25.93	21.00	0.81	2762	24.12	19.53	0.81	2901	23.87	19.34	0.81	2930	19.70	15.95	0.81	3042	
	79	68	30.73	21.20	0.69	2167	30.43	21.00	0.69	2186	30.10	20.77	0.69	2206	29.71	20.50	0.69	2224	29.42	20.30	0.69	2235	29.10	20.08	0.69	2308	28.69	19.80	0.69	2409	28.19	19.45	0.69	2569	27.53	18.99	0.69	2687	26.72	18.44	0.69	2787	24.85	17.15	0.69	2925	24.61	16.98	0.69	2955	20.30	14.01	0.69	3066	
	79	72	31.25	17.817																																																			

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 27K(Cooling up to 3 indoor units series)

Cooling Operation PERFORMANCE DATA																		
OUTDOOR DB (°F)																		
COMBINATION (%)	IDDB (°F)	IDWB (°F)	115				120				122				126			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT
100%	70	64	16.75	10.22	0.61	2913	14.90	9.09	0.61	2971	14.31	8.73	0.61	3001	13.59	8.29	0.61	3061
	70	68	17.44	8.54	0.49	2936	15.52	7.60	0.49	2995	14.90	7.30	0.49	3025	14.15	6.94	0.49	3085
	72	64	17.26	11.22	0.65	2942	15.37	9.99	0.65	3001	14.75	9.59	0.65	3031	14.01	9.11	0.65	3092
	72	68	17.79	9.43	0.53	2966	15.84	8.39	0.53	3025	15.20	8.06	0.53	3055	14.44	7.65	0.53	3116
	72	72	18.10	7.42	0.41	2982	16.11	6.60	0.41	3041	15.46	6.34	0.41	3071	14.69	6.02	0.41	3132
	73	64	17.62	12.16	0.69	2972	15.68	10.82	0.69	3032	15.05	10.39	0.69	3062	14.30	9.87	0.69	3123
	73	68	18.16	10.35	0.57	2996	16.16	9.21	0.57	3056	15.51	8.84	0.57	3086	14.74	8.40	0.57	3147
	73	72	18.46	8.31	0.45	3012	16.43	7.40	0.45	3072	15.78	7.10	0.45	3102	14.99	6.74	0.45	3164
	75	64	17.98	13.12	0.73	3002	16.00	11.68	0.73	3062	15.36	11.21	0.73	3093	14.59	10.65	0.73	3155
	75	68	18.53	11.30	0.61	3026	16.49	10.06	0.61	3086	15.83	9.66	0.61	3117	15.04	9.17	0.61	3179
	75	72	18.84	9.23	0.49	3043	16.77	8.22	0.49	3103	16.10	7.89	0.49	3134	15.29	7.49	0.49	3196
	75	75	19.11	7.07	0.37	3062	17.00	6.29	0.37	3122	16.32	6.04	0.37	3153	15.51	5.74	0.37	3215
	77	64	18.53	14.27	0.77	3032	16.49	12.70	0.77	3093	15.83	12.19	0.77	3124	15.04	11.58	0.77	3187
	77	68	19.10	12.41	0.65	3057	17.00	11.05	0.65	3118	16.32	10.61	0.65	3149	15.50	10.08	0.65	3211
	77	72	19.42	10.29	0.53	3073	17.29	9.16	0.53	3134	16.60	8.80	0.53	3165	15.77	8.36	0.53	3228
	77	75	19.70	8.08	0.41	3093	17.53	7.19	0.41	3154	16.83	6.90	0.41	3185	15.99	6.55	0.41	3248
	79	64	19.11	15.48	0.81	3063	17.00	13.77	0.81	3124	16.32	13.22	0.81	3156	15.51	12.56	0.81	3219
	79	68	19.69	13.59	0.69	3088	17.52	12.09	0.69	3149	16.82	11.61	0.69	3180	15.98	11.03	0.69	3244
	79	72	20.03	11.41	0.57	3104	17.82	10.16	0.57	3166	17.11	9.75	0.57	3197	16.25	9.26	0.57	3261
	79	75	20.31	9.14	0.45	3124	18.07	8.13	0.45	3186	17.35	7.81	0.45	3217	16.48	7.42	0.45	3280
	79	79	20.63	6.81	0.33	3147	18.36	6.06	0.33	3208	17.63	5.82	0.33	3240	16.75	5.53	0.33	3303
	81	64	19.50	16.57	0.85	3094	17.35	14.75	0.85	3156	16.66	14.16	0.85	3188	15.82	13.45	0.85	3251
	81	66	19.89	15.72	0.79	3104	17.71	13.99	0.79	3166	17.00	13.43	0.79	3198	16.15	12.76	0.79	3261
	81	68	20.09	14.67	0.73	3119	17.88	13.05	0.73	3181	17.17	12.53	0.73	3213	16.31	11.91	0.73	3276
	81	72	20.43	12.46	0.61	3136	18.19	11.09	0.61	3198	17.46	10.65	0.61	3230	16.59	10.12	0.61	3293
	81	75	20.72	10.15	0.49	3156	18.44	9.04	0.49	3218	17.70	8.67	0.49	3250	16.82	8.24	0.49	3313
	81	79	21.05	7.79	0.37	3179	18.74	6.93	0.37	3241	17.99	6.65	0.37	3273	17.09	6.32	0.37	3336
	82	64	19.69	17.52	0.89	3125	17.52	15.60	0.89	3187	16.82	14.97	0.89	3219	15.98	14.22	0.89	3284
	82	68	20.09	15.47	0.77	3150	17.88	13.77	0.77	3213	17.17	13.22	0.77	3245	16.31	12.56	0.77	3309
	82	72	20.29	13.19	0.65	3167	18.06	11.74	0.65	3230	17.34	11.27	0.65	3262	16.47	10.71	0.65	3326
	82	75	20.64	10.94	0.53	3187	18.37	9.74	0.53	3250	17.63	9.35	0.53	3282	16.75	8.88	0.53	3347
	82	79	20.93	8.58	0.41	3211	18.63	7.64	0.41	3273	17.88	7.33	0.41	3305	16.99	6.96	0.41	3370
	84	64	19.89	18.10	0.91	3156	17.70	16.11	0.91	3219	16.99	15.46	0.91	3252	16.14	14.69	0.91	3317
	84	68	20.29	16.44	0.81	3182	18.06	14.63	0.81	3245	17.34	14.04	0.81	3277	16.47	13.34	0.81	3342
	84	72	20.70	14.28	0.69	3199	18.42	12.71	0.69	3262	17.69	12.20	0.69	3294	16.80	11.59	0.69	3360
	84	75	20.84	11.88	0.57	3219	18.55	10.57	0.57	3283	17.81	10.15	0.57	3315	16.92	9.64	0.57	3380
	84	79	21.14	9.51	0.45	3243	18.81	8.47	0.45	3306	18.06	8.13	0.45	3338	17.16	7.72	0.45	3404
	86	64	20.09	18.28	0.91	3188	17.88	16.27	0.91	3252	17.16	15.62	0.91	3284	16.30	14.84	0.91	3350
	86	68	20.50	17.42	0.85	3213	18.24	15.51	0.85	3277	17.51	14.89	0.85	3310	16.64	14.14	0.85	3376
	86	72	20.91	15.26	0.73	3231	18.61	13.58	0.73	3295	17.86	13.04	0.73	3327	16.97	12.39	0.73	3393
	86	75	21.05	12.84	0.61	3251	18.74	11.43	0.61	3315	17.99	10.97	0.61	3348	17.09	10.42	0.61	3414
	86	79	21.35	10.46	0.49	3275	19.00	9.31	0.49	3339	18.24	8.94	0.49	3372	17.33	8.49	0.49	3438
	88	64	20.29	18.46	0.91	3219	18.06	16.43	0.91	3284	17.33	15.77	0.91	3317	16.47	14.98	0.91	3384
	88	68	20.70	18.42	0.89	3245	18.42	16.40	0.89	3310	17.69	15.74	0.89	3343	16.80	14.95	0.89	3410
	88	72	21.12	16.26	0.77	3263	18.79	14.47	0.77	3328	18.04	13.89	0.77	3361	17.14	13.20	0.77	3427
	88	75	21.26	13.82	0.65	3284	18.92	12.30	0.65	3349	18.17	11.81	0.65	3381	17.26	11.22	0.65	3448
	88	79	21.56	11.43	0.53	3308	19.19	10.17	0.53	3372	18.42	9.76	0.53	3405	17.50	9.28	0.53	3472
	90	64	20.49	18.65	0.91	3252	18.24	16.59	0.91	3317	17.51	15.93	0.91	3350	16.63	15.13	0.91	3417
	90	68	20.91	19.03	0.91	3278	18.61	16.93	0.91	3343	17.86	16.26	0.91	3376	16.97	15.44	0.91	3444
	90	72	21.33	17.27	0.81	3296	18.98	15.37	0.81	3361	18.22	14.76	0.81	3394	17.31	14.02	0.81	3462
	90	75	21.48	14.82	0.69	3317	19.11	13.19	0.69	3382	18.35	12.66	0.69	3415	17.43	12.03	0.69	3483
	90	79	21.78	12.41	0.57	3341	19.38	11.05	0.57	3406	18.61	10.61	0.57	3439	17.68	10.08	0.57	3507

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 27K(Cooling up to 3 indoor units series)

	Cooling Operation PERFORMANCE DATA																																																					
	OUTDOOR DB (°F)																																																					
COMBINATION (%)	IDDB (°F)	ID WB (°F)	5				19				32				50				59				70				77				81				86				95				102				104				113			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT								
90%	70	64	25.61	15.62	0.61	2016	25.36	15.47	0.61	2035	25.09	15.30	0.61	2053	24.76	15.11	0.61	2070	24.52	14.96	0.61	2080	24.25	14.79	0.61	2150	23.92	14.59	0.61	2244	23.49	14.33	0.61	2396	22.94	14.00	0.61	2506	22.27	13.59	0.61	2600	20.72	12.64	0.61	2731	20.51	12.51	0.61	2758	16.92	10.32	0.61	2863
	70	68	26.67	13.07	0.49	2040	26.41	12.94	0.49	2058	26.12	12.80	0.49	2077	25.78	12.63	0.49	2094	25.53	12.51	0.49	2104	25.25	12.37	0.49	2173	24.90	12.20	0.49	2268	24.46	11.99	0.49	2419	23.89	11.71	0.49	2530	23.19	11.36	0.49	2624	21.57	10.57	0.49	2754	21.35	10.46	0.49	2782	17.62	8.63	0.49	2887
	72	64	26.41	17.16	0.65	2037	26.15	16.99	0.65	2055	25.86	16.81	0.65	2074	25.53	16.59	0.65	2091	25.28	16.43	0.65	2101	25.00	16.25	0.65	2171	24.66	16.03	0.65	2267	24.22	15.74	0.65	2420	23.65	15.37	0.65	2532	22.96	14.93	0.65	2627	21.36	13.88	0.65	2758	21.14	13.74	0.65	2786	17.44	11.34	0.65	2892
	72	68	27.22	14.42	0.53	2061	26.95	14.28	0.53	2079	26.65	14.13	0.53	2098	26.31	13.94	0.53	2115	26.05	13.81	0.53	2125	25.77	13.66	0.53	2195	25.41	13.47	0.53	2291	24.96	13.23	0.53	2444	24.38	12.92	0.53	2556	23.67	12.54	0.53	2650	22.01	11.67	0.53	2782	21.79	11.55	0.53	2810	17.98	9.53	0.53	2916
	72	72	27.68	11.35	0.41	2077	27.40	11.24	0.41	2095	27.11	11.11	0.41	2114	26.76	10.97	0.41	2131	26.49	10.86	0.41	2141	26.20	10.74	0.41	2211	25.84	10.60	0.41	2307	25.39	10.41	0.41	2460	24.79	10.16	0.41	2572	24.07	9.87	0.41	2667	22.38	9.18	0.41	2798	22.16	9.09	0.41	2826	18.28	7.50	0.41	2932
	73	64	26.95	18.59	0.69	2057	26.68	18.41	0.69	2076	26.39	18.21	0.69	2095	26.05	17.97	0.69	2112	25.79	17.80	0.69	2123	25.51	17.60	0.69	2193	25.16	17.36	0.69	2290	24.71	17.05	0.69	2444	24.14	16.65	0.69	2557	23.43	16.17	0.69	2653	21.79	15.04	0.69	2786	21.57	14.89	0.69	2814	17.80	12.28	0.69	2922
	73	68	27.77	15.83	0.57	2081	27.50	15.67	0.57	2100	27.20	15.50	0.57	2119	26.85	15.30	0.57	2136	26.58	15.15	0.57	2147	26.29	14.99	0.57	2217	25.93	14.78	0.57	2314	25.47	14.52	0.57	2468	24.87	14.18	0.57	2581	24.15	13.77	0.57	2677	22.46	12.80	0.57	2810	22.23	12.67	0.57	2838	18.34	10.46	0.57	2946
	73	72	28.24	12.71	0.45	2098	27.96	12.58	0.45	2116	27.66	12.45	0.45	2135	27.30	12.29	0.45	2152	27.03	12.17	0.45	2163	26.74	12.03	0.45	2234	26.37	11.87	0.45	2330	25.90	11.66	0.45	2485	25.30	11.38	0.45	2598	24.56	11.05	0.45	2694	22.84	10.28	0.45	2827	22.61	10.18	0.45	2855	18.66	8.39	0.45	2962
	75	64	27.50	20.07	0.73	2078	27.22	19.87	0.73	2097	26.93	19.66	0.73	2116	26.58	19.40	0.73	2133	26.32	19.21	0.73	2144	26.03	19.00	0.73	2215	25.67	18.74	0.73	2313	25.22	18.41	0.73	2469	24.63	17.98	0.73	2583	23.91	17.45	0.73	2680	22.24	16.23	0.73	2814	22.01	16.07	0.73	2843	18.16	13.26	0.73	2951
	75	68	28.34	17.29	0.61	2102	28.06	17.11	0.61	2121	27.75	16.93	0.61	2140	27.40	16.71	0.61	2158	27.12	16.55	0.61	2168	26.83	16.37	0.61	2240	26.46	16.14	0.61	2337	25.99	15.85	0.61	2493	25.38	15.48	0.61	2607	24.64	15.03	0.61	2704	22.92	13.98	0.61	2839	22.69	13.84	0.61	2867	18.72	11.42	0.61	2975
	75	72	28.82	14.12	0.49	2119	28.53	13.98	0.49	2138	28.22	13.83	0.49	2157	27.86	13.65	0.49	2174	27.59	13.52	0.49	2185	27.29	13.37	0.49	2256	26.91	13.19	0.49	2354	26.43	12.95	0.49	2510	25.81	12.65	0.49	2624	25.06	12.28	0.49	2721	23.31	11.42	0.49	2855	23.07	11.31	0.49	2883	19.04	9.33	0.49	2992
	75	75	29.22	10.81	0.37	2138	28.93	10.71	0.37	2157	28.62	10.59	0.37	2176	28.25	10.45	0.37	2194	27.97	10.35	0.37	2204	27.67	10.24	0.37	2276	27.29	10.10	0.37	2373	26.80	9.92	0.37	2529	26.17	9.68	0.37	2643	25.41	9.40	0.37	2740	23.63	8.74	0.37	2875	23.40	8.66	0.37	2903	19.30	7.14	0.37	3011
	77	64	28.35	21.83	0.77	2099	28.07	21.61	0.77	2118	27.76	21.38	0.77	2138	27.40	21.10	0.77	2155	27.13	20.89	0.77	2166	26.84	20.66	0.77	2238	26.47	20.38	0.77	2336	26.00	20.02	0.77	2494	25.39	19.55	0.77	2609	24.65	18.98	0.77	2707	22.92	17.65	0.77	2843	22.70	17.48	0.77	2871	18.72	14.42	0.77	2981
	77	68	29.21	18.99	0.65	2124	28.92	18.80	0.65	2143	28.61	18.60	0.65	2162	28.24	18.36	0.65	2179	27.96	18.18	0.65	2190	27.66	17.98	0.65	2262	27.28	17.73	0.65	2361	26.79	17.42	0.65	2518	26.17	17.01	0.65	2634	25.40	16.51	0.65	2732	23.63	15.36	0.65	2867	23.39	15.20	0.65	2896	19.30	12.54	0.65	3005
	77	72	29.71	15.75	0.53	2140	29.42	15.59	0.53	2159	29.10	15.42	0.53	2179	28.72	15.22	0.53	2196	28.44	15.07	0.53	2207	28.13	14.91	0.53	2279	27.74	14.70	0.53	2377	27.25	14.44	0.53	2535	26.61	14.10	0.53	2650	25.84	13.69	0.53	2748	24.03	12.73	0.53	2884	23.79	12.61	0.53	2913	19.62	10.40	0.53	3022
	77	75	30.13	12.35	0.41	2160	29.83	12.23	0.41	2179	29.50	12.10	0.41	2198	29.12	11.94	0.41	2216	28.84	11.82	0.41	2227	28.52	11.69	0.41	2298	28.13	11.53	0.41	2397	27.63	11.33	0.41	2555	26.98	11.06	0.41	2670	26.20	10.74	0.41	2768	24.36	9.99	0.41	2904	24.12	9.89	0.41	2932	19.90	8.16	0.41	3042
	79	64	29.22	23.67	0.81	2120	28.93	23.44	0.81	2140	28.62	23.18	0.81	2159	28.25	22.88	0.81	2177	27.97	22.66	0.81	2188	27.67	22.41	0.81	2260	27.29	22.10	0.81	2360	26.80	21.71	0.81	2519	26.17	21.20	0.81	2636	25.41	20.58	0.81	2734	23.63	19.14	0.81	2872	23.40	18.95	0.81	2900	19.30	15.64	0.81	3011
	79	68	30.12	20.78	0.69	2145	29.82	20.58	0.69	2164	29.49	20.35	0.69	2184	29.12	20.09	0.69	2201	28.83	19.89	0.69	2212	28.51	19.67	0.69	2285	28.12	19.40	0.69	2385	27.62	19.06	0.69	2544	26.98	18.61	0.69	2660	26.19	18.07	0.69	2759	24.36	16.81	0.69	28								

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 27K(Cooling up to 3 indoor units series)

	Cooling Operation PERFORMANCE DATA																	
	OUTDOOR DB (°F)																	
COMBINATION (%)	IDDB (°F)	IDWB (°F)	115				120				122				126			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT
90%	70	64	16.41	10.01	0.61	2884	14.61	8.91	0.61	2941	14.02	8.55	0.61	2971	13.32	8.13	0.61	3031
	70	68	17.09	8.37	0.49	2907	15.21	7.45	0.49	2965	14.60	7.15	0.49	2994	13.87	6.80	0.49	3054
	72	64	16.92	11.00	0.65	2913	15.06	9.79	0.65	2971	14.46	9.40	0.65	3001	13.73	8.93	0.65	3061
	72	68	17.44	9.24	0.53	2936	15.52	8.23	0.53	2995	14.90	7.90	0.53	3025	14.15	7.50	0.53	3085
	72	72	17.73	7.27	0.41	2953	15.78	6.47	0.41	3011	15.15	6.21	0.41	3041	14.39	5.90	0.41	3101
	73	64	17.26	11.91	0.69	2942	15.37	10.60	0.69	3001	14.75	10.18	0.69	3031	14.01	9.67	0.69	3092
	73	68	17.79	10.14	0.57	2966	15.84	9.03	0.57	3025	15.20	8.67	0.57	3055	14.44	8.23	0.57	3116
	73	72	18.10	8.14	0.45	2982	16.11	7.25	0.45	3041	15.46	6.96	0.45	3072	14.69	6.61	0.45	3132
	75	64	17.62	12.86	0.73	2972	15.68	11.45	0.73	3031	15.05	10.99	0.73	3062	14.30	10.44	0.73	3123
	75	68	18.16	11.08	0.61	2996	16.16	9.86	0.61	3056	15.51	9.46	0.61	3086	14.74	8.99	0.61	3148
	75	72	18.46	9.05	0.49	3013	16.43	8.05	0.49	3072	15.78	7.73	0.49	3103	14.99	7.34	0.49	3164
	75	75	18.72	6.93	0.37	3032	16.66	6.17	0.37	3092	16.00	5.92	0.37	3122	15.20	5.62	0.37	3183
	77	64	18.16	13.98	0.77	3002	16.16	12.45	0.77	3062	15.52	11.95	0.77	3093	14.74	11.35	0.77	3155
	77	68	18.72	12.17	0.65	3026	16.66	10.83	0.65	3087	15.99	10.40	0.65	3117	15.19	9.88	0.65	3179
	77	72	19.04	10.09	0.53	3043	16.94	8.98	0.53	3103	16.26	8.62	0.53	3134	15.45	8.19	0.53	3196
	77	75	19.30	7.91	0.41	3063	17.18	7.04	0.41	3123	16.49	6.76	0.41	3154	15.67	6.42	0.41	3216
	79	64	18.72	15.17	0.81	3032	16.66	13.50	0.81	3093	16.00	12.96	0.81	3124	15.20	12.31	0.81	3187
	79	68	19.30	13.31	0.69	3057	17.17	11.85	0.69	3118	16.49	11.38	0.69	3149	15.66	10.81	0.69	3211
	79	72	19.62	11.19	0.57	3074	17.47	9.96	0.57	3135	16.77	9.56	0.57	3166	15.93	9.08	0.57	3228
	79	75	19.90	8.95	0.45	3094	17.71	7.97	0.45	3154	17.00	7.65	0.45	3185	16.15	7.27	0.45	3248
	79	79	20.22	6.67	0.33	3116	17.99	5.94	0.33	3177	17.27	5.70	0.33	3208	16.41	5.42	0.33	3271
	81	64	19.11	16.24	0.85	3063	17.00	14.45	0.85	3124	16.32	13.88	0.85	3156	15.51	13.18	0.85	3219
	81	66	19.50	15.40	0.79	3073	17.35	13.71	0.79	3134	16.66	13.16	0.79	3166	15.82	12.50	0.79	3229
	81	68	19.69	14.37	0.73	3088	17.52	12.79	0.73	3149	16.82	12.28	0.73	3181	15.98	11.67	0.73	3244
	81	72	20.03	12.22	0.61	3105	17.82	10.87	0.61	3166	17.11	10.44	0.61	3198	16.25	9.91	0.61	3261
	81	75	20.31	9.95	0.49	3125	18.07	8.86	0.49	3186	17.35	8.50	0.49	3218	16.48	8.08	0.49	3281
	81	79	20.63	7.63	0.37	3148	18.36	6.79	0.37	3209	17.63	6.52	0.37	3241	16.75	6.20	0.37	3304
	82	64	19.30	17.17	0.89	3093	17.17	15.28	0.89	3155	16.49	14.67	0.89	3187	15.66	13.94	0.89	3251
	82	68	19.69	15.16	0.77	3119	17.52	13.49	0.77	3181	16.82	12.95	0.77	3212	15.98	12.31	0.77	3276
	82	72	19.89	12.93	0.65	3136	17.70	11.50	0.65	3198	16.99	11.04	0.65	3230	16.14	10.49	0.65	3293
	82	75	20.23	10.72	0.53	3156	18.00	9.54	0.53	3218	17.28	9.16	0.53	3250	16.42	8.70	0.53	3314
	82	79	20.51	8.41	0.41	3179	18.25	7.48	0.41	3241	17.52	7.18	0.41	3273	16.65	6.83	0.41	3337
	84	64	19.49	17.74	0.91	3124	17.35	15.78	0.91	3187	16.65	15.15	0.91	3219	15.82	14.40	0.91	3284
	84	68	19.89	16.11	0.81	3150	17.70	14.34	0.81	3213	16.99	13.76	0.81	3245	16.14	13.08	0.81	3309
	84	72	20.29	14.00	0.69	3167	18.05	12.46	0.69	3230	17.33	11.96	0.69	3262	16.46	11.36	0.69	3326
	84	75	20.43	11.64	0.57	3188	18.18	10.36	0.57	3250	17.45	9.95	0.57	3282	16.58	9.45	0.57	3347
	84	79	20.71	9.32	0.45	3211	18.44	8.30	0.45	3274	17.70	7.96	0.45	3306	16.81	7.57	0.45	3370
	86	64	19.68	17.91	0.91	3156	17.52	15.94	0.91	3219	16.82	15.30	0.91	3251	15.98	14.54	0.91	3316
	86	68	20.09	17.07	0.85	3181	17.88	15.20	0.85	3245	17.16	14.59	0.85	3277	16.30	13.86	0.85	3342
	86	72	20.49	14.96	0.73	3199	18.23	13.31	0.73	3262	17.50	12.78	0.73	3294	16.63	12.14	0.73	3360
	86	75	20.63	12.59	0.61	3219	18.36	11.20	0.61	3283	17.63	10.75	0.61	3315	16.75	10.22	0.61	3380
	86	79	20.92	10.25	0.49	3243	18.62	9.12	0.49	3306	17.87	8.76	0.49	3339	16.98	8.32	0.49	3404
	88	64	19.88	18.09	0.91	3187	17.69	16.10	0.91	3251	16.99	15.46	0.91	3284	16.14	14.68	0.91	3350
	88	68	20.29	18.06	0.89	3213	18.06	16.07	0.89	3277	17.33	15.43	0.89	3310	16.47	14.66	0.89	3376
	88	72	20.69	15.93	0.77	3231	18.42	14.18	0.77	3295	17.68	13.61	0.77	3327	16.80	12.93	0.77	3393
	88	75	20.84	13.54	0.65	3252	18.55	12.05	0.65	3316	17.80	11.57	0.65	3348	16.91	10.99	0.65	3414
	88	79	21.13	11.20	0.53	3276	18.81	9.97	0.53	3340	18.05	9.57	0.53	3372	17.15	9.09	0.53	3438
	90	64	20.08	18.27	0.91	3219	17.87	16.26	0.91	3284	17.16	15.61	0.91	3317	16.30	14.83	0.91	3383
	90	68	20.49	18.65	0.91	3245	18.24	16.59	0.91	3310	17.51	15.93	0.91	3343	16.63	15.13	0.91	3409
	90	72	20.90	16.93	0.81	3263	18.60	15.07	0.81	3328	17.86	14.46	0.81	3361	16.96	13.74	0.81	3427

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 27K(Cooling up to 3 indoor units series)

		Cooling Operation PERFORMANCE DATA																																																				
		OUTDOOR DB (°F)																																																				
COMBINATION (%)	IDDB (°F)	ID WB (°F)	5				19				32				50				59				70				77				81				86				95				102				104				113			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT								
80%	70	64	24.83	15.15	0.61	1996	24.58	15.00	0.61	2014	24.32	14.83	0.61	2033	24.01	14.64	0.61	2049	23.77	14.50	0.61	2059	23.51	14.34	0.61	2128	23.18	14.14	0.61	2221	22.77	13.89	0.61	2371	22.24	13.57	0.61	2481	21.59	13.17	0.61	2574	20.08	12.25	0.61	2703	19.88	12.13	0.61	2730	16.40	10.00	0.61	2834
	70	68	25.85	12.67	0.49	2019	25.60	12.54	0.49	2038	25.32	12.41	0.49	2056	24.99	12.25	0.49	2073	24.75	12.13	0.49	2083	24.48	11.99	0.49	2151	24.14	11.83	0.49	2245	23.71	11.62	0.49	2395	23.16	11.35	0.49	2505	22.48	11.02	0.49	2598	20.91	10.25	0.49	2727	20.70	10.14	0.49	2754	17.08	8.37	0.49	2858
	72	64	25.60	16.64	0.65	2016	25.34	16.47	0.65	2035	25.07	16.29	0.65	2053	24.75	16.09	0.65	2070	24.50	15.93	0.65	2080	24.24	15.75	0.65	2149	23.90	15.54	0.65	2244	23.48	15.26	0.65	2395	22.93	14.90	0.65	2506	22.26	14.47	0.65	2600	20.70	13.46	0.65	2730	20.50	13.32	0.65	2758	16.91	10.99	0.65	2863
	72	68	26.38	13.98	0.53	2040	26.12	13.84	0.53	2058	25.84	13.69	0.53	2077	25.51	13.52	0.53	2093	25.25	13.38	0.53	2104	24.98	13.24	0.53	2173	24.63	13.06	0.53	2268	24.20	12.82	0.53	2419	23.63	12.52	0.53	2530	22.94	12.16	0.53	2624	21.34	11.31	0.53	2754	21.12	11.20	0.53	2782	17.43	9.24	0.53	2887
	72	72	26.83	11.00	0.41	2056	26.56	10.89	0.41	2074	26.28	10.77	0.41	2093	25.94	10.63	0.41	2110	25.68	10.53	0.41	2120	25.40	10.41	0.41	2189	25.05	10.27	0.41	2284	24.61	10.09	0.41	2435	24.03	9.85	0.41	2546	23.33	9.57	0.41	2640	21.70	8.90	0.41	2770	21.48	8.81	0.41	2798	17.72	7.27	0.41	2903
	73	64	26.12	18.02	0.69	2036	25.86	17.84	0.69	2055	25.58	17.65	0.69	2074	25.25	17.42	0.69	2091	25.00	17.25	0.69	2101	24.73	17.06	0.69	2171	24.39	16.83	0.69	2267	23.96	16.53	0.69	2420	23.40	16.14	0.69	2531	22.71	15.67	0.69	2626	21.12	14.58	0.69	2758	20.91	14.43	0.69	2786	17.25	11.91	0.69	2892
	73	68	26.92	15.34	0.57	2060	26.65	15.19	0.57	2079	26.36	15.03	0.57	2098	26.03	14.83	0.57	2115	25.77	14.69	0.57	2125	25.49	14.53	0.57	2195	25.14	14.33	0.57	2291	24.69	14.07	0.57	2444	24.11	13.74	0.57	2555	23.41	13.34	0.57	2650	21.77	12.41	0.57	2782	21.55	12.29	0.57	2810	17.78	10.14	0.57	2916
	73	72	27.38	12.32	0.45	2077	27.11	12.20	0.45	2095	26.81	12.07	0.45	2114	26.47	11.91	0.45	2131	26.21	11.79	0.45	2142	25.92	11.66	0.45	2211	25.56	11.50	0.45	2307	25.11	11.30	0.45	2460	24.52	11.04	0.45	2572	23.81	10.71	0.45	2667	22.14	9.96	0.45	2798	21.92	9.86	0.45	2826	18.08	8.14	0.45	2932
	75	64	26.65	19.46	0.73	2057	26.39	19.26	0.73	2076	26.10	19.06	0.73	2095	25.77	18.81	0.73	2112	25.51	18.62	0.73	2122	25.24	18.42	0.73	2193	24.89	18.17	0.73	2289	24.45	17.85	0.73	2444	23.87	17.43	0.73	2557	23.18	16.92	0.73	2653	21.56	15.74	0.73	2786	21.34	15.58	0.73	2814	17.61	12.85	0.73	2921
	75	68	27.47	16.76	0.61	2081	27.20	16.59	0.61	2100	26.90	16.41	0.61	2119	26.56	16.20	0.61	2136	26.29	16.04	0.61	2147	26.01	15.86	0.61	2217	25.65	15.65	0.61	2314	25.20	15.37	0.61	2468	24.60	15.01	0.61	2581	23.89	14.57	0.61	2677	22.22	13.55	0.61	2810	21.99	13.42	0.61	2838	18.14	11.07	0.61	2945
	75	72	27.94	13.69	0.49	2098	27.66	13.55	0.49	2117	27.36	13.41	0.49	2136	27.01	13.23	0.49	2152	26.74	13.10	0.49	2163	26.45	12.96	0.49	2234	26.08	12.78	0.49	2330	25.62	12.56	0.49	2485	25.02	12.26	0.49	2598	24.29	11.90	0.49	2694	22.59	11.07	0.49	2827	22.37	10.96	0.49	2855	18.45	9.04	0.49	2962
	75	75	28.33	10.48	0.37	2117	28.05	10.38	0.37	2136	27.74	10.26	0.37	2155	27.39	10.13	0.37	2172	27.12	10.03	0.37	2183	26.82	9.92	0.37	2253	26.45	9.79	0.37	2350	25.98	9.61	0.37	2504	25.37	9.39	0.37	2617	24.63	9.11	0.37	2713	22.91	8.48	0.37	2846	22.68	8.39	0.37	2874	18.71	6.92	0.37	2981
	77	64	27.48	21.16	0.77	2078	27.21	20.95	0.77	2097	26.91	20.72	0.77	2116	26.56	20.45	0.77	2133	26.30	20.25	0.77	2144	26.02	20.03	0.77	2215	25.66	19.76	0.77	2313	25.20	19.41	0.77	2469	24.61	18.95	0.77	2583	23.90	18.40	0.77	2680	22.22	17.11	0.77	2814	22.00	16.94	0.77	2842	18.15	13.98	0.77	2951
	77	68	28.32	18.41	0.65	2102	28.04	18.23	0.65	2121	27.73	18.03	0.65	2140	27.38	17.80	0.65	2158	27.11	17.62	0.65	2168	26.81	17.43	0.65	2240	26.44	17.19	0.65	2337	25.97	16.88	0.65	2493	25.37	16.49	0.65	2607	24.63	16.01	0.65	2704	22.90	14.89	0.65	2839	22.67	14.74	0.65	2867	18.71	12.16	0.65	2975
	77	72	28.80	15.26	0.53	2119	28.52	15.11	0.53	2138	28.21	14.95	0.53	2157	27.84	14.76	0.53	2174	27.57	14.61	0.53	2185	27.27	14.45	0.53	2256	26.89	14.25	0.53	2354	26.42	14.00	0.53	2510	25.80	13.67	0.53	2624	25.05	13.27	0.53	2721	23.29	12.34	0.53	2855	23.06	12.22	0.53	2883	19.02	10.08	0.53	2992
	77	75	29.20	11.97	0.41	2139	28.91	11.86	0.41	2158	28.60	11.73	0.41	2177	28.23	11.58	0.41	2194	27.95	11.46	0.41	2205	27.65	11.34	0.41	2276	27.27	11.18	0.41	2373	26.79	10.98	0.41	2529	26.16	10.72	0.41	2644	25.40	10.41	0.41	2740	23.62	9.68	0.41	2875	23.38	9.59	0.41	2903	19.29	7.91	0.41	3011
	79	64	28.33	22.95	0.81	2099	28.05	22.72	0.81	2118	27.74	22.47	0.81	2137	27.39	22.18	0.81	2155	27.12	21.96	0.81	2165	26.82	21.72	0.81	2237	26.45	21.42	0.81	2336	25.98	21.05	0.81	2494	25.37	20.55	0.81	2609	24.63	19.95	0.81	2707	22.91	18.56	0.81	2842	22.68	18.37	0.81	2871	18.71	15.16	0.81	2980
	79	68	29.20	20.14	0.69	2124	28.91	19.95	0.69	2143	28.59	19.73	0.69	2162	28.22	19.48	0.69	2179	27.95	19.28	0.69	2190	27.64	19.07	0.69	2262	27.26	18.81	0.69	2361	26.78	18.48	0.69	2518	26.15	18.04	0.69	2634	25.39	17.52	0.69	2731	23.61	16.29	0.69	2867	23.38	16.13	0.69	2896	19.28			

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 27K(Cooling up to 3 indoor units series)

	Cooling Operation PERFORMANCE DATA																	
	OUTDOOR DB (°F)																	
COMBINATION (%)	IDDB (°F)	IDWB (°F)	115				120				122				126			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT
80%	70	64	15.91	9.70	0.61	2854	14.16	8.64	0.61	2912	13.59	8.29	0.61	2941	12.91	7.88	0.61	3000
	70	68	16.57	8.12	0.49	2878	14.74	7.22	0.49	2935	14.15	6.94	0.49	2964	13.45	6.59	0.49	3023
	72	64	16.40	10.66	0.65	2883	14.60	9.49	0.65	2941	14.01	9.11	0.65	2971	13.31	8.65	0.65	3030
	72	68	16.90	8.96	0.53	2907	15.04	7.97	0.53	2965	14.44	7.65	0.53	2994	13.72	7.27	0.53	3054
	72	72	17.19	7.05	0.41	2923	15.30	6.27	0.41	2981	14.69	6.02	0.41	3010	13.95	5.72	0.41	3070
	73	64	16.74	11.55	0.69	2912	14.90	10.28	0.69	2971	14.30	9.87	0.69	3001	13.58	9.37	0.69	3061
	73	68	17.25	9.83	0.57	2936	15.35	8.75	0.57	2995	14.74	8.40	0.57	3025	14.00	7.98	0.57	3085
	73	72	17.54	7.89	0.45	2953	15.61	7.03	0.45	3011	14.99	6.74	0.45	3041	14.24	6.41	0.45	3101
	75	64	17.08	12.47	0.73	2942	15.20	11.10	0.73	3001	14.59	10.65	0.73	3031	13.86	10.12	0.73	3092
	75	68	17.60	10.74	0.61	2966	15.66	9.56	0.61	3025	15.04	9.17	0.61	3055	14.29	8.71	0.61	3116
	75	72	17.90	8.77	0.49	2982	15.93	7.81	0.49	3041	15.29	7.49	0.49	3072	14.53	7.12	0.49	3132
	75	75	18.15	6.72	0.37	3002	16.15	5.98	0.37	3061	15.51	5.74	0.37	3091	14.73	5.45	0.37	3152
	77	64	17.61	13.56	0.77	2971	15.67	12.07	0.77	3031	15.04	11.58	0.77	3061	14.29	11.00	0.77	3123
	77	68	18.14	11.79	0.65	2996	16.15	10.50	0.65	3056	15.50	10.08	0.65	3086	14.73	9.57	0.65	3147
	77	72	18.45	9.78	0.53	3013	16.42	8.70	0.53	3072	15.77	8.36	0.53	3103	14.98	7.94	0.53	3164
	77	75	18.71	7.67	0.41	3032	16.65	6.83	0.41	3092	15.99	6.55	0.41	3122	15.19	6.23	0.41	3184
	79	64	18.15	14.70	0.81	3001	16.15	13.08	0.81	3062	15.51	12.56	0.81	3092	14.73	11.93	0.81	3154
	79	68	18.71	12.91	0.69	3026	16.65	11.49	0.69	3086	15.98	11.03	0.69	3117	15.18	10.48	0.69	3179
	79	72	19.02	10.84	0.57	3043	16.93	9.65	0.57	3103	16.25	9.26	0.57	3134	15.44	8.80	0.57	3196
	79	75	19.29	8.68	0.45	3063	17.17	7.73	0.45	3123	16.48	7.42	0.45	3154	15.66	7.05	0.45	3216
	79	79	19.60	6.47	0.33	3086	17.44	5.76	0.33	3146	16.75	5.53	0.33	3177	15.91	5.25	0.33	3239
	81	64	18.52	15.74	0.85	3032	16.48	14.01	0.85	3093	15.82	13.45	0.85	3124	15.03	12.78	0.85	3186
	81	66	18.90	14.93	0.79	3042	16.82	13.29	0.79	3103	16.15	12.76	0.79	3134	15.34	12.12	0.79	3196
	81	68	19.09	13.93	0.73	3057	16.99	12.40	0.73	3118	16.31	11.91	0.73	3149	15.49	11.31	0.73	3211
	81	72	19.41	11.84	0.61	3074	17.28	10.54	0.61	3135	16.59	10.12	0.61	3166	15.76	9.61	0.61	3228
	81	75	19.68	9.65	0.49	3094	17.52	8.58	0.49	3155	16.82	8.24	0.49	3186	15.98	7.83	0.49	3248
	81	79	20.00	7.40	0.37	3117	17.80	6.59	0.37	3178	17.09	6.32	0.37	3209	16.23	6.01	0.37	3271
	82	64	18.71	16.65	0.89	3062	16.65	14.82	0.89	3123	15.98	14.22	0.89	3155	15.18	13.51	0.89	3218
	82	68	19.09	14.70	0.77	3087	16.99	13.08	0.77	3149	16.31	12.56	0.77	3180	15.49	11.93	0.77	3243
	82	72	19.28	12.53	0.65	3104	17.16	11.15	0.65	3166	16.47	10.71	0.65	3197	15.65	10.17	0.65	3261
	82	75	19.61	10.39	0.53	3125	17.45	9.25	0.53	3186	16.75	8.88	0.53	3217	15.91	8.43	0.53	3281
	82	79	19.88	8.15	0.41	3148	17.69	7.25	0.41	3209	16.99	6.96	0.41	3241	16.14	6.62	0.41	3304
	84	64	18.89	17.19	0.91	3093	16.81	15.30	0.91	3155	16.14	14.69	0.91	3186	15.34	13.95	0.91	3250
	84	68	19.28	15.62	0.81	3118	17.16	13.90	0.81	3180	16.47	13.34	0.81	3212	15.65	12.67	0.81	3276
	84	72	19.66	13.57	0.69	3136	17.50	12.08	0.69	3198	16.80	11.59	0.69	3229	15.96	11.01	0.69	3293
	84	75	19.80	11.29	0.57	3156	17.62	10.05	0.57	3218	16.92	9.64	0.57	3250	16.07	9.16	0.57	3314
	84	79	20.08	9.04	0.45	3179	17.87	8.04	0.45	3241	17.16	7.72	0.45	3273	16.30	7.33	0.45	3337
	86	64	19.08	17.36	0.91	3124	16.98	15.45	0.91	3186	16.30	14.84	0.91	3218	15.49	14.09	0.91	3283
	86	68	19.47	16.55	0.85	3149	17.33	14.73	0.85	3212	16.64	14.14	0.85	3244	15.80	13.43	0.85	3309
	86	72	19.86	14.50	0.73	3167	17.68	12.90	0.73	3230	16.97	12.39	0.73	3262	16.12	11.77	0.73	3326
	86	75	20.00	12.20	0.61	3187	17.80	10.86	0.61	3250	17.09	10.42	0.61	3282	16.23	9.90	0.61	3347
	86	79	20.28	9.94	0.49	3211	18.05	8.84	0.49	3274	17.33	8.49	0.49	3306	16.46	8.07	0.49	3370
	88	64	19.27	17.54	0.91	3155	17.15	15.61	0.91	3218	16.47	14.98	0.91	3250	15.64	14.24	0.91	3316
	88	68	19.67	17.50	0.89	3181	17.50	15.58	0.89	3244	16.80	14.95	0.89	3276	15.96	14.21	0.89	3342
	88	72	20.06	15.45	0.77	3199	17.85	13.75	0.77	3262	17.14	13.20	0.77	3294	16.28	12.54	0.77	3359
	88	75	20.20	13.13	0.65	3219	17.98	11.69	0.65	3283	17.26	11.22	0.65	3315	16.40	10.66	0.65	3380
	88	79	20.48	10.86	0.53	3243	18.23	9.66	0.53	3307	17.50	9.28	0.53	3339	16.63	8.81	0.53	3404
	90	64	19.47	17.71	0.91	3186	17.32	15.77	0.91	3250	16.63	15.13	0.91	3283	15.80	14.38	0.91	3349
	90	68	19.86	18.08	0.91	3213	17.68	16.09	0.91	3277	16.97	15.44	0.91	3309	16.12	14.67	0.91	3375
	90	72	20.26	16.41	0.81	3231	18.03	14.61	0.81	3294	17.31	14.02	0.81	3327	16.44	13.32	0.81	3393
	90	75	20.40	14.08	0.69	3252	18.16	12.53	0.69	3315	17.43	12.03	0.69	3348	16.56	11.43	0.69	3414
	90	79	20.69	11.79	0.57	3276	18.41	10.50	0.57	3340	17.68	10.08	0.57	3372	16.79	9.57	0.57	3438

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 27K (Heating up to 3 indoor units series)

HEATING PERFORMANCE DATA

COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		-13		-5		0		5		14		17		23		32	
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
130%	59	22.50	3997	25.88	4377	28.75	4608	31.25	4702	21.81	4155	24.24	4197	25.51	4239	28.04	4326
	61	22.24	4029	25.57	4413	28.41	4645	30.88	4740	21.55	4188	23.95	4231	25.21	4273	27.70	4361
	63	21.97	4061	25.27	4448	28.08	4682	30.52	4778	21.30	4222	23.67	4265	24.91	4308	27.37	4396
	64	21.71	4094	24.97	4484	27.74	4720	30.16	4817	21.05	4256	23.38	4299	24.62	4343	27.05	4431
	66	21.46	4127	24.67	4520	27.41	4758	29.80	4855	20.80	4290	23.11	4334	24.32	4378	26.73	4467
	68	21.24	4160	24.43	4557	27.14	4797	29.50	4895	20.59	4325	22.88	4369	24.08	4413	26.46	4503
	70	20.99	4206	24.14	4607	26.82	4849	29.15	4948	20.34	4373	22.60	4417	23.79	4461	26.15	4552
	72	20.74	4252	23.85	4658	26.50	4903	28.80	5003	20.10	4421	22.33	4465	23.51	4510	25.83	4602
	73	20.49	4299	23.56	4709	26.18	4957	28.45	5058	19.86	4469	22.06	4514	23.23	4560	25.52	4653
	75	20.24	4346	23.28	4761	25.86	5011	28.11	5114	19.62	4518	21.80	4564	22.95	4610	25.22	4704
	77	20.00	4394	23.00	4813	25.55	5066	27.78	5170	19.38	4568	21.54	4614	22.67	4661	24.91	4756
	79	19.76	4443	22.72	4866	25.25	5122	27.44	5227	19.15	4618	21.28	4665	22.40	4712	24.62	4808
	81	19.52	4492	22.45	4920	24.94	5178	27.11	5284	18.92	4669	21.02	4716	22.13	4764	24.32	4861
	82	19.29	4541	22.18	4974	24.64	5235	26.79	5342	18.70	4721	20.77	4768	21.87	4816	24.03	4915
	84	19.06	4591	21.91	5028	24.35	5293	26.47	5401	18.47	4773	20.52	4821	21.60	4869	23.74	4969
	86	18.83	4641	21.65	5084	24.06	5351	26.15	5460	18.25	4825	20.28	4874	21.34	4923	23.46	5023
COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		41		47		50		59		68		75					
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT				
130%	59	30.47	4553	31.25	4610	32.91	4781	34.56	4924	35.59	5023	36.66	5123				
	61	30.11	4590	30.88	4647	32.52	4820	34.15	4964	35.17	5063	36.23	5165				
	63	29.76	4627	30.52	4684	32.14	4858	33.74	5004	34.75	5104	35.80	5206				
	64	29.40	4664	30.16	4722	31.75	4898	33.34	5044	34.34	5145	35.37	5248				
	66	29.05	4702	29.80	4760	31.38	4937	32.95	5085	33.94	5187	34.95	5291				
	68	28.77	4740	29.50	4799	31.07	4977	32.62	5126	33.60	5229	34.61	5333				
	70	28.42	4792	29.15	4851	30.69	5032	32.23	5183	33.20	5286	34.19	5392				
	72	28.08	4845	28.80	4905	30.33	5087	31.84	5240	32.80	5344	33.78	5451				
	73	27.74	4898	28.45	4959	29.96	5143	31.46	5297	32.40	5403	33.38	5511				
	75	27.41	4952	28.11	5013	29.60	5199	31.08	5355	32.02	5463	32.98	5572				
	77	27.08	5006	27.78	5068	29.25	5257	30.71	5414	31.63	5523	32.58	5633				
	79	26.76	5061	27.44	5124	28.90	5315	30.34	5474	31.25	5583	32.19	5695				
	81	26.43	5117	27.11	5181	28.55	5373	29.98	5534	30.88	5645	31.80	5758				
	82	26.12	5173	26.79	5238	28.21	5432	29.62	5595	30.51	5707	31.42	5821				
	84	25.80	5230	26.47	5295	27.87	5492	29.26	5657	30.14	5770	31.04	5885				
	86	25.49	5288	26.15	5353	27.53	5552	28.91	5719	29.78	5833	30.67	5950				
COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		-13		-5		0		5		14		17		23		32	
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
120%	59	21.85	3806	25.13	4169	27.92	4388	30.34	4478	21.18	3957	23.53	3997	24.77	4037	27.22	4120
	61	21.59	3837	24.83	4203	27.59	4424	29.98	4514	20.93	3989	23.25	4029	24.48	4070	26.90	4153
	63	21.33	3868	24.53	4237	27.26	4460	29.63	4551	20.68	4021	22.98	4062	24.19	4103	26.58	4186
	64	21.08	3899	24.24	4271	26.94	4495	29.28	4587	20.43	4053	22.70	4094	23.90	4136	26.26	4220
	66	20.83	3931	23.95	4305	26.62	4532	28.93	4624	20.19	4086	22.43	4127	23.62	4169	25.95	4254
	68	20.62	3962	23.72	4340	26.35	4568	28.64	4662	19.99	4119	22.21	4161	23.38	4203	25.69	4288
	70	20.38	4006	23.43	4388	26.04	4619	28.30	4713	19.75	4164	21.95	4206	23.10	4249	25.39	4336
	72	20.13	4050	23.15	4436	25.72	4669	27.96	4765	19.51	4210	21.68	4253	22.82	4296	25.08	4383
	73	19.89	4094	22.87	4485	25.42	4721	27.63	4817	19.28	4256	21.42	4299	22.55	4343	24.78	4432
	75	19.65	4140	22.60	4534	25.11	4773	27.29	4870	19.05	4303	21.17	4347	22.28	4391	24.48	4480
	77	19.42	4185	22.33	4584	24.81	4825	26.97	4924	18.82	4351	20.91	4395	22.01	4439	24.19	4530
	79	19.18	4231	22.06	4634	24.51	4878	26.64	4978	18.59	4399	20.66	4443	21.75	4488	23.90	4579
	81	18.95	4278	21.80	4685	24.22	4932	26.32	5033	18.37	4447	20.41	4492	21.49	4537	23.61	4630
	82	18.73	4325	21.53	4737	23.93	4986	26.01	5088	18.15	4496	20.17	4541	21.23	4587	23.33	4681
	84	18.50	4372	21.28	4789	23.64	5041	25.70	5144	17.93	4545	19.93	4591	20.97	4638	23.05	4732
	86	18.28	4420	21.02	4842	23.36	5096	25.39	5200	17.72	4595	19.69	4642	20.72	4689	22.77	4784

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 27K (Heating up to 3 indoor units series)

COMBINATION (%)	INDOOR DB(°F)	41		47		50		59		68		75					
		Q	INPUT	Q	INPUT	Q	INPUT	Q	Q	INPUT	Q	INPUT	Q				
120%	59	29.59	4336	30.34	4390	31.95	4553	33.55	4690	34.56	4784	35.59	4879				
	61	29.24	4371	29.98	4426	31.57	4590	33.15	4728	34.15	4822	35.17	4919				
	63	28.89	4407	29.63	4461	31.20	4627	32.76	4766	33.74	4861	34.75	4958				
	64	28.55	4442	29.28	4497	30.83	4664	32.37	4804	33.34	4900	34.34	4998				
	66	28.21	4478	28.93	4534	30.46	4702	31.99	4843	32.95	4940	33.94	5039				
	68	27.93	4514	28.64	4570	30.16	4740	31.67	4882	32.62	4980	33.60	5079				
	70	27.59	4564	28.30	4620	29.80	4792	31.29	4936	32.23	5034	33.20	5135				
	72	27.26	4614	27.96	4671	29.44	4845	30.92	4990	31.84	5090	32.80	5192				
	73	26.93	4665	27.63	4723	29.09	4898	30.54	5045	31.46	5146	32.40	5249				
	75	26.61	4716	27.29	4775	28.74	4952	30.18	5100	31.08	5202	32.02	5307				
	77	26.29	4768	26.97	4827	28.40	5006	29.82	5157	30.71	5260	31.63	5365				
	79	25.98	4820	26.64	4880	28.05	5061	29.46	5213	30.34	5318	31.25	5424				
	81	25.67	4873	26.32	4934	27.72	5117	29.10	5271	29.98	5376	30.88	5484				
	82	25.36	4927	26.01	4988	27.39	5173	28.75	5329	29.62	5435	30.51	5544				
	84	25.05	4981	25.70	5043	27.06	5230	28.41	5387	29.26	5495	30.14	5605				
86	24.75	5036	25.39	5098	26.73	5288	28.07	5446	28.91	5555	29.78	5667					
COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		-13		-5		0		5		14		17		23		32	
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
110%	59	21.21	3732	23.86	3962	26.51	4171	29.46	4390	20.56	3879	22.85	3919	24.05	3958	26.43	4039
	61	20.96	3762	23.58	3994	26.20	4204	29.11	4426	20.32	3911	22.57	3950	23.76	3990	26.11	4071
	63	20.71	3792	23.30	4026	25.89	4238	28.77	4461	20.08	3942	22.31	3982	23.48	4022	25.80	4104
	64	20.47	3823	23.02	4059	25.58	4272	28.43	4497	19.84	3974	22.04	4014	23.20	4055	25.50	4137
	66	20.22	3854	22.75	4092	25.28	4307	28.09	4534	19.60	4006	21.78	4046	22.93	4087	25.20	4171
	68	20.02	3885	22.53	4125	25.03	4342	27.81	4570	19.41	4038	21.57	4079	22.70	4120	24.95	4204
	70	19.78	3927	22.26	4170	24.73	4389	27.48	4620	19.18	4083	21.31	4124	22.43	4166	24.65	4251
	72	19.55	3971	21.99	4216	24.43	4438	27.15	4671	18.95	4128	21.05	4169	22.16	4211	24.35	4297
	73	19.31	4014	21.72	4262	24.14	4486	26.82	4723	18.72	4173	20.80	4215	21.89	4258	24.06	4345
	75	19.08	4058	21.46	4309	23.85	4536	26.50	4775	18.49	4219	20.55	4262	21.63	4305	23.77	4392
	77	18.85	4103	21.21	4356	23.56	4586	26.18	4827	18.27	4265	20.30	4308	21.37	4352	23.48	4441
	79	18.62	4148	20.95	4404	23.28	4636	25.87	4880	18.05	4312	20.06	4356	21.11	4400	23.20	4490
	81	18.40	4194	20.70	4453	23.00	4687	25.56	4934	17.84	4360	19.82	4404	20.86	4448	22.92	4539
	82	18.18	4240	20.45	4502	22.72	4739	25.25	4988	17.62	4408	19.58	4452	20.61	4497	22.65	4589
	84	17.96	4287	20.21	4551	22.45	4791	24.95	5043	17.41	4456	19.35	4501	20.36	4547	22.38	4639
86	17.75	4334	19.96	4601	22.18	4844	24.65	5098	17.20	4505	19.11	4551	20.12	4597	22.11	4690	
COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		41		47		50		59		68		75					
		Q	INPUT	Q	INPUT	Q	INPUT	Q	Q	INPUT	Q	INPUT	Q				
110%	59	28.72	4251	29.46	4304	31.02	4464	32.57	4598	33.55	4690	34.56	4784				
	61	28.38	4286	29.11	4339	30.65	4500	32.19	4635	33.15	4728	34.15	4822				
	63	28.05	4320	28.77	4374	30.29	4536	31.81	4672	32.76	4766	33.74	4861				
	64	27.71	4355	28.43	4409	29.93	4573	31.43	4710	32.37	4804	33.34	4900				
	66	27.39	4390	28.09	4445	29.58	4610	31.06	4748	31.99	4843	32.95	4940				
	68	27.11	4426	27.81	4481	29.28	4647	30.75	4786	31.67	4882	32.62	4980				
	70	26.79	4474	27.48	4530	28.93	4698	30.38	4839	31.29	4936	32.23	5034				
	72	26.47	4524	27.15	4580	28.59	4750	30.01	4892	30.92	4990	31.84	5090				
	73	26.15	4573	26.82	4630	28.24	4802	29.65	4946	30.54	5045	31.46	5146				
	75	25.84	4624	26.50	4681	27.90	4855	29.30	5000	30.18	5100	31.08	5202				
	77	25.53	4674	26.18	4732	27.57	4908	28.95	5055	29.82	5157	30.71	5260				
	79	25.22	4726	25.87	4784	27.24	4962	28.60	5111	29.46	5213	30.34	5318				
	81	24.92	4778	25.56	4837	26.91	5017	28.26	5167	29.10	5271	29.98	5376				
	82	24.62	4830	25.25	4890	26.59	5072	27.92	5224	28.75	5329	29.62	5435				
	84	24.32	4884	24.95	4944	26.27	5128	27.58	5282	28.41	5387	29.26	5495				
86	24.03	4937	24.65	4998	25.95	5184	27.25	5340	28.07	5446	28.91	5555					

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 27K (Heating up to 3 indoor units series)

COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		-13		-5		0		5		14		17		23		32	
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
100%	59	20.59	3623	23.17	3847	25.74	4049	28.60	4262	19.96	3766	22.18	3804	23.35	3843	25.66	3921
	61	20.35	3652	22.89	3878	25.44	4082	28.26	4297	19.73	3797	21.92	3835	23.07	3874	25.35	3953
	63	20.11	3682	22.62	3909	25.14	4115	27.93	4331	19.49	3827	21.66	3866	22.80	3905	25.05	3985
	64	19.87	3711	22.35	3941	24.84	4148	27.60	4366	19.26	3858	21.40	3897	22.53	3937	24.75	4017
	66	19.63	3741	22.09	3972	24.54	4181	27.27	4402	19.03	3889	21.15	3929	22.26	3968	24.46	4049
	68	19.44	3771	21.87	4004	24.30	4215	27.00	4437	18.84	3921	20.94	3960	22.04	4000	24.22	4082
	70	19.21	3813	21.61	4048	24.01	4262	26.68	4486	18.62	3964	20.69	4004	21.77	4044	23.93	4127
	72	18.98	3855	21.35	4093	23.72	4308	26.36	4535	18.39	4007	20.44	4048	21.51	4089	23.64	4172
	73	18.75	3897	21.09	4138	23.44	4356	26.04	4585	18.17	4051	20.19	4092	21.26	4134	23.36	4218
	75	18.52	3940	20.84	4184	23.15	4404	25.73	4635	17.96	4096	19.95	4137	21.00	4179	23.08	4265
	77	18.30	3983	20.59	4230	22.88	4452	25.42	4686	17.74	4141	19.71	4183	20.75	4225	22.80	4311
	79	18.08	4027	20.34	4276	22.60	4501	25.11	4738	17.53	4187	19.47	4229	20.50	4272	22.53	4359
	81	17.86	4072	20.10	4323	22.33	4551	24.81	4790	17.32	4233	19.24	4275	20.25	4319	22.26	4407
	82	17.65	4116	19.86	4371	22.06	4601	24.51	4843	17.11	4279	19.01	4322	20.01	4366	21.99	4455
	84	17.44	4162	19.62	4419	21.80	4651	24.22	4896	16.90	4326	18.78	4370	19.77	4414	21.73	4504
	86	17.23	4207	19.38	4467	21.54	4702	23.93	4950	16.70	4374	18.56	4418	19.53	4463	21.46	4554
COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		41		47		50		59		68		75					
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT				
100%	59	27.89	4128	28.60	4179	30.12	4334	31.62	4464	32.57	4553	33.55	4644				
	61	27.56	4161	28.26	4212	29.76	4369	31.25	4500	32.19	4590	33.15	4682				
	63	27.23	4194	27.93	4246	29.41	4404	30.88	4536	31.81	4627	32.76	4720				
	64	26.91	4228	27.60	4281	29.06	4440	30.51	4573	31.43	4664	32.37	4758				
	66	26.59	4262	27.27	4315	28.72	4476	30.15	4610	31.06	4702	31.99	4796				
	68	26.33	4297	27.00	4350	28.43	4512	29.85	4647	30.75	4740	31.67	4835				
	70	26.01	4344	26.68	4398	28.09	4561	29.49	4698	30.38	4792	31.29	4888				
	72	25.70	4392	26.36	4446	27.75	4611	29.14	4750	30.01	4845	30.92	4942				
	73	25.39	4440	26.04	4495	27.42	4662	28.79	4802	29.65	4898	30.54	4996				
	75	25.08	4489	25.73	4545	27.09	4713	28.45	4855	29.30	4952	30.18	5051				
	77	24.78	4538	25.42	4595	26.77	4765	28.10	4908	28.95	5006	29.82	5107				
	79	24.49	4588	25.11	4645	26.44	4818	27.77	4962	28.60	5061	29.46	5163				
	81	24.19	4639	24.81	4696	26.13	4871	27.43	5017	28.26	5117	29.10	5219				
	82	23.90	4690	24.51	4748	25.81	4924	27.10	5072	27.92	5173	28.75	5277				
	84	23.61	4741	24.22	4800	25.50	4978	26.78	5128	27.58	5230	28.41	5335				
	86	23.33	4793	23.93	4853	25.20	5033	26.46	5184	27.25	5288	28.07	5394				
COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		-13		-5		0		5		14		17		23		32	
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
90%	59	19.87	3558	22.36	3778	24.84	3976	27.60	4186	19.26	3699	21.40	3736	22.53	3774	24.76	3851
	61	19.64	3586	22.09	3808	24.55	4008	27.27	4219	19.04	3728	21.15	3766	22.26	3804	24.47	3882
	63	19.40	3615	21.83	3839	24.26	4041	26.95	4253	18.81	3758	20.90	3796	22.00	3835	24.17	3913
	64	19.17	3645	21.57	3870	23.97	4073	26.63	4288	18.59	3789	20.65	3827	21.74	3866	23.89	3945
	66	18.95	3674	21.32	3901	23.68	4106	26.32	4322	18.37	3819	20.41	3858	21.48	3897	23.61	3976
	68	18.76	3704	21.10	3932	23.45	4139	26.06	4357	18.18	3850	20.20	3889	21.27	3928	23.37	4008
	70	18.53	3744	20.85	3976	23.17	4185	25.74	4405	17.97	3892	19.96	3932	21.01	3971	23.09	4053
	72	18.31	3785	20.60	4019	22.89	4231	25.43	4454	17.75	3935	19.72	3975	20.76	4015	22.81	4097
	73	18.09	3827	20.35	4064	22.62	4277	25.13	4503	17.54	3979	19.49	4019	20.51	4059	22.54	4142
	75	17.88	3869	20.11	4108	22.34	4324	24.83	4552	17.33	4022	19.25	4063	20.27	4104	22.27	4188
	77	17.66	3912	19.87	4153	22.08	4372	24.53	4602	17.12	4067	19.02	4108	20.02	4149	22.00	4234
	79	17.45	3955	19.63	4199	21.81	4420	24.23	4653	16.91	4111	18.79	4153	19.78	4195	21.74	4280
	81	17.24	3998	19.39	4245	21.55	4469	23.94	4704	16.71	4157	18.57	4199	19.54	4241	21.48	4327
	82	17.03	4042	19.16	4292	21.29	4518	23.66	4756	16.51	4202	18.34	4245	19.31	4288	21.22	4375
	84	16.83	4087	18.93	4339	21.04	4568	23.37	4808	16.31	4248	18.12	4291	19.08	4335	20.97	4423
	86	16.63	4132	18.70	4387	20.78	4618	23.09	4861	16.12	4295	17.91	4339	18.85	4382	20.71	4472

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 27K (Heating up to 3 indoor units series)

COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		41		47		50		59		68		75					
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT				
90%	59	26.91	4053	27.60	4104	29.06	4256	30.52	4384	31.43	4471	32.38	4561				
	61	26.59	4086	27.27	4137	28.72	4290	30.16	4419	31.06	4507	31.99	4598				
	63	26.28	4119	26.95	4170	28.38	4325	29.80	4455	30.69	4544	31.61	4635				
	64	25.97	4152	26.63	4204	28.04	4360	29.44	4491	30.33	4580	31.24	4672				
	66	25.66	4186	26.32	4238	27.71	4395	29.10	4527	29.97	4617	30.87	4710				
	68	25.40	4219	26.06	4272	27.44	4430	28.81	4563	29.67	4655	30.56	4748				
	70	25.10	4266	25.74	4319	27.11	4479	28.46	4613	29.32	4706	30.20	4800				
	72	24.80	4313	25.43	4366	26.78	4528	28.12	4664	28.96	4758	29.83	4853				
	73	24.50	4360	25.13	4414	26.46	4578	27.78	4716	28.62	4810	29.48	4906				
	75	24.21	4408	24.83	4463	26.14	4629	27.45	4767	28.27	4863	29.12	4960				
	77	23.92	4457	24.53	4512	25.83	4679	27.12	4820	27.93	4916	28.77	5015				
	79	23.63	4506	24.23	4561	25.52	4731	26.79	4873	27.60	4970	28.43	5070				
	81	23.35	4555	23.94	4612	25.21	4783	26.47	4926	27.27	5025	28.09	5126				
	82	23.06	4605	23.66	4662	24.91	4836	26.16	4981	26.94	5080	27.75	5182				
	84	22.79	4656	23.37	4714	24.61	4889	25.84	5035	26.62	5136	27.42	5239				
	86	22.51	4707	23.09	4766	24.32	4943	25.53	5091	26.30	5193	27.09	5297				
COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		-13		-5		0		5		14		17		23		32	
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
80%	59	19.28	3522	21.69	3740	24.10	3937	26.77	4144	18.69	3662	20.76	3699	21.85	3736	24.02	3812
	61	19.05	3551	21.43	3770	23.81	3968	26.46	4177	18.46	3691	20.52	3728	21.60	3766	23.73	3843
	63	18.82	3579	21.18	3800	23.53	4000	26.14	4211	18.25	3721	20.27	3758	21.34	3796	23.45	3874
	64	18.60	3608	20.92	3831	23.25	4033	25.83	4245	18.03	3751	20.03	3789	21.09	3827	23.17	3905
	66	18.38	3637	20.68	3862	22.97	4065	25.53	4279	17.81	3781	19.79	3819	20.84	3858	22.90	3937
	68	18.20	3667	20.47	3893	22.75	4098	25.27	4314	17.64	3812	19.60	3850	20.63	3889	22.67	3968
	70	17.98	3707	20.23	3936	22.47	4143	24.97	4361	17.43	3854	19.36	3892	20.38	3932	22.40	4012
	72	17.76	3748	19.98	3979	22.20	4189	24.67	4409	17.22	3896	19.13	3935	20.14	3975	22.13	4056
	73	17.55	3789	19.74	4023	21.94	4235	24.37	4457	17.01	3939	18.90	3979	19.90	4019	21.86	4101
	75	17.34	3831	19.51	4067	21.67	4281	24.08	4507	16.81	3982	18.67	4022	19.66	4063	21.60	4146
	77	17.13	3873	19.27	4112	21.41	4328	23.79	4556	16.61	4026	18.45	4067	19.42	4108	21.34	4191
	79	16.93	3915	19.04	4157	21.16	4376	23.51	4606	16.41	4070	18.23	4111	19.19	4153	21.09	4238
	81	16.72	3958	18.81	4203	20.90	4424	23.23	4657	16.21	4115	18.01	4157	18.96	4199	20.83	4284
	82	16.52	4002	18.59	4249	20.65	4473	22.95	4708	16.01	4160	17.79	4202	18.73	4245	20.58	4331
	84	16.32	4046	18.36	4296	20.40	4522	22.67	4760	15.82	4206	17.58	4248	18.51	4291	20.34	4379
	86	16.13	4090	18.14	4343	20.16	4572	22.40	4812	15.63	4252	17.37	4295	18.28	4339	20.09	4427
COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		41		47		50		59		68		75					
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT				
80%	59	26.10	4013	26.77	4063	28.19	4213	29.60	4340	30.49	4427	31.40	4515				
	61	25.79	4045	26.46	4095	27.86	4247	29.25	4375	30.13	4462	31.03	4552				
	63	25.49	4078	26.14	4128	27.53	4282	28.90	4410	29.77	4498	30.66	4588				
	64	25.19	4111	25.83	4162	27.20	4316	28.56	4446	29.42	4535	30.30	4625				
	66	24.89	4144	25.53	4195	26.88	4351	28.22	4482	29.07	4571	29.94	4663				
	68	24.64	4177	25.27	4229	26.61	4386	27.94	4518	28.78	4608	29.65	4700				
	70	24.35	4223	24.97	4276	26.29	4434	27.61	4567	28.44	4659	29.29	4752				
	72	24.05	4270	24.67	4323	25.98	4483	27.28	4618	28.10	4710	28.94	4804				
	73	23.77	4317	24.37	4370	25.67	4532	26.95	4668	27.76	4762	28.59	4857				
	75	23.48	4364	24.08	4418	25.36	4582	26.63	4720	27.42	4814	28.25	4910				
	77	23.20	4412	23.79	4467	25.05	4633	26.31	4772	27.10	4867	27.91	4964				
	79	22.92	4461	23.51	4516	24.75	4684	25.99	4824	26.77	4921	27.57	5019				
	81	22.64	4510	23.23	4566	24.46	4735	25.68	4877	26.45	4975	27.24	5074				
	82	22.37	4559	22.95	4616	24.16	4787	25.37	4931	26.13	5029	26.92	5130				
	84	22.10	4609	22.67	4667	23.87	4840	25.07	4985	25.82	5085	26.59	5187				
	86	21.84	4660	22.40	4718	23.59	4893	24.77	5040	25.51	5141	26.27	5244				

Capacities and Selection Data (Capacity Characteristics Charts) 36K(Cooling up to 4 indoor units series)

		Cooling Operation PERFORMANCE DATA																																																				
		OUTDOOR DB (°F)																																																				
COMBINATION (%)	IDDB (°F)	ID WB (°F)	5				19				32				50				59				70				77				81				86				95				102				104				113			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT				
130%	70	64	36.94	22.53	0.61	3122	36.57	22.31	0.61	3150	36.18	22.07	0.61	3179	35.71	21.78	0.61	3205	35.36	21.57	0.61	3221	34.97	21.33	0.61	3328	34.49	21.04	0.61	3474	33.88	20.67	0.61	3708	33.09	20.18	0.61	3879	32.12	19.60	0.61	4024	29.55	18.03	0.61	4226	29.26	17.85	0.61	4268	24.14	14.72	0.61	4431
	70	68	38.46	18.85	0.49	3145	38.08	18.66	0.49	3174	37.67	18.46	0.49	3202	37.19	18.22	0.49	3228	36.82	18.04	0.49	3244	36.42	17.84	0.49	3351	35.91	17.60	0.49	3497	35.28	17.29	0.49	3732	34.45	16.88	0.49	3903	33.45	16.39	0.49	4048	30.77	15.08	0.49	4250	30.46	14.93	0.49	4292	25.13	12.32	0.49	4454
	72	64	38.08	24.75	0.65	3153	37.71	24.51	0.65	3182	37.30	24.24	0.65	3211	36.82	23.93	0.65	3237	36.45	23.69	0.65	3253	36.06	23.44	0.65	3361	35.56	23.11	0.65	3509	34.93	22.70	0.65	3745	34.11	22.17	0.65	3918	33.12	21.53	0.65	4065	30.47	19.80	0.65	4269	30.16	19.61	0.65	4312	24.88	16.18	0.65	4476
	72	68	39.25	20.80	0.53	3177	38.86	20.60	0.53	3206	38.44	20.37	0.53	3235	37.94	20.11	0.53	3261	37.57	19.91	0.53	3277	37.16	19.69	0.53	3385	36.65	19.42	0.53	3533	36.00	19.08	0.53	3769	35.16	18.63	0.53	3942	34.13	18.09	0.53	4089	31.40	16.64	0.53	4293	31.09	16.48	0.53	4335	25.65	13.59	0.53	4499
	72	72	39.92	16.37	0.41	3193	39.52	16.20	0.41	3222	39.09	16.03	0.41	3251	38.59	15.82	0.41	3277	38.21	15.66	0.41	3293	37.79	15.49	0.41	3401	37.27	15.28	0.41	3549	36.61	15.01	0.41	3785	35.75	14.66	0.41	3958	34.71	14.23	0.41	4105	31.93	13.09	0.41	4309	31.62	12.96	0.41	4351	26.08	10.69	0.41	4516
	73	64	38.86	26.81	0.69	3185	38.48	26.55	0.69	3214	38.06	26.26	0.69	3243	37.57	25.92	0.69	3270	37.20	25.67	0.69	3286	36.79	25.39	0.69	3395	36.28	25.04	0.69	3544	35.64	24.59	0.69	3783	34.81	24.02	0.69	3958	33.79	23.32	0.69	4106	31.09	21.45	0.69	4312	30.78	21.24	0.69	4355	25.39	17.52	0.69	4521
	73	68	40.05	22.83	0.57	3209	39.65	22.60	0.57	3238	39.22	22.36	0.57	3267	38.72	22.07	0.57	3294	38.34	21.85	0.57	3310	37.92	21.61	0.57	3419	37.39	21.31	0.57	3568	36.73	20.94	0.57	3807	35.87	20.45	0.57	3982	34.83	19.85	0.57	4130	32.04	18.26	0.57	4332	31.72	18.08	0.57	4379	26.17	14.92	0.57	4545
	73	72	40.73	18.33	0.45	3226	40.33	18.15	0.45	3255	39.93	18.15	0.45	3284	39.38	17.72	0.45	3310	38.99	17.54	0.45	3327	38.56	17.35	0.45	3435	38.03	17.11	0.45	3585	37.36	16.81	0.45	3824	36.48	16.42	0.45	3998	35.42	15.94	0.45	4146	32.59	14.66	0.45	4332	32.26	14.52	0.45	4395	26.61	11.98	0.45	4561
	75	64	39.65	28.95	0.73	3217	39.26	28.66	0.73	3247	38.83	28.35	0.73	3276	38.34	27.98	0.73	3303	37.96	27.71	0.73	3319	37.54	27.41	0.73	3429	37.02	27.03	0.73	3580	36.37	26.55	0.73	3822	35.52	25.93	0.73	3998	34.48	25.17	0.73	4148	31.72	23.16	0.73	4355	31.41	22.93	0.73	4399	25.91	18.91	0.73	4567
	75	68	40.87	24.93	0.61	3242	40.46	24.68	0.61	3271	40.02	24.41	0.61	3300	39.51	24.10	0.61	3327	39.12	23.86	0.61	3344	38.69	23.60	0.61	3454	38.16	23.28	0.61	3604	37.48	22.86	0.61	3846	36.60	22.33	0.61	4022	35.54	21.68	0.61	4172	32.70	19.94	0.61	4380	32.37	19.74	0.61	4423	26.70	16.29	0.61	4591
	75	72	41.56	20.37	0.49	3258	41.15	20.16	0.49	3287	40.70	19.94	0.49	3317	40.18	19.69	0.49	3343	39.78	19.49	0.49	3360	39.35	19.28	0.49	3470	38.81	19.02	0.49	3621	38.12	18.68	0.49	3862	37.23	18.24	0.49	4039	36.14	17.71	0.49	4188	33.25	16.29	0.49	4396	32.92	16.13	0.49	4440	27.16	13.31	0.49	4607
	75	75	42.14	15.59	0.37	3277	41.73	15.44	0.37	3307	41.27	15.27	0.37	3336	40.74	15.07	0.37	3363	40.34	14.93	0.37	3380	39.90	14.76	0.37	3490	39.35	14.56	0.37	3640	38.65	14.30	0.37	3882	37.75	13.97	0.37	4058	36.65	13.56	0.37	4208	33.72	12.48	0.37	4416	33.38	12.35	0.37	4459	27.54	10.19	0.37	4627
	77	64	40.88	31.48	0.77	3250	40.48	31.17	0.77	3279	40.03	30.83	0.77	3309	39.52	30.43	0.77	3336	39.13	30.13	0.77	3353	38.70	29.80	0.77	3464	38.17	29.39	0.77	3616	37.49	28.87	0.77	3860	36.62	28.19	0.77	4038	35.55	27.37	0.77	4189	32.71	25.18	0.77	4399	32.38	24.93	0.77	4443	26.71	20.57	0.77	4613
	77	68	42.13	27.39	0.65	3274	41.71	27.11	0.65	3304	41.26	26.82	0.65	3334	40.73	26.48	0.65	3361	40.33	26.21	0.65	3377	39.89	25.93	0.65	3489	39.34	25.57	0.65	3641	38.64	25.12	0.65	3885	37.74	24.53	0.65	4063	36.64	23.81	0.65	4214	33.71	21.91	0.65	4424	33.37	21.69	0.65	4468	27.53	17.89	0.65	4637
	77	72	42.85	22.71	0.53	3291	42.42	22.48	0.53	3321	41.96	22.24	0.53	3350	41.42	21.95	0.53	3377	41.01	21.74	0.53	3394	40.57	21.50	0.53	3505	40.01	21.20	0.53	3658	39.30	20.83	0.53	3901	38.38	20.34	0.53	4079	37.26	19.75	0.53	4231	34.28	18.17	0.53	4441	33.94	17.99	0.53	4485	28.00	14.84	0.53	4654
	77	75	43.45	17.81	0.41	3311	43.02	17.64	0.41	3340	42.55	17.45	0.41	3370	42.00	17.22	0.41	3401	41.59	17.05	0.41	3414	41.13	16.87	0.41	3525	40.57	16.63	0.41	3677	39.85	16.34	0.41	3921	38.92	15.96	0.41	4099	37.78	15.49	0.41	4251	34.76	14.25	0.41	4460	34.41	14.11	0.41	4504	28.39	11.64	0.41	4673
	79	64	42.14	34.14	0.81	3283	41.73	33.80	0.81	3313	41.27	33.43	0.81	3343	40.74	33.00	0.81	3370	40.34	32.68	0.81	3387	39.90	32.32	0.81	3499	39.35	31.87	0.81	3653	38.65	31.31	0.81	3899	37.75	30.58	0.81	4079	36.65	29.69	0.81	4232	33.72	27.31	0.81	4444	33.38	27.04	0.81	4488	27.54	22.31	0.81	4659
	79	68	43.43	29.97	0.69	3307	43.00	29.67	0.69	3337	42.54	29.35	0.69	3367	41.99	28.97	0.69	3395	41.57	28.69	0.69	3411	41.12	28.37	0.69	3524	40.55	27.98	0.69	3678	39.84	27.49	0.69	3924	38.90	26.84	0.69	4104	37.77	26.06	0.69	4257	34.75	23.98	0.69	4469	34.40	23.74	0.69	4513	28.38	19.58	0.69	4684
	79	72	44.17	25.18	0.57	3324	43.74	24.93	0.57	3354	43.26	24.66	0.57	3384	42.70	24.34	0.57	3411	42.28	24.10	0.57	3428	41.82	23.84	0.57	3541	41.24	23.51	0.57	3694	40.51	23.09	0.57	3941	39.57	22.55	0.57	4121	38.41	21.90	0.57	4273	35.34	20.14	0.57	4485	34.99	19.94	0.57	4530	28.86	16.45	0.57	4701
	79	75	44.79	20.16	0.45	3344	44.35	19.96	0.45	3374	43.87	19.74	0.45	3404	43.30	19.49	0.45	3431	42.87	19.29	0.45	3448	42.41	19.08	0.45	3560	41.82	18.82	0.45	3714	41.08	18.49	0.45	3961	40.12	18.05	0.45	4140	38.95	17.53	0.45	4293	35.83	16.13	0.45	4505	35.48	15.96	0.45	4550	29.27	13.17	0.45	4721
	79	79	45.51	15.02	0.33	3367	45.06	14.87	0.33	3397	44.57	14.71	0.33	3427	44.00	14.52	0.33	3454	43.56	14.37	0.33	3471	43.09	14.22	0.33	3583	42.49	14.02	0.33	3737	41.74	13.77	0.33	3983	40.76	13.45	0.33	4163	39.57	13.06	0.33	4316	36.41	12.01	0.33	4528	36.04	11.89	0.33	4573	29.74	9.81	0.33	4743
	81	64	43.00	36.65	0.85	3316	42.58	36.19	0.85	3346	42.12	35.80	0.85	3376	41.57	35.34	0.85	3404	41.16	34.99	0.85	3421	40.72	34.61	0.85	3534	40.15	34.13	0.85	3690	39.44	33.53	0.85	3939	38.52	32.74	0.85	4120	37.40	31.79	0.85	4275	34.41	29.24	0.85	4489	34.06	28.95	0.85	4534	28.10	23.89	0.85	4706
	81	66	43.88	34.67	0.79	3326	43.45	34.32	0.79	3356	42.97	33.95	0.79	3386	42.42	33.51	0.79	3414	42.00	33.18	0.79	3431	41.55	32.82	0.79	3544	40.97	32.37	0.79	3700	40.25	31.80	0.79	3949	39.30	31.05	0.79	4130	38.16	30.15	0.79	4285	35.11	27.73	0.79	4499	34.76	27.46	0.79	4544	28.62	22.65	0.79	4716
	81	68	44.32	32.35	0.73	3341																																																

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 36K(Cooling up to 4 indoor units series)

	Cooling Operation PERFORMANCE DATA																	
	OUTDOOR DB (°F)																	
COMBINATION (%)	IDDB (°F)	IDWB (°F)	115				120				122				126			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT
130%	70	64	23.41	14.28	0.61	4462	20.84	12.71	0.61	4551	20.00	12.20	0.61	4597	19.00	11.59	0.61	4689
	70	68	24.38	11.95	0.49	4486	21.70	10.63	0.49	4575	20.83	10.21	0.49	4621	19.79	9.70	0.49	4713
	72	64	24.14	15.69	0.65	4507	21.48	13.96	0.65	4597	20.62	13.41	0.65	4644	19.59	12.74	0.65	4737
	72	68	24.88	13.18	0.53	4531	22.14	11.73	0.53	4621	21.26	11.27	0.53	4667	20.19	10.70	0.53	4760
	72	72	25.30	10.37	0.41	4547	22.52	9.23	0.41	4637	21.62	8.86	0.41	4683	20.54	8.42	0.41	4777
	73	64	24.63	17.00	0.69	4553	21.92	15.13	0.69	4644	21.04	14.52	0.69	4690	19.99	13.79	0.69	4784
	73	68	25.38	14.47	0.57	4577	22.59	12.88	0.57	4668	21.69	12.36	0.57	4714	20.60	11.74	0.57	4808
	73	72	25.82	11.62	0.45	4593	22.98	10.34	0.45	4684	22.06	9.93	0.45	4731	20.95	9.43	0.45	4825
	75	64	25.13	18.35	0.73	4599	22.37	16.33	0.73	4691	21.47	15.68	0.73	4738	20.40	14.89	0.73	4833
	75	68	25.90	15.80	0.61	4623	23.05	14.06	0.61	4715	22.13	13.50	0.61	4762	21.02	12.83	0.61	4857
	75	72	26.34	12.91	0.49	4639	23.45	11.49	0.49	4732	22.51	11.03	0.49	4779	21.38	10.48	0.49	4873
	75	75	26.71	9.88	0.37	4659	23.77	8.80	0.37	4751	22.82	8.44	0.37	4798	21.68	8.02	0.37	4893
	77	64	25.91	19.95	0.77	4645	23.06	17.76	0.77	4738	22.14	17.05	0.77	4786	21.03	16.19	0.77	4882
	77	68	26.70	17.36	0.65	4670	23.77	15.45	0.65	4763	22.82	14.83	0.65	4810	21.68	14.09	0.65	4906
	77	72	27.16	14.39	0.53	4686	24.17	12.81	0.53	4779	23.20	12.30	0.53	4827	22.04	11.68	0.53	4923
	77	75	27.54	11.29	0.41	4706	24.51	10.05	0.41	4799	23.53	9.65	0.41	4846	22.35	9.16	0.41	4942
	79	64	26.71	21.64	0.81	4692	23.77	19.26	0.81	4786	22.82	18.49	0.81	4834	21.68	17.56	0.81	4931
	79	68	27.53	19.00	0.69	4717	24.50	16.91	0.69	4811	23.52	16.23	0.69	4859	22.35	15.42	0.69	4956
	79	72	28.00	15.96	0.57	4734	24.92	14.20	0.57	4828	23.92	13.64	0.57	4876	22.73	12.95	0.57	4972
	79	75	28.39	12.78	0.45	4753	25.27	11.37	0.45	4847	24.26	10.92	0.45	4895	23.04	10.37	0.45	4992
	79	79	28.84	9.52	0.33	4776	25.67	8.47	0.33	4870	24.64	8.13	0.33	4918	23.41	7.73	0.33	5015
	81	64	27.26	23.17	0.85	4739	24.26	20.62	0.85	4834	23.29	19.80	0.85	4883	22.12	18.81	0.85	4981
	81	66	27.81	21.97	0.79	4749	24.75	19.56	0.79	4844	23.76	18.77	0.79	4893	22.58	17.83	0.79	4991
	81	68	28.09	20.51	0.73	4764	25.00	18.25	0.73	4859	24.00	17.52	0.73	4908	22.80	16.65	0.73	5006
	81	72	28.57	17.43	0.61	4781	25.43	15.51	0.61	4876	24.41	14.89	0.61	4925	23.19	14.15	0.61	5023
	81	75	28.97	14.19	0.49	4801	25.78	12.63	0.49	4896	24.75	12.13	0.49	4945	23.51	11.52	0.49	5043
	81	79	29.43	10.89	0.37	4824	26.20	9.69	0.37	4919	25.15	9.30	0.37	4968	23.89	8.84	0.37	5066
	82	64	27.53	24.50	0.89	4787	24.50	21.81	0.89	4883	23.52	20.93	0.89	4932	22.35	19.89	0.89	5030
	82	68	28.09	21.63	0.77	4812	25.00	19.25	0.77	4908	24.00	18.48	0.77	4957	22.80	17.56	0.77	5056
	82	72	28.37	18.44	0.65	4829	25.25	16.41	0.65	4925	24.24	15.76	0.65	4974	23.03	14.97	0.65	5073
	82	75	28.85	15.29	0.53	4849	25.68	13.61	0.53	4945	24.65	13.07	0.53	4994	23.42	12.41	0.53	5093
	82	79	29.26	12.00	0.41	4873	26.04	10.68	0.41	4969	25.00	10.25	0.41	5017	23.75	9.74	0.41	5116
	84	64	27.81	25.30	0.91	4835	24.75	22.52	0.91	4932	23.76	21.62	0.91	4981	22.57	20.54	0.91	5081
	84	68	28.37	22.98	0.81	4860	25.25	20.45	0.81	4957	24.24	19.64	0.81	5006	23.03	18.65	0.81	5106
	84	72	28.94	19.97	0.69	4877	25.76	17.77	0.69	4974	24.73	17.06	0.69	5024	23.49	16.21	0.69	5124
	84	75	29.14	16.61	0.57	4898	25.94	14.78	0.57	4995	24.90	14.19	0.57	5044	23.66	13.48	0.57	5144
	84	79	29.55	13.30	0.45	4921	26.30	11.84	0.45	5018	25.25	11.36	0.45	5068	23.99	10.79	0.45	5167
	86	64	28.08	25.56	0.91	4883	24.99	22.74	0.91	4981	23.99	21.83	0.91	5031	22.79	20.74	0.91	5132
	86	68	28.66	24.36	0.85	4909	25.50	21.68	0.85	5007	24.48	20.81	0.85	5057	23.26	19.77	0.85	5157
	86	72	29.23	21.34	0.73	4926	26.01	18.99	0.73	5024	24.97	18.23	0.73	5074	23.72	17.32	0.73	5175
	86	75	29.43	17.96	0.61	4947	26.20	15.98	0.61	5045	25.15	15.34	0.61	5095	23.89	14.57	0.61	5195
	86	79	29.85	14.63	0.49	4971	26.56	13.02	0.49	5068	25.50	12.50	0.49	5118	24.23	11.87	0.49	5219
	88	64	28.36	25.81	0.91	4932	25.24	22.97	0.91	5031	24.23	22.05	0.91	5081	23.02	20.95	0.91	5183
	88	68	28.94	25.76	0.89	4958	25.76	22.93	0.89	5057	24.73	22.01	0.89	5107	23.49	20.91	0.89	5209
	88	72	29.52	22.73	0.77	4976	26.27	20.23	0.77	5074	25.22	19.42	0.77	5125	23.96	18.45	0.77	5227
	88	75	29.73	19.32	0.65	4996	26.46	17.20	0.65	5095	25.40	16.51	0.65	5146	24.13	15.68	0.65	5247
	88	79	30.15	15.98	0.53	5020	26.83	14.22	0.53	5119	25.76	13.65	0.53	5170	24.47	12.97	0.53	5271
	90	64	28.65	26.07	0.91	4981	25.50	23.20	0.91	5081	24.48	22.27	0.91	5132	23.25	21.16	0.91	5235
	90	68	29.23	26.60	0.91	5007	26.02	23.68	0.91	5107	24.98	22.73	0.91	5158	23.73	21.59	0.91	5261
	90	72	29.82	24.15	0.81	5025	26.54	21.50	0.81	5125	25.48	20.64	0.81	5176	24.20	19.60	0.81	5279
	90	75	30.03	20.72	0.69	5046	26.72	18.44	0.69	5146	25.65	17.70	0.69	5197	24.37	16.82	0.69	5300
	90	79	30.45	17.35	0.57	5070	27.10	15.45	0.57	5170	26.01	14.83	0.57	5221	24.71	14.09	0.57	5324

Capacities and Selection Data (Capacity Characteristics Charts) 36K(Cooling up to 4 indoor units series)

		Cooling Operation PERFORMANCE DATA																																																				
		OUTDOOR DB (°F)																																																				
COMBINATION (%)	IDDB (°F)	ID WB (°F)	5				19				32				50				59				70				77				81				86				95				102				104				113			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT				
120%	70	64	36.59	22.32	0.61	3092	36.23	22.10	0.61	3120	35.84	21.86	0.61	3148	35.38	21.58	0.61	3174	35.03	21.37	0.61	3190	34.64	21.13	0.61	3296	34.17	20.84	0.61	3441	33.56	20.47	0.61	3672	32.78	19.99	0.61	3842	31.82	19.41	0.61	3986	29.28	17.86	0.61	4186	28.98	17.68	0.61	4227	23.91	14.59	0.61	4388
	70	68	38.10	18.67	0.49	3115	37.72	18.48	0.49	3144	37.31	18.28	0.49	3172	36.83	18.05	0.49	3197	36.47	17.87	0.49	3213	36.07	17.68	0.49	3319	35.58	17.43	0.49	3464	34.95	17.12	0.49	3696	34.13	16.72	0.49	3865	33.13	16.24	0.49	4009	30.48	14.94	0.49	4209	30.18	14.79	0.49	4251	24.90	12.20	0.49	4412
	72	64	37.72	24.52	0.65	3123	37.35	24.28	0.65	3151	36.94	24.01	0.65	3180	36.47	23.71	0.65	3206	36.11	23.47	0.65	3222	35.72	23.22	0.65	3329	35.22	22.89	0.65	3475	34.60	22.49	0.65	3710	33.79	21.96	0.65	3881	32.80	21.32	0.65	4026	30.18	19.62	0.65	4228	29.88	19.42	0.65	4270	24.65	16.02	0.65	4433
	72	68	38.88	20.61	0.53	3147	38.49	20.40	0.53	3175	38.07	20.18	0.53	3204	37.59	19.92	0.53	3230	37.21	19.72	0.53	3246	36.81	19.51	0.53	3353	36.30	19.24	0.53	3499	35.66	18.90	0.53	3733	34.82	18.46	0.53	3905	33.81	17.92	0.53	4050	31.10	16.49	0.53	4252	30.79	16.32	0.53	4294	25.40	13.46	0.53	4457
	72	72	39.54	16.21	0.41	3163	39.15	16.05	0.41	3191	38.72	15.88	0.41	3220	38.23	15.67	0.41	3246	37.85	15.52	0.41	3262	37.44	15.35	0.41	3369	36.92	15.14	0.41	3515	36.27	14.87	0.41	3750	35.42	14.52	0.41	3921	34.38	14.10	0.41	4066	31.63	12.97	0.41	4268	31.32	12.84	0.41	4310	25.84	10.59	0.41	4473
	73	64	38.49	26.56	0.69	3155	38.11	26.30	0.69	3183	37.70	26.01	0.69	3212	37.21	25.68	0.69	3238	36.85	25.42	0.69	3255	36.44	25.15	0.69	3363	35.94	24.80	0.69	3510	35.31	24.36	0.69	3747	34.48	23.79	0.69	3920	33.47	23.10	0.69	4067	30.80	21.25	0.69	4270	30.49	21.04	0.69	4313	25.15	17.36	0.69	4478
	73	68	39.67	22.61	0.57	3179	39.28	22.39	0.57	3207	38.85	22.15	0.57	3236	38.35	21.86	0.57	3262	37.97	21.65	0.57	3279	37.56	21.41	0.57	3387	37.04	21.11	0.57	3534	36.39	20.74	0.57	3771	35.53	20.25	0.57	3944	34.50	19.66	0.57	4091	31.74	18.09	0.57	4295	31.42	17.91	0.57	4337	25.92	14.78	0.57	4502
	73	72	40.35	18.16	0.45	3195	39.95	17.98	0.45	3224	39.51	17.78	0.45	3253	39.01	17.55	0.45	3279	38.62	17.38	0.45	3295	38.20	17.19	0.45	3403	37.67	16.95	0.45	3551	37.01	16.65	0.45	3787	36.14	16.26	0.45	3960	35.09	15.79	0.45	4107	32.28	14.53	0.45	4311	31.96	14.38	0.45	4354	26.36	11.86	0.45	4518
	75	64	39.28	28.67	0.73	3186	38.89	28.39	0.73	3215	38.47	28.08	0.73	3245	37.97	27.72	0.73	3271	37.60	27.45	0.73	3287	37.19	27.15	0.73	3393	36.68	26.77	0.73	3546	36.03	26.30	0.73	3785	35.18	25.68	0.73	3960	34.16	24.94	0.73	4108	31.42	22.94	0.73	4314	31.11	22.71	0.73	4357	25.67	18.74	0.73	4523
	75	68	40.48	24.69	0.61	3211	40.08	24.45	0.61	3240	39.64	24.18	0.61	3269	39.14	23.87	0.61	3295	38.75	23.64	0.61	3312	38.33	23.38	0.61	3421	37.80	23.06	0.61	3570	37.13	22.65	0.61	3809	36.26	22.12	0.61	3984	35.20	21.47	0.61	4132	32.39	19.76	0.61	4338	32.06	19.56	0.61	4381	26.45	16.14	0.61	4547
	75	72	41.17	20.17	0.49	3227	40.76	19.97	0.49	3256	40.32	19.76	0.49	3286	39.80	19.50	0.49	3312	39.41	19.31	0.49	3328	38.98	19.10	0.49	3437	38.44	18.84	0.49	3587	37.76	18.50	0.49	3826	36.88	18.07	0.49	4000	35.80	17.54	0.49	4149	32.94	16.14	0.49	4354	32.61	15.98	0.49	4398	26.90	13.18	0.49	4564
	75	75	41.75	15.45	0.37	3247	41.33	15.29	0.37	3276	40.88	15.13	0.37	3305	40.36	14.93	0.37	3331	39.96	14.78	0.37	3348	39.52	14.62	0.37	3457	38.98	14.42	0.37	3606	38.29	14.17	0.37	3845	37.39	13.84	0.37	4020	36.30	13.43	0.37	4168	33.40	12.36	0.37	4374	33.06	12.23	0.37	4417	27.28	10.09	0.37	4583
	77	64	40.49	31.18	0.77	3219	40.09	30.87	0.77	3248	39.66	30.54	0.77	3278	39.15	30.14	0.77	3304	38.76	29.85	0.77	3321	38.34	29.52	0.77	3431	37.81	29.11	0.77	3582	37.14	28.60	0.77	3823	36.27	27.93	0.77	4000	35.21	27.11	0.77	4149	32.40	24.95	0.77	4357	32.07	24.70	0.77	4401	26.46	20.37	0.77	4568
	77	68	41.73	27.13	0.65	3243	41.32	26.86	0.65	3272	40.87	26.57	0.65	3302	40.35	26.23	0.65	3329	39.95	25.97	0.65	3345	39.51	25.68	0.65	3455	38.97	25.33	0.65	3606	38.28	24.88	0.65	3848	37.38	24.30	0.65	4024	36.29	23.59	0.65	4174	33.39	21.70	0.65	4382	33.05	21.49	0.65	4425	27.27	17.73	0.65	4593
	77	72	42.44	22.49	0.53	3260	42.02	22.27	0.53	3289	41.57	22.03	0.53	3319	41.03	21.75	0.53	3345	40.63	21.53	0.53	3362	40.18	21.30	0.53	3472	39.63	21.00	0.53	3623	38.93	20.63	0.53	3864	38.02	20.15	0.53	4041	36.91	19.56	0.53	4190	33.96	18.00	0.53	4398	33.62	17.82	0.53	4442	27.73	14.70	0.53	4610
	77	75	43.04	17.65	0.41	3309	42.61	17.47	0.41	3339	42.15	17.28	0.41	3368	41.61	17.06	0.41	3395	41.19	16.89	0.41	3421	40.75	16.71	0.41	3492	40.18	16.48	0.41	3642	39.47	16.18	0.41	3884	38.55	15.80	0.41	4060	37.43	15.34	0.41	4210	34.34	14.12	0.41	4418	34.09	13.98	0.41	4461	28.12	11.53	0.41	4629
	79	64	41.75	33.81	0.81	3251	41.33	33.48	0.81	3281	40.88	33.12	0.81	3311	40.36	32.69	0.81	3337	39.96	32.37	0.81	3354	39.52	32.01	0.81	3465	38.98	31.57	0.81	3618	38.29	31.01	0.81	3862	37.39	30.29	0.81	4040	36.30	29.41	0.81	4191	33.40	27.05	0.81	4401	33.06	26.78	0.81	4445	27.28	22.10	0.81	4615
	79	68	43.02	29.69	0.69	3276	42.60	29.39	0.69	3306	42.14	29.07	0.69	3335	41.59	28.70	0.69	3362	41.18	28.42	0.69	3379	40.73	28.11	0.69	3490	40.17	27.72	0.69	3643	39.46	27.23	0.69	3886	38.54	26.59	0.69	4065	37.41	25.82	0.69	4216	34.42	23.75	0.69	4426	34.08	23.51	0.69	4470	28.11	19.40	0.69	4639
	79	72	43.76	24.94	0.57	3293	43.32	24.69	0.57	3322	42.85	24.43	0.57	3352	42.30	24.11	0.57	3379	41.88	23.87	0.57	3396	41.43	23.61	0.57	3507	40.85	23.29	0.57	3659	40.13	22.88	0.57	3903	39.19	22.34	0.57	4082	38.05	21.69	0.57	4233	35.01	19.95	0.57	4443	34.66	19.75	0.57	4487	28.59	16.30	0.57	4656
	79	75	44.37	19.97	0.45	3313	43.93	19.77	0.45	3342	43.45	19.55	0.45	3372	42.89	19.30	0.45	3399	42.47	19.11	0.45	3416	42.01	18.90	0.45	3527	41.43	18.64	0.45	3679	40.69	18.31	0.45	3923	39.74	17.88	0.45	4101	38.58	17.36	0.45	4253	35.50	15.97	0.45	4463	35.14	15.81	0.45	4507	28.99	13.05	0.45	4676
	79	79	45.08	14.88	0.33	3335	44.63	14.73	0.33	3365	44.15	14.57	0.33	3395	43.58	14.38	0.33	3422	43.15	14.24	0.33	3438	42.68	14.08	0.33	3550	42.09	13.89	0.33	3702	41.35	13.61	0.33	3946	40.38	13.32	0.33	4124	39.30	12.94	0.33	4275	36.06	11.90	0.33	4485	35.70	11.78	0.33	4529	29.46	9.72	0.33	4699
	81	64	42.60	36.21	0.85	3284	42.18	35.85	0.85	3314	41.72	35.46	0.85	3344	41.18	35.01	0.85	3371	40.77	34.66	0.85	3388	40.33	34.28	0.85	3500	39.77	33.81	0.85	3654	39.07	33.21	0.85	3901	38.16	32.43	0.85	4081	37.04	31.49	0.85	4234	34.08	28.97	0.85	4446	33.74	28.68	0.85	4490	27.84	23.66	0.85	4661
	81	66	43.47	34.34	0.79	3294	43.04	34.00	0.79	3324	42.57	33.63	0.79	3354	42.02	33.20	0.79	3381	41.61	32.87	0.79	3398	41.15	32.51	0.79	3510	40.59	32.06	0.79	3664	39.87	31.50	0.79	3911	38.93	30.76	0.79	4091	37.80	29.86	0.79	4244	34.78	27.47	0.79	4456	34.43	27.20	0.79	4500	28.40	22.44	0.79	4671
	81	68	43.90	32.05	0.73	3309																																																

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 36K(Cooling up to 4 indoor units series)

	Cooling Operation PERFORMANCE DATA																	
	OUTDOOR DB (°F)																	
COMBINATION (%)	IDDB (°F)	IDWB (°F)	115				120				122				126			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT
120%	70	64	23.19	14.15	0.61	4419	20.64	12.59	0.61	4508	19.82	12.09	0.61	4553	18.83	11.48	0.61	4644
	70	68	24.15	11.83	0.49	4443	21.49	10.53	0.49	4531	20.63	10.11	0.49	4577	19.60	9.60	0.49	4668
	72	64	23.91	15.54	0.65	4464	21.28	13.83	0.65	4553	20.43	13.28	0.65	4599	19.41	12.61	0.65	4691
	72	68	24.64	13.06	0.53	4488	21.93	11.62	0.53	4577	21.05	11.16	0.53	4623	20.00	10.60	0.53	4715
	72	72	25.06	10.28	0.41	4504	22.30	9.14	0.41	4593	21.41	8.78	0.41	4639	20.34	8.34	0.41	4731
	73	64	24.40	16.83	0.69	4509	21.71	14.98	0.69	4599	20.85	14.38	0.69	4645	19.80	13.66	0.69	4739
	73	68	25.15	14.33	0.57	4533	22.38	12.76	0.57	4623	21.48	12.25	0.57	4669	20.41	11.63	0.57	4763
	73	72	25.57	11.51	0.45	4549	22.76	10.24	0.45	4640	21.85	9.83	0.45	4686	20.76	9.34	0.45	4779
	75	64	24.90	18.17	0.73	4555	22.16	16.18	0.73	4646	21.27	15.53	0.73	4692	20.21	14.75	0.73	4786
	75	68	25.66	15.65	0.61	4579	22.84	13.93	0.61	4670	21.92	13.37	0.61	4717	20.83	12.70	0.61	4811
	75	72	26.09	12.79	0.49	4595	23.22	11.38	0.49	4687	22.30	10.92	0.49	4733	21.18	10.38	0.49	4827
	75	75	26.46	9.79	0.37	4615	23.55	8.71	0.37	4706	22.61	8.36	0.37	4753	21.48	7.95	0.37	4847
	77	64	25.67	19.76	0.77	4601	22.84	17.59	0.77	4693	21.93	16.89	0.77	4740	20.83	16.04	0.77	4835
	77	68	26.45	17.19	0.65	4625	23.54	15.30	0.65	4717	22.60	14.69	0.65	4764	21.47	13.96	0.65	4859
	77	72	26.90	14.26	0.53	4642	23.94	12.69	0.53	4734	22.98	12.18	0.53	4781	21.84	11.57	0.53	4876
	77	75	27.28	11.18	0.41	4661	24.28	9.95	0.41	4754	23.31	9.56	0.41	4801	22.14	9.08	0.41	4896
	79	64	26.46	21.43	0.81	4647	23.55	19.08	0.81	4740	22.61	18.31	0.81	4788	21.48	17.40	0.81	4884
	79	68	27.27	18.82	0.69	4672	24.27	16.75	0.69	4765	23.30	16.08	0.69	4812	22.13	15.27	0.69	4908
	79	72	27.73	15.81	0.57	4689	24.68	14.07	0.57	4782	23.70	13.51	0.57	4829	22.51	12.83	0.57	4925
	79	75	28.12	12.65	0.45	4708	25.03	11.26	0.45	4802	24.03	10.81	0.45	4849	22.83	10.27	0.45	4945
	79	79	28.57	9.43	0.33	4731	25.43	8.39	0.33	4824	24.41	8.06	0.33	4872	23.19	7.65	0.33	4968
	81	64	27.00	22.95	0.85	4694	24.03	20.43	0.85	4788	23.07	19.61	0.85	4836	21.92	18.63	0.85	4933
	81	66	27.55	21.77	0.79	4704	24.52	19.37	0.79	4798	23.54	18.60	0.79	4846	22.36	17.67	0.79	4943
	81	68	27.83	20.31	0.73	4719	24.77	18.08	0.73	4813	23.78	17.36	0.73	4861	22.59	16.49	0.73	4958
	81	72	28.30	17.26	0.61	4736	25.19	15.36	0.61	4830	24.18	14.75	0.61	4878	22.97	14.01	0.61	4975
	81	75	28.70	14.06	0.49	4756	25.54	12.51	0.49	4850	24.52	12.01	0.49	4898	23.29	11.41	0.49	4995
	81	79	29.16	10.79	0.37	4779	25.95	9.60	0.37	4873	24.91	9.22	0.37	4921	23.66	8.76	0.37	5018
	82	64	27.27	24.27	0.89	4741	24.27	21.60	0.89	4836	23.30	20.74	0.89	4884	22.13	19.70	0.89	4982
	82	68	27.83	21.43	0.77	4766	24.77	19.07	0.77	4861	23.78	18.31	0.77	4910	22.59	17.39	0.77	5007
	82	72	28.10	18.27	0.65	4783	25.01	16.26	0.65	4878	24.01	15.61	0.65	4927	22.81	14.83	0.65	5025
	82	75	28.58	15.15	0.53	4803	25.44	13.48	0.53	4899	24.42	12.94	0.53	4947	23.20	12.30	0.53	5045
	82	79	28.98	11.88	0.41	4827	25.79	10.58	0.41	4922	24.76	10.15	0.41	4970	23.52	9.65	0.41	5068
	84	64	27.54	25.06	0.91	4788	24.51	22.31	0.91	4884	23.53	21.41	0.91	4933	22.36	20.34	0.91	5032
	84	68	28.10	22.77	0.81	4814	25.01	20.26	0.81	4910	24.01	19.45	0.81	4959	22.81	18.48	0.81	5058
	84	72	28.67	19.78	0.69	4831	25.51	17.60	0.69	4927	24.49	16.90	0.69	4976	23.27	16.06	0.69	5075
	84	75	28.87	16.46	0.57	4852	25.69	14.65	0.57	4948	24.67	14.06	0.57	4996	23.43	13.36	0.57	5095
	84	79	29.27	13.17	0.45	4875	26.05	11.72	0.45	4971	25.01	11.25	0.45	5020	23.76	10.69	0.45	5119
	86	64	27.82	25.31	0.91	4836	24.76	22.53	0.91	4933	23.77	21.63	0.91	4983	22.58	20.55	0.91	5082
	86	68	28.39	24.13	0.85	4862	25.26	21.47	0.85	4959	24.25	20.62	0.85	5008	23.04	19.58	0.85	5108
	86	72	28.95	21.14	0.73	4879	25.77	18.81	0.73	4976	24.74	18.06	0.73	5026	23.50	17.16	0.73	5126
	86	75	29.16	17.79	0.61	4900	25.95	15.83	0.61	4997	24.91	15.20	0.61	5046	23.67	14.44	0.61	5146
	86	79	29.57	14.49	0.49	4924	26.31	12.89	0.49	5021	25.26	12.38	0.49	5070	24.00	11.76	0.49	5170
	88	64	28.10	25.57	0.91	4885	25.01	22.76	0.91	4982	24.01	21.85	0.91	5032	22.81	20.75	0.91	5133
	88	68	28.67	25.52	0.89	4911	25.52	22.71	0.89	5008	24.50	21.80	0.89	5058	23.27	20.71	0.89	5159
	88	72	29.24	22.52	0.77	4928	26.03	20.04	0.77	5026	24.99	19.24	0.77	5076	23.74	18.28	0.77	5177
	88	75	29.45	19.14	0.65	4949	26.21	17.04	0.65	5047	25.16	16.35	0.65	5097	23.90	15.54	0.65	5198
	88	79	29.86	15.83	0.53	4973	26.58	14.09	0.53	5071	25.51	13.52	0.53	5121	24.24	12.85	0.53	5222
	90	64	28.38	25.82	0.91	4933	25.26	22.98	0.91	5032	24.25	22.06	0.91	5083	23.03	20.96	0.91	5185
	90	68	28.96	26.35	0.91	4960	25.77	23.45	0.91	5059	24.74	22.51	0.91	5109	23.50	21.39	0.91	5211
	90	72	29.54	23.92	0.81	4978	26.29	21.29	0.81	5076	25.24	20.44	0.81	5127	23.97	19.42	0.81	5229
	90	75	29.74	20.52	0.69	4999	26.47	18.27	0.69	5097	25.41	17.53	0.69	5148	24.14	16.66	0.69	5250
	90	79	30.16	17.19	0.57	5023	26.84	15.30	0.57	5122	25.77	14.69	0.57	5172	24.48	13.95	0.57	5274

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 36K(Cooling up to 4 indoor units series)

			Cooling Operation PERFORMANCE DATA																																																			
			OUTDOOR DB (°F)																																																			
COMBINATION (%)	IDDB (°F)	ID WB (°F)	5				19				32				50				59				70				77				81				86				95				102				104				113			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT								
110%	70	64	35.90	21.90	0.61	3062	35.54	21.68	0.61	3090	35.15	21.44	0.61	3118	34.70	21.17	0.61	3143	34.36	20.96	0.61	3159	33.98	20.73	0.61	3264	33.52	20.44	0.61	3407	32.92	20.08	0.61	3637	32.15	19.61	0.61	3805	31.21	19.04	0.61	3947	29.03	17.71	0.61	4145	28.74	17.53	0.61	4187	23.71	14.46	0.61	4346
	70	68	37.38	18.31	0.49	3085	37.01	18.13	0.49	3113	36.60	17.94	0.49	3141	36.13	17.71	0.49	3167	35.78	17.53	0.49	3182	35.39	17.34	0.49	3287	34.90	17.10	0.49	3431	34.28	16.80	0.49	3660	33.48	16.40	0.49	3828	32.50	15.93	0.49	3971	30.23	14.81	0.49	4169	29.92	14.66	0.49	4210	24.69	12.10	0.49	4370
	72	64	37.01	24.05	0.65	3093	36.64	23.82	0.65	3121	36.24	23.56	0.65	3149	35.78	23.25	0.65	3175	35.42	23.02	0.65	3191	35.04	22.77	0.65	3297	34.55	22.46	0.65	3442	33.94	22.06	0.65	3674	33.15	21.54	0.65	3843	32.18	20.92	0.65	3987	29.93	19.45	0.65	4187	29.63	19.26	0.65	4229	24.44	15.89	0.65	4390
	72	68	38.14	20.21	0.53	3117	37.76	20.01	0.53	3145	37.35	19.80	0.53	3173	36.87	19.54	0.53	3199	36.51	19.35	0.53	3215	36.11	19.14	0.53	3320	35.61	18.87	0.53	3465	34.98	18.54	0.53	3697	34.16	18.10	0.53	3867	33.17	17.58	0.53	4011	30.84	16.35	0.53	4211	30.54	16.18	0.53	4253	25.19	13.35	0.53	4414
	72	72	38.79	15.90	0.41	3133	38.40	15.75	0.41	3161	37.98	15.57	0.41	3189	37.50	15.37	0.41	3215	37.13	15.22	0.41	3231	36.72	15.06	0.41	3337	36.22	14.85	0.41	3482	35.57	14.59	0.41	3714	34.74	14.24	0.41	3883	33.73	13.83	0.41	4027	31.37	12.86	0.41	4227	31.05	12.73	0.41	4269	25.62	10.50	0.41	4430
	73	64	37.76	26.05	0.69	3124	37.39	25.80	0.69	3152	36.98	25.52	0.69	3181	36.51	25.19	0.69	3207	36.14	24.94	0.69	3223	35.75	24.67	0.69	3330	35.26	24.33	0.69	3476	34.63	23.90	0.69	3711	33.82	23.34	0.69	3882	32.84	22.66	0.69	4027	30.54	21.07	0.69	4229	30.23	20.86	0.69	4272	24.94	17.21	0.69	4434
	73	68	38.92	22.18	0.57	3148	38.53	21.96	0.57	3176	38.11	21.72	0.57	3205	37.62	21.45	0.57	3231	37.25	21.23	0.57	3247	36.85	21.00	0.57	3354	36.34	20.71	0.57	3500	35.69	20.35	0.57	3735	34.86	19.87	0.57	3906	33.84	19.29	0.57	4051	31.47	17.94	0.57	4253	31.16	17.76	0.57	4296	25.71	14.65	0.57	4458
	73	72	39.58	17.81	0.45	3164	39.19	17.63	0.45	3193	38.76	17.44	0.45	3222	38.26	17.22	0.45	3247	37.88	17.05	0.45	3263	37.47	16.86	0.45	3370	36.95	16.63	0.45	3517	36.30	16.34	0.45	3751	35.45	15.95	0.45	3922	34.42	15.49	0.45	4068	32.01	14.40	0.45	4269	31.69	14.26	0.45	4312	26.14	11.76	0.45	4475
	75	64	38.53	28.13	0.73	3156	38.15	27.85	0.73	3184	37.73	27.55	0.73	3213	37.25	27.19	0.73	3239	36.88	26.92	0.73	3256	36.48	26.63	0.73	3364	35.98	26.26	0.73	3511	35.34	25.80	0.73	3748	34.51	25.19	0.73	3921	33.51	24.46	0.73	4068	31.16	22.75	0.73	4272	30.85	22.52	0.73	4315	25.45	18.58	0.73	4479
	75	68	39.71	24.22	0.61	3180	39.32	23.98	0.61	3209	38.89	23.72	0.61	3238	38.39	23.42	0.61	3264	38.01	23.19	0.61	3280	37.60	22.93	0.61	3388	37.08	22.62	0.61	3536	36.42	22.22	0.61	3772	35.57	21.70	0.61	3945	34.53	21.06	0.61	4092	32.12	19.59	0.61	4296	31.79	19.39	0.61	4339	26.23	16.00	0.61	4503
	75	72	40.39	19.79	0.49	3196	39.99	19.59	0.49	3225	39.55	19.38	0.49	3254	39.04	19.13	0.49	3280	38.66	18.94	0.49	3296	38.24	18.74	0.49	3404	37.71	18.48	0.49	3552	37.04	18.15	0.49	3789	36.17	17.72	0.49	3962	35.12	17.21	0.49	4109	32.66	16.00	0.49	4313	32.33	15.84	0.49	4355	26.68	13.07	0.49	4520
	75	75	40.95	15.15	0.37	3216	40.55	15.00	0.37	3244	40.10	14.84	0.37	3273	39.59	14.65	0.37	3299	39.20	14.50	0.37	3316	38.77	14.35	0.37	3424	38.24	14.15	0.37	3572	37.56	13.90	0.37	3808	36.68	13.57	0.37	3981	35.61	13.18	0.37	4128	33.12	12.25	0.37	4332	32.79	12.13	0.37	4375	27.05	10.01	0.37	4539
	77	64	39.72	30.59	0.77	3187	39.33	30.28	0.77	3216	38.90	29.95	0.77	3246	38.40	29.57	0.77	3272	38.02	29.28	0.77	3289	37.61	28.96	0.77	3398	37.09	28.56	0.77	3547	36.43	28.05	0.77	3786	35.58	27.40	0.77	3961	34.54	26.60	0.77	4109	32.13	24.74	0.77	4315	31.80	24.49	0.77	4358	26.24	20.20	0.77	4524
	77	68	40.94	26.61	0.65	3212	40.53	26.35	0.65	3241	40.09	26.06	0.65	3270	39.58	25.73	0.65	3297	39.19	25.47	0.65	3313	38.76	25.19	0.65	3422	38.22	24.85	0.65	3571	37.55	24.41	0.65	3811	36.67	23.83	0.65	3985	35.60	23.14	0.65	4134	33.11	21.52	0.65	4340	32.78	21.31	0.65	4383	27.04	17.58	0.65	4549
	77	72	41.63	22.07	0.53	3229	41.22	21.85	0.53	3258	40.77	21.61	0.53	3287	40.25	21.33	0.53	3313	39.85	21.12	0.53	3330	39.42	20.89	0.53	3439	38.87	20.60	0.53	3588	38.19	20.24	0.53	3827	37.29	19.76	0.53	4002	36.21	19.19	0.53	4150	33.67	17.85	0.53	4356	33.33	17.67	0.53	4399	27.50	14.58	0.53	4565
	77	75	42.22	17.31	0.41	3248	41.80	17.14	0.41	3277	41.34	16.95	0.41	3307	40.81	16.73	0.41	3333	40.41	16.57	0.41	3349	39.97	16.39	0.41	3458	39.42	16.16	0.41	3608	38.72	15.88	0.41	3847	37.81	15.50	0.41	4022	36.71	15.05	0.41	4170	34.14	14.00	0.41	4376	33.80	13.86	0.41	4419	27.89	11.43	0.41	4585
	79	64	40.95	33.17	0.81	3220	40.55	32.84	0.81	3249	40.10	32.48	0.81	3279	39.59	32.07	0.81	3305	39.20	31.75	0.81	3322	38.77	31.41	0.81	3432	38.24	30.97	0.81	3583	37.56	30.42	0.81	3824	36.68	29.71	0.81	4001	35.61	28.85	0.81	4151	33.12	26.83	0.81	4359	32.79	26.56	0.81	4402	27.05	21.91	0.81	4570
	79	68	42.21	29.12	0.69	3244	41.79	28.83	0.69	3274	41.33	28.52	0.69	3303	40.80	28.15	0.69	3330	40.40	27.87	0.69	3346	39.96	27.57	0.69	3457	39.41	27.19	0.69	3608	38.71	26.71	0.69	3849	37.80	26.08	0.69	4026	36.70	25.32	0.69	4175	34.13	23.55	0.69	4383	33.79							

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 36K(Cooling up to 4 indoor units series)

	Cooling Operation PERFORMANCE DATA																	
	OUTDOOR DB (°F)																	
COMBINATION (%)	IDDB (°F)	IDWB (°F)	115				120				122				126			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT
110%	70	64	23.00	14.03	0.61	4376	20.47	12.49	0.61	4464	19.65	11.99	0.61	4509	18.67	11.39	0.61	4599
	70	68	23.95	11.73	0.49	4400	21.31	10.44	0.49	4488	20.46	10.03	0.49	4532	19.44	9.52	0.49	4623
	72	64	23.71	15.41	0.65	4421	21.10	13.72	0.65	4509	20.26	13.17	0.65	4554	19.24	12.51	0.65	4646
	72	68	24.44	12.95	0.53	4444	21.75	11.53	0.53	4533	20.88	11.07	0.53	4578	19.83	10.51	0.53	4670
	72	72	24.85	10.19	0.41	4461	22.12	9.07	0.41	4549	21.23	8.71	0.41	4594	20.17	8.27	0.41	4686
	73	64	24.19	16.69	0.69	4465	21.53	14.86	0.69	4555	20.67	14.26	0.69	4600	19.64	13.55	0.69	4693
	73	68	24.93	14.21	0.57	4489	22.19	12.65	0.57	4579	21.30	12.14	0.57	4624	20.24	11.54	0.57	4717
	73	72	25.36	11.41	0.45	4506	22.57	10.16	0.45	4595	21.67	9.75	0.45	4641	20.58	9.26	0.45	4733
	75	64	24.69	18.02	0.73	4510	21.97	16.04	0.73	4601	21.09	15.40	0.73	4647	20.04	14.63	0.73	4740
	75	68	25.44	15.52	0.61	4535	22.64	13.81	0.61	4625	21.74	13.26	0.61	4671	20.65	12.60	0.61	4764
	75	72	25.88	12.68	0.49	4551	23.03	11.28	0.49	4642	22.11	10.83	0.49	4688	21.00	10.29	0.49	4781
	75	75	26.24	9.71	0.37	4571	23.35	8.64	0.37	4661	22.42	8.29	0.37	4707	21.30	7.88	0.37	4800
	77	64	25.45	19.60	0.77	4556	22.65	17.44	0.77	4647	21.75	16.74	0.77	4694	20.66	15.91	0.77	4788
	77	68	26.23	17.05	0.65	4580	23.34	15.17	0.65	4672	22.41	14.57	0.65	4718	21.29	13.84	0.65	4812
	77	72	26.68	14.14	0.53	4597	23.74	12.58	0.53	4688	22.79	12.08	0.53	4735	21.65	11.48	0.53	4829
	77	75	27.05	11.09	0.41	4617	24.07	9.87	0.41	4708	23.11	9.48	0.41	4755	21.96	9.00	0.41	4849
	79	64	26.24	21.25	0.81	4602	23.35	18.92	0.81	4694	22.42	18.16	0.81	4741	21.30	17.25	0.81	4836
	79	68	27.04	18.66	0.69	4627	24.07	16.61	0.69	4719	23.10	15.94	0.69	4766	21.95	15.14	0.69	4861
	79	72	27.50	15.68	0.57	4644	24.48	13.95	0.57	4736	23.50	13.39	0.57	4783	22.32	12.72	0.57	4878
	79	75	27.89	12.55	0.45	4663	24.82	11.17	0.45	4756	23.83	10.72	0.45	4803	22.63	10.19	0.45	4898
	79	79	28.33	9.35	0.33	4686	25.22	8.32	0.33	4778	24.21	7.99	0.33	4825	23.00	7.59	0.33	4920
	81	64	26.77	22.76	0.85	4648	23.83	20.25	0.85	4742	22.88	19.44	0.85	4789	21.73	18.47	0.85	4885
	81	66	27.32	21.58	0.79	4658	24.31	19.21	0.79	4752	23.34	18.44	0.79	4799	22.18	17.52	0.79	4895
	81	68	27.59	20.14	0.73	4673	24.56	17.93	0.73	4767	23.58	17.21	0.73	4814	22.40	16.35	0.73	4910
	81	72	28.06	17.12	0.61	4690	24.98	15.24	0.61	4784	23.98	14.63	0.61	4831	22.78	13.89	0.61	4927
	81	75	28.46	13.94	0.49	4710	25.33	12.41	0.49	4804	24.31	11.91	0.49	4851	23.10	11.32	0.49	4947
	81	79	28.91	10.70	0.37	4733	25.73	9.52	0.37	4827	24.70	9.14	0.37	4874	23.47	8.68	0.37	4970
	82	64	27.04	24.07	0.89	4695	24.07	21.42	0.89	4789	23.10	20.56	0.89	4837	21.95	19.53	0.89	4934
	82	68	27.59	21.25	0.77	4720	24.56	18.91	0.77	4814	23.58	18.15	0.77	4862	22.40	17.25	0.77	4959
	82	72	27.87	18.12	0.65	4737	24.80	16.12	0.65	4831	23.81	15.48	0.65	4879	22.62	14.70	0.65	4976
	82	75	28.34	15.02	0.53	4758	25.23	13.37	0.53	4852	24.22	12.83	0.53	4900	23.01	12.19	0.53	4997
	82	79	28.74	11.78	0.41	4781	25.58	10.49	0.41	4875	24.56	10.07	0.41	4923	23.33	9.56	0.41	5020
	84	64	27.31	24.85	0.91	4742	24.31	22.12	0.91	4837	23.34	21.24	0.91	4885	22.17	20.17	0.91	4983
	84	68	27.87	22.57	0.81	4767	24.80	20.09	0.81	4862	23.81	19.29	0.81	4911	22.62	18.32	0.81	5009
	84	72	28.43	19.61	0.69	4785	25.30	17.46	0.69	4880	24.29	16.76	0.69	4928	23.07	15.92	0.69	5026
	84	75	28.63	16.32	0.57	4805	25.48	14.52	0.57	4900	24.46	13.94	0.57	4949	23.24	13.24	0.57	5047
	84	79	29.03	13.06	0.45	4829	25.83	11.63	0.45	4924	24.80	11.16	0.45	4972	23.56	10.60	0.45	5070
	86	64	27.59	25.10	0.91	4789	24.55	22.34	0.91	4885	23.57	21.45	0.91	4934	22.39	20.38	0.91	5033
	86	68	28.15	23.93	0.85	4815	25.05	21.29	0.85	4911	24.05	20.44	0.85	4960	22.85	19.42	0.85	5059
	86	72	28.71	20.96	0.73	4833	25.55	18.65	0.73	4929	24.53	17.91	0.73	4978	23.30	17.01	0.73	5076
	86	75	28.91	17.64	0.61	4853	25.73	15.70	0.61	4949	24.70	15.07	0.61	4998	23.47	14.32	0.61	5097
	86	79	29.32	14.37	0.49	4877	26.09	12.79	0.49	4973	25.05	12.27	0.49	5022	23.80	11.66	0.49	5121
	88	64	27.86	25.35	0.91	4837	24.80	22.56	0.91	4934	23.80	21.66	0.91	4984	22.61	20.58	0.91	5084
	88	68	28.43	25.30	0.89	4863	25.30	22.52	0.89	4960	24.29	21.62	0.89	5010	23.08	20.54	0.89	5110
	88	72	29.00	22.33	0.77	4881	25.81	19.87	0.77	4978	24.78	19.08	0.77	5027	23.54	18.12	0.77	5127
	88	75	29.20	18.98	0.65	4902	25.99	16.89	0.65	4999	24.95	16.22	0.65	5048	23.70	15.41	0.65	5148
	88	79	29.61	15.69	0.53	4926	26.35	13.97	0.53	5023	25.30	13.41	0.53	5072	24.03	12.74	0.53	5172
	90	64	28.14	25.61	0.91	4886	25.04	22.79	0.91	4984	24.04	21.88	0.91	5033	22.84	20.78	0.91	5134
	90	68	28.71	26.13	0.91	4912	25.56	23.26	0.91	5010	24.53	22.33	0.91	5060	23.31	21.21	0.91	5161
	90	72	29.29	23.72	0.81	4930	26.07	21.11	0.81	5028	25.02	20.27	0.81	5078	23.77	19.26	0.81	5178
	90	75	29.49	20.35	0.69	4951	26.25	18.11	0.69	5049	25.20	17.39	0.69	5099	23.94	16.52	0.69	5200
	90	79	29.91	17.05	0.57	4975	26.62	15.17	0.57	5073	25.55	14.56	0.57	5123	24.27	13.84	0.57	5224

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 36K(Cooling up to 4 indoor units series)

		Cooling Operation PERFORMANCE DATA																																																				
		OUTDOOR DB (°F)																																																				
COMBINATION (%)	IDDB (°F)	ID WB (°F)	5				19				32				50				59				70				77				81				86				95				102				104				113			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT								
100%	70	64	34.85	21.26	0.61	2987	34.50	21.05	0.61	3014	34.13	20.82	0.61	3042	33.69	20.55	0.61	3066	33.36	20.35	0.61	3082	32.99	20.13	0.61	3184	32.54	19.85	0.61	3324	31.96	19.50	0.61	3548	31.21	19.04	0.61	3712	30.31	18.49	0.61	3851	28.18	17.19	0.61	4044	27.90	17.02	0.61	4084	23.02	14.04	0.61	4240
	70	68	36.29	17.78	0.49	3010	35.93	17.60	0.49	3038	35.54	17.41	0.49	3065	35.08	17.19	0.49	3090	34.73	17.02	0.49	3105	34.36	16.83	0.49	3207	33.88	16.60	0.49	3347	33.28	16.31	0.49	3571	32.50	15.93	0.49	3735	31.56	15.46	0.49	3874	29.35	14.38	0.49	4067	29.05	14.24	0.49	4108	23.97	11.74	0.49	4263
	72	64	35.93	23.35	0.65	3017	35.57	23.12	0.65	3045	35.18	22.87	0.65	3072	34.73	22.58	0.65	3097	34.39	22.35	0.65	3113	34.02	22.11	0.65	3216	33.55	21.80	0.65	3357	32.95	21.42	0.65	3584	32.18	20.92	0.65	3749	31.24	20.31	0.65	3890	29.06	18.89	0.65	4085	28.77	18.70	0.65	4125	23.73	15.43	0.65	4283
	72	68	37.03	19.62	0.53	3041	36.66	19.43	0.53	3068	36.26	19.22	0.53	3096	35.80	18.97	0.53	3121	35.44	18.78	0.53	3137	35.06	18.58	0.53	3240	34.57	18.32	0.53	3381	33.96	18.00	0.53	3608	33.17	17.58	0.53	3773	32.20	17.07	0.53	3913	29.95	15.87	0.53	4108	29.65	15.71	0.53	4149	24.46	12.96	0.53	4306
	72	72	37.66	15.44	0.41	3057	37.28	15.29	0.41	3085	36.88	15.12	0.41	3112	36.41	14.93	0.41	3137	36.04	14.78	0.41	3153	35.65	14.62	0.41	3256	35.16	14.42	0.41	3397	34.54	14.16	0.41	3624	33.73	13.83	0.41	3789	32.75	13.43	0.41	3929	30.45	12.49	0.41	4124	30.15	12.36	0.41	4165	24.87	10.20	0.41	4323
	73	64	36.66	25.30	0.69	3048	36.30	25.05	0.69	3075	35.90	24.77	0.69	3103	35.44	24.46	0.69	3128	35.09	24.21	0.69	3144	34.71	23.95	0.69	3248	34.23	23.62	0.69	3391	33.62	23.20	0.69	3620	32.84	22.66	0.69	3787	31.88	22.00	0.69	3929	29.65	20.46	0.69	4126	29.35	20.25	0.69	4167	24.22	16.71	0.69	4326
	73	68	37.78	21.54	0.57	3072	37.41	21.32	0.57	3099	37.00	21.09	0.57	3127	36.53	20.82	0.57	3152	36.17	20.61	0.57	3168	35.77	20.39	0.57	3273	35.28	20.11	0.57	3415	34.65	19.75	0.57	3644	33.84	19.29	0.57	3811	32.86	18.73	0.57	3953	30.56	17.42	0.57	4150	30.25	17.24	0.57	4191	24.96	14.23	0.57	4350
	73	72	38.43	17.29	0.45	3088	38.04	17.12	0.45	3116	37.63	16.93	0.45	3144	37.15	16.72	0.45	3169	36.78	16.55	0.45	3185	36.38	16.37	0.45	3289	35.88	16.14	0.45	3432	35.24	15.49	0.45	3660	34.42	15.49	0.45	3827	33.41	15.04	0.45	3969	31.08	13.98	0.45	4166	30.77	13.84	0.45	4207	25.38	11.42	0.45	4366
	75	64	37.41	27.31	0.73	3078	37.04	27.04	0.73	3106	36.64	26.74	0.73	3135	36.17	26.40	0.73	3160	35.81	26.14	0.73	3176	35.42	25.85	0.73	3281	34.93	25.50	0.73	3426	34.31	25.05	0.73	3657	33.51	24.46	0.73	3825	32.53	23.75	0.73	3969	30.25	22.09	0.73	4167	29.95	21.86	0.73	4209	24.71	18.04	0.73	4370
	75	68	38.55	23.52	0.61	3103	38.17	23.29	0.61	3131	37.76	23.03	0.61	3159	37.27	22.74	0.61	3184	36.90	22.51	0.61	3200	36.50	22.27	0.61	3306	36.00	21.96	0.61	3450	35.36	21.57	0.61	3681	34.53	21.06	0.61	3850	33.53	20.45	0.61	3993	31.18	19.02	0.61	4192	30.87	18.83	0.61	4233	25.47	15.53	0.61	4394
	75	72	39.21	19.21	0.49	3119	38.82	19.02	0.49	3147	38.40	18.82	0.49	3175	37.91	18.57	0.49	3201	37.53	18.39	0.49	3217	37.12	18.19	0.49	3322	36.61	17.94	0.49	3466	35.96	17.62	0.49	3697	35.12	17.21	0.49	3866	34.10	16.71	0.49	4009	31.71	15.54	0.49	4208	31.39	15.38	0.49	4250	25.90	12.69	0.49	4410
	75	75	39.76	14.71	0.37	3139	39.36	14.56	0.37	3167	38.94	14.41	0.37	3195	38.44	14.22	0.37	3220	38.06	14.08	0.37	3236	37.64	13.93	0.37	3341	37.12	13.74	0.37	3486	36.47	13.49	0.37	3717	35.61	13.18	0.37	3885	34.57	12.79	0.37	4029	32.15	11.90	0.37	4228	31.83	11.78	0.37	4269	26.26	9.72	0.37	4430
	77	64	38.57	29.70	0.77	3109	38.18	29.40	0.77	3138	37.77	29.08	0.77	3166	37.28	28.71	0.77	3192	36.91	28.42	0.77	3208	36.51	28.12	0.77	3314	36.01	27.73	0.77	3460	35.37	27.24	0.77	3694	34.54	26.60	0.77	3864	33.54	25.82	0.77	4009	31.19	24.02	0.77	4210	30.88	23.78	0.77	4252	25.47	19.62	0.77	4414
	77	68	39.75	25.84	0.65	3134	39.35	25.58	0.65	3162	38.92	25.30	0.65	3191	38.43	24.98	0.65	3216	38.04	24.73	0.65	3233	37.63	24.46	0.65	3339	37.11	24.12	0.65	3485	36.46	23.70	0.65	3718	35.60	23.14	0.65	3888	34.56	22.47	0.65	4033	32.14	20.89	0.65	4234	31.82	20.68	0.65	4276	26.25	17.07	0.65	4438
	77	72	40.42	21.42	0.53	3151	40.02	21.21	0.53	3179	39.59	20.98	0.53	3208	39.08	20.71	0.53	3233	38.69	20.51	0.53	3249	38.27	20.28	0.53	3356	37.74	20.00	0.53	3501	37.07	19.65	0.53	3735	36.21	19.19	0.53	3905	35.15	18.63	0.53	4050	32.69	17.33	0.53	4251	32.36	17.15	0.53	4293	26.70	14.15	0.53	4455
	77	75	40.99	16.81	0.41	3170	40.58	16.64	0.41	3199	40.14	16.46	0.41	3227	39.63	16.25	0.41	3253	39.23	16.09	0.41	3269	38.81	15.91	0.41	3375	38.27	15.69	0.41	3521	37.59	15.41	0.41	3754	36.71	15.05	0.41	3925	35.64	14.61	0.41	4069	33.15	13.59	0.41	4270	32.82	13.45	0.41	4312	27.07	11.10	0.41	4474
	79	64	39.76	32.20	0.81	3141	39.37	31.89	0.81	3169	38.94	31.54	0.81	3198	38.44	31.13	0.81	3224	38.06	30.83	0.81	3240	37.64	30.49	0.81	3348	37.12	30.07	0.81	3495	36.47	29.54	0.81	3731	35.61	28.85	0.81	3903	34.57	28.01	0.81	4049	32.15	26.04	0.81	4252	31.83	25.78	0.81	4295	26.26	21.27	0.81	4458
	79	68	40.98	28.27	0.69	3166	40.57	27.99	0.69	3194	40.13	27.69	0.69	3223	39.61	27.33	0.69	3249	39.22	27.06	0.69	3265	38.79	26.77	0.69	3373	38.26	26.40	0.69	3520	37.58	25.93	0.69	3756	36.70	25.32	0.69	3928	35.63	24.59	0.													

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 36K(Cooling up to 4 indoor units series)

	Cooling Operation PERFORMANCE DATA																	
	OUTDOOR DB (°F)																	
COMBINATION (%)	IDDB (°F)	IDWB (°F)	115				120				122				126			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT
100%	70	64	22.33	13.62	0.61	4269	19.87	12.12	0.61	4355	19.08	11.64	0.61	4399	18.12	11.06	0.61	4487
	70	68	23.25	11.39	0.49	4293	20.69	10.14	0.49	4379	19.86	9.73	0.49	4422	18.87	9.25	0.49	4510
	72	64	23.02	14.96	0.65	4313	20.49	13.32	0.65	4399	19.67	12.78	0.65	4443	18.68	12.14	0.65	4532
	72	68	23.72	12.57	0.53	4336	21.11	11.19	0.53	4423	20.27	10.74	0.53	4467	19.26	10.21	0.53	4556
	72	72	24.13	9.89	0.41	4353	21.47	8.80	0.41	4439	20.61	8.45	0.41	4483	19.58	8.03	0.41	4572
	73	64	23.49	16.21	0.69	4356	20.91	14.42	0.69	4443	20.07	13.85	0.69	4488	19.07	13.16	0.69	4578
	73	68	24.21	13.80	0.57	4380	21.55	12.28	0.57	4468	20.68	11.79	0.57	4512	19.65	11.20	0.57	4602
	73	72	24.62	11.08	0.45	4397	21.91	9.86	0.45	4484	21.04	9.47	0.45	4528	19.98	8.99	0.45	4618
	75	64	23.97	17.50	0.73	4400	21.33	15.57	0.73	4488	20.48	14.95	0.73	4533	19.45	14.20	0.73	4624
	75	68	24.70	15.07	0.61	4424	21.99	13.41	0.61	4513	21.11	12.87	0.61	4558	20.05	12.23	0.61	4648
	75	72	25.12	12.31	0.49	4441	22.36	10.96	0.49	4529	21.46	10.52	0.49	4574	20.39	9.99	0.49	4665
	75	75	25.47	9.43	0.37	4460	22.67	8.39	0.37	4549	21.76	8.05	0.37	4594	20.68	7.65	0.37	4684
	77	64	24.71	19.03	0.77	4445	21.99	16.93	0.77	4534	21.11	16.26	0.77	4579	20.06	15.44	0.77	4671
	77	68	25.47	16.55	0.65	4469	22.66	14.73	0.65	4558	21.76	14.14	0.65	4604	20.67	13.44	0.65	4695
	77	72	25.90	13.73	0.53	4486	23.05	12.22	0.53	4575	22.13	11.73	0.53	4620	21.02	11.14	0.53	4712
	77	75	26.26	10.77	0.41	4505	23.37	9.58	0.41	4594	22.44	9.20	0.41	4640	21.32	8.74	0.41	4732
	79	64	25.47	20.63	0.81	4490	22.67	18.36	0.81	4580	21.77	17.63	0.81	4625	20.68	16.75	0.81	4718
	79	68	26.25	18.12	0.69	4514	23.37	16.12	0.69	4604	22.43	15.48	0.69	4650	21.31	14.70	0.69	4743
	79	72	26.70	15.22	0.57	4531	23.76	13.55	0.57	4621	22.81	13.00	0.57	4667	21.67	12.35	0.57	4760
	79	75	27.07	12.18	0.45	4551	24.10	10.84	0.45	4641	23.13	10.41	0.45	4687	21.98	9.89	0.45	4779
	79	79	27.51	9.08	0.33	4574	24.48	8.08	0.33	4664	23.50	7.76	0.33	4710	22.33	7.37	0.33	4802
	81	64	25.99	22.09	0.85	4535	23.13	19.66	0.85	4626	22.21	18.88	0.85	4672	21.10	17.93	0.85	4766
	81	66	26.52	20.95	0.79	4545	23.61	18.65	0.79	4636	22.66	17.90	0.79	4682	21.53	17.01	0.79	4776
	81	68	26.79	19.56	0.73	4560	23.84	17.41	0.73	4651	22.89	16.71	0.73	4697	21.74	15.87	0.73	4791
	81	72	27.25	16.62	0.61	4577	24.25	14.79	0.61	4668	23.28	14.20	0.61	4714	22.11	13.49	0.61	4808
	81	75	27.63	13.54	0.49	4597	24.59	12.05	0.49	4688	23.60	11.57	0.49	4734	22.42	10.99	0.49	4828
	81	79	28.07	10.39	0.37	4620	24.98	9.24	0.37	4711	23.98	8.87	0.37	4757	22.78	8.43	0.37	4851
	82	64	26.25	23.37	0.89	4580	23.37	20.80	0.89	4672	22.43	19.96	0.89	4719	21.31	18.97	0.89	4813
	82	68	26.79	20.63	0.77	4605	23.84	18.36	0.77	4697	22.89	17.62	0.77	4744	21.74	16.74	0.77	4839
	82	72	27.06	17.59	0.65	4623	24.08	15.65	0.65	4714	23.12	15.03	0.65	4761	21.96	14.28	0.65	4856
	82	75	27.52	14.58	0.53	4643	24.49	12.98	0.53	4735	23.51	12.46	0.53	4781	22.34	11.84	0.53	4876
	82	79	27.90	11.44	0.41	4666	24.83	10.18	0.41	4758	23.84	9.77	0.41	4805	22.65	9.29	0.41	4899
	84	64	26.52	24.13	0.91	4626	23.60	21.48	0.91	4719	22.66	20.62	0.91	4766	21.52	19.59	0.91	4862
	84	68	27.06	21.92	0.81	4652	24.08	19.51	0.81	4744	23.12	18.73	0.81	4792	21.96	17.79	0.81	4887
	84	72	27.60	19.04	0.69	4669	24.56	16.95	0.69	4762	23.58	16.27	0.69	4809	22.40	15.46	0.69	4904
	84	75	27.79	15.84	0.57	4689	24.74	14.10	0.57	4782	23.75	13.54	0.57	4829	22.56	12.86	0.57	4925
	84	79	28.18	12.68	0.45	4713	25.08	11.29	0.45	4805	24.08	10.84	0.45	4853	22.87	10.29	0.45	4948
	86	64	26.78	24.37	0.91	4672	23.84	21.69	0.91	4766	22.88	20.82	0.91	4814	21.74	19.78	0.91	4910
	86	68	27.33	23.23	0.85	4698	24.32	20.67	0.85	4792	23.35	19.85	0.85	4839	22.18	18.85	0.85	4936
	86	72	27.87	20.35	0.73	4716	24.81	18.11	0.73	4809	23.82	17.39	0.73	4857	22.63	16.52	0.73	4953
	86	75	28.07	17.12	0.61	4736	24.98	15.24	0.61	4830	23.98	14.63	0.61	4878	22.78	13.90	0.61	4974
	86	79	28.46	13.95	0.49	4760	25.33	12.41	0.49	4854	24.32	11.92	0.49	4901	23.10	11.32	0.49	4998
	88	64	27.05	24.61	0.91	4719	24.07	21.91	0.91	4814	23.11	21.03	0.91	4862	21.96	19.98	0.91	4959
	88	68	27.60	24.57	0.89	4745	24.57	21.86	0.89	4840	23.58	20.99	0.89	4888	22.40	19.94	0.89	4985
	88	72	28.15	21.68	0.77	4763	25.06	19.29	0.77	4857	24.05	18.52	0.77	4906	22.85	17.60	0.77	5003
	88	75	28.35	18.43	0.65	4784	25.23	16.40	0.65	4878	24.22	15.75	0.65	4926	23.01	14.96	0.65	5024
	88	79	28.75	15.24	0.53	4807	25.59	13.56	0.53	4902	24.56	13.02	0.53	4950	23.33	12.37	0.53	5048
	90	64	27.32	24.86	0.91	4766	24.31	22.13	0.91	4862	23.34	21.24	0.91	4910	22.18	20.18	0.91	5009
	90	68	27.88	25.37	0.91	4792	24.81	22.58	0.91	4888	23.82	21.67	0.91	4937	22.63	20.59	0.91	5035
	90	72	28.44	23.03	0.81	4810	25.31	20.50	0.81	4906	24.29	19.68	0.81	4955	23.08	18.69	0.81	5053
	90	75	28.63	19.76	0.69	4831	25.49	17.58	0.69	4927	24.47	16.88	0.69	4976	23.24	16.04	0.69	5074
	90	79	29.04	16.55	0.57	4856	25.84	14.73	0.57	4951	24.81	14.14	0.57	5000	23.57	13.43	0.57	5098

Capacities and Selection Data (Capacity Characteristics Charts) 36K(Cooling up to 4 indoor units series)

Capacities and Selection Data (Capacity Characteristics Charts) 36K(Cooling up to 4 indoor units series)

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 36K(Cooling up to 4 indoor units series)

	Cooling Operation PERFORMANCE DATA																	
	OUTDOOR DB (°F)																	
COMBINATION (%)	IDDB (°F)	IDWB (°F)	115				120				122				126			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT
90%	70	64	21.88	13.35	0.61	4227	19.48	11.88	0.61	4311	18.70	11.40	0.61	4355	17.76	10.83	0.61	4442
	70	68	22.78	11.16	0.49	4250	20.28	9.94	0.49	4335	19.47	9.54	0.49	4378	18.49	9.06	0.49	4465
	72	64	22.56	14.66	0.65	4269	20.08	13.05	0.65	4355	19.27	12.53	0.65	4399	18.31	11.90	0.65	4487
	72	68	23.25	12.32	0.53	4293	20.69	10.97	0.53	4379	19.86	10.53	0.53	4422	18.87	10.00	0.53	4511
	72	72	23.64	9.69	0.41	4309	21.04	8.63	0.41	4395	20.20	8.28	0.41	4439	19.19	7.87	0.41	4527
	73	64	23.02	15.88	0.69	4313	20.49	14.14	0.69	4399	19.67	13.57	0.69	4443	18.68	12.89	0.69	4532
	73	68	23.72	13.52	0.57	4337	21.11	12.04	0.57	4423	20.27	11.55	0.57	4467	19.26	10.98	0.57	4556
	73	72	24.13	10.86	0.45	4353	21.47	9.66	0.45	4439	20.61	9.28	0.45	4483	19.58	8.81	0.45	4572
	75	64	23.49	17.15	0.73	4356	20.91	15.26	0.73	4443	20.07	14.65	0.73	4488	19.07	13.92	0.73	4578
	75	68	24.21	14.77	0.61	4380	21.55	13.14	0.61	4468	20.68	12.62	0.61	4512	19.65	11.99	0.61	4602
	75	72	24.62	12.06	0.49	4397	21.91	10.74	0.49	4484	21.04	10.31	0.49	4529	19.98	9.79	0.49	4619
	75	75	24.96	9.24	0.37	4416	22.22	8.22	0.37	4504	21.33	7.89	0.37	4548	20.26	7.50	0.37	4638
	77	64	24.22	18.65	0.77	4400	21.55	16.59	0.77	4488	20.69	15.93	0.77	4533	19.66	15.13	0.77	4624
	77	68	24.96	16.22	0.65	4425	22.21	14.44	0.65	4513	21.32	13.86	0.65	4558	20.26	13.17	0.65	4649
	77	72	25.38	13.45	0.53	4441	22.59	11.97	0.53	4529	21.69	11.49	0.53	4574	20.60	10.92	0.53	4665
	77	75	25.74	10.55	0.41	4461	22.91	9.39	0.41	4549	21.99	9.02	0.41	4594	20.89	8.56	0.41	4685
	79	64	24.96	20.22	0.81	4445	22.22	18.00	0.81	4534	21.33	17.28	0.81	4579	20.26	16.41	0.81	4671
	79	68	25.73	17.75	0.69	4469	22.90	15.80	0.69	4558	21.98	15.17	0.69	4604	20.88	14.41	0.69	4696
	79	72	26.17	14.91	0.57	4486	23.29	13.27	0.57	4575	22.36	12.74	0.57	4621	21.24	12.11	0.57	4712
	79	75	26.53	11.94	0.45	4506	23.61	10.63	0.45	4595	22.67	10.20	0.45	4640	21.54	9.69	0.45	4732
	79	79	26.96	8.90	0.33	4529	23.99	7.92	0.33	4618	23.03	7.60	0.33	4663	21.88	7.22	0.33	4755
	81	64	25.47	21.65	0.85	4489	22.67	19.27	0.85	4579	21.77	18.50	0.85	4625	20.68	17.58	0.85	4718
	81	66	25.99	20.54	0.79	4499	23.13	18.28	0.79	4589	22.21	17.55	0.79	4635	21.10	16.67	0.79	4728
	81	68	26.25	19.17	0.73	4514	23.37	17.06	0.73	4604	22.43	16.37	0.73	4650	21.31	15.56	0.73	4743
	81	72	26.70	16.29	0.61	4531	23.76	14.50	0.61	4621	22.81	13.92	0.61	4667	21.67	13.22	0.61	4760
	81	75	27.07	13.27	0.49	4551	24.10	11.81	0.49	4641	23.13	11.33	0.49	4687	21.98	10.77	0.49	4780
	81	79	27.51	10.18	0.37	4574	24.48	9.06	0.37	4664	23.50	8.70	0.37	4710	22.33	8.26	0.37	4803
	82	64	25.73	22.90	0.89	4534	22.90	20.38	0.89	4625	21.98	19.56	0.89	4672	20.88	18.59	0.89	4765
	82	68	26.25	20.22	0.77	4560	23.37	17.99	0.77	4650	22.43	17.27	0.77	4697	21.31	16.41	0.77	4790
	82	72	26.52	17.24	0.65	4577	23.60	15.34	0.65	4668	22.66	14.73	0.65	4714	21.52	13.99	0.65	4808
	82	75	26.97	14.29	0.53	4597	24.00	12.72	0.53	4688	23.04	12.21	0.53	4734	21.89	11.60	0.53	4828
	82	79	27.34	11.21	0.41	4620	24.34	9.98	0.41	4711	23.36	9.58	0.41	4757	22.20	9.10	0.41	4851
	84	64	25.99	23.65	0.91	4580	23.13	21.05	0.91	4671	22.20	20.20	0.91	4718	21.09	19.19	0.91	4813
	84	68	26.52	21.48	0.81	4605	23.60	19.12	0.81	4697	22.66	18.35	0.81	4744	21.52	17.43	0.81	4838
	84	72	27.05	18.66	0.69	4623	24.07	16.61	0.69	4714	23.11	15.95	0.69	4761	21.95	15.15	0.69	4856
	84	75	27.24	15.53	0.57	4643	24.24	13.82	0.57	4735	23.27	13.26	0.57	4782	22.11	12.60	0.57	4876
	84	79	27.62	12.43	0.45	4666	24.58	11.06	0.45	4758	23.60	10.62	0.45	4805	22.42	10.09	0.45	4900
	86	64	26.25	23.88	0.91	4625	23.36	21.26	0.91	4718	22.42	20.41	0.91	4765	21.30	19.39	0.91	4861
	86	68	26.78	22.76	0.85	4651	23.84	20.26	0.85	4744	22.88	19.45	0.85	4791	21.74	18.48	0.85	4887
	86	72	27.32	19.94	0.73	4669	24.31	17.75	0.73	4761	23.34	17.04	0.73	4809	22.17	16.19	0.73	4904
	86	75	27.51	16.78	0.61	4689	24.48	14.93	0.61	4782	23.50	14.34	0.61	4829	22.33	13.62	0.61	4925
	86	79	27.89	13.67	0.49	4713	24.83	12.16	0.49	4806	23.83	11.68	0.49	4853	22.64	11.09	0.49	4949
	88	64	26.51	24.12	0.91	4672	23.59	21.47	0.91	4765	22.65	20.61	0.91	4813	21.52	19.58	0.91	4910
	88	68	27.05	24.07	0.89	4698	24.07	21.43	0.89	4791	23.11	20.57	0.89	4839	21.96	19.54	0.89	4936
	88	72	27.59	21.24	0.77	4715	24.56	18.91	0.77	4809	23.57	18.15	0.77	4857	22.39	17.24	0.77	4953
	88	75	27.78	18.06	0.65	4736	24.73	16.07	0.65	4830	23.74	15.43	0.65	4878	22.55	14.66	0.65	4974
	88	79	28.17	14.93	0.53	4760	25.07	13.29	0.53	4854	24.07	12.76	0.53	4902	22.87	12.12	0.53	4998
	90	64	26.77	24.36	0.91	4718	23.83	21.68	0.91	4813	22.88	20.82	0.91	4861	21.73	19.78	0.91	4959
	90	68	27.32	24.86	0.91	4745	24.31	22.13	0.91	4839	23.34	21.24	0.91	4888	22.18	20.18	0.91	4985
	90	72	27.87	22.57	0.81	4763	24.80	20.09	0.81	4857	23.81	19.29	0.81	4905	22.62	18.32	0.81	5003
	90	75	28.06	19.36	0.69	4784	24.98	17.23	0.69	4878	23.98	16.54	0.69	4926	22.78	15.72	0.69	5024
	90	79	28.46	16.22	0.57	4808	25.33	14.44	0.57	4902	24.31	13.86	0.57	4951	23.10	13.16	0.57	5048

Capacities and Selection Data (Capacity Characteristics Charts) 36K(Cooling up to 4 indoor units series)

		Cooling Operation PERFORMANCE DATA																																																				
		OUTDOOR DB (°F)																																																				
COMBINATION (%)	IDDB (°F)	ID WB (°F)	5				19				32				50				59				70				77				81				86				95				102				104				113			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT								
80%	70	64	33.11	20.20	0.61	2927	32.78	20.00	0.61	2954	32.42	19.78	0.61	2981	32.01	19.52	0.61	3005	31.69	19.33	0.61	3020	31.35	19.12	0.61	3120	30.91	18.86	0.61	3257	30.37	18.52	0.61	3477	29.65	18.09	0.61	3637	28.79	17.56	0.61	3773	26.77	16.33	0.61	3963	26.51	16.17	0.61	4002	21.87	13.34	0.61	4155
	70	68	34.47	16.89	0.49	2951	34.13	16.72	0.49	2977	33.76	16.54	0.49	3004	33.33	16.33	0.49	3028	33.00	16.17	0.49	3043	32.64	15.99	0.49	3144	32.19	15.77	0.49	3281	31.62	15.49	0.49	3500	30.88	15.13	0.49	3661	29.98	14.69	0.49	3797	27.88	13.66	0.49	3986	27.60	13.52	0.49	4026	22.77	11.16	0.49	4178
	72	64	34.13	22.19	0.65	2957	33.79	21.97	0.65	2984	33.43	21.73	0.65	3011	33.00	21.45	0.65	3035	32.67	21.24	0.65	3050	32.31	21.00	0.65	3152	31.87	20.71	0.65	3290	31.30	20.35	0.65	3512	30.57	19.87	0.65	3674	29.68	19.29	0.65	3812	27.60	17.94	0.65	4003	27.33	17.76	0.65	4043	22.54	14.65	0.65	4197
	72	68	35.18	18.64	0.53	2980	34.83	18.46	0.53	3007	34.45	18.26	0.53	3034	34.01	18.02	0.53	3059	33.67	17.85	0.53	3074	33.30	17.65	0.53	3175	32.84	17.41	0.53	3314	32.26	17.10	0.53	3536	31.51	16.70	0.53	3698	30.59	16.21	0.53	3835	28.45	15.08	0.53	4026	28.16	14.93	0.53	4067	23.23	12.31	0.53	4221
	72	72	35.77	14.67	0.41	2997	35.42	14.52	0.41	3023	35.03	14.36	0.41	3051	34.58	14.18	0.41	3075	34.24	14.04	0.41	3090	33.87	13.89	0.41	3191	33.40	13.69	0.41	3330	32.81	13.45	0.41	3552	32.04	13.14	0.41	3714	31.11	12.75	0.41	3852	28.93	11.86	0.41	4043	28.64	11.74	0.41	4083	23.63	9.69	0.41	4237
	73	64	34.83	24.03	0.69	2986	34.48	23.79	0.69	3014	34.11	23.53	0.69	3041	33.67	23.23	0.69	3066	33.34	23.00	0.69	3081	32.97	22.75	0.69	3183	32.52	22.44	0.69	3323	31.94	22.04	0.69	3547	31.20	21.52	0.69	3711	30.29	20.90	0.69	3850	28.17	19.43	0.69	4043	27.88	19.24	0.69	4084	23.00	15.87	0.69	4239
	73	68	35.89	20.46	0.57	3010	35.54	20.26	0.57	3038	35.15	20.04	0.57	3065	34.70	19.78	0.57	3090	34.36	19.58	0.57	3105	33.98	19.37	0.57	3207	33.51	19.10	0.57	3347	32.92	18.77	0.57	3571	32.15	18.33	0.57	3735	31.21	17.79	0.57	3874	29.03	16.55	0.57	4067	28.74	16.38	0.57	4108	23.71	13.51	0.57	4263
	73	72	36.50	16.43	0.45	3027	36.14	16.26	0.45	3054	35.75	16.09	0.45	3081	35.29	15.88	0.45	3106	34.94	15.72	0.45	3122	34.56	15.55	0.45	3224	34.08	15.34	0.45	3364	33.48	15.07	0.45	3588	32.70	14.71	0.45	3751	31.74	14.28	0.45	3890	29.52	13.28	0.45	4083	29.23	13.15	0.45	4128	24.11	10.85	0.45	4279
	75	64	35.54	25.94	0.73	3017	35.19	25.69	0.73	3044	34.80	25.41	0.73	3072	34.36	25.08	0.73	3097	34.02	24.83	0.73	3112	33.65	24.56	0.73	3213	33.18	24.22	0.73	3353	32.60	23.79	0.73	3583	31.83	23.24	0.73	3749	30.90	22.56	0.73	3889	28.74	20.98	0.73	4084	28.45	20.77	0.73	4125	23.47	17.14	0.73	4282
	75	68	36.63	22.34	0.61	3041	36.26	22.12	0.61	3068	35.87	21.88	0.61	3096	35.41	21.60	0.61	3121	35.06	21.39	0.61	3137	34.68	21.15	0.61	3240	34.20	20.86	0.61	3381	33.59	20.49	0.61	3607	32.81	20.01	0.61	3773	31.85	19.43	0.61	3913	29.62	18.07	0.61	4108	29.32	17.89	0.61	4149	24.19	14.76	0.61	4306
	75	72	37.25	18.25	0.49	3057	36.88	18.07	0.49	3085	36.48	17.87	0.49	3113	36.01	17.65	0.49	3137	35.65	17.47	0.49	3153	35.27	17.28	0.49	3256	34.78	17.04	0.49	3398	34.16	16.74	0.49	3624	33.36	16.35	0.49	3789	32.39	15.87	0.49	3930	30.12	14.76	0.49	4125	29.82	14.61	0.49	4166	24.60	12.06	0.49	4323
	75	75	37.77	13.98	0.37	3077	37.40	13.84	0.37	3104	36.99	13.69	0.37	3132	36.52	13.51	0.37	3157	36.15	13.38	0.37	3172	35.76	13.23	0.37	3276	35.27	13.05	0.37	3417	34.64	12.82	0.37	3643	33.83	12.52	0.37	3809	32.85	12.15	0.37	3949	30.55	11.30	0.37	4144	30.24	11.19	0.37	4185	24.95	9.23	0.37	4342
	77	64	36.64	28.21	0.77	3047	36.27	27.93	0.77	3075	35.88	27.63	0.77	3103	35.42	27.27	0.77	3128	35.07	27.00	0.77	3144	34.69	26.71	0.77	3248	34.21	26.34	0.77	3391	33.60	25.87	0.77	3619	32.82	25.27	0.77	3786	31.86	24.53	0.77	3928	29.63	22.82	0.77	4125	29.33	22.59	0.77	4166	24.20	18.63	0.77	4325
	77	68	37.76	24.54	0.65	3072	37.39	24.30	0.65	3099	36.98	24.04	0.65	3127	36.50	23.73	0.65	3152	36.14	23.49	0.65	3168	35.75	23.24	0.65	3272	35.26	22.92	0.65	3415	34.63	22.51	0.65	3644	33.82	22.19	0.65	3811	32.84	21.34	0.65	3953	30.54	19.85	0.65	4150	30.23	19.65	0.65	4191	24.94	16.21	0.65	4350
	77	72	38.40	20.35	0.53	3088	38.02	20.15	0.53	3116	37.61	19.93	0.53	3144	37.12	19.68	0.53	3169	36.76	19.48	0.53	3185	36.36	19.27	0.53	3289	35.86	19.00	0.53	3432	35.22	18.67	0.53	3661	34.40	18.23	0.53	3828	33.39	17.70	0.53	3969	31.06	16.46	0.53	4166	30.75	16.30	0.53	4208	24.71	13.44	0.53	4366
	77	75	38.94	15.96	0.41	3108	38.55	15.81	0.41	3136	38.13	15.63	0.41	3164	37.64	15.43	0.41	3189	37.27	15.28	0.41	3204	36.87	15.12	0.41	3309	36.36	14.91	0.41	3452	35.71	14.64	0.41	3680	34.88	14.30	0.41	3847	33.86	13.88	0.41	3989	31.49	12.91	0.41	4186	31.18	12.78	0.41	4227	25.72	10.55	0.41	4386
	79	64	37.77	30.59	0.81	3078	37.40	30.29	0.81	3106	36.99	29.96	0.81	3134	36.52	29.58	0.81	3160	36.15	29.28	0.81	3175	35.76	28.97	0.81	3281	35.27	28.57	0.81	3425	34.64	28.06	0.81	3656	33.83	27.40	0.81	3825	32.85	26.61	0.81	3968	30.55	24.74	0.81	4167	30.24	24.50	0.81	4209	24.95	20.21	0.81	4369
	79	68	38.93	26.86	0.69	3103	38.54	26.59	0.69	3131	38.12	26.30	0.69	3159	37.63	25.97	0.69	3184	37.26	25.71	0.69	3200	36.86	25.43	0.69	3306	36.35	25.08	0.69	3450	35.70	24.64	0.69	3681	34.87	24.06	0.69	3849	33.85	23.36	0.69	3993	31.48	21.72	0.69	4192	31.17	21.51	0.69	4233	25.71	17.74	0.69	4394
	79	72	39.59	22.57	0.57	3119	39.20	22.34	0.57	3147	38.77	22.10	0.57	3176	38.27	21.82	0.57	3201	37.89	21.60	0.57	3217	37.48	21.36	0.57	3322	36.96	21.07	0.57	3467	36.31	20.70	0.57	3698	35.46	20.21	0.57	3866	34.43	19.62	0.57	4010	32.02	18.25	0.57	4208	31.70	18.07	0.57	4250	26.15	14.91	0.57	4410
	79	75	40.14	18.06	0.45	3139	39.75	17.89	0.45	3167	39.31	17.69	0.45	3196	38.81	17.46	0.45	3221	38.42	17.29	0.45	3237	38.01	17.10	0.45	3342	37.48	16.87	0.45	3486	36.82	16.57	0.45	3717	35.96	16.18	0.45	3886	34.91	15.71	0.45	4029	32.47	14.61	0.45	4228	32.14	14.46	0.45	4270	26.52	11.93	0.45	4430
	79	79	40.19	17.43	0.33	3162	40.38	13.33	0.33	3190	39.94	13.18	0.33	3218	39.43	13.01	0.33	3244	39.04	12.88	0.33	3260	38.61	12.74	0.33	3365	38.08	12.57	0.33	3509	37.41	12.34	0.33	3740	36.53	12.06	0.33	3909	35.47	11.70	0.33	4052	32.98	10.88	0.33	4251	32.65	10.78	0.33	4293	26.94	8.89	0.33	4453
	81	64	38.54	32.76	0.85	3109	38.16	32.44	0.85	3137	37.74	32.08	0.85	3166	37.26	31.67	0.85	3191	36.89	31.36	0.85	3208	36.49	31.02	0.85	3314	35.99	30.59	0.85	3460	35.35	30.05	0.85	3693	34.52	29.34	0.85	3863	33.52	28.49	0.85	4008	31.17	26.49	0.85	4209	30.86	26.23	0.85	4251	25.46	21.64	0.85	4413
	81	66	39.33	31.07	0.79	3119	38.94	30.76	0.79	3147	38.52	30.43	0.79	3176	38.02	30.04	0.79	3201	37.64	29.74	0.79	3218	37.23	29.42	0.79	3324	36.72	29.01	0.79	3470	36.07	28.50	0.79	3703	35.23	27.83	0.79	3873	34.20	27.02	0.79	4018	31.81	25.13	0.79	4219	31.49	24.88	0.79	4261	25.98	20.52	0.79	4423
	81	68	39.72	29.00	0.73	3134	39.33	28.71	0.73																																													

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 36K(Cooling up to 4 indoor units series)

Cooling Operation PERFORMANCE DATA																		
OUTDOOR DB (°F)																		
COMBINATION (%)	IDDB (°F)	IDWB (°F)	115				120				122				126			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT
80%	70	64	21.21	12.94	0.61	4184	18.88	11.52	0.61	4268	18.12	11.06	0.61	4311	17.22	10.50	0.61	4397
	70	68	22.09	10.82	0.49	4207	19.66	9.63	0.49	4291	18.87	9.25	0.49	4334	17.93	8.78	0.49	4420
	72	64	21.87	14.21	0.65	4226	19.46	12.65	0.65	4311	18.68	12.14	0.65	4354	17.75	11.54	0.65	4441
	72	68	22.54	11.95	0.53	4250	20.06	10.63	0.53	4335	19.26	10.21	0.53	4378	18.29	9.70	0.53	4465
	72	72	22.92	9.40	0.41	4266	20.40	8.36	0.41	4351	19.58	8.03	0.41	4394	18.60	7.63	0.41	4481
	73	64	22.31	15.40	0.69	4269	19.86	13.70	0.69	4354	19.07	13.16	0.69	4398	18.11	12.50	0.69	4486
	73	68	23.00	13.11	0.57	4293	20.47	11.67	0.57	4378	19.65	11.20	0.57	4422	18.67	10.64	0.57	4510
	73	72	23.39	10.52	0.45	4309	20.82	9.37	0.45	4395	19.98	8.99	0.45	4438	18.98	8.54	0.45	4527
	75	64	22.77	16.62	0.73	4312	20.27	14.79	0.73	4398	19.45	14.20	0.73	4442	18.48	13.49	0.73	4532
	75	68	23.47	14.31	0.61	4336	20.89	12.74	0.61	4423	20.05	12.23	0.61	4467	19.05	11.62	0.61	4556
	75	72	23.87	11.69	0.49	4353	21.24	10.41	0.49	4439	20.39	9.99	0.49	4483	19.37	9.49	0.49	4572
	75	75	24.20	8.95	0.37	4372	21.54	7.97	0.37	4459	20.68	7.65	0.37	4503	19.64	7.27	0.37	4592
	77	64	23.47	18.08	0.77	4356	20.89	16.09	0.77	4443	20.06	15.44	0.77	4487	19.05	14.67	0.77	4577
	77	68	24.19	15.73	0.65	4380	21.53	14.00	0.65	4467	20.67	13.44	0.65	4512	19.64	12.76	0.65	4602
	77	72	24.60	13.04	0.53	4397	21.90	11.61	0.53	4484	21.02	11.14	0.53	4529	19.97	10.58	0.53	4618
	77	75	24.95	10.23	0.41	4416	22.20	9.10	0.41	4504	21.32	8.74	0.41	4548	20.25	8.30	0.41	4638
	79	64	24.20	19.60	0.81	4400	21.54	17.45	0.81	4488	20.68	16.75	0.81	4533	19.64	15.91	0.81	4624
	79	68	24.94	17.21	0.69	4424	22.20	15.32	0.69	4512	21.31	14.70	0.69	4557	20.24	13.97	0.69	4648
	79	72	25.37	14.46	0.57	4441	22.58	12.87	0.57	4529	21.67	12.35	0.57	4574	20.59	11.74	0.57	4665
	79	75	25.72	11.57	0.45	4461	22.89	10.30	0.45	4549	21.98	9.89	0.45	4594	20.88	9.39	0.45	4685
	79	79	26.13	8.62	0.33	4484	23.26	7.67	0.33	4572	22.33	7.37	0.33	4617	21.21	7.00	0.33	4708
	81	64	24.69	20.99	0.85	4444	21.98	18.68	0.85	4533	21.10	17.93	0.85	4578	20.04	17.04	0.85	4670
	81	66	25.20	19.91	0.79	4454	22.43	17.72	0.79	4543	21.53	17.01	0.79	4588	20.45	16.16	0.79	4680
	81	68	25.45	18.58	0.73	4469	22.65	16.53	0.73	4558	21.74	15.87	0.73	4603	20.66	15.08	0.73	4695
	81	72	25.88	15.79	0.61	4486	23.04	14.05	0.61	4575	22.11	13.49	0.61	4620	21.01	12.82	0.61	4712
	81	75	26.25	12.86	0.49	4506	23.36	11.45	0.49	4595	22.42	10.99	0.49	4640	21.30	10.44	0.49	4732
	81	79	26.67	9.87	0.37	4529	23.73	8.78	0.37	4618	22.78	8.43	0.37	4663	21.64	8.01	0.37	4755
	82	64	24.94	22.20	0.89	4488	22.20	19.76	0.89	4578	21.31	18.97	0.89	4624	20.24	18.02	0.89	4717
	82	68	25.45	19.60	0.77	4514	22.65	17.44	0.77	4604	21.74	16.74	0.77	4650	20.66	15.91	0.77	4742
	82	72	25.70	16.71	0.65	4531	22.88	14.87	0.65	4621	21.96	14.28	0.65	4667	20.86	13.56	0.65	4759
	82	75	26.14	13.86	0.53	4551	23.27	12.33	0.53	4641	22.34	11.84	0.53	4687	21.22	11.25	0.53	4780
	82	79	26.51	10.87	0.41	4574	23.59	9.67	0.41	4664	22.65	9.29	0.41	4710	21.52	8.82	0.41	4803
	84	64	25.19	22.92	0.91	4533	22.42	20.40	0.91	4624	21.52	19.59	0.91	4671	20.45	18.61	0.91	4764
	84	68	25.70	20.82	0.81	4559	22.88	18.53	0.81	4650	21.96	17.79	0.81	4696	20.86	16.90	0.81	4790
	84	72	26.22	18.09	0.69	4576	23.33	16.10	0.69	4667	22.40	15.46	0.69	4713	21.28	14.68	0.69	4807
	84	75	26.40	15.05	0.57	4597	23.50	13.39	0.57	4687	22.56	12.86	0.57	4734	21.43	12.22	0.57	4827
	84	79	26.77	12.05	0.45	4620	23.83	10.72	0.45	4711	22.87	10.29	0.45	4757	21.73	9.78	0.45	4851
	86	64	25.44	23.15	0.91	4579	22.64	20.61	0.91	4670	21.74	19.78	0.91	4717	20.65	18.79	0.91	4812
	86	68	25.96	22.07	0.85	4604	23.11	19.64	0.85	4696	22.18	18.85	0.85	4743	21.07	17.91	0.85	4838
	86	72	26.48	19.33	0.73	4622	23.57	17.20	0.73	4714	22.63	16.52	0.73	4760	21.49	15.69	0.73	4855
	86	75	26.67	16.27	0.61	4643	23.73	14.48	0.61	4734	22.78	13.90	0.61	4781	21.65	13.20	0.61	4876
	86	79	27.04	13.25	0.49	4666	24.07	11.79	0.49	4758	23.10	11.32	0.49	4805	21.95	10.75	0.49	4899
	88	64	25.70	23.38	0.91	4624	22.87	20.81	0.91	4717	21.96	19.98	0.91	4764	20.86	18.98	0.91	4860
	88	68	26.22	23.34	0.89	4650	23.34	20.77	0.89	4743	22.40	19.94	0.89	4790	21.28	18.94	0.89	4886
	88	72	26.75	20.59	0.77	4668	23.80	18.33	0.77	4761	22.85	17.60	0.77	4808	21.71	16.72	0.77	4904
	88	75	26.93	17.51	0.65	4689	23.97	15.58	0.65	4782	23.01	14.96	0.65	4829	21.86	14.21	0.65	4924
	88	79	27.31	14.47	0.53	4713	24.31	12.88	0.53	4806	23.33	12.37	0.53	4853	22.17	11.75	0.53	4948
	90	64	25.95	23.62	0.91	4671	23.10	21.02	0.91	4764	22.18	20.18	0.91	4812	21.07	19.17	0.91	4908
	90	68	26.48	24.10	0.91	4697	23.57	21.45	0.91	4791	22.63	20.59	0.91	4838	21.50	19.56	0.91	4935
	90	72	27.01	21.88	0.81	4715	24.04	19.47	0.81	4808	23.08	18.69	0.81	4856	21.93	17.76	0.81	4953
	90	75	27.20	18.77	0.69	4736	24.21	16.71	0.69	4829	23.24	16.04	0.69	4877	22.08	15.24	0.69	4974
	90	79	27.58	15.72	0.57	4760	24.55	13.99	0.57	4854	23.57	13.43	0.57	4901	22.39	12.76	0.57	4998

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 36K (Heating up to 4 indoor units series)

HEATING PERFORMANCE DATA

COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		-13		-5		0		5		14		17		23		32	
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
130%	59	30.00	4824	34.51	5283	38.34	5561	41.67	5675	29.08	5014	32.32	5065	34.02	5116	37.38	5221
	61	29.65	4862	34.10	5326	37.88	5606	41.18	5720	28.74	5055	31.93	5106	33.61	5157	36.94	5263
	63	29.30	4902	33.69	5369	37.44	5651	40.69	5767	28.40	5096	31.55	5147	33.21	5199	36.50	5305
	64	28.95	4941	33.29	5412	36.99	5697	40.21	5813	28.06	5137	31.18	5189	32.82	5241	36.07	5348
	66	28.61	4981	32.90	5456	36.55	5743	39.73	5860	27.73	5178	30.81	5230	32.43	5283	35.64	5391
	68	28.32	5021	32.57	5500	36.19	5789	39.34	5907	27.45	5220	30.51	5273	32.11	5326	35.29	5435
	70	27.98	5076	32.18	5560	35.76	5853	38.87	5972	27.13	5277	30.14	5331	31.73	5384	34.86	5494
	72	27.65	5132	31.79	5621	35.33	5917	38.40	6038	26.80	5335	29.78	5389	31.34	5444	34.44	5555
	73	27.32	5189	31.41	5683	34.90	5982	37.94	6104	26.48	5394	29.42	5448	30.97	5504	34.03	5616
	75	26.99	5246	31.04	5746	34.48	6048	37.48	6172	26.16	5453	29.07	5508	30.60	5564	33.62	5678
	77	26.66	5303	30.66	5809	34.07	6115	37.03	6239	25.85	5513	28.72	5569	30.23	5625	33.22	5740
	79	26.34	5362	30.30	5873	33.66	6182	36.59	6308	25.54	5574	28.37	5630	29.87	5687	32.82	5803
	81	26.03	5421	29.93	5937	33.26	6250	36.15	6377	25.23	5635	28.03	5692	29.51	5750	32.43	5867
	82	25.72	5480	29.57	6003	32.86	6319	35.72	6448	24.93	5697	27.70	5755	29.15	5813	32.04	5932
	84	25.41	5541	29.22	6069	32.46	6388	35.29	6518	24.63	5760	27.36	5818	28.80	5877	31.65	5997
	86	25.10	5602	28.87	6135	32.08	6458	34.86	6590	24.33	5823	27.04	5882	28.46	5942	31.27	6063
COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		41		47		50		59		68		75					
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT				
130%	59	40.63	5495	41.67	5563	43.88	5770	46.08	5943	47.46	6062	48.88	6183				
	61	40.15	5540	41.18	5608	43.36	5817	45.53	5991	46.90	6111	48.30	6233				
	63	39.67	5584	40.69	5654	42.85	5864	44.99	6039	46.34	6160	47.73	6283				
	64	39.20	5629	40.21	5699	42.34	5911	44.46	6088	45.79	6210	47.16	6334				
	66	38.74	5675	39.73	5745	41.84	5959	43.93	6137	45.25	6260	46.60	6385				
	68	38.35	5721	39.34	5791	41.42	6007	43.49	6187	44.80	6311	46.14	6437				
	70	37.89	5783	38.87	5855	40.93	6073	42.97	6255	44.26	6380	45.59	6508				
	72	37.44	5847	38.40	5920	40.43	6139	42.46	6324	43.73	6450	45.04	6579				
	73	36.99	5911	37.94	5985	39.95	6207	41.95	6393	43.21	6521	44.50	6651				
	75	36.55	5976	37.48	6050	39.47	6275	41.44	6464	42.69	6593	43.97	6725				
	77	36.11	6042	37.03	6117	39.00	6344	40.95	6535	42.17	6665	43.44	6799				
	79	35.67	6109	36.59	6184	38.53	6414	40.46	6606	41.67	6739	42.92	6873				
	81	35.25	6176	36.15	6252	38.07	6485	39.97	6679	41.17	6813	42.40	6949				
	82	34.82	6244	35.72	6321	37.61	6556	39.49	6753	40.67	6888	41.89	7025				
	84	34.41	6312	35.29	6391	37.16	6628	39.02	6827	40.19	6963	41.39	7103				
	86	33.99	6382	34.86	6461	36.71	6701	38.55	6902	39.70	7040	40.90	7181				
COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		-13		-5		0		5		14		17		23		32	
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
120%	59	29.13	4594	33.50	5032	37.22	5296	40.46	5404	28.24	4776	31.37	4824	33.03	4873	36.29	4972
	61	28.79	4631	33.10	5072	36.78	5339	39.98	5448	27.90	4814	31.00	4863	32.63	4912	35.86	5012
	63	28.44	4668	32.71	5113	36.35	5382	39.51	5492	27.57	4853	30.63	4902	32.25	4951	35.44	5053
	64	28.11	4706	32.32	5154	35.91	5426	39.04	5536	27.24	4892	30.27	4941	31.86	4991	35.02	5093
	66	27.77	4744	31.94	5196	35.49	5469	38.57	5581	26.92	4932	29.91	4981	31.49	5032	34.60	5134
	68	27.50	4782	31.62	5238	35.14	5513	38.19	5626	26.65	4971	29.62	5021	31.18	5072	34.26	5176
	70	27.17	4835	31.24	5295	34.72	5574	37.73	5688	26.34	5026	29.26	5077	30.80	5128	33.85	5233
	72	26.84	4888	30.87	5354	34.30	5635	37.28	5750	26.02	5081	28.91	5133	30.43	5184	33.44	5290
	73	26.52	4942	30.50	5413	33.89	5697	36.83	5814	25.71	5137	28.56	5189	30.07	5241	33.04	5348
	75	26.20	4996	30.13	5472	33.48	5760	36.39	5878	25.40	5194	28.22	5246	29.71	5299	32.64	5407
	77	25.89	5051	29.77	5532	33.08	5823	35.96	5942	25.09	5251	27.88	5304	29.35	5357	32.25	5467
	79	25.58	5106	29.41	5593	32.68	5887	35.52	6008	24.79	5309	27.55	5362	29.00	5416	31.86	5527
	81	25.27	5163	29.06	5655	32.29	5952	35.10	6074	24.49	5367	27.22	5421	28.65	5476	31.48	5588
	82	24.97	5219	28.71	5717	31.90	6018	34.68	6141	24.20	5426	26.89	5481	28.31	5536	31.10	5649
	84	24.67	5277	28.37	5780	31.52	6084	34.26	6208	23.91	5486	26.57	5541	27.97	5597	30.73	5711
	86	24.37	5335	28.03	5843	31.14	6151	33.85	6276	23.62	5546	26.25	5602	27.63	5659	30.36	5774

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 36K (Heating up to 4 indoor units series)

COMBINATION (%)	INDOOR DB(°F)	41		47		50		59		68		75					
		Q	INPUT	Q	INPUT	Q	INPUT	Q	Q	INPUT	Q	INPUT	Q				
120%	59	39.45	5234	40.46	5299	42.60	5495	44.73	5660	46.08	5773	47.46	5889				
	61	38.98	5276	39.98	5341	42.10	5540	44.20	5706	45.53	5820	46.90	5936				
	63	38.52	5318	39.51	5384	41.60	5584	43.68	5752	44.99	5867	46.34	5984				
	64	38.06	5361	39.04	5428	41.11	5629	43.16	5798	44.46	5914	45.79	6033				
	66	37.61	5405	38.57	5472	40.62	5675	42.65	5845	43.93	5962	45.25	6081				
	68	37.24	5448	38.19	5516	40.22	5721	42.23	5892	43.49	6010	44.80	6130				
	70	36.79	5508	37.73	5576	39.73	5783	41.72	5957	42.97	6076	44.26	6198				
	72	36.35	5569	37.28	5638	39.26	5847	41.22	6023	42.46	6143	43.73	6266				
	73	35.91	5630	36.83	5700	38.79	5911	40.73	6089	41.95	6211	43.21	6335				
	75	35.48	5692	36.39	5762	38.32	5976	40.24	6156	41.44	6279	42.69	6404				
	77	35.06	5754	35.96	5826	37.86	6042	39.75	6223	40.95	6348	42.17	6475				
	79	34.64	5818	35.52	5890	37.41	6109	39.28	6292	40.46	6418	41.67	6546				
	81	34.22	5882	35.10	5955	36.96	6176	38.81	6361	39.97	6488	41.17	6618				
	82	33.81	5946	34.68	6020	36.51	6244	38.34	6431	39.49	6560	40.67	6691				
	84	33.40	6012	34.26	6086	36.08	6312	37.88	6502	39.02	6632	40.19	6764				
	86	33.00	6078	33.85	6153	35.64	6382	37.43	6573	38.55	6705	39.70	6839				
COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		-13		-5		0		5		14		17		23		32	
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
110%	59	28.28	4504	31.82	4782	35.35	5034	39.28	5299	27.41	4682	30.46	4729	32.06	4777	35.24	4874
	61	27.95	4540	31.44	4820	34.93	5074	38.82	5341	27.09	4720	30.10	4767	31.68	4816	34.82	4914
	63	27.62	4577	31.07	4859	34.52	5115	38.36	5384	26.77	4758	29.74	4806	31.31	4854	34.40	4953
	64	27.29	4614	30.70	4899	34.11	5156	37.90	5428	26.45	4796	29.39	4845	30.94	4894	34.00	4993
	66	26.96	4651	30.34	4938	33.71	5198	37.45	5472	26.14	4835	29.04	4884	30.57	4933	33.59	5034
	68	26.70	4688	30.03	4978	33.37	5240	37.08	5516	25.88	4874	28.75	4923	30.27	4973	33.26	5074
	70	26.38	4740	29.67	5033	32.97	5298	36.64	5576	25.57	4927	28.41	4977	29.90	5027	32.86	5130
	72	26.06	4792	29.32	5088	32.58	5356	36.20	5638	25.26	4982	28.07	5032	29.55	5083	32.47	5186
	73	25.75	4845	28.97	5144	32.18	5415	35.76	5700	24.96	5036	27.73	5087	29.19	5139	32.08	5244
	75	25.44	4898	28.62	5201	31.80	5474	35.33	5762	24.66	5092	27.40	5143	28.84	5195	31.69	5301
	77	25.13	4952	28.28	5258	31.42	5534	34.91	5826	24.36	5148	27.07	5200	28.49	5252	31.31	5360
	79	24.83	5006	27.94	5316	31.04	5595	34.49	5890	24.07	5204	26.74	5257	28.15	5310	30.94	5418
	81	24.53	5061	27.60	5374	30.67	5657	34.08	5955	23.78	5262	26.42	5315	27.81	5369	30.57	5478
	82	24.24	5117	27.27	5433	30.30	5719	33.67	6020	23.50	5320	26.11	5373	27.48	5428	30.20	5538
	84	23.95	5173	26.94	5493	29.94	5782	33.26	6086	23.21	5378	25.79	5432	27.15	5487	29.84	5599
	86	23.66	5230	26.62	5553	29.58	5846	32.86	6153	22.94	5437	25.48	5492	26.83	5548	29.48	5661
COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		41		47		50		59		68		75					
		Q	INPUT	Q	INPUT	Q	INPUT	Q	Q	INPUT	Q	INPUT	Q				
110%	59	38.30	5131	39.28	5195	41.36	5388	43.43	5549	44.73	5660	46.08	5773				
	61	37.84	5172	38.82	5237	40.87	5431	42.92	5594	44.20	5706	45.53	5820				
	63	37.40	5214	38.36	5279	40.39	5475	42.41	5639	43.68	5752	44.99	5867				
	64	36.95	5256	37.90	5321	39.91	5519	41.90	5685	43.16	5798	44.46	5914				
	66	36.51	5299	37.45	5364	39.44	5564	41.41	5730	42.65	5845	43.93	5962				
	68	36.15	5341	37.08	5408	39.05	5608	41.00	5777	42.23	5892	43.49	6010				
	70	35.72	5400	36.64	5467	38.58	5670	40.51	5840	41.72	5957	42.97	6076				
	72	35.29	5459	36.20	5527	38.11	5732	40.02	5904	41.22	6023	42.46	6143				
	73	34.87	5520	35.76	5588	37.66	5795	39.54	5969	40.73	6089	41.95	6211				
	75	34.45	5580	35.33	5649	37.20	5859	39.06	6035	40.24	6156	41.44	6279				
	77	34.04	5642	34.91	5712	36.76	5924	38.60	6101	39.75	6223	40.95	6348				
	79	33.63	5704	34.49	5774	36.32	5989	38.13	6169	39.28	6292	40.46	6418				
	81	33.22	5766	34.08	5838	35.88	6055	37.68	6236	38.81	6361	39.97	6488				
	82	32.82	5830	33.67	5902	35.45	6121	37.22	6305	38.34	6431	39.49	6560				
	84	32.43	5894	33.26	5967	35.03	6189	36.78	6374	37.88	6502	39.02	6632				
	86	32.04	5959	32.86	6033	34.60	6257	36.34	6444	37.43	6573	38.55	6705				

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 36K (Heating up to 4 indoor units series)

COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		-13		-5		0		5		14		17		23		32	
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
100%	59	27.46	4373	30.89	4643	34.32	4887	38.14	5144	26.62	4546	29.57	4591	31.13	4638	34.21	4733
	61	27.13	4408	30.52	4680	33.92	4926	37.68	5186	26.30	4582	29.22	4629	30.76	4675	33.80	4771
	63	26.81	4443	30.16	4718	33.51	4966	37.24	5228	25.99	4619	28.88	4666	30.40	4713	33.40	4809
	64	26.49	4479	29.81	4756	33.12	5006	36.80	5270	25.68	4656	28.53	4703	30.04	4751	33.01	4848
	66	26.18	4515	29.45	4794	32.72	5047	36.36	5312	25.38	4694	28.20	4741	29.68	4789	32.61	4887
	68	25.92	4552	29.16	4833	32.40	5087	36.00	5355	25.12	4732	27.92	4780	29.39	4828	32.29	4926
	70	25.61	4602	28.81	4886	32.01	5143	35.57	5414	24.82	4784	27.58	4832	29.03	4881	31.90	4981
	72	25.30	4652	28.46	4940	31.63	5200	35.14	5473	24.53	4837	27.25	4885	28.68	4935	31.52	5035
	73	25.00	4704	28.12	4994	31.25	5257	34.72	5534	24.23	4890	26.92	4939	28.34	4989	31.14	5091
	75	24.70	4755	27.79	5049	30.87	5315	34.30	5595	23.94	4944	26.60	4993	28.00	5044	30.77	5147
	77	24.40	4808	27.45	5105	30.50	5373	33.89	5656	23.65	4998	26.28	5048	27.66	5099	30.40	5203
	79	24.11	4861	27.12	5161	30.14	5432	33.48	5718	23.37	5053	25.97	5104	27.33	5155	30.04	5261
	81	23.82	4914	26.80	5218	29.77	5492	33.08	5781	23.09	5108	25.65	5160	27.00	5212	29.68	5319
	82	23.53	4968	26.48	5275	29.42	5553	32.69	5845	22.81	5165	25.35	5217	26.68	5270	29.32	5377
	84	23.25	5023	26.16	5333	29.06	5614	32.29	5909	22.54	5221	25.04	5274	26.36	5327	28.97	5436
	86	22.97	5078	25.84	5392	28.72	5675	31.91	5974	22.27	5279	24.74	5332	26.04	5386	28.62	5496
COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		41		47		50		59		68		75					
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT				
100%	59	37.18	4982	38.14	5043	40.16	5231	42.17	5388	43.43	5495	44.73	5605				
	61	36.74	5022	37.68	5084	39.68	5273	41.67	5431	42.92	5540	44.20	5650				
	63	36.31	5062	37.24	5125	39.21	5315	41.17	5475	42.41	5584	43.68	5696				
	64	35.88	5103	36.80	5166	38.75	5358	40.68	5519	41.90	5629	43.16	5742				
	66	35.45	5144	36.36	5208	38.29	5401	40.20	5564	41.41	5675	42.65	5788				
	68	35.10	5186	36.00	5250	37.91	5445	39.80	5608	41.00	5721	42.23	5835				
	70	34.68	5243	35.57	5308	37.45	5505	39.33	5670	40.51	5783	41.72	5899				
	72	34.26	5300	35.14	5366	37.00	5565	38.85	5732	40.02	5847	41.22	5964				
	73	33.85	5359	34.72	5425	36.56	5627	38.39	5795	39.54	5911	40.73	6030				
	75	33.45	5418	34.30	5485	36.12	5689	37.93	5859	39.06	5976	40.24	6096				
	77	33.04	5477	33.89	5545	35.69	5751	37.47	5924	38.60	6042	39.75	6163				
	79	32.65	5538	33.48	5606	35.26	5814	37.02	5989	38.13	6109	39.28	6231				
	81	32.26	5598	33.08	5668	34.84	5878	36.58	6055	37.68	6176	38.81	6299				
	82	31.87	5660	32.69	5730	34.42	5943	36.14	6121	37.22	6244	38.34	6369				
	84	31.49	5722	32.29	5793	34.01	6008	35.71	6189	36.78	6312	37.88	6439				
	86	31.11	5785	31.91	5857	33.60	6075	35.28	6257	36.34	6382	37.43	6510				
COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		-13		-5		0		5		14		17		23		32	
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
90%	59	26.50	4294	29.81	4559	33.12	4799	36.80	5052	25.68	4464	28.54	4509	30.04	4554	33.01	4647
	61	26.18	4328	29.46	4596	32.73	4838	36.37	5092	25.38	4500	28.20	4545	29.68	4591	32.62	4685
	63	25.87	4363	29.11	4633	32.34	4877	35.93	5133	25.08	4536	27.87	4582	29.33	4628	32.23	4723
	64	25.57	4399	28.76	4670	31.96	4916	35.51	5175	24.78	4573	27.54	4619	28.98	4665	31.85	4761
	66	25.26	4434	28.42	4708	31.58	4956	35.09	5217	24.49	4610	27.21	4656	28.64	4703	31.47	4799
	68	25.01	4470	28.14	4746	31.27	4996	34.74	5259	24.25	4647	26.94	4694	28.36	4741	31.16	4838
	70	24.71	4519	27.80	4798	30.89	5051	34.32	5316	23.95	4698	26.62	4745	28.02	4793	30.79	4891
	72	24.42	4569	27.47	4851	30.52	5106	33.91	5375	23.67	4749	26.30	4797	27.68	4846	30.42	4945
	73	24.12	4619	27.14	4904	30.15	5162	33.50	5434	23.38	4802	25.98	4850	27.35	4899	30.05	4999
	75	23.83	4670	26.81	4958	29.79	5219	33.10	5494	23.10	4855	25.67	4904	27.02	4953	29.69	5054
	77	23.55	4721	26.49	5013	29.43	5277	32.71	5554	22.83	4908	25.36	4958	26.70	5008	29.34	5110
	79	23.27	4773	26.17	5068	29.08	5335	32.31	5615	22.55	4962	25.06	5012	26.38	5063	28.98	5166
	81	22.99	4826	25.86	5124	28.73	5393	31.92	5677	22.28	5016	24.76	5067	26.06	5118	28.64	5223
	82	22.71	4879	25.55	5180	28.39	5453	31.54	5740	22.01	5072	24.46	5123	25.75	5175	28.29	5280
	84	22.44	4932	25.24	5237	28.05	5513	31.16	5803	21.75	5127	24.17	5179	25.44	5232	27.95	5338

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 36K (Heating up to 4 indoor units series)

COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		41		47		50		59		68		75					
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT				
90%	59	35.88	4892	36.80	4953	38.75	5137	40.69	5291	41.91	5396	43.17	5504				
	61	35.46	4931	36.37	4992	38.29	5178	40.21	5333	41.41	5440	42.66	5549				
	63	35.04	4971	35.93	5033	37.84	5220	39.73	5376	40.92	5484	42.15	5594				
	64	34.62	5011	35.51	5073	37.39	5262	39.26	5420	40.44	5528	41.65	5639				
	66	34.21	5052	35.09	5114	36.95	5304	38.79	5463	39.96	5573	41.16	5684				
	68	33.87	5092	34.74	5156	36.58	5347	38.41	5507	39.56	5618	40.75	5730				
	70	33.47	5148	34.32	5212	36.14	5406	37.95	5568	39.09	5679	40.26	5793				
	72	33.06	5205	33.91	5270	35.71	5465	37.49	5629	38.62	5742	39.78	5857				
	73	32.67	5262	33.50	5328	35.28	5525	37.04	5691	38.16	5805	39.30	5921				
	75	32.27	5320	33.10	5386	34.86	5586	36.60	5754	37.70	5869	38.83	5986				
	77	31.89	5379	32.71	5445	34.44	5648	36.16	5817	37.25	5933	38.36	6052				
	79	31.50	5438	32.31	5505	34.03	5710	35.73	5881	36.80	5999	37.90	6119				
	81	31.13	5498	31.92	5566	33.62	5773	35.30	5946	36.36	6065	37.45	6186				
	82	30.75	5558	31.54	5627	33.21	5836	34.87	6011	35.92	6131	37.00	6254				
	84	30.38	5619	31.16	5689	32.81	5900	34.46	6077	35.49	6199	36.55	6323				
	86	30.02	5681	30.79	5752	32.42	5965	34.04	6144	35.06	6267	36.12	6392				
COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		-13		-5		0		5		14		17		23		32	
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
80%	59	25.70	4251	28.92	4513	32.13	4751	35.70	5001	24.91	4419	27.68	4464	29.14	4509	32.02	4601
	61	25.40	4285	28.57	4550	31.75	4789	35.27	5041	24.62	4455	27.35	4500	28.79	4545	31.64	4638
	63	25.10	4320	28.23	4587	31.37	4828	34.86	5082	24.33	4491	27.03	4536	28.45	4582	31.27	4675
	64	24.80	4355	27.90	4624	31.00	4867	34.44	5123	24.04	4527	26.71	4573	28.11	4619	30.90	4713
	66	24.51	4390	27.57	4661	30.63	4906	34.03	5164	23.75	4563	26.39	4610	27.78	4656	30.53	4751
	68	24.26	4425	27.30	4698	30.33	4946	33.70	5206	23.52	4600	26.13	4647	27.51	4694	30.23	4789
	70	23.97	4474	26.97	4750	29.96	5000	33.29	5263	23.24	4651	25.82	4698	27.18	4745	29.86	4842
	72	23.68	4523	26.64	4802	29.60	5055	32.89	5321	22.96	4702	25.51	4749	26.85	4797	29.51	4895
	73	23.40	4573	26.32	4855	29.25	5111	32.50	5380	22.68	4754	25.20	4802	26.53	4850	29.15	4949
	75	23.12	4623	26.01	4909	28.90	5167	32.11	5439	22.41	4806	24.90	4855	26.21	4904	28.80	5004
	77	22.84	4674	25.70	4963	28.55	5224	31.72	5499	22.14	4859	24.60	4908	25.90	4958	28.46	5059
	79	22.57	4725	25.39	5017	28.21	5281	31.34	5559	21.87	4912	24.31	4962	25.58	5012	28.11	5114
	81	22.30	4777	25.08	5072	27.87	5339	30.97	5620	21.61	4966	24.01	5016	25.28	5067	27.78	5171
	82	22.03	4830	24.78	5128	27.54	5398	30.60	5682	21.35	5021	23.73	5072	24.97	5123	27.44	5227
	84	21.76	4883	24.48	5185	27.21	5457	30.23	5745	21.10	5076	23.44	5127	24.67	5179	27.11	5285
	86	21.50	4937	24.19	5242	26.88	5517	29.87	5808	20.84	5132	23.16	5184	24.38	5236	26.79	5343
COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		41		47		50		59		68		75					
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT				
80%	59	34.81	4843	35.70	4903	37.59	5085	39.47	5238	40.65	5342	41.87	5449				
	61	34.39	4882	35.27	4943	37.14	5126	39.00	5280	40.17	5386	41.38	5493				
	63	33.99	4921	34.86	4982	36.70	5168	38.54	5323	39.70	5429	40.89	5538				
	64	33.58	4961	34.44	5023	36.27	5209	38.08	5365	39.22	5473	40.40	5582				
	66	33.18	5001	34.03	5063	35.84	5251	37.63	5409	38.76	5517	39.92	5627				
	68	32.86	5041	33.70	5104	35.48	5294	37.26	5452	38.38	5561	39.53	5673				
	70	32.46	5097	33.29	5160	35.06	5352	36.81	5512	37.92	5623	39.05	5735				
	72	32.07	5153	32.89	5217	34.64	5411	36.37	5573	37.46	5684	38.58	5798				
	73	31.69	5210	32.50	5274	34.22	5470	35.93	5634	37.01	5747	38.12	5862				
	75	31.31	5267	32.11	5332	33.81	5530	35.50	5696	36.57	5810	37.66	5926				
	77	30.93	5325	31.72	5391	33.41	5591	35.08	5759	36.13	5874	37.21	5992				
	79	30.56	5383	31.34	5450	33.00	5653	34.65	5822	35.69	5939	36.77	6057				
	81	30.19	5443	30.97	5510	32.61	5715	34.24	5886	35.27	6004	36.32	6124				
	82	29.83	5503	30.60	5571	32.22	5778	33.83	5951	34.84	6070	35.89	6191				
	84	29.47	5563	30.23	5632	31.83	5841	33.42	6017	34.42	6137	35.46	6260				

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 42K (Cooling up to 5 indoor units series)

		Cooling Operation PERFORMANCE DATA																																																								
		OUTDOOR DB (°F)																																																								
COMBINATION (%)	IDDB (°F)	ID WB (°F)	5				19				32				50				59				70				77				81				86				95				102				104				113							
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT								
130%	70	64	43.10	26.29	0.61	4115	42.67	26.03	0.61	4152	42.21	25.75	0.61	4190	41.66	25.42	0.61	4224	41.25	25.16	0.61	4245	40.80	24.89	0.61	4386	40.24	24.55	0.61	4578	39.53	24.11	0.61	4887	38.60	23.55	0.61	5112	37.48	22.86	0.61	5303	34.48	21.03	0.61	5569	34.13	20.82	0.61	5625	28.16	17.18	0.61	5839				
	70	68	44.87	21.99	0.49	4138	44.43	21.77	0.49	4176	43.95	21.53	0.49	4213	43.38	21.26	0.49	4247	42.95	21.05	0.49	4269	42.49	20.82	0.49	4409	41.90	20.53	0.49	4602	41.16	20.17	0.49	4910	40.19	19.70	0.49	5136	39.02	19.12	0.49	5327	35.90	17.59	0.49	5593	35.54	17.42	0.49	5648	29.32	14.37	0.49	5862				
	72	64	44.43	28.88	0.65	4156	43.99	28.59	0.65	4194	43.51	28.28	0.65	4232	42.95	27.92	0.65	4266	42.53	27.64	0.65	4288	42.07	27.34	0.65	4430	41.48	26.97	0.65	4625	40.75	26.49	0.65	4936	39.80	25.87	0.65	5164	38.64	25.11	0.65	5357	35.55	23.10	0.65	5625	35.19	22.87	0.65	5682	29.03	18.87	0.65	5898				
	72	68	45.79	24.27	0.53	4180	45.34	24.03	0.53	4218	44.84	23.77	0.53	4256	44.27	23.46	0.53	4290	43.83	23.23	0.53	4312	43.35	22.98	0.53	4454	42.75	22.66	0.53	4648	42.00	22.26	0.53	4960	41.01	21.74	0.53	5188	39.82	21.10	0.53	5381	36.63	19.42	0.53	5649	36.27	19.22	0.53	5705	29.92	15.86	0.53	5922				
	72	72	46.57	19.09	0.41	4196	46.11	18.90	0.41	4234	45.61	18.70	0.41	4272	45.02	18.46	0.41	4306	44.58	18.28	0.41	4328	44.09	18.08	0.41	4470	43.48	17.83	0.41	4664	42.71	17.51	0.41	4976	41.71	17.10	0.41	5204	40.50	16.60	0.41	5397	37.26	15.28	0.41	5665	36.88	15.12	0.41	5722	30.43	12.48	0.41	5938				
	73	64	45.34	31.28	0.69	4198	44.89	30.97	0.69	4236	44.40	30.64	0.69	4275	43.83	30.24	0.69	4309	43.40	29.94	0.69	4331	42.92	29.62	0.69	4475	42.33	29.21	0.69	4671	41.58	28.69	0.69	4986	40.61	28.02	0.69	5216	39.43	27.20	0.69	5411	36.27	25.03	0.69	5682	35.91	24.78	0.69	5739	29.62	20.44	0.69	5957				
	73	68	46.73	26.63	0.57	4222	46.26	26.37	0.57	4260	45.76	26.08	0.57	4299	45.17	25.75	0.57	4333	44.72	25.49	0.57	4355	44.24	25.22	0.57	4499	43.63	24.87	0.57	4695	42.86	24.43	0.57	5010	41.85	23.86	0.57	5240	40.63	23.16	0.57	5435	37.38	21.31	0.57	5706	37.01	21.09	0.57	5763	30.53	17.40	0.57	5981				
	73	72	47.52	21.38	0.45	4238	47.05	21.17	0.45	4277	46.54	20.94	0.45	4315	45.94	20.67	0.45	4350	45.48	20.47	0.45	4372	44.99	20.25	0.45	4515	44.37	19.97	0.45	4712	43.58	19.61	0.45	5026	42.56	19.15	0.45	5256	41.32	18.60	0.45	5451	38.02	17.11	0.45	5722	37.64	16.94	0.45	5779	31.05	13.97	0.45	5998				
	75	64	46.26	33.77	0.73	4241	45.80	33.44	0.73	4279	45.31	33.07	0.73	4318	44.72	32.65	0.73	4353	44.28	32.33	0.73	4375	43.80	31.97	0.73	4520	43.20	31.53	0.73	4718	42.43	30.97	0.73	5036	41.44	30.25	0.73	5269	40.23	29.37	0.73	5466	37.01	27.02	0.73	5739	36.64	26.75	0.73	5797	30.23	22.07	0.73	6018				
	75	68	47.68	29.08	0.61	4265	47.21	28.80	0.61	4303	46.69	28.48	0.61	4342	46.09	28.12	0.61	4377	45.64	27.84	0.61	4399	45.14	27.54	0.61	4544	44.52	27.16	0.61	4743	43.73	26.68	0.61	5061	42.71	26.05	0.61	5293	41.46	25.29	0.61	5490	38.14	23.27	0.61	5764	37.76	23.04	0.61	5821	31.15	19.00	0.61	6042				
	75	72	48.49	23.76	0.49	4281	48.01	23.52	0.49	4320	47.49	23.27	0.49	4359	46.88	22.97	0.49	4394	46.41	22.74	0.49	4416	45.91	22.50	0.49	4561	45.27	22.18	0.49	4759	44.47	21.79	0.49	5077	43.43	21.28	0.49	5309	42.17	20.66	0.49	5506	38.79	19.01	0.49	5780	38.41	18.82	0.49	5838	31.68	15.53	0.49	6058				
	75	75	49.17	18.19	0.37	4301	48.68	18.01	0.37	4339	48.15	17.82	0.37	4378	47.53	17.59	0.37	4413	47.06	17.41	0.37	4435	46.55	17.22	0.37	4580	45.91	16.99	0.37	4779	45.10	16.69	0.37	5096	44.04	16.29	0.37	5329	42.76	15.82	0.37	5526	39.34	14.55	0.37	5800	38.94	14.41	0.37	5857	32.13	11.89	0.37	6078				
	77	64	47.69	36.72	0.77	4283	47.22	36.36	0.77	4322	46.71	35.96	0.77	4362	46.11	35.50	0.77	4397	45.65	35.15	0.77	4419	45.15	34.77	0.77	4566	44.53	34.29	0.77	4766	43.74	33.68	0.77	5087	42.72	32.89	0.77	5322	41.47	31.94	0.77	5521	38.16	29.38	0.77	5797	37.77	29.09	0.77	5856	31.16	24.00	0.77	6078				
	77	68	49.15	31.95	0.65	4308	48.67	31.63	0.65	4347	48.14	31.29	0.65	4386	47.52	30.89	0.65	4421	47.05	30.58	0.65	4444	46.54	30.25	0.65	4590	45.89	29.83	0.65	4791	45.08	29.30	0.65	5112	44.03	28.62	0.65	5346	42.74	27.78	0.65	5545	39.32	25.56	0.65	5822	38.93	25.31	0.65	5880	32.12	20.88	0.65	6103				
	77	72	49.99	26.49	0.53	4325	49.49	26.23	0.53	4364	48.96	25.95	0.53	4403	48.33	25.61	0.53	4438	47.85	25.36	0.53	4460	47.33	25.08	0.53	4607	46.67	24.74	0.53	4807	45.85	24.30	0.53	5128	44.77	23.73	0.53	5363	43.47	23.04	0.53	5562	39.99	21.20	0.53	5839	39.59	20.98	0.53	5897	32.66	17.31	0.53	6120				
	77	75	50.69	20.78	0.41	4344	50.19	20.58	0.41	4383	49.64	20.35	0.41	4422	49.00	20.09	0.41	4458	48.52	19.89	0.41	4480	47.99	19.68	0.41	4626	47.33	19.40	0.41	4827	46.49	19.06	0.41	5148	45.40	18.61	0.41	5383	44.08	18.07	0.41	5582	40.55	16.63	0.41	5858	40.15	16.46	0.41	5916	33.12	13.58	0.41	6139				
	79	64	49.17	39.83	0.81	4327	48.68	39.43	0.81	4366	48.15	39.00	0.81	4406	47.53	38.50	0.81	4441	47.06	38.12	0.81	4464	46.55	37.71	0.81	4612	45.91	37.19	0.81	4814	45.10	36.53	0.81	5139	44.04	35.67	0.81	5376	42.76	34.63	0.81	5577	39.34	31.86	0.81	5856	38.94	31.54	0.81	5915	32.13	26.02	0.81	6140				
	79	68	50.67	34.96	0.69	4351	50.17	34.62	0.69																																																	

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 42K (Cooling up to 5 indoor units series)

	Cooling Operation PERFORMANCE DATA																	
	OUTDOOR DB (°F)																	
COMBINATION (%)	IDDB (°F)	IDWB (°F)	115				120				122				126			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT
130%	70	64	27.32	16.66	0.61	5880	24.31	14.83	0.61	5998	23.34	14.24	0.61	6058	22.17	13.53	0.61	6179
	70	68	28.44	13.94	0.49	5903	25.31	12.40	0.49	6021	24.30	11.91	0.49	6081	23.09	11.31	0.49	6203
	72	64	28.16	18.30	0.65	5939	25.06	16.29	0.65	6058	24.06	15.64	0.65	6119	22.86	14.86	0.65	6241
	72	68	29.02	15.38	0.53	5963	25.83	13.69	0.53	6082	24.80	13.14	0.53	6143	23.56	12.49	0.53	6265
	72	72	29.52	12.10	0.41	5979	26.27	10.77	0.41	6098	25.22	10.34	0.41	6159	23.96	9.82	0.41	6281
	73	64	28.74	19.83	0.69	5999	25.57	17.65	0.69	6119	24.55	16.94	0.69	6181	23.32	16.09	0.69	6304
	73	68	29.62	16.88	0.57	6023	26.36	15.02	0.57	6143	25.30	14.42	0.57	6205	24.04	13.70	0.57	6328
	73	72	30.12	13.55	0.45	6040	26.81	12.06	0.45	6160	25.73	11.58	0.45	6221	24.45	11.00	0.45	6345
	75	64	29.32	21.41	0.73	6060	26.10	19.05	0.73	6181	25.05	18.29	0.73	6243	23.80	17.37	0.73	6368
	75	68	30.22	18.43	0.61	6084	26.90	16.41	0.61	6205	25.82	15.75	0.61	6267	24.53	14.96	0.61	6392
	75	72	30.73	15.06	0.49	6101	27.35	13.40	0.49	6222	26.26	12.87	0.49	6284	24.95	12.22	0.49	6409
	75	75	31.16	11.53	0.37	6120	27.74	10.26	0.37	6241	26.63	9.85	0.37	6303	25.30	9.36	0.37	6428
	77	64	30.23	23.28	0.77	6121	26.90	20.72	0.77	6244	25.83	19.89	0.77	6306	24.54	18.89	0.77	6432
	77	68	31.15	20.25	0.65	6146	27.73	18.02	0.65	6268	26.62	17.30	0.65	6331	25.29	16.44	0.65	6457
	77	72	31.68	16.79	0.53	6162	28.20	14.95	0.53	6285	27.07	14.35	0.53	6347	25.72	13.63	0.53	6474
	77	75	32.13	13.17	0.41	6182	28.59	11.72	0.41	6304	27.45	11.25	0.41	6367	26.08	10.69	0.41	6493
	79	64	31.16	25.24	0.81	6183	27.74	22.47	0.81	6307	26.63	21.57	0.81	6370	25.30	20.49	0.81	6497
	79	68	32.12	22.16	0.69	6208	28.59	19.72	0.69	6331	27.44	18.93	0.69	6395	26.07	17.99	0.69	6522
	79	72	32.66	18.62	0.57	6224	29.07	16.57	0.57	6348	27.91	15.91	0.57	6411	26.51	15.11	0.57	6539
	79	75	33.12	14.90	0.45	6244	29.48	13.27	0.45	6368	28.30	12.73	0.45	6431	26.88	12.10	0.45	6559
	79	79	33.65	11.10	0.33	6267	29.95	9.88	0.33	6391	28.75	9.49	0.33	6454	27.31	9.01	0.33	6582
	81	64	31.80	27.03	0.85	6245	28.30	24.06	0.85	6370	27.17	23.09	0.85	6434	25.81	21.94	0.85	6563
	81	66	32.45	25.63	0.79	6255	28.88	22.82	0.79	6380	27.72	21.90	0.79	6444	26.34	20.81	0.79	6573
	81	68	32.77	23.92	0.73	6270	29.17	21.29	0.73	6395	28.00	20.44	0.73	6459	26.60	19.42	0.73	6588
	81	72	33.33	20.33	0.61	6287	29.66	18.10	0.61	6412	28.48	17.37	0.61	6476	27.05	16.50	0.61	6605
	81	75	33.80	16.56	0.49	6307	30.08	14.74	0.49	6432	28.88	14.15	0.49	6496	27.43	13.44	0.49	6625
	81	79	34.34	12.71	0.37	6330	30.56	11.31	0.37	6455	29.34	10.86	0.37	6519	27.87	10.31	0.37	6648
	82	64	32.12	28.59	0.89	6308	28.59	25.44	0.89	6434	27.44	24.42	0.89	6499	26.07	23.20	0.89	6629
	82	68	32.77	25.24	0.77	6333	29.17	22.46	0.77	6459	28.00	21.56	0.77	6524	26.60	20.48	0.77	6654
	82	72	33.10	21.52	0.65	6350	29.46	19.15	0.65	6477	28.28	18.38	0.65	6541	26.87	17.46	0.65	6671
	82	75	33.66	17.84	0.53	6370	29.96	15.88	0.53	6497	28.76	15.24	0.53	6561	27.32	14.48	0.53	6691
	82	79	34.14	14.00	0.41	6394	30.38	12.46	0.41	6520	29.17	11.96	0.41	6584	27.71	11.36	0.41	6715
	84	64	32.44	29.52	0.91	6371	28.87	26.27	0.91	6498	27.72	25.22	0.91	6564	26.33	23.96	0.91	6695
	84	68	33.10	26.81	0.81	6396	29.46	23.86	0.81	6524	28.28	22.91	0.81	6589	26.87	21.76	0.81	6721
	84	72	33.76	23.30	0.69	6414	30.05	20.73	0.69	6541	28.85	19.90	0.69	6606	27.41	18.91	0.69	6738
	84	75	34.00	19.38	0.57	6434	30.26	17.25	0.57	6562	29.05	16.56	0.57	6627	27.60	15.73	0.57	6758
	84	79	34.48	15.51	0.45	6458	30.68	13.81	0.45	6585	29.46	13.26	0.45	6650	27.98	12.59	0.45	6782
	86	64	32.76	29.82	0.91	6435	29.16	26.54	0.91	6563	27.99	25.47	0.91	6629	26.59	24.20	0.91	6762
	86	68	33.43	28.42	0.85	6460	29.75	25.29	0.85	6589	28.56	24.28	0.85	6655	27.14	23.07	0.85	6788
	86	72	34.10	24.89	0.73	6478	30.35	22.16	0.73	6607	29.14	21.27	0.73	6672	27.68	20.21	0.73	6805
	86	75	34.34	20.95	0.61	6498	30.56	18.64	0.61	6627	29.34	17.90	0.61	6693	27.87	17.00	0.61	6826
	86	79	34.82	17.06	0.49	6522	30.99	15.19	0.49	6651	29.75	14.58	0.49	6717	28.26	13.85	0.49	6850
	88	64	33.09	30.11	0.91	6499	29.45	26.80	0.91	6629	28.27	25.73	0.91	6695	26.86	24.44	0.91	6830
	88	68	33.77	30.05	0.89	6525	30.05	26.75	0.89	6655	28.85	25.68	0.89	6721	27.41	24.39	0.89	6856
	88	72	34.44	26.52	0.77	6543	30.65	23.60	0.77	6673	29.43	22.66	0.77	6739	27.96	21.53	0.77	6873
	88	75	34.68	22.54	0.65	6563	30.87	20.06	0.65	6694	29.63	19.26	0.65	6760	28.15	18.30	0.65	6894
	88	79	35.17	18.64	0.53	6587	31.30	16.59	0.53	6718	30.05	15.93	0.53	6784	28.55	15.13	0.53	6918
	90	64	33.42	30.41	0.91	6564	29.75	27.07	0.91	6695	28.56	25.99	0.91	6762	27.13	24.69	0.91	6898
	90	68	34.10	31.04	0.91	6590	30.35	27.62	0.91	6722	29.14	26.52	0.91	6789	27.68	25.19	0.91	6924
	90	72	34.79	28.18	0.81	6608	30.96	25.08	0.81	6739	29.72	24.07	0.81	6807	28.24	22.87	0.81	6942
	90	75	35.03	24.17	0.69	6629	31.18	21.51	0.69	6761	29.93	20.65	0.69	6828	28.43	19.62	0.69	6963
	90	79	35.52	20.25	0.57	6653	31.61	18.02	0.57	6785	30.35	17.30	0.57	6852	28.83	16.43	0.57	6987

Capacities and Selection Data (Capacity Characteristics Charts) 42K (Cooling up to 5 indoor units series)

		Cooling Operation PERFORMANCE DATA																																																				
		OUTDOOR DB (°F)																																																				
COMBINATION (%)	IDDB (°F)	ID WB (°F)	5				19				32				50				59				70				77				81				86				95				102				104				113			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT								
120%	70	64	42.69	26.04	0.61	4075	42.27	25.78	0.61	4112	41.81	25.50	0.61	4150	41.27	25.18	0.61	4183	40.86	24.93	0.61	4204	40.42	24.66	0.61	4344	39.86	24.31	0.61	4534	39.16	23.88	0.61	4840	38.24	23.33	0.61	5063	37.12	22.65	0.61	5253	34.15	20.83	0.61	5516	33.81	20.63	0.61	5571	27.90	17.02	0.61	5783
	70	68	44.45	21.78	0.49	4099	44.01	21.57	0.49	4136	43.53	21.33	0.49	4173	42.97	21.06	0.49	4207	42.55	20.85	0.49	4228	42.09	20.62	0.49	4367	41.50	20.34	0.49	4558	40.77	19.98	0.49	4863	39.81	19.51	0.49	5087	38.66	18.94	0.49	5276	35.56	17.43	0.49	5539	35.21	17.25	0.49	5594	29.05	14.23	0.49	5806
	72	64	44.01	28.61	0.65	4116	43.58	28.32	0.65	4154	43.10	28.02	0.65	4192	42.55	27.66	0.65	4225	42.13	27.38	0.65	4247	41.67	27.08	0.65	4387	41.09	26.71	0.65	4580	40.37	26.24	0.65	4889	39.42	25.62	0.65	5114	38.27	24.88	0.65	5306	35.21	22.89	0.65	5571	34.86	22.66	0.65	5627	28.76	18.69	0.65	5841
	72	68	45.36	24.04	0.53	4140	44.91	23.80	0.53	4178	44.42	23.54	0.53	4215	43.85	23.24	0.53	4249	43.42	23.01	0.53	4270	42.94	22.76	0.53	4411	42.35	22.45	0.53	4604	41.60	22.05	0.53	4913	40.63	21.53	0.53	5138	39.44	20.91	0.53	5329	36.29	19.23	0.53	5595	35.93	19.04	0.53	5651	29.64	15.71	0.53	5865
	72	72	46.13	18.91	0.41	4156	45.67	18.73	0.41	4194	45.18	18.52	0.41	4232	44.60	18.28	0.41	4265	44.15	18.10	0.41	4287	43.67	17.91	0.41	4427	43.07	17.66	0.41	4620	42.31	17.35	0.41	4929	41.32	16.94	0.41	5154	40.11	16.45	0.41	5346	36.91	15.13	0.41	5611	36.54	14.98	0.41	5667	30.14	12.36	0.41	5881
	73	64	44.91	30.99	0.69	4158	44.46	30.68	0.69	4196	43.98	30.35	0.69	4234	43.42	29.96	0.69	4268	42.99	29.66	0.69	4290	42.52	29.34	0.69	4432	41.93	28.93	0.69	4626	41.19	28.42	0.69	4938	40.23	27.76	0.69	5166	39.05	26.95	0.69	5359	35.93	24.79	0.69	5628	35.57	24.54	0.69	5684	29.35	20.25	0.69	5900
	73	68	46.28	26.38	0.57	4182	45.83	26.12	0.57	4220	45.33	25.84	0.57	4258	44.75	25.51	0.57	4292	44.30	25.25	0.57	4314	43.82	24.98	0.57	4456	43.22	24.63	0.57	4650	42.45	24.20	0.57	4962	41.46	23.63	0.57	5190	40.25	22.94	0.57	5383	37.03	21.11	0.57	5652	36.66	20.90	0.57	5708	30.24	17.24	0.57	5924
	73	72	47.07	21.18	0.45	4198	46.61	20.97	0.45	4236	46.10	20.74	0.45	4274	45.51	20.48	0.45	4308	45.06	20.28	0.45	4330	44.57	20.05	0.45	4472	43.95	19.78	0.45	4667	43.17	19.43	0.45	4979	42.16	18.97	0.45	5206	40.93	18.42	0.45	5400	37.66	16.95	0.45	5668	37.28	16.78	0.45	5724	30.76	13.84	0.45	5941
	75	64	45.83	33.45	0.73	4200	45.37	33.12	0.73	4238	44.88	32.76	0.73	4277	44.30	32.34	0.73	4311	43.86	32.02	0.73	4333	43.39	31.67	0.73	4472	42.79	31.24	0.73	4667	42.03	30.68	0.73	4988	41.05	29.96	0.73	5218	39.85	29.09	0.73	5454	36.66	26.76	0.73	5684	36.30	26.50	0.73	5741	29.94	21.86	0.73	5960
	75	68	47.23	28.81	0.61	4224	46.76	28.52	0.61	4262	46.25	28.21	0.61	4301	45.66	27.85	0.61	4335	45.21	27.58	0.61	4357	44.71	27.28	0.61	4501	44.10	26.90	0.61	4697	43.32	26.42	0.61	5012	42.30	25.80	0.61	5242	41.07	25.05	0.61	5438	37.78	23.05	0.61	5709	37.41	22.82	0.61	5766	30.86	18.83	0.61	5984
	75	72	48.03	23.54	0.49	4241	47.56	23.30	0.49	4279	47.04	23.05	0.49	4317	46.44	22.75	0.49	4352	45.98	22.53	0.49	4374	45.48	22.28	0.49	4517	44.85	21.98	0.49	4714	44.05	21.59	0.49	5029	43.02	21.08	0.49	5259	41.77	20.47	0.49	5454	38.43	18.83	0.49	5725	38.04	18.64	0.49	5782	31.39	15.38	0.49	6001
	75	75	48.70	18.02	0.37	4260	48.22	17.84	0.37	4298	47.70	17.65	0.37	4337	47.09	17.42	0.37	4371	46.62	17.25	0.37	4393	46.11	17.06	0.37	4537	45.48	16.83	0.37	4733	44.67	16.53	0.37	5048	43.62	16.14	0.37	5278	42.35	15.67	0.37	5473	38.97	14.42	0.37	5745	38.58	14.27	0.37	5802	31.82	11.78	0.37	6020
	77	64	47.24	36.38	0.77	4242	46.78	36.02	0.77	4281	46.27	35.63	0.77	4320	45.67	35.17	0.77	4355	45.22	34.82	0.77	4377	44.73	34.44	0.77	4522	44.11	33.97	0.77	4720	43.33	33.36	0.77	5038	42.32	32.58	0.77	5271	41.08	31.63	0.77	5468	37.80	29.10	0.77	5742	37.42	28.81	0.77	5799	30.87	23.77	0.77	6020
	77	68	48.69	31.65	0.65	4267	48.21	31.33	0.65	4305	47.68	30.99	0.65	4344	47.07	30.60	0.65	4379	46.60	30.29	0.65	4401	46.10	29.96	0.65	4545	45.46	29.55	0.65	4745	44.66	29.03	0.65	5063	43.61	28.35	0.65	5295	42.34	27.52	0.65	5492	38.95	25.32	0.65	5766	38.56	25.07	0.65	5824	31.82	20.68	0.65	6045
	77	72	49.52	26.24	0.53	4283	49.03	25.98	0.53	4322	48.49	25.70	0.53	4361	47.87	25.37	0.53	4396	47.40	25.12	0.53	4418	46.88	24.85	0.53	4563	46.23	24.50	0.53	4762	45.42	24.07	0.53	5080	44.35	23.51	0.53	5312	43.06	22.82	0.53	5509	39.62	21.00	0.53	5783	39.22	20.79	0.53	5841	32.36	17.15	0.53	6061
	77	75	50.21	20.59	0.41	4303	49.71	20.38	0.41	4342	49.17	20.16	0.41	4381	48.54	19.90	0.41	4416	48.06	19.70	0.41	4437	47.54	19.49	0.41	4582	46.88	19.22	0.41	4781	46.05	18.88	0.41	5099	44.97	18.44	0.41	5332	43.66	17.90	0.41	5529	40.17	16.47	0.41	5803	39.77	16.31	0.41	5860	32.81	13.45	0.41	6081
	79	64	48.70	39.45	0.81	4285	48.22	39.06	0.81	4324	47.70	38.63	0.81	4364	47.09	38.14	0.81	4399	46.62	37.76	0.81	4421	46.11	37.35	0.81	4567	45.48	36.84	0.81	4768	44.67	36.18	0.81	5089	43.62	35.34	0.81	5324	42.35	34.31	0.81	5523	38.97	31.56	0.81	5800	38.58	31.25	0.81	5858	31.82	25.78	0.81	6081
	79	68	50.20	34.63	0.69	4310	49.70	34.29	0.69	4349	49.16	33.92	0.69	4388	48.53	33.48	0.69	4424	48.05	33.15	0.69	4446	47.52	32.79	0.69	4592	46.87	32.34	0.69	4793	46.04	31.77	0.69	5114	44.96	31.02	0.69	5349	43.65	30.12	0.69	5548	40.16	27.71	0.69	5825	39.76	27.43	0.69	5883	32.80	22.63	0.69	6106
	79	72	51.05	29.10	0.57	4327	50.54	28.81	0.57	4366	49.99	28.50	0.57	4405	49.35	28.13	0.57	4440	48.86	27.85	0.57	4463	48.33	27.55	0.57	4609	47.66	27.17	0.57	4810	46.82	26.69	0.57	5131	45.72	26.06	0.57	5366	44.39	25.30	0.57	5565	40.84	23.28	0.57	5841	40.43	23.05	0.57	5900	33.36	19.01	0.57	6123
	79	75	51.76	23.29	0.45	4347	51.25	23.06	0.45	4386	50.69	22.81	0.45	4425	50.04	22.52	0.45	4460	49.55	22.30	0.45	4482	49.01	22.05	0.45	4629	48.33	21.75	0.45	4829	47.48	21.36	0.45	5151	46.36	20.86	0.45	5385	45.01	20.26	0.45	5585	41.41	18.64	0.45	5861	41.00	18.45	0.45	5919	33.82	15.22	0.45	6142
	79	79	52.59	17.26	0.33	4369	52.07	17.18	0.33	4408	51.50	17.00	0.33	4448	50.84	16.78	0.33	4483	50.34	16.61	0.33	4505	49.79	16.43	0.33	4652	49.10	16.20	0.33	4852	48.24	15.92	0.33	5173	47.11	15.54	0.33	5408	45.73	15.09	0.33	5607	42.08	13.88	0.33	5884	41.65	13.75	0.33	5942	34.36	11.34	0.33	6165
	81	64	49.70	42.24	0.85	4328	49.21	41.83	0.85	4368	48.67	41.37	0.85	4408	48.05	40.84	0.85	4443	47.57	40.44	0.85	4466	47.05	40.00	0.85	4614	46.40	39.44	0.85	4815	45.58	38.95	0.85	5141	44.51	37.84	0.85	5378	43.22	36.74	0.85	5579	39.76	33.80	0.85	5858	39.36	33.46	0.85	5917	32.47	27.60	0.85	6142
	81	66	50.71	40.06	0.79	4338	50.21	39.67	0.79	4378	49.66	39.23	0.79	4418	49.03	38.73	0.79	4453	48.54	38.35	0.79	4476	48.01	37.93	0.79	4624	47.35	37.41	0.79	4826	46.51	36.75	0.79	5151	45.42	35.88	0.79	5388	44.10	34.84	0.79	5589	40.57	32.05	0.79	5868	40.17	31.73	0.79	5927	33.14	26.18	0.79	6152
	81	68	51.22	37.39	0.73	4353	50.71	37.02	0.																																													

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 42K (Cooling up to 5 indoor units series)

	Cooling Operation PERFORMANCE DATA																	
	OUTDOOR DB (°F)																	
COMBINATION (%)	IDDB (°F)	IDWB (°F)	115				120				122				126			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT
120%	70	64	27.06	16.51	0.61	5823	24.08	14.69	0.61	5940	23.12	14.10	0.61	6000	21.96	13.40	0.61	6120
	70	68	28.17	13.81	0.49	5847	25.08	12.29	0.49	5964	24.07	11.80	0.49	6023	22.87	11.21	0.49	6143
	72	64	27.90	18.13	0.65	5882	24.83	16.14	0.65	6000	23.83	15.49	0.65	6060	22.64	14.72	0.65	6182
	72	68	28.75	15.24	0.53	5906	25.59	13.56	0.53	6024	24.56	13.02	0.53	6084	23.34	12.37	0.53	6205
	72	72	29.24	11.99	0.41	5922	26.02	10.67	0.41	6040	24.98	10.24	0.41	6100	23.73	9.73	0.41	6222
	73	64	28.46	19.64	0.69	5942	25.33	17.48	0.69	6061	24.32	16.78	0.69	6121	23.10	15.94	0.69	6244
	73	68	29.34	16.72	0.57	5966	26.11	14.88	0.57	6085	25.06	14.29	0.57	6145	23.81	13.57	0.57	6268
	73	72	29.83	13.43	0.45	5982	26.55	11.95	0.45	6101	25.49	11.47	0.45	6162	24.22	10.90	0.45	6284
	75	64	29.05	21.20	0.73	6002	25.85	18.87	0.73	6122	24.82	18.12	0.73	6183	23.58	17.21	0.73	6307
	75	68	29.93	18.26	0.61	6026	26.64	16.25	0.61	6146	25.58	15.60	0.61	6208	24.30	14.82	0.61	6331
	75	72	30.44	14.92	0.49	6042	27.10	13.28	0.49	6163	26.01	12.75	0.49	6224	24.71	12.11	0.49	6348
	75	75	30.87	11.42	0.37	6062	27.47	10.17	0.37	6182	26.38	9.76	0.37	6243	25.06	9.27	0.37	6367
	77	64	29.94	23.06	0.77	6062	26.65	20.52	0.77	6184	25.58	19.70	0.77	6246	24.31	18.71	0.77	6371
	77	68	30.86	20.06	0.65	6087	27.47	17.85	0.65	6208	26.37	17.14	0.65	6270	25.05	16.28	0.65	6395
	77	72	31.39	16.63	0.53	6104	27.93	14.80	0.53	6225	26.82	14.21	0.53	6287	25.47	13.50	0.53	6412
	77	75	31.82	13.05	0.41	6123	28.32	11.61	0.41	6245	27.19	11.15	0.41	6306	25.83	10.59	0.41	6432
	79	64	30.87	25.00	0.81	6124	27.47	22.25	0.81	6246	26.38	21.36	0.81	6309	25.06	20.30	0.81	6435
	79	68	31.82	21.95	0.69	6148	28.32	19.54	0.69	6271	27.18	18.76	0.69	6334	25.82	17.82	0.69	6460
	79	72	32.36	18.44	0.57	6165	28.80	16.41	0.57	6288	27.65	15.76	0.57	6350	26.26	14.97	0.57	6477
	79	75	32.81	14.76	0.45	6185	29.20	13.14	0.45	6308	28.03	12.61	0.45	6370	26.63	11.98	0.45	6497
	79	79	33.33	11.00	0.33	6208	29.67	9.79	0.33	6330	28.48	9.40	0.33	6393	27.06	8.93	0.33	6519
	81	64	31.50	26.78	0.85	6185	28.04	23.83	0.85	6309	26.91	22.88	0.85	6373	25.57	21.73	0.85	6500
	81	66	32.14	25.39	0.79	6195	28.61	22.60	0.79	6319	27.46	21.70	0.79	6383	26.09	20.61	0.79	6510
	81	68	32.46	23.70	0.73	6210	28.89	21.09	0.73	6334	27.74	20.25	0.73	6398	26.35	19.24	0.73	6525
	81	72	33.02	20.14	0.61	6227	29.38	17.92	0.61	6351	28.21	17.21	0.61	6415	26.80	16.35	0.61	6542
	81	75	33.48	16.40	0.49	6247	29.80	14.60	0.49	6371	28.60	14.02	0.49	6435	27.17	13.32	0.49	6562
	81	79	34.01	12.59	0.37	6270	30.27	11.20	0.37	6394	29.06	10.75	0.37	6458	27.61	10.22	0.37	6585
	82	64	31.82	28.32	0.89	6247	28.32	25.20	0.89	6372	27.18	24.19	0.89	6436	25.82	22.98	0.89	6565
	82	68	32.46	25.00	0.77	6273	28.89	22.25	0.77	6398	27.74	21.36	0.77	6462	26.35	20.29	0.77	6590
	82	72	32.79	21.31	0.65	6290	29.18	18.97	0.65	6415	28.02	18.21	0.65	6479	26.61	17.30	0.65	6608
	82	75	33.35	17.67	0.53	6310	29.68	15.73	0.53	6435	28.49	15.10	0.53	6499	27.07	14.35	0.53	6628
	82	79	33.81	13.86	0.41	6333	30.09	12.34	0.41	6458	28.89	11.84	0.41	6522	27.45	11.25	0.41	6651
	84	64	32.13	29.24	0.91	6310	28.60	26.02	0.91	6436	27.45	24.98	0.91	6501	26.08	23.73	0.91	6631
	84	68	32.79	26.56	0.81	6335	29.18	23.64	0.81	6462	28.02	22.69	0.81	6526	26.61	21.56	0.81	6656
	84	72	33.44	23.08	0.69	6353	29.77	20.54	0.69	6479	28.58	19.72	0.69	6543	27.15	18.73	0.69	6674
	84	75	33.68	19.20	0.57	6373	29.98	17.09	0.57	6499	28.78	16.40	0.57	6564	27.34	15.58	0.57	6694
	84	79	34.15	15.37	0.45	6396	30.39	13.68	0.45	6523	29.18	13.13	0.45	6587	27.72	12.47	0.45	6718
	86	64	32.45	29.53	0.91	6373	28.88	26.29	0.91	6501	27.73	25.23	0.91	6566	26.34	23.97	0.91	6697
	86	68	33.12	28.15	0.85	6399	29.47	25.05	0.85	6526	28.30	24.05	0.85	6591	26.88	22.85	0.85	6723
	86	72	33.78	24.66	0.73	6416	30.06	21.95	0.73	6544	28.86	21.07	0.73	6609	27.42	20.02	0.73	6740
	86	75	34.02	20.75	0.61	6437	30.27	18.47	0.61	6564	29.06	17.73	0.61	6630	27.61	16.84	0.61	6761
	86	79	34.49	16.90	0.49	6460	30.70	15.04	0.49	6588	29.47	14.44	0.49	6653	28.00	13.72	0.49	6785
	88	64	32.78	29.83	0.91	6437	29.17	26.55	0.91	6566	28.01	25.49	0.91	6631	26.61	24.21	0.91	6764
	88	68	33.45	29.77	0.89	6463	29.77	26.49	0.89	6592	28.58	25.43	0.89	6657	27.15	24.16	0.89	6790
	88	72	34.12	26.27	0.77	6480	30.36	23.38	0.77	6609	29.15	22.45	0.77	6675	27.69	21.32	0.77	6808
	88	75	34.36	22.33	0.65	6501	30.58	19.88	0.65	6630	29.35	19.08	0.65	6696	27.89	18.13	0.65	6829
	88	79	34.84	18.46	0.53	6525	31.01	16.43	0.53	6654	29.77	15.78	0.53	6720	28.28	14.99	0.53	6853
	90	64	33.11	30.13	0.91	6501	29.47	26.81	0.91	6631	28.29	25.74	0.91	6698	26.87	24.45	0.91	6832
	90	68	33.78	30.74	0.91	6527	30.07	27.36	0.91	6657	28.86	26.27	0.91	6724	27.42	24.95	0.91	6858
	90	72	34.46	27.91	0.81	6545	30.67	24.84	0.81	6675	29.44	23.85	0.81	6742	27.97	22.66	0.81	6876
	90	75	34.70	23.94	0.69	6566	30.88	21.31	0.69	6696	29.65	20.46	0.69	6763	28.17	19.43	0.69	6897
	90	79	35.19	20.06	0.57	6590	31.32	17.85	0.57	6721	30.06	17.14	0.57	6787	28.56	16.28	0.57	6921

Capacities and Selection Data (Capacity Characteristics Charts) 42K (Cooling up to 5 indoor units series)

110%

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 42K (Cooling up to 5 indoor units series)

	Cooling Operation PERFORMANCE DATA																	
	OUTDOOR DB (°C)																	
COMBINATION (%)	IDDB (°F)	IDWB (°F)	115				120				122				126			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT
110%	70	64	26.83	16.37	0.61	5767	23.88	14.57	0.61	5883	22.93	13.98	0.61	5942	21.78	13.29	0.61	6061
	70	68	27.94	13.69	0.49	5791	24.87	12.18	0.49	5906	23.87	11.70	0.49	5965	22.68	11.11	0.49	6084
	72	64	27.66	17.98	0.65	5825	24.62	16.00	0.65	5942	23.63	15.36	0.65	6002	22.45	14.59	0.65	6122
	72	68	28.51	15.11	0.53	5849	25.37	13.45	0.53	5966	24.36	12.91	0.53	6025	23.14	12.26	0.53	6146
	72	72	28.99	11.89	0.41	5865	25.80	10.58	0.41	5982	24.77	10.16	0.41	6042	23.53	9.65	0.41	6162
	73	64	28.23	19.48	0.69	5884	25.12	17.33	0.69	6002	24.12	16.64	0.69	6062	22.91	15.81	0.69	6184
	73	68	29.09	16.58	0.57	5908	25.89	14.76	0.57	6026	24.85	14.17	0.57	6086	23.61	13.46	0.57	6208
	73	72	29.58	13.31	0.45	5925	26.33	11.85	0.45	6042	25.28	11.37	0.45	6103	24.01	10.81	0.45	6224
	75	64	28.80	21.03	0.73	5944	25.63	18.71	0.73	6063	24.61	17.96	0.73	6123	23.38	17.07	0.73	6246
	75	68	29.68	18.11	0.61	5968	26.42	16.12	0.61	6087	25.36	15.47	0.61	6148	24.09	14.70	0.61	6270
	75	72	30.19	14.79	0.49	5984	26.87	13.17	0.49	6103	25.79	12.64	0.49	6164	24.50	12.01	0.49	6287
	75	75	30.61	11.33	0.37	6004	27.24	10.08	0.37	6123	26.15	9.68	0.37	6184	24.85	9.19	0.37	6306
	77	64	29.69	22.86	0.77	6004	26.43	20.35	0.77	6124	25.37	19.53	0.77	6185	24.10	18.56	0.77	6309
	77	68	30.60	19.89	0.65	6028	27.24	17.70	0.65	6148	26.15	17.00	0.65	6210	24.84	16.15	0.65	6334
	77	72	31.12	16.49	0.53	6045	27.70	14.68	0.53	6165	26.59	14.09	0.53	6226	25.26	13.39	0.53	6350
	77	75	31.56	12.94	0.41	6064	28.09	11.52	0.41	6185	26.96	11.05	0.41	6246	25.61	10.50	0.41	6370
	79	64	30.61	24.80	0.81	6064	27.24	22.07	0.81	6186	26.15	21.19	0.81	6248	24.85	20.13	0.81	6373
	79	68	31.55	21.77	0.69	6089	28.08	19.37	0.69	6211	26.95	18.60	0.69	6273	25.61	17.67	0.69	6398
	79	72	32.08	18.29	0.57	6106	28.56	16.28	0.57	6227	27.41	15.63	0.57	6289	26.04	14.84	0.57	6414
	79	75	32.53	14.64	0.45	6126	28.96	13.03	0.45	6247	27.80	12.51	0.45	6309	26.41	11.88	0.45	6434
	79	79	33.05	10.91	0.33	6148	29.42	9.71	0.33	6270	28.24	9.32	0.33	6332	26.83	8.85	0.33	6457
	81	64	31.24	26.55	0.85	6126	27.80	23.63	0.85	6248	26.69	22.68	0.85	6311	25.35	21.55	0.85	6437
	81	66	31.87	25.18	0.79	6136	28.37	22.41	0.79	6258	27.23	21.51	0.79	6321	25.87	20.44	0.79	6447
	81	68	32.19	23.50	0.73	6151	28.65	20.92	0.73	6273	27.51	20.08	0.73	6336	26.13	19.07	0.73	6462
	81	72	32.74	19.97	0.61	6168	29.14	17.77	0.61	6290	27.97	17.06	0.61	6353	26.57	16.21	0.61	6479
	81	75	33.20	16.27	0.49	6188	29.55	14.48	0.49	6310	28.36	13.90	0.49	6373	26.95	13.20	0.49	6499
	81	79	33.73	12.48	0.37	6211	30.02	11.11	0.37	6333	28.82	10.66	0.37	6396	27.38	10.13	0.37	6522
	82	64	31.55	28.08	0.89	6187	28.08	24.99	0.89	6311	26.95	23.99	0.89	6374	25.61	22.79	0.89	6502
	82	68	32.19	24.79	0.77	6212	28.65	22.06	0.77	6336	27.51	21.18	0.77	6399	26.13	20.12	0.77	6527
	82	72	32.51	21.13	0.65	6229	28.94	18.81	0.65	6353	27.78	18.06	0.65	6416	26.39	17.15	0.65	6544
	82	75	33.07	17.53	0.53	6249	29.43	15.60	0.53	6373	28.25	14.97	0.53	6437	26.84	14.23	0.53	6564
	82	79	33.53	13.75	0.41	6273	29.84	12.24	0.41	6397	28.65	11.75	0.41	6460	27.22	11.16	0.41	6588
	84	64	31.86	29.00	0.91	6249	28.36	25.81	0.91	6374	27.22	24.77	0.91	6438	25.86	23.54	0.91	6567
	84	68	32.51	26.34	0.81	6274	28.94	23.44	0.81	6399	27.78	22.50	0.81	6463	26.39	21.38	0.81	6592
	84	72	33.16	22.88	0.69	6292	29.52	20.37	0.69	6417	28.34	19.55	0.69	6481	26.92	18.57	0.69	6610
	84	75	33.40	19.04	0.57	6312	29.72	16.94	0.57	6437	28.53	16.26	0.57	6501	27.11	15.45	0.57	6630
	84	79	33.87	15.24	0.45	6335	30.14	13.56	0.45	6461	28.93	13.02	0.45	6524	27.49	12.37	0.45	6653
	86	64	32.18	29.29	0.91	6311	28.64	26.06	0.91	6438	27.50	25.02	0.91	6502	26.12	23.77	0.91	6632
	86	68	32.84	27.91	0.85	6337	29.23	24.84	0.85	6463	28.06	23.85	0.85	6528	26.66	22.66	0.85	6658
	86	72	33.50	24.45	0.73	6354	29.81	21.76	0.73	6481	28.62	20.89	0.73	6545	27.19	19.85	0.73	6676
	86	75	33.73	20.58	0.61	6375	30.02	18.31	0.61	6501	28.82	17.58	0.61	6566	27.38	16.70	0.61	6696
	86	79	34.20	16.76	0.49	6399	30.44	14.92	0.49	6525	29.22	14.32	0.49	6590	27.76	13.60	0.49	6720
	88	64	32.50	29.58	0.91	6374	28.93	26.33	0.91	6502	27.77	25.27	0.91	6567	26.38	24.01	0.91	6699
	88	68	33.17	29.52	0.89	6400	29.52	26.27	0.89	6528	28.34	25.22	0.89	6593	26.92	23.96	0.89	6725
	88	72	33.83	26.05	0.77	6418	30.11	23.18	0.77	6546	28.91	22.26	0.77	6611	27.46	21.14	0.77	6742
	88	75	34.07	22.14	0.65	6439	30.32	19.71	0.65	6567	29.11	18.92	0.65	6632	27.65	17.97	0.65	6763
	88	79	34.55	18.31	0.53	6463	30.75	16.30	0.53	6590	29.52	15.64	0.53	6656	28.04	14.86	0.53	6787
	90	64	32.83	29.87	0.91	6438	29.22	26.59	0.91	6567	28.05	25.53	0.91	6633	26.65	24.25	0.91	6766
	90	68	33.50	30.48	0.91	6464	29.81	27.13	0.91	6593	28.62	26.05	0.91	6659	27.19	24.74	0.91	6792
	90	72	34.17	27.68	0.81	6482	30.41	24.63	0.81	6611	29.19	23.65	0.81	6677	27.73	22.47	0.81	6810
	90	75	34.41	23.74	0.69	6503	30.62	21.13	0.69	6632	29.40	20.29	0.69	6698	27.93	19.27	0.69	6831
	90	79	34.89	19.89	0.57	6527	31.05	17.70	0.57	6656	29.81	16.99	0.57	6722	28.32	16.14	0.57	6855

Capacities and Selection Data (Capacity Characteristics Charts) 42K (Cooling up to 5 indoor units series)

Capacities and Selection Data (Capacity Characteristics Charts) 42K (Cooling up to 5 indoor units series)

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 42K (Cooling up to 5 indoor units series)

	Cooling Operation PERFORMANCE DATA																	
	OUTDOOR DB (°F)																	
COMBINATION (%)	IDDB (°F)	IDWB (°F)	115				120				122				126			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT
100%	70	64	26.05	15.89	0.61	5626	23.18	14.14	0.61	5739	22.26	13.58	0.61	5796	21.14	12.90	0.61	5913
	70	68	27.12	13.29	0.49	5650	24.14	11.83	0.49	5762	23.18	11.36	0.49	5820	22.02	10.79	0.49	5936
	72	64	26.86	17.46	0.65	5683	23.90	15.54	0.65	5797	22.95	14.91	0.65	5855	21.80	14.17	0.65	5972
	72	68	27.68	14.67	0.53	5707	24.63	13.06	0.53	5821	23.65	12.53	0.53	5879	22.47	11.91	0.53	5996
	72	72	28.15	11.54	0.41	5723	25.05	10.27	0.41	5837	24.05	9.86	0.41	5895	22.85	9.37	0.41	6012
	73	64	27.40	18.91	0.69	5740	24.39	16.83	0.69	5855	23.41	16.16	0.69	5914	22.24	15.35	0.69	6033
	73	68	28.24	16.10	0.57	5764	25.14	14.33	0.57	5879	24.13	13.75	0.57	5938	22.92	13.07	0.57	6057
	73	72	28.72	12.93	0.45	5781	25.56	11.50	0.45	5896	24.54	11.04	0.45	5954	23.31	10.49	0.45	6073
	75	64	27.96	20.41	0.73	5798	24.89	18.17	0.73	5915	23.89	17.44	0.73	5974	22.70	16.57	0.73	6094
	75	68	28.82	17.58	0.61	5823	25.65	15.65	0.61	5939	24.62	15.02	0.61	5998	23.39	14.27	0.61	6118
	75	72	29.31	14.36	0.49	5839	26.09	12.78	0.49	5955	25.04	12.27	0.49	6015	23.79	11.66	0.49	6134
	75	75	29.72	11.00	0.37	5859	26.45	9.79	0.37	5975	25.39	9.40	0.37	6034	24.12	8.93	0.37	6154
	77	64	28.83	22.20	0.77	5857	25.66	19.76	0.77	5974	24.63	18.97	0.77	6034	23.40	18.02	0.77	6155
	77	68	29.71	19.31	0.65	5882	26.44	17.19	0.65	5999	25.38	16.50	0.65	6059	24.12	15.68	0.65	6180
	77	72	30.22	16.01	0.53	5898	26.89	14.25	0.53	6016	25.82	13.68	0.53	6075	24.53	13.00	0.53	6196
	77	75	30.64	12.56	0.41	5918	27.27	11.18	0.41	6035	26.18	10.73	0.41	6095	24.87	10.20	0.41	6216
	79	64	29.72	24.07	0.81	5916	26.45	21.42	0.81	6035	25.39	20.57	0.81	6095	24.12	19.54	0.81	6217
	79	68	30.63	21.13	0.69	5941	27.26	18.81	0.69	6059	26.17	18.06	0.69	6120	24.86	17.15	0.69	6242
	79	72	31.15	17.76	0.57	5958	27.72	15.80	0.57	6076	26.61	15.17	0.57	6137	25.28	14.41	0.57	6259
	79	75	31.59	14.21	0.45	5978	28.11	12.65	0.45	6096	26.99	12.14	0.45	6157	25.64	11.54	0.45	6279
	79	79	32.09	10.59	0.33	6000	28.56	9.43	0.33	6119	27.42	9.05	0.33	6179	26.05	8.60	0.33	6301
	81	64	30.33	25.78	0.85	5976	26.99	22.94	0.85	6096	25.91	22.02	0.85	6157	24.62	20.92	0.85	6280
	81	66	30.95	24.45	0.79	5986	27.54	21.76	0.79	6106	26.44	20.89	0.79	6167	25.12	19.84	0.79	6290
	81	68	31.25	22.82	0.73	6001	27.82	20.31	0.73	6121	26.70	19.49	0.73	6182	25.37	18.52	0.73	6305
	81	72	31.79	19.39	0.61	6018	28.29	17.26	0.61	6138	27.16	16.57	0.61	6199	25.80	15.74	0.61	6322
	81	75	32.23	15.79	0.49	6038	28.69	14.06	0.49	6158	27.54	13.49	0.49	6219	26.16	12.82	0.49	6342
	81	79	32.75	12.12	0.37	6061	29.14	10.78	0.37	6181	27.98	10.35	0.37	6242	26.58	9.83	0.37	6365
	82	64	30.63	27.26	0.89	6036	27.26	24.26	0.89	6157	26.17	23.29	0.89	6218	24.86	22.13	0.89	6343
	82	68	31.25	24.07	0.77	6061	27.82	21.42	0.77	6182	26.70	20.56	0.77	6244	25.37	19.53	0.77	6368
	82	72	31.57	20.52	0.65	6078	28.09	18.26	0.65	6199	26.97	17.53	0.65	6261	25.62	16.65	0.65	6385
	82	75	32.10	17.02	0.53	6098	28.57	15.14	0.53	6219	27.43	14.54	0.53	6281	26.06	13.81	0.53	6405
	82	79	32.55	13.35	0.41	6122	28.97	11.88	0.41	6242	27.81	11.40	0.41	6304	26.42	10.83	0.41	6429
	84	64	30.94	28.15	0.91	6096	27.53	25.05	0.91	6218	26.43	24.05	0.91	6280	25.11	22.85	0.91	6406
	84	68	31.57	25.57	0.81	6122	28.09	22.76	0.81	6244	26.97	21.85	0.81	6306	25.62	20.75	0.81	6432
	84	72	32.20	22.22	0.69	6139	28.66	19.77	0.69	6261	27.51	18.98	0.69	6323	26.13	18.03	0.69	6449
	84	75	32.42	18.48	0.57	6159	28.86	16.45	0.57	6281	27.70	15.79	0.57	6344	26.32	15.00	0.57	6470
	84	79	32.88	14.80	0.45	6183	29.26	13.17	0.45	6305	28.09	12.64	0.45	6367	26.69	12.01	0.45	6493
	86	64	31.25	28.43	0.91	6157	27.81	25.31	0.91	6280	26.70	24.29	0.91	6343	25.36	23.08	0.91	6470
	86	68	31.88	27.10	0.85	6183	28.38	24.12	0.85	6306	27.24	23.15	0.85	6369	25.88	22.00	0.85	6496
	86	72	32.52	23.74	0.73	6200	28.94	21.13	0.73	6324	27.79	20.28	0.73	6387	26.40	19.27	0.73	6514
	86	75	32.75	19.98	0.61	6221	29.15	17.78	0.61	6344	27.98	17.07	0.61	6407	26.58	16.21	0.61	6534
	86	79	33.21	16.27	0.49	6245	29.55	14.48	0.49	6368	28.37	13.90	0.49	6431	26.95	13.21	0.49	6558
	88	64	31.56	28.72	0.91	6219	28.09	25.56	0.91	6343	26.96	24.54	0.91	6407	25.61	23.31	0.91	6535
	88	68	32.20	28.66	0.89	6245	28.66	25.51	0.89	6369	27.51	24.49	0.89	6433	26.14	23.26	0.89	6561
	88	72	32.85	25.29	0.77	6262	29.23	22.51	0.77	6387	28.06	21.61	0.77	6450	26.66	20.53	0.77	6579
	88	75	33.08	21.50	0.65	6283	29.44	19.13	0.65	6408	28.26	18.37	0.65	6471	26.85	17.45	0.65	6600
	88	79	33.54	17.78	0.53	6307	29.85	15.82	0.53	6432	28.66	15.19	0.53	6495	27.22	14.43	0.53	6623
	90	64	31.87	29.00	0.91	6281	28.37	25.81	0.91	6407	27.23	24.78	0.91	6471	25.87	23.54	0.91	6600
	90	68	32.52	29.60	0.91	6307	28.95	26.34	0.91	6433	27.79	25.29	0.91	6497	26.40	24.02	0.91	6627
	90	72	33.17	26.87	0.81	6325	29.53	23.92	0.81	6451	28.34	22.96	0.81	6515	26.93	21.81	0.81	6645
	90	75	33.41	23.05	0.69	6346	29.73	20.52	0.69	6472	28.54	19.69	0.69	6536	27.12	18.71	0.69	6666

Capacities and Selection Data (Capacity Characteristics Charts) 42K (Cooling up to 5 indoor units series)

		Cooling Operation PERFORMANCE DATA																																																				
		OUTDOOR DB (°F)																																																				
COMBINATION (%)	IDDB (°F)	ID WB (°F)	5				19				32				50				59				70				77				81				86				95				102				104				113			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT								
90%	70	64	39.84	24.31	0.61	3898	39.45	24.06	0.61	3933	39.02	23.80	0.61	3969	38.52	23.50	0.61	4001	38.14	23.26	0.61	4021	37.72	23.01	0.61	4154	37.20	22.69	0.61	4337	36.55	22.29	0.61	4629	35.69	21.77	0.61	4843	34.65	21.14	0.61	5024	32.22	19.66	0.61	5275	31.90	19.46	0.61	5328	26.32	16.05	0.61	5531
	70	68	41.49	20.33	0.61	3921	41.08	20.13	0.61	3957	40.63	19.91	0.49	3957	40.11	19.65	0.49	4024	39.71	19.46	0.49	4045	39.28	19.25	0.49	4178	38.74	18.98	0.49	4361	38.05	18.65	0.49	4653	37.16	18.21	0.49	4866	36.08	17.68	0.49	5047	33.55	16.44	0.49	5299	33.22	16.28	0.49	5352	27.40	13.43	0.49	5555
	72	64	41.08	26.70	0.65	3937	40.67	26.44	0.65	3973	40.23	26.15	0.65	4009	39.71	25.81	0.65	4041	39.32	25.56	0.65	4062	38.89	25.28	0.65	4196	38.35	24.93	0.65	4381	37.68	24.49	0.65	4676	36.79	23.92	0.65	4891	35.72	23.22	0.65	5074	33.22	21.59	0.65	5329	32.89	21.38	0.65	5382	27.13	17.64	0.65	5587
	72	68	42.33	22.44	0.53	3961	41.92	22.22	0.53	3997	41.46	21.97	0.53	4033	40.93	21.69	0.53	4065	40.52	21.48	0.53	4085	40.08	21.24	0.53	4220	39.53	20.95	0.53	4404	38.83	20.58	0.53	4700	37.92	20.10	0.53	4915	36.81	19.51	0.53	5098	34.24	18.15	0.53	5352	33.90	17.96	0.53	5406	27.96	14.82	0.53	5611
	72	72	43.05	17.65	0.41	3977	42.63	17.48	0.41	4013	42.16	17.29	0.41	4049	41.62	17.07	0.41	4081	41.21	16.90	0.41	4102	40.76	16.71	0.41	4236	40.20	16.48	0.41	4421	39.49	16.19	0.41	4716	38.56	15.81	0.41	4931	37.44	15.35	0.41	5114	34.82	14.28	0.41	5369	34.47	14.13	0.41	5422	28.44	11.66	0.41	5627
	73	64	41.92	28.92	0.69	3977	41.50	28.64	0.69	4013	41.05	28.32	0.69	4049	40.52	27.96	0.69	4082	40.12	27.68	0.69	4103	39.68	27.38	0.69	4239	39.14	27.00	0.69	4425	38.44	26.53	0.69	4723	37.54	25.90	0.69	4941	36.45	25.15	0.69	5126	33.90	23.39	0.69	5383	33.56	23.16	0.69	5436	27.69	19.10	0.69	5643
	73	68	43.20	24.62	0.57	4001	42.77	24.38	0.57	4037	42.31	24.11	0.57	4073	41.76	23.80	0.57	4106	41.35	23.57	0.57	4127	40.90	23.31	0.57	4263	40.33	22.99	0.57	4449	39.62	22.58	0.57	4747	38.69	22.05	0.57	4965	37.57	21.41	0.57	5150	34.94	19.91	0.57	5407	34.59	19.71	0.57	5460	28.53	16.26	0.57	5667
	73	72	43.93	19.77	0.45	4017	43.50	19.57	0.45	4053	43.02	19.36	0.45	4090	42.47	19.11	0.45	4122	42.05	18.92	0.45	4143	41.59	18.72	0.45	4279	41.02	18.46	0.45	4465	40.29	18.13	0.45	4763	39.35	17.71	0.45	4981	38.20	17.19	0.45	5166	35.53	15.99	0.45	5423	35.17	15.83	0.45	5477	29.02	13.06	0.45	5684
	75	64	42.77	31.22	0.73	4017	42.35	30.91	0.73	4053	41.89	30.58	0.73	4090	41.35	30.18	0.73	4123	40.94	29.89	0.73	4144	40.49	29.56	0.73	4281	39.92	29.15	0.73	4470	39.23	28.64	0.73	4771	38.31	27.97	0.73	4991	37.19	27.15	0.73	5178	34.59	25.25	0.73	5437	34.24	25.00	0.73	5491	28.25	20.62	0.73	5700
	75	68	44.08	26.89	0.61	4041	43.64	26.62	0.61	4078	43.17	26.33	0.61	4115	42.61	26.00	0.61	4148	42.19	25.74	0.61	4168	41.73	25.46	0.61	4306	41.16	25.11	0.61	4494	40.43	24.66	0.61	4795	39.48	24.08	0.61	5015	38.33	23.38	0.61	5202	35.65	21.75	0.61	5461	35.29	21.53	0.61	5516	29.12	17.76	0.61	5725
	75	72	44.83	21.97	0.49	4058	44.39	21.75	0.49	4094	43.90	21.51	0.49	4131	43.34	21.24	0.49	4164	42.91	21.03	0.49	4185	42.44	20.80	0.49	4322	41.86	20.51	0.49	4510	41.12	20.15	0.49	4812	40.15	19.68	0.49	5032	38.98	19.10	0.49	5218	36.26	17.77	0.49	5478	35.89	17.59	0.49	5532	29.61	14.51	0.49	5741
	75	75	45.46	16.82	0.37	4077	45.01	16.65	0.37	4114	44.52	16.47	0.37	4150	43.95	16.26	0.37	4184	43.51	16.10	0.37	4204	43.04	15.92	0.37	4342	42.44	15.70	0.37	4530	41.69	15.43	0.37	4831	40.72	15.06	0.37	5051	39.53	14.63	0.37	5238	36.76	13.60	0.37	5497	36.40	13.47	0.37	5552	30.03	11.11	0.37	5761
	77	64	44.09	33.95	0.77	4057	43.66	33.62	0.77	4094	43.18	33.25	0.77	4132	42.63	32.82	0.77	4165	42.21	32.50	0.77	4186	41.75	32.14	0.77	4325	41.17	31.70	0.77	4515	40.44	31.14	0.77	4819	39.49	30.41	0.77	5041	38.34	29.53	0.77	5230	35.66	27.46	0.77	5492	35.30	27.18	0.77	5547	29.13	22.43	0.77	5758
	77	68	45.44	29.54	0.65	4082	44.99	29.25	0.65	4119	44.50	28.93	0.65	4156	43.93	28.56	0.65	4190	43.50	28.27	0.65	4211	43.02	27.97	0.65	4349	42.43	27.58	0.65	4539	41.68	27.09	0.65	4843	40.70	26.46	0.65	5066	39.52	25.69	0.65	5254	36.75	23.89	0.65	5516	36.38	23.65	0.65	5571	30.02	19.51	0.65	5782
	77	72	46.22	24.49	0.53	4099	45.76	24.25	0.53	4136	45.26	23.99	0.53	4173	44.68	23.68	0.53	4206	44.24	23.45	0.53	4227	43.76	23.19	0.53	4366	43.15	22.87	0.53	4556	42.39	22.47	0.53	4860	41.40	21.94	0.53	5082	40.19	21.30	0.53	5271	37.38	19.81	0.53	5533	37.00	19.61	0.53	5588	30.53	16.18	0.53	5799
	77	75	46.86	19.21	0.41	4118	46.40	19.02	0.41	4155	45.89	18.82	0.41	4192	45.31	18.58	0.41	4226	44.86	18.39	0.41	4247	44.37	18.19	0.41	4385	43.76	17.94	0.41	4575	42.93	17.62	0.41	4880	41.97	17.21	0.41	5102	40.75	16.71	0.41	5291	37.90	15.54	0.41	5553	37.52	15.38	0.41	5608	30.95	12.69	0.41	5819
	79	64	45.46	36.82	0.81	4098	45.01	36.46	0.81	4136	44.52	36.06	0.81	4173	43.95	35.60	0.81	4207	43.51	35.24	0.81	4228	43.04	34.86	0.81	4368	42.44	34.38	0.81	4560	41.69	33.77	0.81	4868	40.72	32.98	0.81	5092	39.53	32.02	0.81	5283	36.76	29.78	0.81	5547	36.40	29.48	0.81	5603	30.03	24.32	0.81	5816
	79	68	46.85	32.33	0.69	4123	46.39	32.01	0.69	4160	45.88	31.66	0.69	4198	45.29	31.25	0.69	4232	44.84	30.94	0.69	4253	44.36	30.61	0.69	4393	43.74	30.18	0.69	4585	42.97	29.65	0.69	4892	41.96	28.95	0.69	5117	40.74	28.11	0.69	5307	37.89	26.14	0.69	5572	37.51	25.88	0.69	5628	30.95	21.35	0.69	5841
	79	72	47.65	27.16	0.57	4140	47.17	26.89	0.57	4177	46.66	26.60	0.57	4215	46.06	26.26	0.57	4249	45.61	26.00	0.57	4270	45.11	25.71	0.57	4410	44.49	25.36	0.57	4602	43.70	24.91	0.57	4909	42.68	24.33	0.57	5134	41.43	23.62	0.57	5324	38.53	21.96	0.57	5589	38.15	21.74	0.57	5644	31.47	17.94	0.57	5858
	79	75	48.31	21.74	0.45	4160	47.83	21.53	0.45	4197	47.31	21.29	0.45	4235	46.71	21.02	0.45	4268	46.24	20.81	0.45	4290	45.74	20.58	0.45	4430	45.11	20.30	0.45	4622	44.31	19.94	0.45	4929	43.27	19.47	0.45	5153	42.01	18.91	0.45	5344	39.07	17.58	0.45	5609	38.68	17.41	0.45	5664	31.91	14.36	0.45	5878
	79	79	49.09	16.20	0.33	4183	48.60	16.04	0.33	4220	48.07	15.86	0.33	4258	47.45	15.66	0.33	4291	46.98	15.50	0.33	4312	46.47	15.34	0.33	4453	45.83	15.12	0.33	4644	45.02	14.86	0.33	4952	43.97	14.51	0.33	5176	42.69	14.09	0.33	5367	39.70	13.10	0.33	5631	39.30	12.97	0.33	5687	32.42	10.70	0.33	5900
	81	64	46.39	39.43	0.85	4140	45.93	39.04	0.85	4177	45.43	38.61	0.85	4216	44.84	38.12	0.85	4251	44.40	37.74	0.85	4271	43.92	37.33	0.85	4413	43.31	36.81	0.85	4606	42.54	36.16	0.85	4917	41.55	35.31	0.85	5144	40.34	34.29	0.85	5336	37.51	31.89	0.85	5603	37.14	31.57	0.85	5659	30.64	26.04	0.85	5875
	81	66	47.33	37.39	0.79	4150	46.86	37.02	0.79	4187	46.35	36.62	0.79	4226	45.76	36.15	0.79	4260	45.31	35.79	0.79	4281	44.81	35.40	0.79	4423	44.19	34.91	0.79	4616	43.41	34.30	0.79	4927	42.39	33.49	0.79	5154	41.16	32.52	0.79	5346	38.28	30.24	0.79	5613	37.90	29.94	0.79	5669	31.26	24.70	0.79	5885
	81	68	47.81	34.90	0.73	4165	47.33	34.55	0.7																																													

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 42K (Cooling up to 5 indoor units series)

	Cooling Operation PERFORMANCE DATA																	
	OUTDOOR DB (°F)																	
COMBINATION (%)	IDDB (°F)	IDWB (°F)	115				120				122				126			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT
90%	70	64	25.53	15.57	0.61	5570	22.72	13.86	0.61	5681	21.81	13.31	0.61	5738	20.72	12.64	0.61	5853
	70	68	26.58	13.03	0.49	5593	23.66	11.59	0.49	5705	22.71	11.13	0.49	5762	21.58	10.57	0.49	5877
	72	64	26.32	17.11	0.65	5626	23.42	15.23	0.65	5739	22.49	14.62	0.65	5796	21.36	13.89	0.65	5912
	72	68	27.12	14.38	0.53	5650	24.14	12.79	0.53	5763	23.18	12.28	0.53	5820	22.02	11.67	0.53	5936
	72	72	27.59	11.31	0.41	5666	24.55	10.07	0.41	5779	23.57	9.66	0.41	5836	22.39	9.18	0.41	5952
	73	64	26.86	18.53	0.69	5683	23.90	16.49	0.69	5797	22.95	15.83	0.69	5855	21.80	15.04	0.69	5972
	73	68	27.68	15.78	0.57	5707	24.63	14.04	0.57	5821	23.65	13.48	0.57	5879	22.47	12.81	0.57	5996
	73	72	28.15	12.67	0.45	5723	25.05	11.27	0.45	5837	24.05	10.82	0.45	5895	22.85	10.28	0.45	6012
	75	64	27.40	20.00	0.73	5740	24.39	17.80	0.73	5855	23.41	17.09	0.73	5914	22.24	16.24	0.73	6032
	75	68	28.24	17.23	0.61	5765	25.14	15.33	0.61	5880	24.13	14.72	0.61	5938	22.92	13.98	0.61	6057
	75	72	28.72	14.07	0.49	5781	25.56	12.53	0.49	5896	24.54	12.03	0.49	5955	23.31	11.42	0.49	6073
	75	75	29.13	10.78	0.37	5801	25.92	9.59	0.37	5916	24.88	9.21	0.37	5974	23.64	8.75	0.37	6093
	77	64	28.25	21.75	0.77	5798	25.14	19.36	0.77	5914	24.14	18.59	0.77	5974	22.93	17.66	0.77	6093
	77	68	29.12	18.93	0.65	5823	25.91	16.84	0.65	5939	24.88	16.17	0.65	5998	23.63	15.36	0.65	6118
	77	72	29.61	15.69	0.53	5840	26.35	13.97	0.53	5956	25.30	13.41	0.53	6015	24.04	12.74	0.53	6135
	77	75	30.03	12.31	0.41	5859	26.72	10.96	0.41	5975	25.65	10.52	0.41	6035	24.37	9.99	0.41	6154
	79	64	29.13	23.59	0.81	5857	25.92	21.00	0.81	5974	24.88	20.16	0.81	6034	23.64	19.15	0.81	6155
	79	68	30.02	20.71	0.69	5882	26.72	18.43	0.69	5999	25.65	17.70	0.69	6059	24.36	16.81	0.69	6180
	79	72	30.53	17.40	0.57	5898	27.17	15.49	0.57	6016	26.08	14.87	0.57	6076	24.78	14.12	0.57	6197
	79	75	30.95	13.93	0.45	5918	27.55	12.40	0.45	6036	26.45	11.90	0.45	6095	25.13	11.31	0.45	6216
	79	79	31.45	10.38	0.33	5941	27.99	9.24	0.33	6058	26.87	8.87	0.33	6118	25.53	8.42	0.33	6239
	81	64	29.72	25.26	0.85	5916	26.45	22.48	0.85	6035	25.39	21.58	0.85	6095	24.12	20.50	0.85	6217
	81	66	30.33	23.96	0.79	5926	26.99	21.32	0.79	6045	25.91	20.47	0.79	6105	24.62	19.45	0.79	6227
	81	68	30.63	22.36	0.73	5941	27.26	19.90	0.73	6060	26.17	19.10	0.73	6120	24.86	18.15	0.73	6242
	81	72	31.15	19.00	0.61	5958	27.72	16.91	0.61	6077	26.61	16.24	0.61	6137	25.28	15.42	0.61	6259
	81	75	31.59	15.48	0.49	5978	28.11	13.77	0.49	6097	26.99	13.22	0.49	6157	25.64	12.56	0.49	6279
	81	79	32.09	11.87	0.37	6001	28.56	10.57	0.37	6120	27.42	10.15	0.37	6180	26.05	9.64	0.37	6302
	82	64	30.02	26.72	0.89	5975	26.72	23.78	0.89	6095	25.65	22.83	0.89	6156	24.36	21.68	0.89	6279
	82	68	30.63	23.58	0.77	6000	27.26	20.99	0.77	6120	26.17	20.15	0.77	6181	24.86	19.14	0.77	6305
	82	72	30.94	20.11	0.65	6018	27.53	17.90	0.65	6137	26.43	17.18	0.65	6198	25.11	16.32	0.65	6322
	82	75	31.46	16.67	0.53	6038	28.00	14.84	0.53	6158	26.88	14.25	0.53	6219	25.54	13.53	0.53	6342
	82	79	31.90	13.08	0.41	6061	28.39	11.64	0.41	6181	27.26	11.18	0.41	6242	25.89	10.62	0.41	6365
	84	64	30.32	27.59	0.91	6035	26.98	24.55	0.91	6156	25.90	23.57	0.91	6218	24.61	22.39	0.91	6342
	84	68	30.94	25.06	0.81	6060	27.53	22.30	0.81	6181	26.43	21.41	0.81	6243	25.11	20.34	0.81	6368
	84	72	31.55	21.77	0.69	6078	28.08	19.38	0.69	6199	26.96	18.60	0.69	6260	25.61	17.67	0.69	6385
	84	75	31.78	18.11	0.57	6098	28.28	16.12	0.57	6219	27.15	15.48	0.57	6281	25.79	14.70	0.57	6405
	84	79	32.22	14.50	0.45	6122	28.68	12.90	0.45	6243	27.53	12.39	0.45	6304	26.15	11.77	0.45	6429
	86	64	30.62	27.86	0.91	6095	27.25	24.80	0.91	6217	26.16	23.81	0.91	6280	24.85	22.62	0.91	6406
	86	68	31.25	26.56	0.85	6121	27.81	23.64	0.85	6243	26.70	22.69	0.85	6305	25.36	21.56	0.85	6431
	86	72	31.87	23.27	0.73	6139	28.36	20.71	0.73	6261	27.23	19.88	0.73	6323	25.87	18.88	0.73	6449
	86	75	32.09	19.58	0.61	6159	28.56	17.42	0.61	6281	27.42	16.73	0.61	6344	26.05	15.89	0.61	6469
	86	79	32.54	15.95	0.49	6183	28.96	14.19	0.49	6305	27.81	13.62	0.49	6367	26.41	12.94	0.49	6493
	88	64	30.93	28.14	0.91	6156	27.52	25.05	0.91	6280	26.42	24.05	0.91	6343	25.10	22.84	0.91	6470
	88	68	31.56	28.09	0.89	6182	28.09	25.00	0.89	6306	26.96	24.00	0.89	6369	25.61	22.80	0.89	6496
	88	72	32.19	24.79	0.77	6200	28.65	22.06	0.77	6323	27.50	21.18	0.77	6386	26.13	20.12	0.77	6513
	88	75	32.42	21.07	0.65	6221	28.85	18.75	0.65	6344	27.70	18.00	0.65	6407	26.31	17.10	0.65	6534
	88	79	32.87	17.42	0.53	6245	29.25	15.50	0.53	6368	28.08	14.88	0.53	6431	26.68	14.14	0.53	6558
	90	64	31.24	28.42	0.91	6218	27.80	25.30	0.91	6342	26.69	24.29	0.91	6406	25.35	23.07	0.91	6534
	90	68	31.87	29.00	0.91	6244	28.37	25.81	0.91	6369	27.23	24.78	0.91	6432	25.87	23.54	0.91	6561
	90	72	32.51	26.33	0.81	6262	28.93	23.44	0.81	6387	27.78	22.50	0.81	6450	26.39	21.37	0.81	6578
	90	75	32.74	22.59	0.69	6283	29.14	20.11	0.69	6408	27.97	19.30	0.69	6471	26.57	18.34	0.69	6599

Capacities and Selection Data (Capacity Characteristics Charts) 42K (Cooling up to 5 indoor units series)

		Cooling Operation PERFORMANCE DATA																																																				
		OUTDOOR DB (°F)																																																				
COMBINATION (%)	IDDB (°F)	ID WB (°F)	5				19				32				50				59				70				77				81				86				95				102				104				113			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT								
80%	70	64	38.63	23.56	0.61	3858	38.24	23.33	0.61	3893	37.39	23.07	0.61	3929	37.34	22.78	0.61	3960	36.97	22.55	0.61	3980	36.57	22.31	0.61	4112	36.06	22.00	0.61	4293	35.43	21.61	0.61	4582	34.60	21.10	0.61	4794	33.59	20.49	0.61	4973	31.24	19.05	0.61	5222	30.93	18.86	0.61	5274	25.51	15.56	0.61	5475
	70	68	40.22	19.71	0.49	3882	39.82	19.51	0.49	3917	39.39	19.30	0.49	3952	38.88	19.05	0.49	3984	38.50	18.86	0.49	4004	38.08	18.66	0.49	4136	37.55	18.40	0.49	4316	36.89	18.07	0.49	4606	36.02	17.65	0.49	4817	34.97	17.14	0.49	4996	32.53	15.94	0.49	5246	32.20	15.78	0.49	5298	26.57	13.02	0.49	5499
	72	64	39.82	25.88	0.65	3897	39.43	25.63	0.65	3933	39.00	25.35	0.65	3968	38.50	25.02	0.65	4000	38.11	24.77	0.65	4021	37.70	24.51	0.65	4154	37.18	24.17	0.65	4336	36.52	23.74	0.65	4628	35.67	23.18	0.65	4842	34.63	22.51	0.65	5023	32.20	20.93	0.65	5275	31.88	20.72	0.65	5328	26.30	17.10	0.65	5530
	72	68	41.04	21.75	0.53	3921	40.63	21.54	0.53	3956	40.19	21.30	0.53	3992	39.67	21.03	0.53	4024	39.28	20.82	0.53	4044	38.85	20.59	0.53	4178	38.32	20.31	0.53	4360	37.64	19.95	0.53	4652	36.76	19.48	0.53	4866	35.69	18.91	0.53	5047	33.19	17.59	0.53	5299	32.86	17.41	0.53	5351	27.11	14.37	0.53	5554
	72	72	41.74	17.11	0.41	3937	41.32	16.94	0.41	3972	40.87	16.76	0.41	4008	40.35	16.54	0.41	4040	39.95	16.38	0.41	4060	39.51	16.20	0.41	4194	38.97	15.98	0.41	4376	38.28	15.69	0.41	4668	37.38	15.33	0.41	4882	36.29	14.88	0.41	5063	33.75	13.84	0.41	5315	33.42	13.70	0.41	5368	27.57	11.30	0.41	5570
	73	64	40.63	28.04	0.69	3936	40.23	27.76	0.69	3972	39.79	27.46	0.69	4008	39.28	27.10	0.69	4041	38.89	26.84	0.69	4061	38.47	26.54	0.69	4196	37.94	26.18	0.69	4380	37.27	25.71	0.69	4675	36.39	25.11	0.69	4891	35.33	24.38	0.69	5074	32.86	22.67	0.69	5328	32.53	22.45	0.69	5381	26.84	18.52	0.69	5586
	73	68	41.88	23.87	0.57	3960	41.46	23.63	0.57	3996	41.01	23.38	0.57	4032	40.48	23.08	0.57	4065	40.08	22.85	0.57	4085	39.65	22.60	0.57	4220	39.10	22.29	0.57	4404	38.41	21.89	0.57	4699	37.51	21.38	0.57	4915	36.42	20.76	0.57	5098	33.87	19.30	0.57	5352	33.53	19.11	0.57	5405	27.66	15.77	0.57	5610
	73	72	42.59	19.16	0.45	3977	42.17	18.97	0.45	4013	41.71	18.77	0.45	4049	41.17	18.53	0.45	4081	40.76	18.34	0.45	4102	40.32	18.14	0.45	4236	39.76	17.89	0.45	4420	39.06	17.58	0.45	4716	38.15	17.17	0.45	4931	37.03	16.67	0.45	5114	34.44	15.50	0.45	5368	34.10	15.34	0.45	5422	28.13	12.66	0.45	5627
	75	64	41.46	30.27	0.73	3976	41.05	29.97	0.73	4012	40.60	29.67	0.73	4049	40.08	29.26	0.73	4082	39.69	28.97	0.73	4102	39.25	28.66	0.73	4238	38.71	28.26	0.73	4424	38.03	27.76	0.73	4722	37.14	27.11	0.73	4940	36.06	26.32	0.73	5125	33.53	24.48	0.73	5382	33.20	24.23	0.73	5436	27.39	19.99	0.73	5643
	75	68	42.73	26.07	0.61	4000	42.31	25.81	0.61	4037	41.85	25.53	0.61	4073	41.31	25.20	0.61	4106	40.90	24.95	0.61	4126	40.46	24.68	0.61	4262	39.90	24.34	0.61	4449	39.19	23.91	0.61	4747	38.27	23.35	0.61	4965	37.16	22.67	0.61	5149	34.56	21.08	0.61	5406	34.21	20.87	0.61	5460	28.23	17.22	0.61	5667
	75	72	43.46	21.29	0.49	4017	43.03	21.08	0.49	4053	42.56	20.85	0.49	4090	42.01	20.59	0.49	4122	41.60	20.38	0.49	4143	41.14	20.16	0.49	4279	40.58	19.88	0.49	4465	39.86	19.53	0.49	4763	38.92	19.07	0.49	4981	37.79	18.52	0.49	5166	35.15	17.22	0.49	5423	34.79	17.05	0.49	5477	28.70	14.07	0.49	5683
	75	75	44.07	16.30	0.37	4036	43.63	16.14	0.37	4073	43.15	15.97	0.37	4109	42.60	15.76	0.37	4142	42.18	15.61	0.37	4162	41.72	15.44	0.37	4298	41.14	15.22	0.37	4484	40.42	14.95	0.37	4783	39.47	14.60	0.37	5000	38.32	14.18	0.37	5185	35.64	13.19	0.37	5442	35.28	13.05	0.37	5496	29.11	10.77	0.37	5703
	77	64	42.74	32.91	0.77	4016	42.32	32.59	0.77	4053	41.86	32.23	0.77	4090	41.32	31.82	0.77	4123	40.91	31.50	0.77	4144	40.47	31.16	0.77	4281	39.91	30.73	0.77	4469	39.20	30.19	0.77	4770	38.29	29.48	0.77	4990	37.17	28.62	0.77	5177	34.57	26.62	0.77	5436	34.22	26.35	0.77	5491	28.23	21.74	0.77	5700
	77	68	44.05	28.63	0.65	4041	43.62	28.35	0.65	4077	43.14	28.04	0.65	4114	42.59	27.68	0.65	4147	42.17	27.41	0.65	4168	41.71	27.11	0.65	4305	41.13	26.74	0.65	4494	40.40	26.26	0.65	4795	39.46	25.65	0.65	5015	38.31	24.90	0.65	5201	35.63	23.16	0.65	5461	35.27	22.93	0.65	5515	29.10	18.91	0.65	5724
	77	72	44.80	23.74	0.53	4057	44.36	23.51	0.53	4094	43.88	23.25	0.53	4131	43.31	22.96	0.53	4164	42.88	22.73	0.53	4185	42.42	22.48	0.53	4322	41.83	22.17	0.53	4510	41.09	21.78	0.53	4811	40.13	21.27	0.53	5031	38.96	20.65	0.53	5218	36.23	19.20	0.53	5477	35.87	19.01	0.53	5532	29.59	15.68	0.53	5741
	77	75	45.43	18.63	0.41	4077	44.98	18.44	0.41	4114	44.49	18.24	0.41	4151	43.92	18.01	0.41	4184	43.48	17.83	0.41	4204	43.01	17.63	0.41	4342	42.42	17.39	0.41	4530	41.67	17.08	0.41	4831	40.69	16.68	0.41	5051	39.50	16.20	0.41	5238	36.74	15.06	0.41	5497	36.37	14.91	0.41	5551	30.01	12.30	0.41	5760
	79	64	44.07	35.69	0.81	4057	43.63	35.34	0.81	4094	43.15	34.96	0.81	4131	42.60	34.51	0.81	4164	42.18	34.17	0.81	4185	41.72	33.79	0.81	4324	41.14	33.33	0.81	4514	40.42	32.74	0.81	4818	39.47	31.97	0.81	5041	38.32	31.04	0.81	5229	35.64	28.87	0.81	5491	35.28	25.58	0.81	5546	29.11	22.33	0.81	5757
	79	68	45.41	31.34	0.69	4082	44.97	31.03	0.69	4119	44.48	30.69	0.69	4156	43.91	30.29	0.69	4189	43.47	29.99	0.69	4210	43.00	29.67	0.69	4349	42.40	29.26	0.69	4539	41.65	28.74	0.69	4843	40.68	28.07	0.69	5065	39.49	27.25	0.69	5251	36.73	25.34	0.69	5516	36.36	25.09	0.69	5571	30.00	20.70	0.69	5782
	79	72	46.19	26.33	0.57	4098	45.73	26.07	0.57	4135	45.23	25.78	0.57	4173	44.65	25.45	0.57	4206	44.21	25.20	0.57	4227	43.73	24.93	0.57	4366	43.12	24.58	0.57	4556	42.36	24.15	0.57	4860	41.37	23.58	0.57	5082	40.16	22.89	0.57	5271	37.35	21.29	0.57	5533	36.98	21.08	0.57	5588	30.51	17.39	0.57	5799
	79	75	46.83	21.08	0.45	4118	46.37	20.87	0.45	4155	45.87	20.64	0.45	4192	45.28	20.37	0.45	4226	44.83	20.17	0.45	4247	44.34	19.95	0.45	4386	43.73	19.68	0.45	4576	42.96	19.33	0.45	4880	41.95	18.88	0.45	5102	40.73	18.33	0.45	5291	37.88	17.04	0.45	5553	37.50	16.87	0.45	5608	30.94	13.92	0.45	5819
	79	79	47.58	15.70	0.33	4141	47.11	15.55	0.33	4178	46.60	15.38	0.33	4215	46.00	15.18	0.33	4249	45.55	15.03	0.33	4270	45.05	14.87	0.33	4408	44.43	14.66	0.33	4598	43.64	14.40	0.33	4903	42.62	14.06	0.33	5125	41.38	13.65	0.33	5313	38.48	12.70	0.33	5575	38.10	12.57	0.33	5630	31.43	10.37	0.33	5841
	81	64	44.97	38.22	0.85	4098	44.52	37.84	0.85	4135	44.04	37.43	0.85	4173	43.47	36.95	0.85	4207	43.04	36.58	0.85	4228	42.57	36.19	0.85	4368	41.98	35.69	0.85	4560	41.24	35.06	0.85	4867	40.28	34.23	0.85	5091	39.10	33.24	0.85	5282	36.36	30.91	0.85	5547	36.00	30.60	0.85	5602	29.70	25.25	0.85	5815
	81	66	45.88	36.25	0.79	4108	45.43	35.89	0.79	4145	44.93	35.50	0.79	4183	44.36	35.04	0.79	4217	43.92	34.70	0.79	4238	43.44	34.32	0.79	4378	42.84	33.84	0.79	4570	42.08	33.25	0.79	4877	41.10	32.47	0.79	5101	39.90	31.52	0.79	5292	37.11	29.31	0.79	5557	36.74	29.02	0.79	5612	30.31	23.94	0.79	5825
	81	68	46.34	33.83	0.73	4123	45.88	33.4																																														

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 42K (Cooling up to 5 indoor units series)

	Cooling Operation PERFORMANCE DATA																	
	OUTDOOR DB (°F)																	
COMBINATION (%)	IDDB (°F)	IDWB (°F)	115				120				122				126			
			Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT	Q	SHC	SHF	IPT
80%	70	64	24.75	15.10	0.61	5514	22.03	13.44	0.61	5624	21.14	12.90	0.61	5680	20.09	12.25	0.61	5794
	70	68	25.77	12.63	0.49	5537	22.93	11.24	0.49	5647	22.02	10.79	0.49	5704	20.92	10.25	0.49	5818
	72	64	25.51	16.58	0.65	5569	22.71	14.76	0.65	5681	21.80	14.17	0.65	5738	20.71	13.46	0.65	5853
	72	68	26.29	13.94	0.53	5593	23.40	12.40	0.53	5705	22.47	11.91	0.53	5761	21.34	11.31	0.53	5876
	72	72	26.74	10.96	0.41	5609	23.80	9.76	0.41	5721	22.85	9.37	0.41	5778	21.71	8.90	0.41	5893
	73	64	26.03	17.96	0.69	5625	23.17	15.99	0.69	5738	22.24	15.35	0.69	5796	21.13	14.58	0.69	5912
	73	68	26.83	15.29	0.57	5649	23.88	13.61	0.57	5762	22.92	13.07	0.57	5820	21.78	12.41	0.57	5936
	73	72	27.29	12.28	0.45	5666	24.29	10.93	0.45	5778	23.31	10.49	0.45	5836	22.15	9.97	0.45	5952
	75	64	26.57	19.39	0.73	5682	23.64	17.26	0.73	5796	22.70	16.57	0.73	5854	21.56	15.74	0.73	5971
	75	68	27.38	16.70	0.61	5707	24.37	14.86	0.61	5820	23.39	14.27	0.61	5878	22.22	13.56	0.61	5996
	75	72	27.84	13.64	0.49	5723	24.78	12.14	0.49	5837	23.79	11.66	0.49	5895	22.60	11.07	0.49	6012
	75	75	28.23	10.45	0.37	5742	25.13	9.30	0.37	5856	24.12	8.93	0.37	5914	22.92	8.48	0.37	6032
	77	64	27.39	21.09	0.77	5740	24.37	18.77	0.77	5855	23.40	18.02	0.77	5913	22.23	17.12	0.77	6032
	77	68	28.23	18.35	0.65	5764	25.12	16.33	0.65	5879	24.12	15.68	0.65	5938	22.91	14.89	0.65	6056
	77	72	28.70	15.21	0.53	5781	25.55	13.54	0.53	5896	24.53	13.00	0.53	5954	23.30	12.35	0.53	6073
	77	75	29.11	11.93	0.41	5800	25.91	10.62	0.41	5915	24.87	10.20	0.41	5974	23.63	9.69	0.41	6093
	79	64	28.23	22.87	0.81	5798	25.13	20.35	0.81	5914	24.12	19.54	0.81	5973	22.92	18.56	0.81	6093
	79	68	29.10	20.08	0.69	5822	25.90	17.87	0.69	5939	24.86	17.15	0.69	5998	23.62	16.30	0.69	6117
	79	72	29.59	16.87	0.57	5839	26.34	15.01	0.57	5955	25.28	14.41	0.57	6015	24.02	13.69	0.57	6134
	79	75	30.01	13.50	0.45	5859	26.71	12.02	0.45	5975	25.64	11.54	0.45	6034	24.36	10.96	0.45	6154
	79	79	30.49	10.06	0.33	5882	27.13	8.95	0.33	5998	26.05	8.60	0.33	6057	24.75	8.17	0.33	6177
	81	64	28.81	24.49	0.85	5856	25.64	21.79	0.85	5974	24.62	20.92	0.85	6033	23.38	19.88	0.85	6154
	81	66	29.40	23.22	0.79	5866	26.16	20.67	0.79	5984	25.12	19.84	0.79	6043	23.86	18.85	0.79	6164
	81	68	29.69	21.68	0.73	5881	26.43	19.29	0.73	5999	25.37	18.52	0.73	6058	24.10	17.59	0.73	6179
	81	72	30.20	18.42	0.61	5898	26.88	16.39	0.61	6016	25.80	15.74	0.61	6075	24.51	14.95	0.61	6196
	81	75	30.62	15.00	0.49	5918	27.25	13.35	0.49	6036	26.16	12.82	0.49	6095	24.85	12.18	0.49	6216
	81	79	31.11	11.51	0.37	5941	27.69	10.24	0.37	6059	26.58	9.83	0.37	6118	25.25	9.34	0.37	6239
	82	64	29.10	25.90	0.89	5915	25.90	23.05	0.89	6033	24.86	22.13	0.89	6094	23.62	21.02	0.89	6216
	82	68	29.69	22.86	0.77	5940	26.43	20.35	0.77	6059	25.37	19.53	0.77	6119	24.10	18.56	0.77	6241
	82	72	29.99	19.49	0.65	5957	26.69	17.35	0.65	6076	25.62	16.65	0.65	6136	24.34	15.82	0.65	6258
	82	75	30.50	16.16	0.53	5977	27.14	14.39	0.53	6096	26.06	13.81	0.53	6156	24.76	13.12	0.53	6278
	82	79	30.93	12.68	0.41	6001	27.52	11.28	0.41	6119	26.42	10.83	0.41	6180	25.10	10.29	0.41	6302
	84	64	29.39	26.74	0.91	5974	26.16	23.80	0.91	6094	25.11	22.85	0.91	6155	23.85	21.71	0.91	6278
	84	68	29.99	24.29	0.81	5999	26.69	21.62	0.81	6119	25.62	20.75	0.81	6180	24.34	19.72	0.81	6303
	84	72	30.59	21.11	0.69	6017	27.22	18.78	0.69	6136	26.13	18.03	0.69	6197	24.83	17.13	0.69	6321
	84	75	30.80	17.56	0.57	6037	27.42	15.63	0.57	6157	26.32	15.00	0.57	6218	25.00	14.25	0.57	6341
	84	79	31.23	14.06	0.45	6061	27.80	12.51	0.45	6180	26.69	12.01	0.45	6241	25.35	11.41	0.45	6365
	86	64	29.68	27.01	0.91	6034	26.42	24.04	0.91	6155	25.36	23.08	0.91	6216	24.09	21.92	0.91	6341
	86	68	30.29	25.75	0.85	6059	26.96	22.91	0.85	6180	25.88	22.00	0.85	6242	24.58	20.90	0.85	6366
	86	72	30.89	22.55	0.73	6077	27.50	20.07	0.73	6198	26.40	19.27	0.73	6259	25.08	18.31	0.73	6384
	86	75	31.11	18.98	0.61	6098	27.69	16.89	0.61	6218	26.58	16.21	0.61	6280	25.25	15.40	0.61	6405
	86	79	31.55	15.46	0.49	6121	28.08	13.76	0.49	6242	26.95	13.21	0.49	6304	25.61	12.55	0.49	6428
	88	64	29.98	27.28	0.91	6094	26.68	24.28	0.91	6216	25.61	23.31	0.91	6278	24.33	22.14	0.91	6404
	88	68	30.59	27.23	0.89	6120	27.23	24.23	0.89	6242	26.14	23.26	0.89	6304	24.83	22.10	0.89	6430
	88	72	31.20	24.03	0.77	6138	27.77	21.38	0.77	6260	26.66	20.53	0.77	6322	25.33	19.50	0.77	6448
	88	75	31.42	20.42	0.65	6159	27.97	18.18	0.65	6281	26.85	17.45	0.65	6343	25.51	16.58	0.65	6469
	88	79	31.86	16.89	0.53	6182	28.36	15.03	0.53	6305	27.22	14.43	0.53	6367	25.86	13.71	0.53	6493
	90	64	30.28	27.55	0.91	6155	26.95	24.52	0.91	6278	25.87	23.54	0.91	6341	24.58	22.37	0.91	6468
	90	68	30.90	28.12	0.91	6181	27.50	25.02	0.91	6305	26.40	24.02	0.91	6367	25.08	22.82	0.91	6494
	90	72	31.52	25.53	0.81	6199	28.05	22.72	0.81	6322	26.93	21.81	0.81	6385	25.58	20.72	0.81	6512
	90	75	31.74	21.90	0.69	6220	28.25	19.49	0.69	6343	27.12	18.71	0.69	6406	25.76	17.77	0.69	6533
	90	79	32.18	18.34	0.57	6244	28.64	16.33	0.57	6368	27.50	15.67	0.57	6430	26.12	14.89	0.57	6557

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 42K (Heating up to 5 indoor units series)

HEATING PERFORMANCE DATA

COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		-13		-5		0		5		14		17		23		32	
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
130%	59	30.00	4594	34.51	5032	38.34	5296	41.67	5404	38.78	4776	43.09	4824	45.36	4873	49.84	4972
	61	29.65	4631	34.10	5072	37.88	5339	41.18	5448	38.32	4814	42.58	4863	44.82	4912	49.25	5012
	63	29.30	4668	33.69	5113	37.44	5382	40.69	5492	37.86	4853	42.07	4902	44.29	4951	48.67	5053
	64	28.95	4706	33.29	5154	36.99	5426	40.21	5536	37.42	4892	41.57	4941	43.76	4991	48.09	5093
	66	28.61	4744	32.90	5196	36.55	5469	39.73	5581	36.97	4932	41.08	4981	43.24	5032	47.52	5134
	68	28.32	4782	32.57	5238	36.19	5513	39.34	5626	36.61	4971	40.67	5021	42.81	5072	47.05	5176
	70	27.98	4835	32.18	5295	35.76	5574	38.87	5688	36.17	5026	40.19	5077	42.30	5128	46.48	5233
	72	27.65	4888	31.79	5354	35.33	5635	38.40	5750	35.73	5081	39.70	5133	41.79	5184	45.93	5290
	73	27.32	4942	31.41	5413	34.90	5697	37.94	5814	35.30	5137	39.23	5189	41.29	5241	45.37	5348
	75	26.99	4996	31.04	5472	34.48	5760	37.48	5878	34.88	5194	38.76	5246	40.80	5299	44.83	5407
	77	26.66	5051	30.66	5532	34.07	5823	37.03	5942	34.46	5251	38.29	5304	40.31	5357	44.29	5467
	79	26.34	5106	30.30	5593	33.66	5887	36.59	6008	34.05	5309	37.83	5362	39.82	5416	43.76	5527
	81	26.03	5163	29.93	5655	33.26	5952	36.15	6074	33.64	5367	37.38	5421	39.34	5476	43.24	5588
	82	25.72	5219	29.57	5717	32.86	6018	35.72	6141	33.24	5426	36.93	5481	38.87	5536	42.72	5649
	84	25.41	5277	29.22	5780	32.46	6084	35.29	6208	32.84	5486	36.49	5541	38.41	5597	42.20	5711
	86	25.10	5335	28.87	5843	32.08	6151	34.86	6276	32.44	5546	36.05	5602	37.95	5659	41.70	5774
COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		41		47		50		59		68		75					
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT				
130%	59	54.18	5234	55.56	5299	58.51	5495	61.43	5660	63.28	5773	65.18	5889				
	61	53.53	5276	54.91	5341	57.82	5540	60.71	5706	62.53	5820	64.40	5936				
	63	52.90	5318	54.25	5384	57.13	5584	59.99	5752	61.79	5867	63.64	5984				
	64	52.27	5361	53.61	5428	56.45	5629	59.28	5798	61.05	5914	62.88	6033				
	66	51.65	5405	52.98	5472	55.78	5675	58.57	5845	60.33	5962	62.14	6081				
	68	51.14	5448	52.45	5516	55.23	5721	57.99	5892	59.73	6010	61.52	6130				
	70	50.53	5508	51.82	5576	54.57	5783	57.30	5957	59.02	6076	60.79	6198				
	72	49.92	5569	51.20	5638	53.91	5847	56.61	6023	58.31	6143	60.06	6266				
	73	49.32	5630	50.59	5700	53.27	5911	55.93	6089	57.61	6211	59.34	6335				
	75	48.73	5692	49.98	5762	52.63	5976	55.26	6156	56.92	6279	58.62	6404				
	77	48.14	5754	49.38	5826	52.00	6042	54.60	6223	56.23	6348	57.92	6475				
	79	47.57	5818	48.79	5890	51.37	6109	53.94	6292	55.56	6418	57.23	6546				
	81	47.00	5882	48.20	5955	50.76	6176	53.29	6361	54.89	6488	56.54	6618				
	82	46.43	5946	47.62	6020	50.15	6244	52.65	6431	54.23	6560	55.86	6691				
	84	45.87	6012	47.05	6086	49.54	6312	52.02	6502	53.58	6632	55.19	6764				
	86	45.32	6078	46.49	6153	48.95	6382	51.40	6573	52.94	6705	54.53	6839				
COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		-13		-5		0		5		14		17		23		32	
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
120%	59	29.13	4375	33.50	4792	37.22	5044	40.46	5147	37.65	4548	41.83	4594	44.03	4641	48.39	4735
	61	28.79	4410	33.10	4831	36.78	5085	39.98	5189	37.20	4585	41.34	4631	43.51	4678	47.82	4773
	63	28.44	4446	32.71	4870	36.35	5126	39.51	5230	36.76	4622	40.85	4669	43.00	4716	47.25	4812
	64	28.11	4482	32.32	4909	35.91	5167	39.04	5273	36.33	4659	40.36	4706	42.49	4754	46.69	4851
	66	27.77	4518	31.94	4948	35.49	5209	38.57	5315	35.90	4697	39.88	4744	41.98	4792	46.13	4890
	68	27.50	4554	31.62	4988	35.14	5251	38.19	5358	35.54	4735	39.49	4782	41.57	4831	45.68	4929
	70	27.17	4604	31.24	5043	34.72	5309	37.73	5417	35.11	4787	39.01	4835	41.07	4884	45.13	4983
	72	26.84	4655	30.87	5099	34.30	5367	37.28	5477	34.69	4839	38.55	4888	40.58	4938	44.59	5038
	73	26.52	4706	30.50	5155	33.89	5426	36.83	5537	34.28	4893	38.08	4942	40.09	4992	44.05	5094
	75	26.20	4758	30.13	5211	33.48	5486	36.39	5598	33.86	4946	37.63	4996	39.61	5047	43.52	5150
	77	25.89	4810	29.77	5269	33.08	5546	35.96	5659	33.46	5001	37.18	5051	39.13	5102	43.00	5206
	79	25.58	4863	29.41	5327	32.68	5607	35.52	5722	33.06	5056	36.73	5107	38.66	5158	42.49	5264
	81	25.27	4917	29.06	5385	32.29	5669	35.10	5784	32.66	5111	36.29	5163	38.20	5215	41.98	5322
	82	24.97	4971	28.71	5445	31.90	5731	34.68	5848	32.27	5168	35.85	5220	37.74	5273	41.47	5380
	84	24.67	5026	28.37	5504	31.52	5794	34.26	5912	31.88	5224	35.42	5277	37.29	5331	40.98	5439
	86	24.37	5081	28.03	5565	31.14	5858	33.85	5977	31.50	5282	35.00	5335	36.84	5389	40.48	5499

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 42K (Heating up to 5 indoor units series)

COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		41		47		50		59		68		75					
		Q	INPUT	Q	INPUT	Q	INPUT	Q	Q	INPUT	Q	INPUT	Q				
120%	59	52.60	4984	53.95	5046	56.81	5234	59.65	5391	61.43	5498	63.28	5608				
	61	51.97	5025	53.31	5087	56.13	5276	58.94	5434	60.71	5543	62.53	5654				
	63	51.36	5065	52.67	5128	55.47	5318	58.24	5478	59.99	5588	61.79	5699				
	64	50.75	5106	52.05	5169	54.81	5361	57.55	5522	59.28	5633	61.05	5745				
	66	50.15	5147	51.43	5211	54.16	5405	56.87	5567	58.57	5678	60.33	5792				
	68	49.65	5189	50.92	5253	53.62	5448	56.30	5612	57.99	5724	59.73	5838				
	70	49.05	5246	50.31	5311	52.98	5508	55.63	5673	57.30	5787	59.02	5903				
	72	48.47	5303	49.71	5369	52.34	5569	54.96	5736	56.61	5850	58.31	5967				
	73	47.88	5362	49.11	5428	51.71	5630	54.30	5799	55.93	5915	57.61	6033				
	75	47.31	5421	48.52	5488	51.09	5692	53.65	5863	55.26	5980	56.92	6099				
	77	46.74	5480	47.94	5548	50.48	5754	53.01	5927	54.60	6046	56.23	6167				
	79	46.18	5541	47.36	5609	49.88	5818	52.37	5992	53.94	6112	55.56	6234				
	81	45.63	5602	46.80	5671	49.28	5882	51.74	6058	53.29	6179	54.89	6303				
	82	45.08	5663	46.24	5733	48.69	5946	51.12	6125	52.65	6247	54.23	6372				
	84	44.54	5726	45.68	5797	48.10	6012	50.51	6192	52.02	6316	53.58	6442				
	86	44.00	5789	45.13	5860	47.52	6078	49.90	6260	51.40	6386	52.94	6513				
COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		-13		-5		0		5		14		17		23		32	
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
110%	59	28.28	4289	31.82	4554	35.35	4794	39.28	5046	36.55	4459	40.61	4504	42.75	4550	46.98	4642
	61	27.95	4324	31.44	4591	34.93	4833	38.82	5087	36.12	4495	40.13	4540	42.24	4586	46.42	4680
	63	27.62	4359	31.07	4628	34.52	4872	38.36	5128	35.69	4531	39.66	4577	41.74	4623	45.87	4718
	64	27.29	4394	30.70	4665	34.11	4911	37.90	5169	35.27	4568	39.19	4614	41.25	4660	45.33	4756
	66	26.96	4429	30.34	4703	33.71	4950	37.45	5211	34.85	4605	38.72	4651	40.76	4698	44.79	4794
	68	26.70	4465	30.03	4741	33.37	4990	37.08	5253	34.50	4642	38.34	4689	40.36	4736	44.35	4833
	70	26.38	4514	29.67	4793	32.97	5045	36.64	5311	34.09	4693	37.88	4740	39.87	4788	43.82	4886
	72	26.06	4564	29.32	4846	32.58	5101	36.20	5369	33.68	4744	37.42	4792	39.39	4841	43.29	4940
	73	25.75	4614	28.97	4899	32.18	5157	35.76	5428	33.28	4797	36.97	4845	38.92	4894	42.77	4994
	75	25.44	4665	28.62	4953	31.80	5214	35.33	5488	32.88	4849	36.53	4898	38.45	4948	42.26	5049
	77	25.13	4716	28.28	5007	31.42	5271	34.91	5548	32.48	4903	36.09	4952	37.99	5002	41.75	5104
	79	24.83	4768	27.94	5062	31.04	5329	34.49	5609	32.09	4957	35.66	5007	37.54	5057	41.25	5160
	81	24.53	4820	27.60	5118	30.67	5388	34.08	5671	31.71	5011	35.23	5062	37.09	5113	40.75	5217
	82	24.24	4873	27.27	5174	30.30	5447	33.67	5733	31.33	5066	34.81	5117	36.64	5169	40.26	5275
	84	23.95	4927	26.94	5231	29.94	5507	33.26	5797	30.95	5122	34.39	5174	36.20	5226	39.78	5333
	86	23.66	4981	26.62	5289	29.58	5567	32.86	5860	30.58	5178	33.98	5231	35.77	5283	39.30	5391
COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		41		47		50		59		68		75					
		Q	INPUT	Q	INPUT	Q	INPUT	Q	Q	INPUT	Q	INPUT	Q				
110%	59	51.07	4887	52.37	4947	55.15	5131	57.91	5285	59.65	5391	61.43	5498				
	61	50.46	4926	51.75	4987	54.50	5172	57.22	5328	58.94	5434	60.71	5543				
	63	49.86	4966	51.14	5027	53.85	5214	56.54	5371	58.24	5478	59.99	5588				
	64	49.27	5006	50.53	5068	53.21	5256	55.87	5414	57.55	5522	59.28	5633				
	66	48.69	5046	49.93	5109	52.58	5299	55.21	5458	56.87	5567	58.57	5678				
	68	48.20	5087	49.44	5150	52.06	5341	54.66	5502	56.30	5612	57.99	5724				
	70	47.63	5143	48.85	5207	51.44	5400	54.01	5562	55.63	5673	57.30	5787				
	72	47.05	5199	48.26	5264	50.82	5459	53.36	5623	54.96	5736	56.61	5850				
	73	46.49	5257	47.68	5322	50.21	5520	52.72	5685	54.30	5799	55.93	5915				
	75	45.93	5315	47.11	5380	49.61	5580	52.09	5748	53.65	5863	55.26	5980				
	77	45.38	5373	46.54	5440	49.01	5642	51.46	5811	53.01	5927	54.60	6046				
	79	44.84	5432	45.99	5499	48.42	5704	50.84	5875	52.37	5992	53.94	6112				
	81	44.30	5492	45.43	5560	47.84	5766	50.23	5939	51.74	6058	53.29	6179				
	82	43.77	5552	44.89	5621	47.27	5830	49.63	6005	51.12	6125	52.65	6247				
	84	43.24	5613	44.35	5683	46.70	5894	49.04	6071	50.51	6192	52.02	6316				
	86	42.72	5675	43.82	5745	46.14	5959	48.45	6138	49.90	6260	51.40	6386				

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 42K (Heating up to 5 indoor units series)

COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		-13		-5		0		5		14		17		23		32	
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
100%	59	27.46	4164	30.89	4422	34.32	4654	38.14	4899	35.49	4329	39.43	4373	41.51	4417	45.61	4507
	61	27.13	4198	30.52	4457	33.92	4692	37.68	4939	35.07	4364	38.96	4408	41.01	4453	45.07	4544
	63	26.81	4232	30.16	4493	33.51	4730	37.24	4979	34.65	4399	38.50	4444	40.53	4489	44.54	4580
	64	26.49	4266	29.81	4529	33.12	4768	36.80	5019	34.24	4435	38.05	4480	40.05	4525	44.01	4617
	66	26.18	4300	29.45	4566	32.72	4806	36.36	5059	33.83	4470	37.59	4516	39.57	4561	43.49	4654
	68	25.92	4335	29.16	4603	32.40	4845	36.00	5100	33.50	4507	37.22	4552	39.18	4598	43.06	4692
	70	25.61	4383	28.81	4653	32.01	4898	35.57	5156	33.10	4556	36.78	4602	38.71	4649	42.54	4743
	72	25.30	4431	28.46	4705	31.63	4952	35.14	5213	32.70	4606	36.33	4653	38.25	4700	42.03	4796
	73	25.00	4480	28.12	4756	31.25	5007	34.72	5270	32.31	4657	35.90	4704	37.79	4751	41.52	4848
	75	24.70	4529	27.79	4809	30.87	5062	34.30	5328	31.92	4708	35.47	4756	37.33	4804	41.03	4902
	77	24.40	4579	27.45	4862	30.50	5117	33.89	5387	31.54	4760	35.04	4808	36.89	4857	40.53	4956
	79	24.11	4629	27.12	4915	30.14	5174	33.48	5446	31.16	4812	34.62	4861	36.44	4910	40.05	5010
	81	23.82	4680	26.80	4969	29.77	5231	33.08	5506	30.79	4865	34.21	4914	36.01	4964	39.57	5065
	82	23.53	4731	26.48	5024	29.42	5288	32.69	5566	30.42	4919	33.80	4968	35.57	5019	39.09	5121
	84	23.25	4784	26.16	5079	29.06	5346	32.29	5628	30.05	4973	33.39	5023	35.15	5074	38.62	5177
	86	22.97	4836	25.84	5135	28.72	5405	31.91	5690	29.69	5028	32.99	5078	34.73	5130	38.16	5234
COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		41		47		50		59		68		75					
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT				
100%	59	49.58	4744	50.85	4803	53.54	4982	56.22	5131	57.91	5234	59.65	5338				
	61	48.99	4783	50.25	4842	52.91	5022	55.55	5172	57.22	5276	58.94	5381				
	63	48.41	4821	49.65	4881	52.28	5062	54.90	5214	56.54	5318	58.24	5425				
	64	47.84	4860	49.06	4920	51.66	5103	54.25	5256	55.87	5361	57.55	5469				
	66	47.27	4899	48.48	4960	51.05	5144	53.60	5299	55.21	5405	56.87	5513				
	68	46.80	4939	48.00	5000	50.54	5186	53.07	5341	54.66	5448	56.30	5557				
	70	46.24	4993	47.42	5055	49.94	5243	52.43	5400	54.01	5508	55.63	5618				
	72	45.68	5048	46.85	5111	49.34	5300	51.81	5459	53.36	5569	54.96	5680				
	73	45.14	5104	46.29	5167	48.75	5359	51.18	5520	52.72	5630	54.30	5743				
	75	44.59	5160	45.74	5224	48.16	5418	50.57	5580	52.09	5692	53.65	5806				
	77	44.06	5216	45.19	5281	47.58	5477	49.96	5642	51.46	5754	53.01	5870				
	79	43.53	5274	44.65	5339	47.01	5538	49.36	5704	50.84	5818	52.37	5934				
	81	43.01	5332	44.11	5398	46.45	5598	48.77	5766	50.23	5882	51.74	5999				
	82	42.49	5391	43.58	5457	45.89	5660	48.19	5830	49.63	5946	51.12	6065				
	84	41.98	5450	43.06	5517	45.34	5722	47.61	5894	49.04	6012	50.51	6132				
	86	41.48	5510	42.54	5578	44.80	5785	47.04	5959	48.45	6078	49.90	6200				
COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		-13		-5		0		5		14		17		23		32	
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
90%	59	26.50	4089	29.81	4342	33.12	4570	36.80	4811	34.25	4251	38.05	4294	40.05	4338	44.02	4426
	61	26.18	4122	29.46	4377	32.73	4607	36.37	4850	33.84	4285	37.60	4329	39.58	4372	43.49	4462
	63	25.87	4156	29.11	4412	32.34	4645	35.93	4889	33.44	4320	37.15	4364	39.11	4408	42.98	4498
	64	25.57	4189	28.76	4448	31.96	4682	35.51	4928	33.04	4355	36.71	4399	38.65	4443	42.47	4534
	66	25.26	4223	28.42	4484	31.58	4720	35.09	4968	32.65	4390	36.28	4434	38.19	4479	41.96	4571
	68	25.01	4257	28.14	4520	31.27	4758	34.74	5008	32.33	4425	35.92	4470	37.81	4515	41.55	4607
	70	24.71	4304	27.80	4570	30.89	4810	34.32	5063	31.94	4474	35.49	4519	37.36	4565	41.05	4658
	72	24.42	4351	27.47	4620	30.52	4863	33.91	5119	31.56	4523	35.06	4569	36.91	4615	40.56	4709
	73	24.12	4399	27.14	4671	30.15	4917	33.50	5175	31.18	4573	34.64	4619	36.46	4666	40.07	4761
	75	23.83	4447	26.81	4722	29.79	4971	33.10	5232	30.80	4623	34.23	4670	36.03	4717	39.59	4814
	77	23.55	4496	26.49	4774	29.43	5025	32.71	5290	30.43	4674	33.82	4721	35.59	4769	39.12	4866
	79	23.27	4546	26.17	4827	29.08	5081	32.31	5348	30.07	4726	33.41	4773	35.17	4822	38.65	4920
	81	22.99	4596	25.86	4880	28.73	5136	31.92	5407	29.71	4778	33.01	4826	34.75	4875	38.18	4974
	82	22.71	4646	25.55	4933	28.39	5193	31.54	5466	29.35	4830	32.61	4879	34.33	4928	37.72	5029
	84	22.44	4697	25.24	4988	28.05	5250	31.16	5526	29.00	4883	32.22	4933	33.92	4982	37.27	5084
	86	22.17	4749	24.94	5042	27.71	5308	30.79	5587	28.65	4937	31.83	4987	33.51	5037	36.82	5140

SPECIFICATIONS

Capacities and Selection Data (Capacity Characteristics Charts) 42K (Heating up to 5 indoor units series)

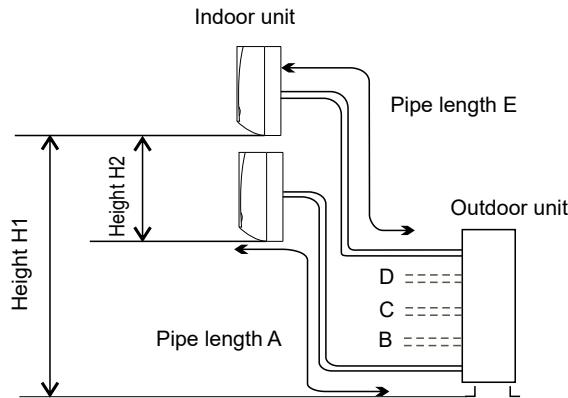
COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		41		47		50		59		68		75					
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT				
90%	59	13.95	4659	14.31	4717	15.07	4892	15.82	5039	16.30	5139	16.79	5242				
	61	13.79	4697	14.14	4755	14.89	4931	15.64	5079	16.11	5181	16.59	5285				
	63	13.63	4734	13.97	4793	14.72	4971	15.45	5120	15.91	5223	16.39	5327				
	64	13.46	4773	13.81	4832	14.54	5011	15.27	5162	15.73	5265	16.20	5370				
	66	13.30	4811	13.65	4871	14.37	5052	15.09	5203	15.54	5307	16.01	5413				
	68	13.17	4850	13.51	4910	14.23	5092	14.94	5245	15.39	5350	15.85	5457				
	70	13.01	4903	13.35	4964	14.06	5148	14.76	5303	15.20	5409	15.66	5517				
	72	12.86	4957	13.19	5019	13.89	5205	14.58	5361	15.02	5468	15.47	5578				
	73	12.70	5012	13.03	5074	13.72	5262	14.41	5420	14.84	5529	15.28	5639				
	75	12.55	5067	12.87	5130	13.56	5320	14.23	5480	14.66	5589	15.10	5701				
	77	12.40	5123	12.72	5186	13.39	5379	14.06	5540	14.48	5651	14.92	5764				
	79	12.25	5179	12.57	5243	13.23	5438	13.89	5601	14.31	5713	14.74	5827				
	81	12.10	5236	12.42	5301	13.07	5498	13.73	5663	14.14	5776	14.56	5891				
	82	11.96	5293	12.27	5359	12.92	5558	13.56	5725	13.97	5839	14.39	5956				
	84	11.82	5352	12.12	5418	12.76	5619	13.40	5788	13.80	5904	14.22	6022				
86	11.67	5411	11.97	5478	12.61	5681	13.24	5852	13.64	5969	14.04	6088					
COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		-13		-5		0		5		14		17		23		32	
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT
80%	59	7.50	4049	8.43	4299	9.37	4525	10.41	4763	9.69	4209	10.77	4251	11.33	4294	12.45	4382
	61	7.41	4081	8.33	4333	9.26	4561	10.29	4801	9.57	4243	10.64	4285	11.20	4329	12.31	4417
	63	7.32	4114	8.23	4368	9.15	4598	10.17	4840	9.46	4277	10.51	4320	11.06	4364	12.16	4453
	64	7.23	4147	8.14	4403	9.04	4635	10.05	4879	9.35	4311	10.39	4355	10.93	4399	12.01	4489
	66	7.15	4181	8.04	4439	8.93	4673	9.93	4918	9.24	4346	10.26	4390	10.80	4434	11.87	4525
	68	7.08	4214	7.96	4475	8.85	4710	9.83	4958	9.15	4381	10.16	4425	10.70	4470	11.75	4561
	70	6.99	4261	7.87	4524	8.74	4762	9.71	5013	9.04	4429	10.04	4474	10.57	4519	11.61	4612
	72	6.91	4308	7.77	4574	8.63	4814	9.59	5068	8.93	4478	9.92	4523	10.44	4569	11.47	4662
	73	6.82	4355	7.68	4624	8.53	4867	9.48	5124	8.82	4527	9.80	4573	10.32	4619	11.34	4714
	75	6.74	4403	7.59	4675	8.43	4921	9.37	5180	8.71	4577	9.68	4623	10.19	4670	11.20	4765
	77	6.66	4451	7.49	4726	8.33	4975	9.25	5237	8.61	4627	9.57	4674	10.07	4721	11.07	4818
	79	6.58	4500	7.40	4778	8.23	5030	9.14	5294	8.51	4678	9.45	4726	9.95	4773	10.93	4871
	81	6.50	4550	7.32	4831	8.13	5085	9.03	5353	8.40	4730	9.34	4778	9.83	4826	10.80	4924
	82	6.43	4600	7.23	4884	8.03	5141	8.92	5412	8.30	4782	9.23	4830	9.71	4879	10.67	4979
	84	6.35	4650	7.14	4938	7.93	5198	8.82	5471	8.20	4834	9.12	4883	9.60	4933	10.54	5033
86	6.27	4702	7.06	4992	7.84	5255	8.71	5531	8.11	4888	9.01	4937	9.48	4987	10.42	5089	
COMBINATION (%)	INDOOR DB(°F)	OUTDOOR WB(°F)															
		41		47		50		59		68		75					
		Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT	Q	INPUT				
80%	59	13.54	4612	13.88	4670	14.62	4843	15.35	4988	15.81	5088	16.28	5190				
	61	13.38	4650	13.72	4707	14.45	4882	15.17	5029	15.62	5129	16.09	5232				
	63	13.22	4687	13.56	4745	14.27	4921	14.99	5069	15.44	5170	15.90	5274				
	64	13.06	4725	13.39	4783	14.10	4961	14.81	5110	15.25	5212	15.71	5316				
	66	12.90	4763	13.24	4822	13.94	5001	14.63	5151	15.07	5254	15.53	5359				
	68	12.78	4801	13.10	4861	13.80	5041	14.49	5193	14.92	5297	15.37	5403				
	70	12.62	4854	12.95	4914	13.63	5097	14.32	5250	14.74	5355	15.19	5462				
	72	12.47	4908	12.79	4968	13.47	5153	14.14	5308	14.57	5414	15.00	5522				
	73	12.32	4962	12.64	5023	13.31	5210	13.97	5366	14.39	5473	14.82	5583				
	75	12.17	5016	12.49	5078	13.15	5267	13.81	5425	14.22	5533	14.65	5644				
	77	12.03	5071	12.34	5134	12.99	5325	13.64	5485	14.05	5594	14.47	5706				
	79	11.88	5127	12.19	5191	12.84	5383	13.48	5545	13.88	5656	14.30	5769				
	81	11.74	5184	12.04	5248	12.68	5443	13.32	5606	13.71	5718	14.13	5832				
	82	11.60	5241	11.90	5305	12.53	5503	13.16	5668	13.55	5781	13.96	5897				
	84	11.46	5298	11.76	5364	12.38	5563	13.00	5730	13.39	5845	13.79	5961				
86	11.32	5356	11.61	5423	12.23	5624	12.84	5793	13.23	5909	13.62	6027					

SPECIFICATIONS

Capacities and Selection Data (Piping Length Correction Factor)

The maximum allowable length of refrigerant piping, and the maximum allowable height difference between the outdoor and indoor units, are listed below. The shorter the refrigerant piping is, the better the performance will be.

The suggested shortest piping length to each indoor unit is 10ft (3m), in order to avoid noise and vibration from outdoor units.



Model Item		Up to 2 indoor units	Up to 3 indoor units	Up to 4 indoor units	Up to 5 indoor units
		18K	27K	36K	42K
Piping to each indoor unit (A/B/C/D/E)	[ft.(m)]	≤82(25)	≤82(25)	≤82(25)	≤82(25)
Total length of piping between all units	[ft.(m)]	A+B ≤164 (50)	A+B+C ≤230(70)	A+B+C+D≤ 230(70)	A+B+C+D+E ≤262(80)
Max height between indoor unit and outdoor unit (H1)	[ft.(m)]	≤49(15)			
Max height between indoor units (H2)	[ft.(m)]	≤25(7.5)			

Additional refrigerant charge

The unit has been filled with refrigerant, but if L (total pipe length) exceeds standard length, additional refrigerant (R454B) change is required.

For 18K: Additional refrigerant charge=[L-50ft (15m)]×0.16 oz/ft (15g/m)

For 27K: Additional refrigerant charge=[L-75ft (22.5m)]×0.16 oz/ft (15g/m)

For 36K: Additional refrigerant charge=[L-100ft (30m)]×0.16 oz/ft (15g/m)

For 42K: Additional refrigerant charge=[L-125ft (37.5m)]×0.16 oz/ft (15g/m)

The correction factor is based on the equivalent piping length in meters (EL) and the height between outdoor and indoor units in meters (H).

H: Height between indoor unit and outdoor unit (m).

• H>0: Position of outdoor unit is higher than position of indoor unit (m).

• H<0: Position of outdoor unit is lower than position of indoor unit (m).

L: Actual one-way piping length between indoor unit and outdoor unit (m).

EL: Equivalent one-way piping length between indoor unit and outdoor unit (m).

Equivalent length of 90° Elbow

Gas Diameter (mm/inch)	9.52 (3/8')	12.7 (1/2')	15.88 (5/8')	19.05 (3/4')
EL of 90° Elbow(m)	0.15	0.2	0.25	0.35

SPECIFICATIONS

Capacities and Selection Data (Piping Length Correction Factor)

Cooling

EL Model	33ft. (10m)	49ft. (15m)	66ft. (20m)	82ft. (25m)	98ft. (30m)	115ft. (35m)	131ft. (40m)	148ft. (45m)	164ft. (50m)
18K/27K	1.0	0.96	0.95	0.93	0.91	0.89	0.87	0.86	0.84
36K/42K	1.0	0.96	0.95	0.93	0.91	0.89	0.87	0.86	0.84

EL Model	181ft. (55m)	198ft. (60m)	214ft. (65m)	231ft. (70m)	247ft. (75m)	264ft. (80m)
27K/36K	0.82	0.80	0.78	0.77	/	/
42K	0.82	0.80	0.78	0.77	0.75	0.73

Heating

EL Model	33ft. (10m)	49ft. (15m)	66ft. (20m)	82ft. (25m)	98ft. (30m)	115ft. (35m)	131ft. (40m)	148ft. (45m)	164ft. (50m)
18K/27K	1.0	0.97	0.96	0.94	0.93	0.92	0.90	0.89	0.87
36K/42K	1.0	0.97	0.96	0.94	0.93	0.92	0.90	0.89	0.87

EL Model	181ft. (55m)	198ft. (60m)	214ft. (65m)	231ft. (70m)	247ft. (75m)	264ft. (80m)
27K/36K	0.86	0.85	0.83	0.82	/	/
42K	0.86	0.85	0.83	0.82	0.80	0.79

The correction factor of height between indoor unit and outdoor unit

Height difference	16ft. (5m)	33ft. (10m)	49ft. (15m)
Factor	1	0.95	0.88

To ensure correct unit selection, consider the farthest indoor unit.

NOTE:

1. Above data is assuming that the height difference between indoor unit and outdoor unit is 0m.
2. Be sure to minimize length of connection pipes to optimize performance. If the outdoor unit is installed higher or lower than the indoor unit, it is necessary to apply height correction factor additionally to length correction factor to calculate cooling/heating.
If outdoor unit is higher, correction should be applied to cooling capacity, if outdoor unit is lower, correction should be applied to heating capacity.

SPECIFICATIONS

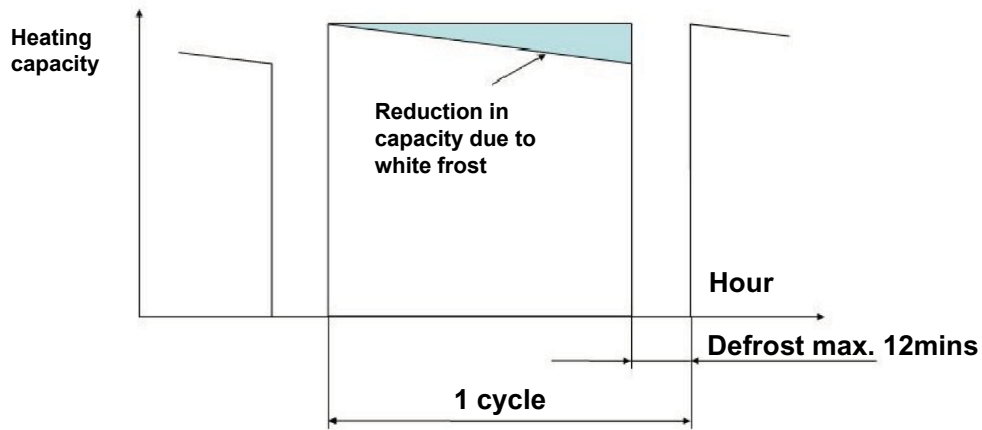
Capacities and Selection Data (Correction Factors According To Defrosting Operation)

The heating capacity in previous part, excludes the condition of defrosting operation period. In consideration of defrosting operation, the heating capacity is corrected by the equation below.

Corrected heating capacity = Defrost Correction factor x unit capacity

OUTDOOR TEMPERATURE [°F(°C)DB]	-13 (-25)	-4 (-20)	5 (-15)	14 (-10)	19.4 (-7)	23 (-5)	26.6 (-3)	32(0)	37.4 (3)	41 (5)	44.6 (7)
Correction factor (humidity rate 85% RH)	1	1	0.99	0.97	0.95	0.93	0.88	0.85	0.87	0.9	1

Correction Factor



NOTE:

The correction factor is not valid for special conditions such as snowfall or operation in a transitional period.

INSTALLATION

General

1. This air conditioner uses new refrigerant HFO (R454B). R454B refrigerant is flammable.
2. Since the max. working pressure is less than 602psig (4.15MPa), some of the piping and installation and service tools are special.
3. This air conditioner uses power supply: 208/230V ~, 60Hz.

Please read these SAFETY PRECAUTIONS carefully to ensure correct installation.

- Be sure to use a dedicated power circuit, and do not put other loads on the power supply.
- Be sure to read these SAFETY PRECAUTIONS carefully before installation.
- Be sure to comply with SAFETY PRECAUTIONS of installation manual, because it contains important safety issues. Definitions for identifying hazard levels are provide below with their respective safety symbols.

⚠ **WARNING:** Hazards or unsafe practices which COULD result in severe personal injury or death.

⚠ **CAUTION:** Hazards or unsafe practices which COULD result in minor personal injury or product or property damage.

- Please carefully file indoor and outdoor unit manual away for future reference.



- Installation should be performed by a qualified personnel.
Improper installation may cause water leakage, electrical shock or fire.
- Install the air conditioner on a solid base that can support the unit weight.
An inadequate base or incomplete installation may cause injury if the unit falls off the base.
- Use the specified type of wire for electrical connections safely between the indoor and outdoor units.
And firmly clamp the interconnecting wires so their terminals receive no external stresses.
- For wiring, use a cable long enough to cover the entire distance with no connection.
And do not connect multiple devices to the same AC power supply.
Otherwise, it may be due to bad contact, poor insulation, exceed the allowable current and cause a fire or electric shock.
- After all installation is completed, check to make sure that no refrigerant is leaking out.
If the refrigerant gas leakage to the interior, and the heater, stove flame touching it, will generate harmful substances, possible ignition of refrigerant.
- Perform the installation securely referring to the installation manual.
Incomplete installation could cause a personal injury due to fire, electric shock, the unit falling or leakage of water.
- In accordance with the installation instructions for electrical work, please be sure to use a dedicated circuit.
- If the power supply circuit capacity or electrical work is not in place, may cause a fire or electric shock.
- Attach the electrical cover to the indoor unit and the service panel to the outdoor unit securely.
- If the electrical covers on the indoor unit or the service panel of the outdoor unit are not attached securely, it could result in a fire or an electric shock due to dust water, etc.
- Please be sure to cut off the main power supply before the installation of indoor electronic PCB or wiring. Otherwise, it will cause electric shock. Circuits may stay energized as much as 5 mins after removing the power. Allow enough time for circuits to discharge before handling electrical parts.
- All wiring shall be in accordance with local and national codes.
- The outdoor unit installation location should pay attention to the protection, avoid people or other small animals contact with electrical components, please keep the outdoor unit of the surrounding environment clean and clear from obstructions.
- When installing or relocating the unit, make sure that no substance other than the specified refrigerant (R454B) enters the refrigerant circuit.
Any presence of foreign substance such as air can cause abnormal pressure rise or an explosion.
- Assure that PARTIAL UNITS shall only be connected to an unit suitable for the same refrigerant.

INSTALLATION

General



- Equipment Grounding,
Do not connect ground wires to household piping such as water gas or electrical. If ground is not present a new grounding rod must be installed.
- Do not install the unit in a place where an flammable gas leaks.
If gas leaks and accumulates in the area surrounding the unit, it could cause an explosion.
- Fasten a flare nut with a torque wrench as specified in this manual.
When fastened too tight, a flare nut may break after a long period and cause a leakage of refrigerant.
- Install an earth leakage breaker depending on the installation place(where it is humid).
If an earth leakage breaker is not installed, it could cause an electric shock.
- Perform the drainage/piping work securely according to the installation manual.
- If there is a defect in the drainage/piping work, water could drop from the unit and household goods could be wet and damaged.
- These units are PARTIAL UNIT AIR CONDITIONERs, complying with PARTIAL UNIT requirements of this standard, and must only be connected to other units that have been confirmed as complying to corresponding PARTIAL UNIT requirements of this standard, UL 60335-2-40/CSA C22.2 No. 60335-2-40, or UL 1995/CSA C22.2 No 236.
- Assure the maximum operating pressure is considered when connecting to any indoor units.
- According to ASHRAE 15, these units can stop compressor working in 10s when receiving the signal from the Refrigerant detection systems in indoor units.
Please verify and assure the validity during installation.

Safety instructions

- Do not let air enter the refrigeration system or discharge refrigerant when moving the air conditioner.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Children should be supervised to ensure that they do not play with the appliance.
- If the appliance is fixed wiring, the appliance must be fitted with means for disconnection from the supply mains having a contact separation in all poles that provide full disconnection under over voltage category III conditions, and these means must be incorporated in the fixed wiring in accordance with the wiring NEC codes and regulation.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- The appliance shall be installed in accordance with national wiring regulations.
- Servicing shall only be performed as recommended by the equipment manufacturer.
- The method of connection of the appliance to the electrical supply and interconnection of separate components is detailed in below part. The wiring diagram with a clear indication of the connections and wiring to external control devices and supply cord is detailed in below part.
- In order to avoid a hazard due to inadvertent resetting of the thermal cut-out, this appliance must not be supplied through an external switching device, such as a timer, or connected to a circuit that is regularly switched on and off by the utility.
- It is necessary to allow disconnection of the appliance from the supply after installation. The disconnection may be achieved by incorporating a switch in the fixed wiring in accordance with the wiring rules. During service and when replacing parts, be sure to disconnect the appliance from its power source. If the disconnection is not foreseen, a disconnection with a locking system in the isolated position shall be provided.
- The information of dimensions of the space necessary for correct installation of the appliance including the minimum permissible distances to adjacent structures is detailed in below part.
- This appliance is intended to be used by expert or trained users in shops, in light industry and on farms, or for commercial use by lay persons.
- Instructions on addition charging of refrigerants are detailed in below part.

INSTALLATION

General

Precautions for using R454B refrigerant

The basic installation work procedures are the same as the conventional refrigerant (R22 or R410A). However, pay attention to the following points:

WARNING

1. Transport of equipment containing flammable refrigerants.

Attention is drawn to the fact that additional transportation regulations may exist with respect to equipment containing flammable gas. The maximum number of pieces of equipment or the configuration of the equipment, permitted to be transported together will be determined by the applicable transport regulations.

2. Marking of equipment using signs

Signs for similar appliances (containing flammable refrigerants) used in a work area generally are addressed by local regulations and give the minimum requirements for the provision of safety and/or health signs for a work location. All required signs are to be maintained and employers should ensure that employees receive suitable and sufficient instruction and training on the meaning of appropriate safety signs and the actions that need to be taken in connection with these signs. The effectiveness of signs should not be diminished by too many signs being placed together. Any pictograms used should be as simple as possible and contain only essential details.

3. Disposal of equipment using flammable refrigerants

Compliance with national regulations

4. Storage of equipment/appliances

The storage of equipment should be in accordance with the manufacturer's instructions.

5. Storage of packed (unsold) equipment

- Storage package protection should be constructed such that mechanical damage to the equipment inside the package will not cause a leak of the refrigerant charge.
- The maximum number of pieces of equipment permitted to be stored together will be determined by local regulations.
- The storage temperature should not exceed 60°C, as the refrigerant leakage may occur above 60°C, which can cause danger.

6. Information on servicing

6-1 Checks to the area

Prior to beginning work on systems containing flammable refrigerants, safety checks are necessary to ensure that the risk of ignition is minimized. For repair to the refrigerating system, the following precautions should be complied with prior to conducting work on the system.

6-2 Work procedure

Work shall be undertaken under a controlled procedure so as to minimise the risk of flammable gas or vapour being present while the work is being performed.

6-3 General work area

- All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out. Work in confined spaces shall be avoided.
- The area around the workspace shall be sectioned off. Ensure that the conditions within the area have been made safe by control of flammable material.

6-4 Checking for presence of refrigerant

- The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially flammable atmospheres.
- Ensure that the leak detection equipment being used is suitable for use with flammable refrigerants, i.e. non-sparking, adequately sealed or intrinsically safe.

6-5 Presence of fire extinguisher

- If any hot work is to be conducted on the refrigeration equipment or any associated parts, appropriate fire extinguishing equipment shall be available to hand.
- Have a dry powder or CO2 fire extinguisher adjacent to the charging area.

6-6 No ignition sources

- No person carrying out work in relation to a refrigeration system which involves exposing any pipe work that contains or has contained flammable refrigerant shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion.
- All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which flammable refrigerant can possibly be released to the surrounding space.
- Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks. "No Smoking" signs shall be displayed.

6-7 Ventilated area

- Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work.
- A degree of ventilation shall continue during the period that the work is carried out.
- The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.

6-8 Checks to the refrigeration equipment

- Where electrical components are being changed, they shall be fit for the purpose and to the correct specification.
- At all times the manufacturer's maintenance and service guidelines shall be followed. If in doubt consult the manufacturer's technical department for assistance.

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General

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- The following checks shall be applied to installations using flammable refrigerants:
 - The charge amount is in accordance with the room size within which the refrigerant containing parts are installed; Refer to a chart.
 - The ventilation machinery and outlets are operating adequately and are not obstructed;
 - If an indirect refrigerating circuit is used, the secondary circuit shall be checked for the leak of refrigerant;
 - Marking of the equipment should be visible and legible. Illegal markings and signs shall be corrected;
 - Refrigeration pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.

6-9 Checks of electrical devices

- Repair and maintenance of electrical components shall include initial safety checks and component inspection procedures.
- If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with.
- If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used.
- This shall be reported to the owner of the equipment so all parties are advised.
- Initial safety checks shall include:
 - Capacitors should have adequate time to discharge before touching electrical parts . NO MANUAL DISCHARGING
- That there no live electrical components and wiring are exposed while charging, recovering or purging the system;
- That there is continuity of earth bonding.

7. Repairs of sealed components

Sealed electrical components shall be replaced with OEM approved parts.

8. Repairs of intrinsically safe components

Intrinsically safe components must be replaced with OEM approved parts.

9. Cabling

- Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges or any other adverse environmental effects.
- The check shall also take into account the effects of aging or continual vibration from sources such as compressors or fans.

10. Detection of flammable refrigerants

- Under no circumstances shall potential sources of ignition be used in the searching or detection of refrigerant leaks.
- A halide torch (or any other detector using a naked flame) shall not be used.

11. Leak detection methods

The following leak detection methods are deemed acceptable for systems containing flammable refrigerants:

- Leak detector must be A2L compatible.
- Electronic leak detectors shall be used to detect flammable refrigerants, but the sensitivity may not be adequate, or may need re-calibration. (Detection equipment shall be calibrated in a refrigerant-free area.)
- Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant used.
- Leak detection equipment shall be set at a percentage of the LFL of the refrigerant and shall be calibrated to the refrigerant employed and the appropriate percentage of gas (maximum 25%) is confirmed.
- Leak detection fluids are suitable for use with most refrigerants but the use of detergents containing chlorine shall be avoided as the chlorine may react with the refrigerant and corrode the copper pipe-work.
- If a leak is suspected, all naked flames shall be removed/ extinguished.
- If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak.
- Removal of refrigerant shall be according to EPA Sec. 608.

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12. Removal and evacuation

- When opening a refrigerant circuit into the refrigerant circuit to make repairs – or for any other purpose – conventional procedures shall be used.
- However, for flammable refrigerants it is important that best practice be followed, since flammability is a consideration.
- The following procedure shall be adhered to:
 - Safely recover the refrigerant, following local and national regulations;
 - Purge first then evacuate.
 - Purge the circuit with inert gas (optional for A2L);
 - Evacuate (optional for A2L);
 - Suggest cutting out the components and unbrazing when removed from the system.
 - Open the circuit.
- The refrigerant charge shall be recovered into the correct recovery cylinders.
- The system shall be “flushed” with dry nitrogen to render the unit safe.
- This process may need to be repeated for several times.
- Compressed air or oxygen shall not be used for this task.
- Flushing shall be achieved by breaking the vacuum in the system with Dry nitrogen and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum.
- Flushing shall be achieved by purging the Dry nitrogen through the refrigeration system from an entrance point to an exit point that will replace refrigerant, and oxygen trapped in the system. 3-5 minutes of purging is normal. Once repairs have been made a pressure test to 550 psi must be performed and must hold for 30 mins. Once pressure test is complete, release the nitrogen and evacuate the system to a 500 micron or below and should hold for 30 mins without raising. (triple evacuation will help with this process). Link to Porcess.

13. Charging procedures

- In addition to conventional charging procedures, the following requirements shall be followed:
 - Ensure that contamination of different refrigerants does not occur when using charging equipment.
 - Hoses or lines shall be as short as possible to minimise the amount of refrigerant contained in them.
 - Cylinders shall be kept upright.
 - Ensure that the refrigeration system is grounded prior to charging the system with refrigerant.
 - Label the system when charging is complete (Indicate any added refrigerant and total charge and subsequent line set length).
 - Extreme care shall be taken not to overfill the refrigeration system.
 - Prior to recharging the system pressure shall be tested with Dry nitrogen.
- The system shall be leak tested on completion of charging but prior to commissioning.
- A follow up leak test shall be carried out prior to leaving the site.

14. Decommissioning

Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its detail.

It is recommended that all refrigerants are recovered safely.

Prior to the task, an oil and refrigerant sample shall be taken in case that an analysis is required prior to the re-use of recovered refrigerant. It is essential that electrical power is available before the task.

a) Become familiar with the equipment and its operation.

b) Isolate system electrically.

c) Before attempting the procedure ensure that:

- Mechanical handling equipment is available, if required, for handling refrigerant cylinders;
- All personal protective equipment is available and being used correctly;
- The recovery process is supervised at all times by a competent person;
- Recovery equipment and cylinders conform to the appropriate standards.

d) Pump down refrigerant system, if possible.

e) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.

f) Make sure that cylinder is situated on the scales before recovery.

g) Start the recovery machine and operate in accordance with manufacturer's instructions.

h) Do not overfill cylinders. (No more than 80 % volume liquid charge).

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- i) Do not exceed the maximum working pressure of the cylinder, even temporarily.
- j) When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.
- k) Recovered refrigerant shall not be charged into another refrigeration system unless it has been cleaned and checked.

15. Labelling

Equipment shall be labelled stating that it has been de-commissioned and empty of refrigerant. The label shall be dated and signed.

For appliances containing FLAMMABLE REFRIGERANTS, ensure that there are labels on the equipment stating the equipment contains FLAMMABLE REFRIGERANTS.

16. Recovery

- When removing refrigerant from a system, either for servicing or decommissioning, it is recommended that all refrigerant is removed safely.
- When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed.
- Ensure that the correct number of cylinders for holding the total system charge is available.
- All cylinders to be used are designated for the recovered refrigerant and labelled for that refrigerant (i.e. special cylinders for the recovery of refrigerant).
- Cylinders shall be complete with pressure relief valve and associated shut-off valves in good working order.
- Empty recovery cylinders are evacuated and, if possible, cooled before recovery.

17. Competence of service personnel

Information and training

The training should include the substance of the following:

Information about the explosion potential of flammable refrigerants to show that flammables may be dangerous when handled without care.

Information about potential ignition sources, especially those that are not obvious, such as lighters, light switches, vacuum cleaners, electric heaters.

Information about the concept of sealed components and sealed enclosures according to UL 60335.

Information about the correct working procedures:

a) Commissioning

- Ensure that the floor area is sufficient for the refrigerant charge or that the ventilation duct is assembled in a correct manner.
- Connect the pipes and carry out a leak test before charging with refrigerant.
- Check safety equipment before putting into service.

b) Maintenance

- Portable equipment shall be repaired outside or in a workshop specially equipped for servicing units with flammable refrigerants.
- Ensure sufficient ventilation at the repair place.
- Be aware that malfunction of the equipment may be caused by refrigerant loss and a refrigerant leak is possible.
- Discharge capacitors in a way that won't cause any spark. The standard procedure to short circuit the capacitor terminals usually creates sparks.
- Reassemble sealed enclosures accurately. If seals are worn, replace them.
- Check safety equipment before putting into service.

c) Repair

- Portable equipment shall be repaired outside or in a workshop specially equipped for servicing units with flammable refrigerants.
- Ensure sufficient ventilation at the repair place.
- Be aware that of the equipment may be caused by refrigerant loss and a refrigerant leak is possible.
- Discharge capacitors in a way that won't cause any spark.
- When brazing is required the following procedures shall be carried out in the right order.
 - Remove the refrigerant. If the refrigerant is not required by national regulations, drain the refrigerant to the outside. Take care that the drained refrigerant will not cause any danger. In doubt, one person should guard the outlet. Take special care that drained refrigerant will not float back into the building.

INSTALLATION

General

WARNING

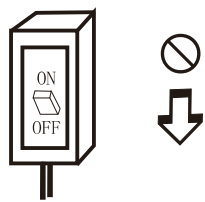
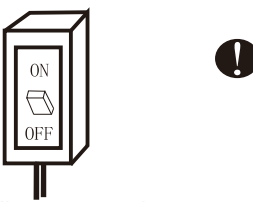
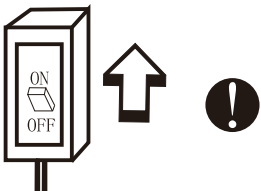
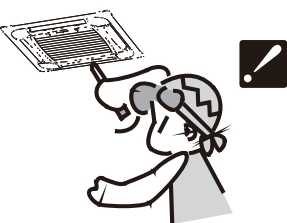
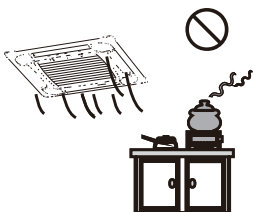
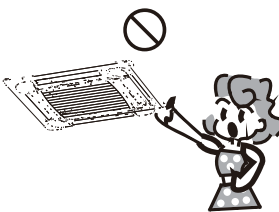
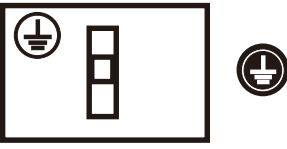
- Evacuate the refrigerant circuit.
 - Purge the refrigerant circuit with nitrogen for 5 min.
 - Evacuate again (not required for A2L refrigerants)
 - Remove parts to be replaced by cutting, not by flame.
 - Purge the braze point with nitrogen during the brazing procedure.
 - Carry out a leak test before charging with refrigerant.
 - Reassemble sealed enclosures accurately. If seals are worn, replace them.
 - Check safety equipment before putting into service.
 - d) Decommissioning
 - If the safety is affected when the equipment is put out of service, the refrigerant charge shall be removed before decommissioning.
 - Ensure sufficient ventilation at the equipment location.
 - Be aware that malfunction of the equipment may be caused by refrigerant loss and a leak is possible.
 - Discharge capacitors in a way that won't cause any spark.
 - Remove the If the recovery is not required by national regulations, drain the refrigerant to the outside. Take care that the drained refrigerant will not cause any danger. In doubt, one person should guard the outlet. Take special care that drained refrigerant will not float back into the building.
 - e) Disposal
 - Ensure sufficient ventilation at the working place.
 - Remove the refrigerant. If the recovery is not required by national regulations, drain the refrigerant to the outside. Take care that the drained refrigerant will not cause any danger. In doubt, one person should guard the outlet. Take special care that drained refrigerant will not float back into the building.
 - Evacuate the refrigerant circuit
 - Purge the refrigerant circuit with nitrogen for 5 min.
 - Evacuate again.
 - Cut out the compressor and drain the oil.
-
- The pipe-work shall be complied with national gas regulations.
 - The maximum refrigerant charge amount is X kg (X see below).
 - Where addition of charge is required to complete installation, according to the content in "Refrigerant piping". After charged, finish the label (in accessory bag) and paste it near the nameplate.
 - When moving or relocating the air conditioner, consult experienced service technicians for disconnection and reinstallation of the unit.
 - Do not place any other electrical products or household belongings under indoor unit or outdoor unit.
 - Condensation dripping from the unit might get them wet, and may cause damage or malfunction of your property.
 - Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
 - The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).
 - Do not pierce or burn.
 - Be aware that refrigerants may not contain an odour.
 - To keep ventilation openings clear of obstruction.
 - The appliance shall be stored in a well-ventilated area where the room size corresponds to the room area as specified for operation.
 - The appliance shall be stored in a room without continuously operating open flames (for example an operating as appliance) and ignition sources (for example an operating electric heater).
 - Any person who is involved with working on or breaking into a refrigerant circuit should hold a current valid certificate from an industry-accredited assessment authority, which authorises their competence to handle refrigerants safely in accordance with an industry recognised assessment specification.
 - Servicing shall only be performed as recommended by the equipment manufacturer.
 - Maintenance and repair requiring the assistance of other skilled personnel shall be carried out under the supervision of the person competent in the use of flammable refrigerants.
 - The appliance shall be installed and stored so as to prevent mechanical damage from occurring.
 - Mechanical connectors used indoors shall comply with ISO 14903. When mechanical connectors are reused indoors, sealing parts shall be renewed. When flared joints are reused indoors, the flare part shall be re-fabricated.
 - The installation of pipe-work shall be kept to a minimum.
 - Mechanical connections shall be accessible for maintenance purposes.

INSTALLATION

Cassette

Symbols in this User's Manual are interpreted as shown below:

- | | |
|--|---|
|  Be sure not to do. |  Be sure to follow the instruction. |
|  The feature of the appliance, instead of a fault. |  Grounding is necessary. |
|  Pay attention to such a situation. |  Warning: Incorrect handling could cause a serious hazard, such as death, serious injury, etc. |

 Do not use the power supply circuit breaker or pull off the plug to turn it off during operation. This may cause a fire due to spark, etc.	 Avoid dirt accumulation on power supply circuit breaker. Connect the power supply cord to it firmly and correctly. Otherwise it may lead to electric shock or a fire break out due to insufficient contact.	 Provide accurate power supply in accordance with the rating plate requirement. Otherwise, serious faults may occur or a fire may break out.
 Do not apply excess pressure, pull or press the power supply cord, otherwise, the power supply cord can break leading to electric shock or fire.	 Never insert a stick or similar object to the unit. Since the fan is rotating at high speed, this may cause an injury.	 It is harmful for your health if you are exposed to cold air for prolonged period of time. Hence it is recommended for uniform distribution of airflow in the room.
 Turn off the appliance first and then cut off power supply when appliance malfunctions.	 Do not repair the appliance on your own, this may lead to electric shock and so on.	 Prevent the air flow from reaching the gas burners and stove.
 Do not operate the unit with wet hands.		 It is user's responsibility to make the appliance grounded according to local and national codes or ordinances by a licensed person.

INSTALLATION

Cassette

Operating condition

The protective device may trip and stop if it is operated outside the allowed temperature range.

If the air conditioner runs in "COOLING" or "DRY" mode with door or window open for a long time when relative humidity is above 85%, dew may drip down from the air outlet.

Noise pollution

- Install the air conditioner at a place that can bear its weight to for quiet operation.

Features of protector

The protective device will work at following cases:

- Turning off the appliance and restarting it at once or changing mode during operation, you need to wait at least 3 minutes.

Inspection

After operating for a long time, the air conditioner should be inspected on the following items:

- Overheat of the power supply cord and plug or even a burnt smell.
 - Abnormal operating sound or vibration.
 - Water leakage from indoor unit.
 - Electrification of metal cabinet.
- ☑ Stop the air conditioner if above trouble occurs. It is advisable to have a detailed inspection after using the appliance for 5 years even if none of the above condition occurs.

Features of HEATING mode

Preheating

At the beginning of HEATING operation, the airflow from indoor unit is discharged 2-5 minutes later.

Defrosting

During HEATING operation the appliance will defrost automatically to improve efficiency. This procedure usually lasts for 2-10 minutes. During defrosting, fans stop operation. After defrosting completes, it returns to "HEATING" mode automatically.

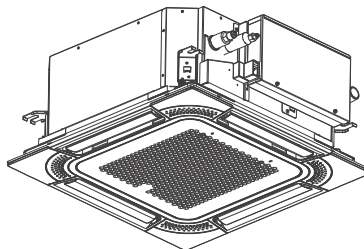
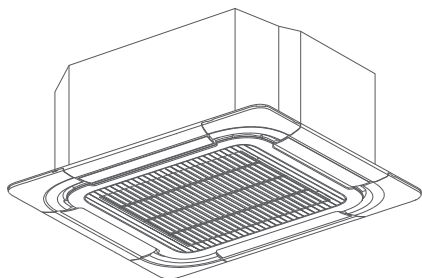


It is hard to increase the room temperature when outdoor temperature is very low. It might take longer time if the working temperature range not closer to the operation limits.

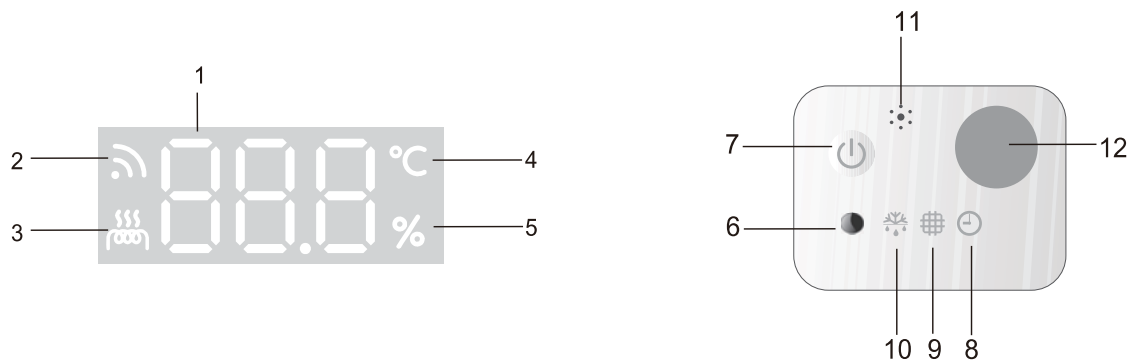
INSTALLATION

Cassette

Indoor unit



Display panel



1 Temperature/humidity indicator

Display indoor set temperature or indoor temperature; Display indoor humidity (models without a humidity sensor display “—”).

2 Wi-Fi receiver

It lights up when Wi-Fi is connected. It stops lighting when Wi-Fi is disconnected.

3 Electric heater indicator (It is only valid for the air conditioner with electric heater function.)

It lights up during heating mode when electric heater is on. It stops lighting when heater is completed.

4 Temperature Unit (°C) indicator

It lights up when the air conditioner displays with Celsius temperature, and stops lighting when it is displays with Fahrenheit temperature.

5 Humidity indicator

It lights up when display humidity.

NOTE: The figures in this manual are based on the external view of a standard model.
Consequently, the shape may differ from the air conditioner model you have selected.

INSTALLATION

Cassette

6 Run indicator (Red)

It lights on during operation. It lights off during SLEEP mode.

7 Emergency switch

The filter clean indicator is reset when the switch is pressed. The unit will be started or stopped when the switch is pressed. The unit will be operated in forced cooling mode if press the switch continuously for more than 5s when the unit is off.

8 Timer indicator (Green)

It lights on when timer is in use. It lights off when timer completes.

9 Filter clean (Yellow)

It lights on when the filter should be cleaned.

10 Defrost indicator (Green)

It lights on during defrosting and it lights off when defrosting is complete.

11 Buzzer

It rings when the signal from remote controller is received.

12 Infrared receiver

Receives signal from the remote controller.

Operation Manual

1. Special Remarks

• 3-minute protection after the compressor stops

To protect compressor, the system implements a 3 minutes once operation is stopped.

• 5 minute-protection

Compressor must run for at least 5 minutes once operation starts. During the 5 minutes, compressor will not stop even after set point is reached. The system will shut off if manually turned off using the remote controller.

• Cooling operation

The fan of the indoor unit will never stop running in cooling operation. It continues to operate even if the compressor stops working.

• Heating operation

Heating capacity depends on external factors like outdoor unit temperature. Heating capacity might decrease if outdoor ambient temperature is too low.

• Anti-freezing function during cooling

When the air temperature from the indoor outlet is too low, the unit will run for some time under the fan mode, to avoid frost or ice forming on the indoor heat exchanger.

• Anti cold air function

When heating, in order to prevent the indoor unit from blowing cold air, the fan speed is controlled at low speed air or stopped in heating mode, and the fan speed is set according to the indoor coil temperature.

• Defrosting

When the outdoor temperature is too low, ice may form on the outdoor heat exchanger, reducing heating performance. When this happens, the defrost cycle of the system will start. During the defrost cycle, the indoor unit fan stops (or runs at a very low speed in some cases), to prevent cold draft.

Once the defrost cycle is complete, heating operation and the fan speed resume.

• Discharging the residual heating air

When stopping the air conditioner in normal operation, the fan motor will run with low speed for a while to blow out the residual hot air.

• Auto restart from power outage

When the power supply is recovered after power outage, all presets still be in effect and the system will run according to the previous settings.

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2.Filter Cleaning

⚠ CAUTION

Do not operate the system without air filter to protect the indoor unit heat exchanger against being clogged.

Turn off the main power switch before changing or cleaning filter. (The previous operation mode may appear.)

Installation or maintenance work of air filter must be performed by qualified professional personnel.

2.1 Filter Cleaning Indication

(1) For THREE-EIGHT indicators

When letters “FC” displays, it indicates it's time to clean the filter.

(2) For light indicators

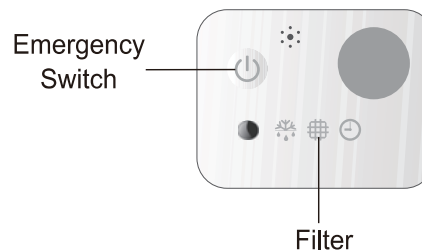
Step 1

It is time to clean the filter, when the filter icon  is turned on.

Step 2

Cancel the setting

Press Emergency switch  to return to the standard state.



2.2 Take Out the Filter

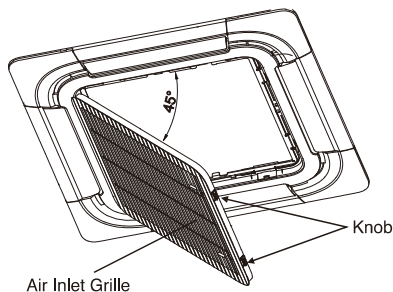
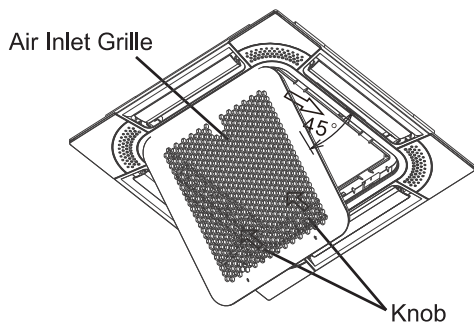
Take out the air filter according to the following steps.

Step 1

Open the air inlet grille after pushing the two knobs as the arrow mark.

Step 2

Take out the air filter from the air inlet grille by supporting the air grille and lifting the air filter after detaching the filter from the hinges.



2.3 Clean the Filter

Clean the air filter according to the following steps.

Step 1

Use a vacuum cleaner or rinse the air filter to remove the dirt.

⚠ CAUTION

Do not use hot water with temperature higher than 104°F (40°C).

Step 2

Dry the air filter in the shade to remove excess moisture.

2.4 Resetting of Filter

Press key “TURBO” on the remote controller for 5 seconds, then release the button to restore.

For the operation of wired controller, please refer to manual of the wired controller for related information.

INSTALLATION

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3. Trouble Shooting



When condensate drain overflows from the indoor unit, stop the operation and contact a qualified, licensed service professional.

When you smell or see smoke coming out of the unit, turn OFF the main power supply and contact a qualified, licensed service professional.

3.1 If Trouble issue persists

If the issue continues after checking the following, contact your contractor and inform them of the following items.

- (1) Model number and serial number
- (2) Details of the issue

3.2 No Operation

Check whether the SET TEMP is set at the correct temperature.

3.3 Not Cooling or Heating Properly

- Check for obstruction of air flow of outdoor or indoor units.
- Check if there are too many heating sources in the room.
- Check if the air filter is clogged.
- Check if the doors or windows are open.
- Check if the temperature condition is within the operation range.

3.4 This is Not Abnormal

- **Odour from Indoor Unit**
Unpleasant odour diffuses from indoor unit after a long period of time. Clean the air filter and panels or allow a good ventilation.
- **Sound from Deforming Parts**
When start or stop the system, a sound might be heard. However, this is due to thermal deformation of plastic parts. It is not abnormal.
- **Dew on Air Panel**
When the cooling operation continues for a long period of time under high humidity conditions, dew can form on the air panel.
- **Refrigerant Flow Sound**
While the system is being started or stopped, the refrigerant flow sound may be heard.

Installation and Maintenance

1. Safety Notice



- Installation should be performed by a qualified personnel. (Improper installation may cause water leakage and damage, shock, or fire.)
- Install the unit according to the instructions given in this manual. (Incomplete installation may cause water leakage and damage, electrical shock, or fire).
- Be sure to use the supplied or specified installation parts. (Use of other parts may result in a poor installation, water leakage, shock, or fire).
- Install the air conditioner on a solid structure that can support the unit weight. (Inadequate support or incomplete installation may cause injury).
- Electrical work should be carried out in accordance with the installation manual and national and local codes. (Insufficient capacity or incomplete electrical work may cause electrical shock, or fire).
- Be sure to use a dedicated power circuit. (Never use a power supply shared by another appliance).

INSTALLATION

Cassette

- For wiring, use a cable long enough to cover the entire distance. Do not use an extension cord.
- Use the specified types of wires for electrical connections between the indoor and outdoor units. (Tightly connect the wires so their terminals with no external stresses).
- Poor or loose connections may cause terminal overheating or fire.
- After connecting all the wiring be sure to secure the cables so that they do not put pressure on the electrical covers or panels. (Install covers over the wires. Incomplete cover installation may cause terminal overheating, electrical shock, or fire).
- When installing or relocating the system, be sure to keep the refrigerant circuit free from air (Air in the refrigerant circuit may cause an abnormal pressure rise or rupture, resulting in injury).
- If any refrigerant has leaks out during the installation work, ventilate the room.
- After all installation is completed, check to make sure that no refrigerant is leaking out. (Refrigerant produces a toxic gas if exposed to flames).
- When making piping connection, do not let any debris or contaminants other than the specified refrigerant get into refrigeration cycle. (Doing so will cause reduced performance, abnormal high pressure in the refrigeration cycle, explosion and injury).
- Make sure that the equipment is properly grounded. Do not ground the unit to a utility pipe, lightning arrester, or telephone grounding. Incomplete grounding may cause electrical shock. (A high surge current from lightning or other sources may cause damage to the equipment).
- An earth leakage circuit breaker may be required depending on the site condition to prevent electrical shock.
- Disconnect the power supply before wiring, piping, or checking the unit.
- When moving the units, do not tilt the unit incline more than 45 degree. Pay attention to the sharp edges of the air conditioner to avoid any injury.
- During wired controller installation, ensure that the length of the wire between the indoor unit and remote controller is within 131 ft. (40 m).

CAUTION

- Do not install the equipment in a location where there is danger of exposure to flammable gas leakage. (A high concentration of flammable gas near the unit may result in fire)
- Install condensate drain piping according to the instructions in this manual. (Inadequate piping may cause flooding).
- Tighten the flare nut according to the specifications with a torque wrench. (Tightening the flare nut beyond specified torque may damage the flare nut).

2. Tools and Instruments for Installation

Number	Tool	Number	Tool
1	Standard screwdriver	8	Knife or wire stripper
2	Refrigerant vacuum pump	9	Level
3	Charge hose	10	Hammer
4	Pipe bender	11	Drill
5	Adjustable wrench	12	Flaring kit
6	Pipe cutter	13	Inner hexagon spanner and torque wrench
7	Cross head screwdriver	14	Measuring Tape

3. Installation of the Indoor Unit

DANGER

Do not install the indoor unit in a flammable environment to avoid fire or an explosion.

INSTALLATION

Cassette

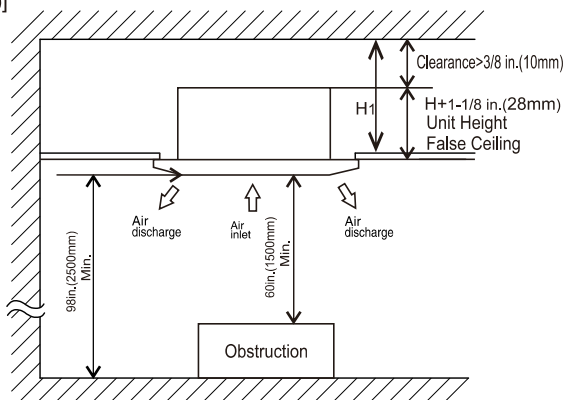
WARNING

- Check to ensure that the overhead structure can support the weight of the equipment. Otherwise the indoor unit may topple, and fall down causing injury.
- Do not install the indoor unit outdoors. If done, an electric hazard or electric leakage will occur.

3.1 Initial Check

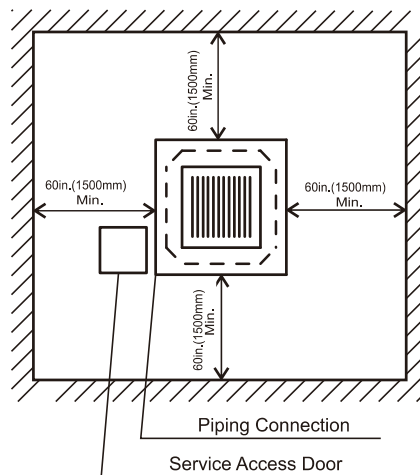
- Install the indoor unit with a proper clearance around it for operation and maintenance space, as shown in Fig.3.1.
- Provide a service access door near the unit piping connection area on the ceiling.
- Ensure that the ceiling has a sufficient strength to hang the indoor unit.
- Check that the ceiling surface is flat for the air panel installation work.

[Unit : in.(mm)]



NOTE:

H1: Size determination with at least a 1% downward slope of the drain pipe.



[Unit : in.(mm)]

Capacity (Btu/h)	H
9K/12K	8-7/16 (215)
18K/24K	9-1/4 (236)
36K/48K	10-3/4 (272)

Fig. 3.1 Space around Indoor Unit

- Consider the air distribution from the indoor unit to the space of the room, and select a suitable location so that uniform air distribution can be achieved in the room. It is recommended that the indoor unit is installed 8 ft. (2.5m) to 10 ft. (3m) from the floor level.
- Do not install flammable items in the service space for the indoor unit.
- Avoid obstacles which may obstruct the air intake or the air discharge flow.
- Do not install the indoor unit in a machine shop or kitchen where oil vapor or mist flows through the indoor unit.
The oil will deposit on the heat exchanger, thereby reducing the indoor unit performance, and in severe cases, damaging the indoor unit.
- Pay attention to the following points when the indoor unit is installed in a hospital or other facilities with electromagnetic waves from medical equipment:
 - (A) Do not install the indoor unit where the electromagnetic wave is directly radiated to the electrical box, remote control cable or remote control switch.
 - (B) Install the indoor unit and components at least 10 ft. (3m) from the electromagnetic wave source.

Cassette

- ## 3.2 Installation

(1) Determine the final location and orientation of installation of the indoor unit. Allow adequate space for piping, wiring, and maintenance.

(2) Cut out the area for the indoor unit in the false ceiling and install suspension bolts, as shown in Fig. 3.2.

18K/24K/36K/48K

- (3) Check to ensure that the ceiling is horizontally level, otherwise the condensate may not drain properly, issues can occur.
- (4) Strengthen the opening parts of the false ceiling.
- (5) Mount suspension bolts, as shown in Fig. 3.3.

-
- I Beam
- Suspension Bolt (W3/8 or M10)

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INSTALLATION

Cassette

3.2.2 Mounting Position of the Indoor Unit

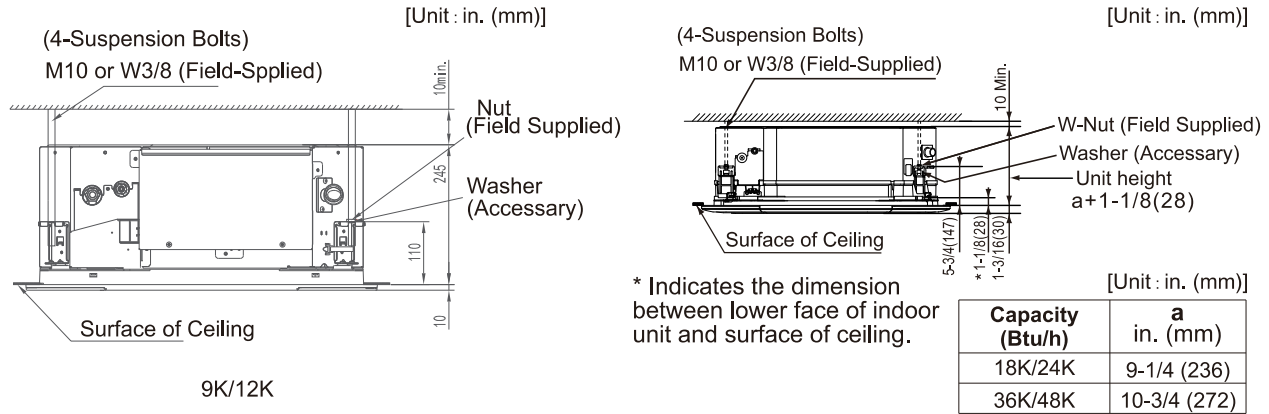


Fig. 3.4 Mounting Position [Unit : in. (mm)]

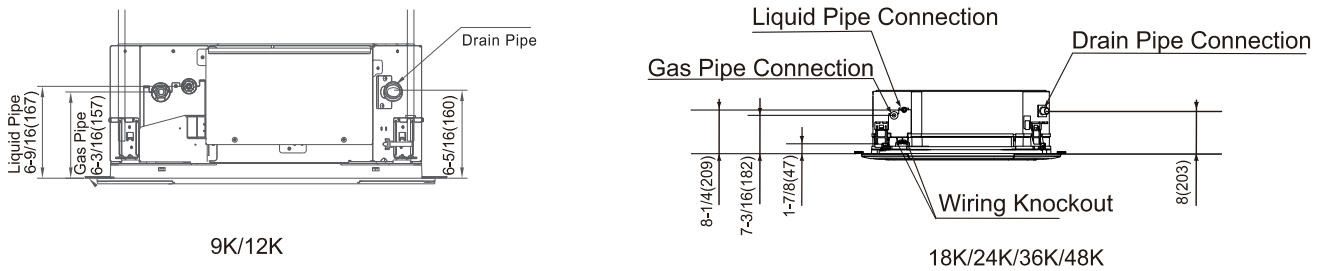
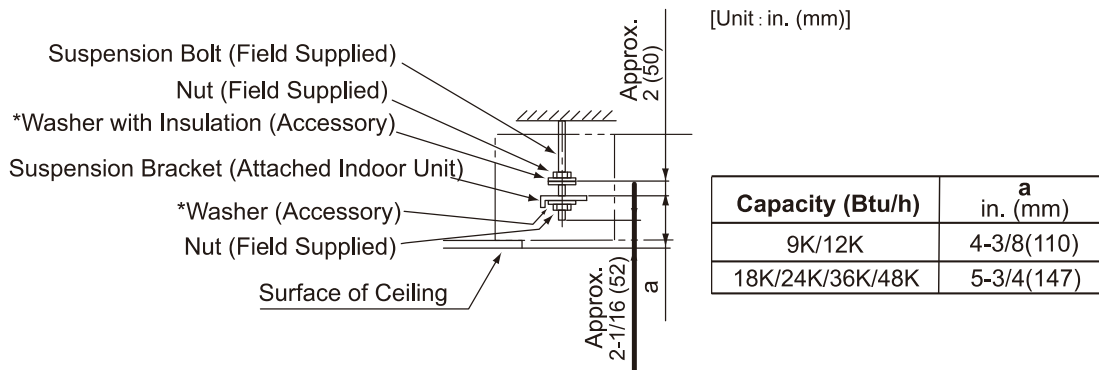


Fig. 3.5 Indoor Unit and Air Panel [Unit : in. (mm)]

3.2.3 Installing the Indoor Unit

(1) Mount the nuts and washers into the suspension bolts, as shown in Fig. 3.6.



*Place the washer so that the surface with insulation faces downwards.

Fig. 3.6 Mounting Nuts and washer

INSTALLATION

Cassette

- (2) Lift the indoor unit by hoist, and do not apply any force on the drain pan.
- (3) Secure the indoor unit using the nuts and washer, as shown in Fig. 3.7.

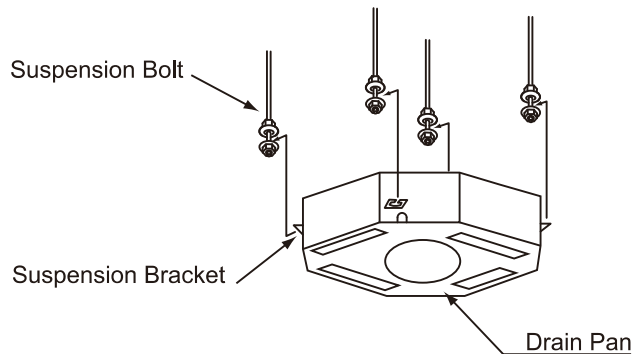


Fig. 3.7 Mounting the Indoor Unit

NOTE: If a false ceiling is already constructed, complete all piping and wiring work inside the ceiling before securing the indoor unit.

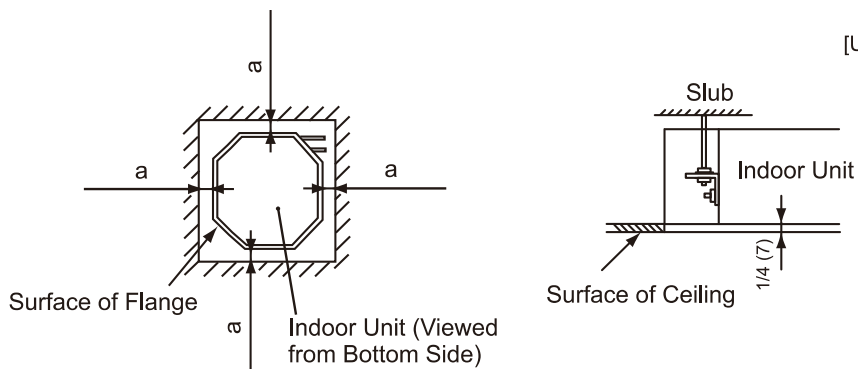
3.2.4 Adjusting the Space between Indoor Unit and False Ceiling Opening



- Check the level of the drain pan using a leveler to avoid incorrect operation of the drain discharge mechanism in the indoor unit. The drain piping side of the indoor unit must be approximately 5mm lower than the other side.
- Tighten the nuts of the suspension brackets after the adjustment is completed. Apply **LOCK-TIGHT paint*** to the bolts and nuts to prevent them from loosening, otherwise, abnormal noises or sounds may occur and the indoor unit may fall down.

LOCK-TIGHT paint*: Paint the lock bolts and nuts. Adjust the indoor unit to the correct position while checking with the scale (factory-supplied).

- (1) Installation template is attached with the packing.
- (2) Adjust the position of indoor unit, according to the dimensions.

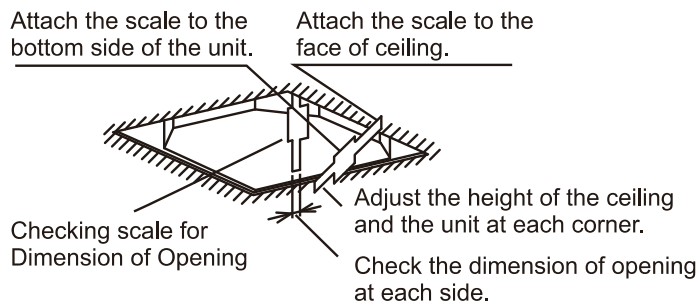


Capacity(Btu/h)	a in. (mm)
9K/12K	3/16 to 3/8 (5-10)
18K/24K/36K/48K	3/8 to 1-3/8 (10-35)

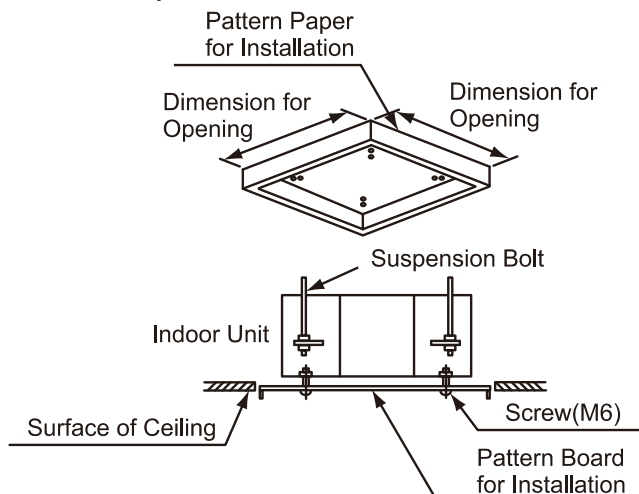
INSTALLATION

Cassette

a. For Ceiling already Completed with Panels



b . Ceiling not Completed with Panels yet



3.3 Installation Details for Air Panels

- Installation work for air panel should be done according to the Installation Manual for Air Panel.
- Ensure that the connector between indoor unit and the air panel is properly connected.

4. Refrigerant Pipe

⚠ DANGER

Use refrigerant R454B in the refrigerant cycle (refer to outdoor nameplate). Do not add oxygen, acetylene or other flammable and poisonous gases into the refrigerant cycle when performing a leakage test or an air-pressure test. These type of gases are extremely dangerous, which may cause an explosion. It is recommended to use nitrogen to perform these tests.

4.1 Pipe Material

- (1) Prepare locally-supplied copper pipes.
- (2) Select the piping size from the following table.

Model	Gas pipe [in. (mm)]	Liquid pipe [in. (mm)]
9K/12K	ø 3/8 (9.52)	ø 1/4 (6.35)
18K	ø 1/2 (12.7)	ø 1/4 (6.35)
24K/36K	ø 5/8 (15.88)	ø 3/8 (9.52)
48K	ø 3/4 (19.05)	ø 3/8 (9.52)

- (3) Select clean copper pipes. Make sure that there is no dust and moisture inside. Blow the pipes with nitrogen or dry air to remove dust and foreign materials before connecting pipes.

INSTALLATION

Cassette

4.2 Pipe Connection

(1) Position of piping connection is shown in Fig. 4.1.(Indoor Unit)

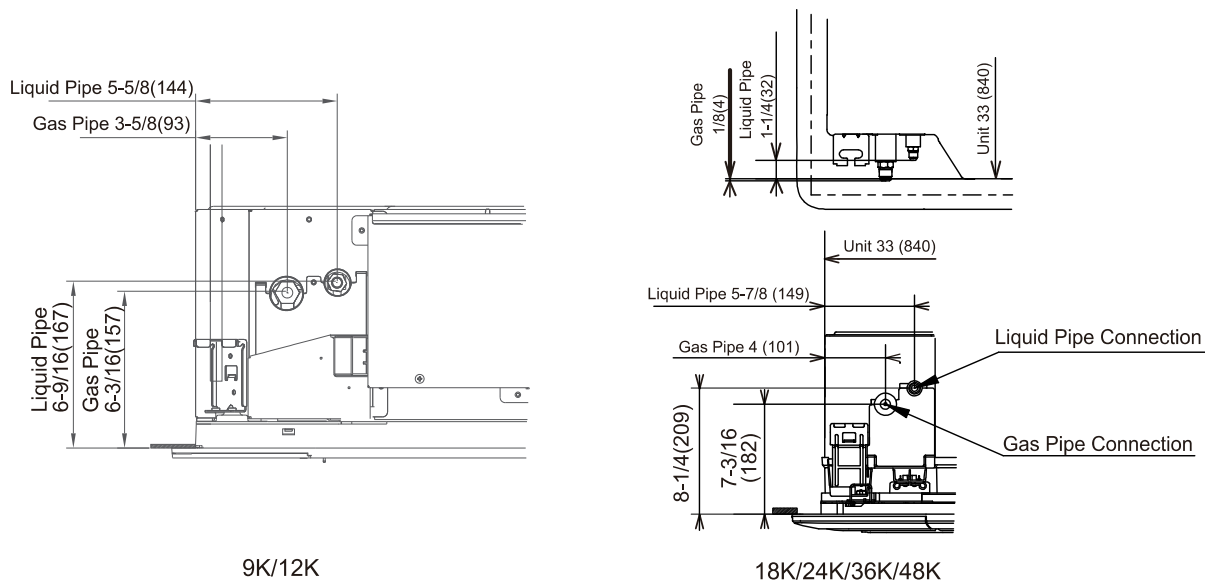
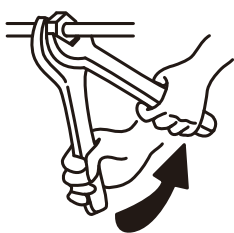


Fig. 4.1 Position of Piping Connection [Unit : in. (mm)]

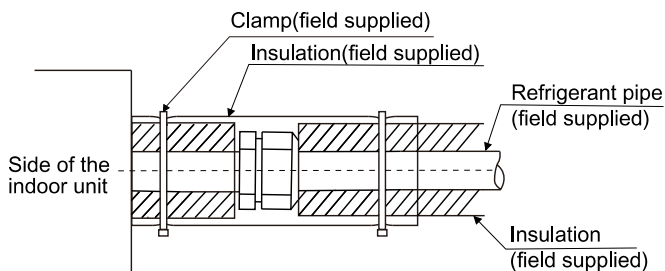
(2) When tightening the flare nut, use torque wrench and adjustable as shown in Fig.4.2.



Tube size [in. (mm)]	Torque [lbf-ft. (N·m)]
ø 1/4 (6.35)	14.8 (20)
ø 3/8 (9.52)	29.5 (40)
ø 1/2 (12.7)	44.3 (60)
ø 5/8 (15.88)	59.0 (80)
ø 3/4 (19.05)	73.8 (100)

Fig. 4.2 Tightening Work of Flare Nut

(3) After finishing connecting the refrigerant pipes, keep it warm with the insulation material.



INSTALLATION

Cassette

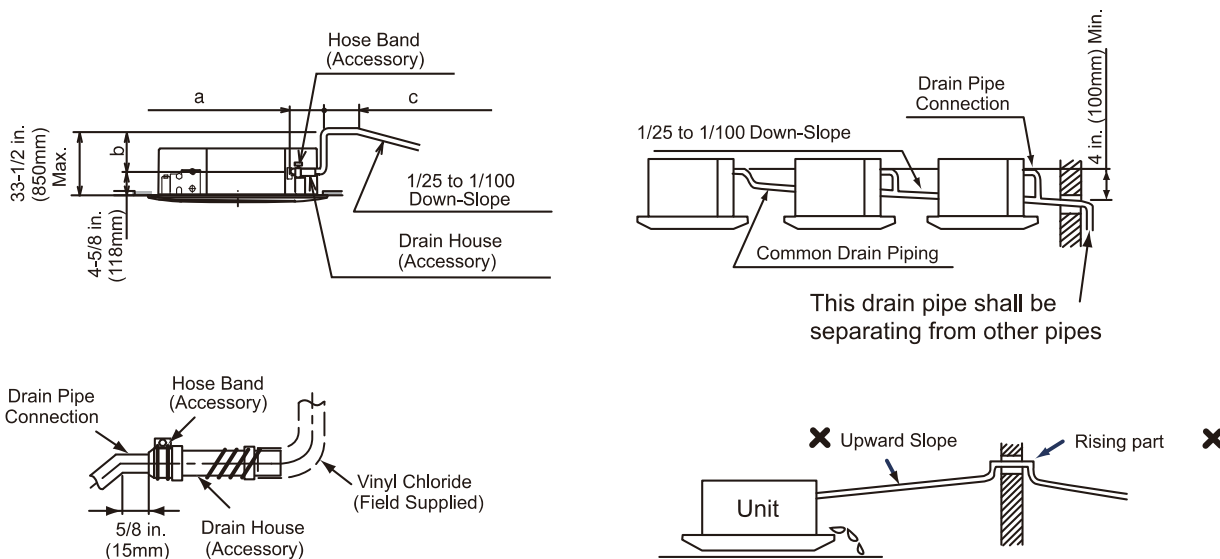
5. Drain Piping

CAUTION

- Do not create an upper-slope or rise for the drain piping, since drain water can flow back to the indoor unit causing leakage into the room when the system operation is stopped.
- Do not connect the drain pipe with sanitary, sewage piping, or any other drainage piping.
- When the common drain piping is connected with other indoor units, the connected position of each indoor unit must be higher than the common drain pipe, also the pipe must be sized properly based on system capacity.

5.1 Conduct Drain Piping Work

- (1) Prepare a polyvinyl chloride pipe with a 1-1/4 in. (32mm) outer diameter.
 - (2) Fasten the tubing to drain hose with the adhesive agent and factory-supplied clamp.
- The drain piping must be performed with a down-slope pitch of 1/25 to 1/100.

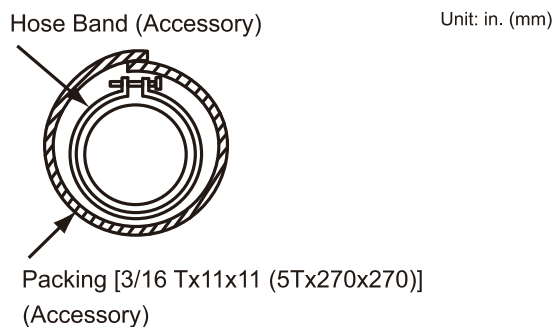


* The total length of $a+b+c$:

$a \leq 12$ in. (300mm), $b \leq 33\text{-}1/2$ in. (850mm), $c \leq 2$ in. (50mm), $a+b+c \leq 43\text{-}5/16$ in. (1100mm)

* In case of lifting the drain pipe at outlet part, perform the drain piping work as shown in the above figure.

- (3) Insulate the drain pipe after connecting the drain hose.



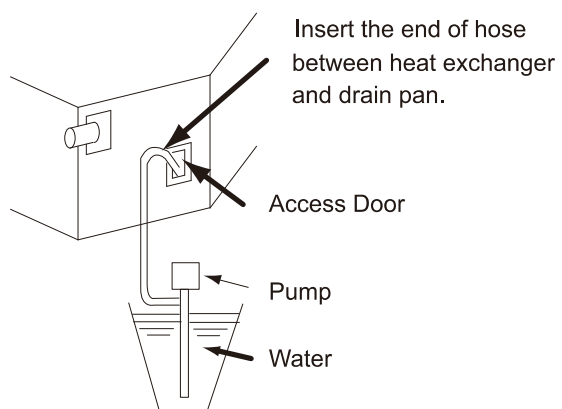
INSTALLATION

Cassette

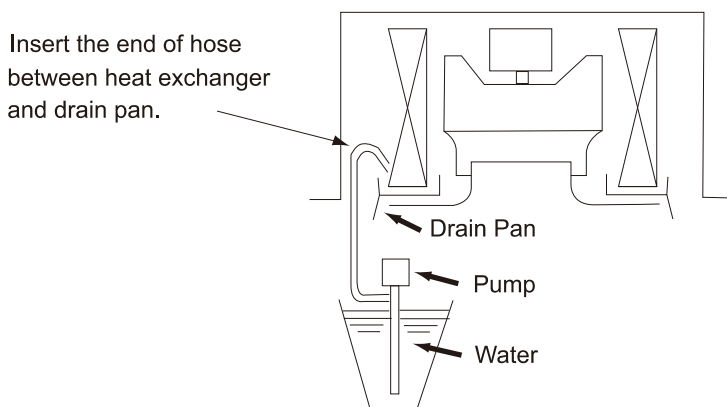
5.2 Check Draining of the Piping

- After performing drain piping work and electrical wiring, check to ensure that water drains properly per the following procedure.
- Checking with the Float Switch:
 - (A) Switch ON the power supply.
 - (B) Start cooling operation.
 - (C) Gradually pour 64~80.6 oz(2~2.5 liters) of water into the drain pan through the access door or the air outlet.
 - (D) Check to ensure that the water flows out at the end of drain piping and no water leakage occurs.When water cannot be found at the end of drain piping, pour another 64 oz(2 liters) of water into the drain pan.

- If pouring water through the access door.



- To add water through the air outlet use the diagram below for guidance.



INSTALLATION

Cassette

6. Electrical Wiring

WARNING

- Turn OFF the main power switch to the indoor unit and the outdoor unit before electrical wiring work or a periodical check is performed.
- Check to ensure that the indoor fan and the outdoor fan have stopped before electrical wiring work or a periodical check is performed.
- Protect the wires, drain pipe, electrical parts, etc. from rats or other small animals. If not protected, rats may gnaw at unprotected parts and at the worst, a fire will occur.
- Check the item below before turning ON the main switch.
- Tighten screws according to the following torque.
M3.5: 0.9 lbf·ft. (1.2 N·m)
M5: 1.5 to 1.8 lbf·ft. (2.0 to 2.4 N·m)

CAUTION

- Wrap the accessory packing around the wires, and plug the wiring connection hole with the seal material to protect the product from any condensate water or insects.
- Tightly secure the wires with the cord clamp inside the indoor unit.
- Secure the cable of the remote control switch using the cord clamp inside the electrical box.

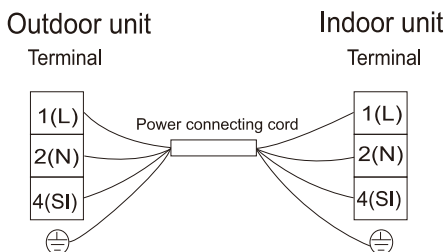
6.1 General Check

- (1) Make sure that the field-selected electrical components(main power switches, circuit breakers, wires, conduit connectors and wire terminals) have been properly selected according to the electrical data given in "7.Electrical Installation". Make sure that the components comply with National Electrical Code(NEC).
- (2) Check to ensure that the power supply voltage is within $\pm 10\%$ of the rated voltage.
- (3) Check the capacity of the electrical wires. If the power source capacity is too low, the system cannot be started due to the voltage drop.
- (4) Check to ensure that the ground wire is connected.
- (5) Power Source Main Switch Install a multi-pole main switch with a space of 1/8 in. (3.5mm) or more between each phase.

6.2 Electrical Wiring Connection

The intermediate connection between the indoor unit and the air panel should be referred to in the "Installation Manual for Air Panel".

- (1) Connect the power supply and earth wires to the terminals in the electrical box.
- (2) Connect the wires between the indoor unit and the outdoor unit to the terminals in the electrical box.

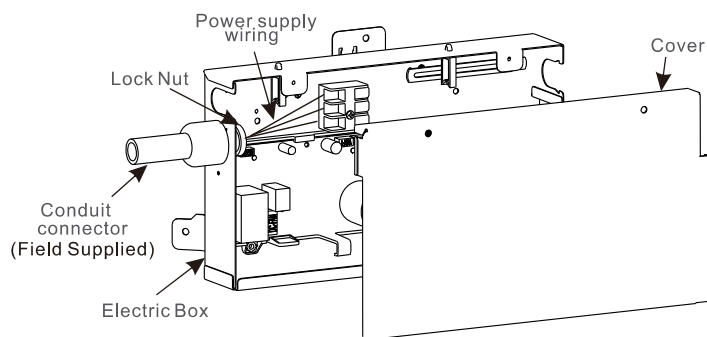


6.3 Wire connects step

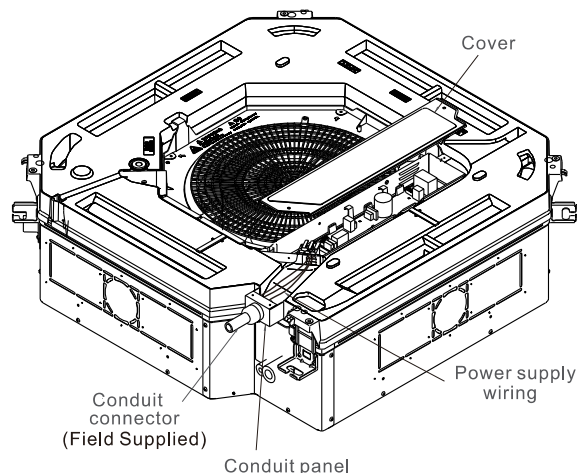
- (1) Remove the screws and the cover.
- (2) Pass power supply wiring through the hole on the conduit panel or electric box .
- (3) Fasten the conduit connection to the conduit panel using the lock nut.
- (4) Connect the power supply wiring to the terminal.
- (5) Tie the power supply wiring with the clamp tightly.
- (6) After completing the wiring, seal the wiring hole with the sealing material.
- (7) Put the cover after completion of the work.

INSTALLATION

Cassette



9K/12K



18K/24K/36K/48K

7. Electrical Installation

! WARNING

- This product must be installed on a single dedicated electrical circuit. Circuit breaker protection must be installed in accordance with this manual. In moist and humid locations, an ELB type circuit breaker must be used.
- Do not operate the system until all the check points have been cleared.
 - (A) Check to ensure that the insulation resistance is more than $2M\Omega$, by measuring the resistance between ground and the terminal of the electrical parts. If not, do not operate the system until the electrical leakage is found and repaired.
 - (B) Check to ensure that the stop valves of the outdoor unit are fully opened and then start the system.

Model Capacity(Btu/h)	Transmitting Cable Size
9K~48K	$4 \times 14AWG$

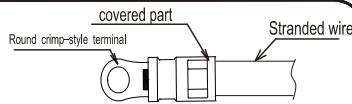
Note:

- (1) Follow local and national codes and regulations when select field wires ,and all the above are the minimum wire size.
- (2) Use copper supply wires.
- (3) Install main switch and ELB for each system separately. When used, select the high response type ELB that is acted within 0.1second.

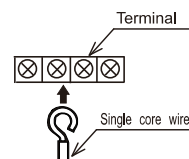
Recommended capacity to see outdoor machine switch capacity.

<Attentions when Connect the power supply wiring>

1. When connecting the terminal block using stranded wire, make sure to use the round crimp-style terminal for connection to the power supply terminal block. Place the round crimp-style terminals on the wires up to the covered part and secure in place.



2. When connecting the terminal block using a single core wire, be sure to perform curing.



8. Trial Run

Please perform trial run according to outdoor unit installation manual.

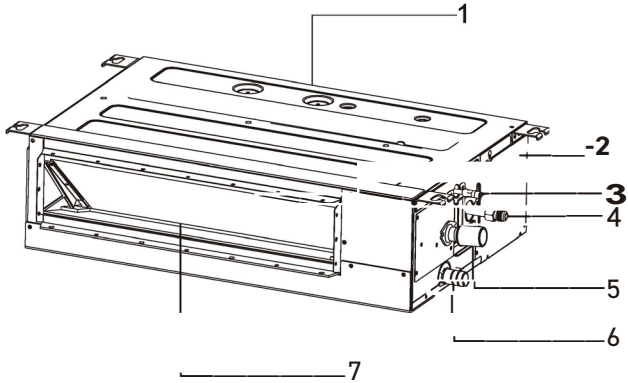
INSTALLATION

Ducted

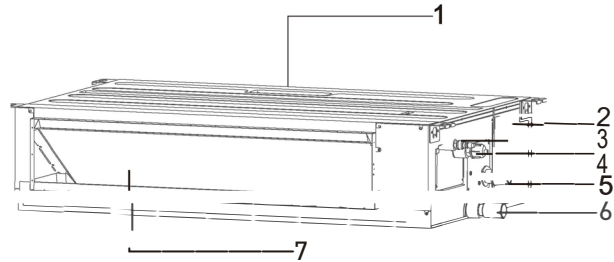
Composition of the Air Conditioner

Indoor unit

9K/12K



18K/24K



1. Air inlet
2. Electric box
3. Refrigerant pipe (Liquid)
4. Refrigerant pipe (Gas)
5. Drain pipe (Connect with pump)
6. Drain pipe
7. Air outlet

NOTE: The figures in this manual are based on the external view of a standard model.
Consequently, the shape may differ from the air conditioner model you have selected.

Special Remarks

- **3-minute protection after the compressor stops**

To protect compressor, the system implements a 3 minute delay once operation is stopped.

- **5 minute-protection**

Compressor must run for at least 5 minutes once operation starts. During the 5 minutes, compressor will not stop even after set point is reached. The system will shut off if manually turned off using the remote controller.

- **Cooling operation**

The fan of the indoor unit will never stop running in cooling operation. It continues to operate even if the compressor stops working.

- **Heating operation**

Heating capacity depends on external factors like outdoor unit temperature. Heating capacity might decrease if outdoor ambient temperature is too low.

- **Anti-freezing function during cooling**

When the air temperature from the indoor outlet is too low, the unit will run for some time under the fan mode, to avoid frost or ice forming on the indoor heat exchanger.

- **Anti cold air function**

During heating mode, in order to prevent cold air blowing from indoor unit, indoor unit fan speed will run with low speed or stop, which is set according to the indoor coil temperature.

- **Defrosting**

When the outdoor temperature is too low, ice may form on the outdoor heat exchanger, reducing heating performance. When this happens, the defrost cycle of the system will start. During the defrost cycle, the indoor unit fan stops (or runs at a very low speed in some cases), to prevent cold draft.

Once the defrost cycle is complete, heating operation and the fan speed resume.

- **Discharging the residual heating air**

When stopping the air conditioner in normal operation, the fan motor will run with low speed for a while to blow out the residual hot air.

- **Auto restart from power outage**

When the power supply is recovered after power outage, all presets still be in effect and the system will run according to the previous settings.

- **Self-cleaning function**

To enter this function in heating mode, you must first shut down the unit, use the remote control to set Cooling or Dry mode, press the CLEAN button to enter, and after that, set the controller to continue running in heating mode.

INSTALLATION

Ducted

Trouble Shooting



When drain water overflows from the indoor unit, stop the operation and contact your dealer.
When you smell or see white smoke coming out of the unit, turn OFF the main power supply and contact your dealer.

1. If Trouble still Exists

If the trouble still exists even after checking the following, contact your dealer and inform them of the following items.

- (1) Unit Model Name
- (2) Content of Trouble

2. No Operation

Check whether the SET TEMP is set at the correct temperature.

3. Not Cooling or Heating Properly

- Check for obstruction of air flow of outdoor or indoor units.
- Check if there are too many heating sources in the room.
- Check if the air filter is clogged with dust.
- Check if the doors or windows are open.
- Check if the temperature condition is within the operation range.

4. This is Not Abnormal

• Odor from Indoor Unit

Unpleasant odor diffuses from indoor unit after a long period of time. Clean the air filter and panels or allow a good ventilation.

• Sound from Deforming Parts

When start or stop the system, a sound might be heard. However, this is due to thermal deformation of plastic parts. It is not abnormal.

• Steam from Outdoor Heat Exchanger

During defrosting operation, ice on the outdoor heat exchanger melts resulting in steam.

• Dew on Air Panel

When the cooling operation continues for a long period of time under high humidity conditions, dew can form on the air panel.

• Refrigerant Flow Sound

While the system is being started or stopped, the refrigerant flow sound may be heard.

5. Mode Interfere

Multi-zone outdoor units can only support a single mode at one time (cooling or heating).

When the mode set at one or more indoor unit is different from the mode that outdoor unit is using, mode interfere will occur.

	Cooling	Dry	Heating	Fan
Cooling	√	√	×	√
Dry	√	√	×	√
Heating	×	×	√	×
Fan	√	√	×	√

√ --- Normal

× --- Mode interfere

Outdoor unit always run with the mode of first indoor unit that turned on. When the setting mode of following indoor unit is interfered with it, 3 beeps would be heard, and the indoor unit interfered with the normal running units would turn off automatically.

If auto mode is selected, the actual running mode of the unit will be dominated by the unit of which first select auto mode. (Auto mode is invalid for some models.)

INSTALLATION

Ducted

Air Filter

Filter Cleaning

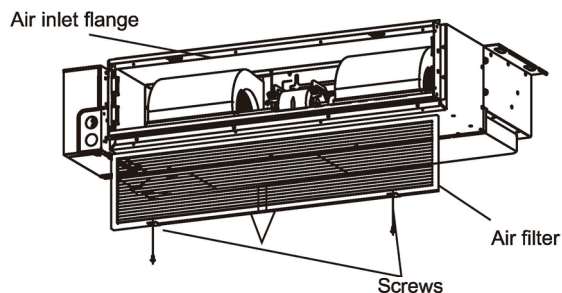


Turn OFF the main power switch before taking filter.

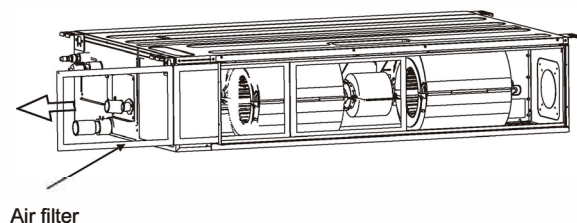
1. Take Out the Filter

Remove the fixed screws of the filter and pull the filter down along the rail of the flange as the figure below.

9K/12K



18K/24K



2. Clean the Filter



Do not use hot water with temperature more than 104°F (40°C).

Do not use light oil essence, diluent, powder or other similar solvents for cleaning.

Air filter can remove dust or other particles in the air, if blocked, the performance of air conditioner will be greatly reduced. Therefore, in long-term use, you must always clean the air filter.

If the indoor machine is installed in the place with more air dust, the frequency of cleaning the air filter should be increased.

3. Reinstall the Filter

Reinstall the air filter in the reverse order of the filter take out described above.

INSTALLATION

Ducted

1. Safety Notice

WARNING

- Installation should be performed by a qualified personnel. (Improper installation may cause water leakage, electrical shock or fire.)
- Install the unit according to the instructions given in this manual. (Incomplete installation may cause water leakage, electrical shock or fire).
- Be sure to use the supplied or specified installation parts. (Use of other parts may cause the unit to get loosened, water leakage, electrical shock or fire).
- Install the air conditioner on a solid base that can support the unit weight. (An inadequate base or incomplete installation may cause injury if the unit falls off the base).
- Electrical work should be carried out in accordance with the installation manual and the local and national electrical wiring rules or code of practice. (Insufficient capacity or incomplete electrical work may cause electrical shock or fire).
- Be sure to use a dedicated power circuit. (Never use a power supply shared by another appliance).
- For wiring, use a cable long enough to cover the entire distance. Do not use an extension cord.
- Use the specified types of wires for electrical connections between the indoor and outdoor units. (Firmly clamp the interconnecting wires so their terminals receive no external stresses).
- Incomplete connections or clamping may cause terminal overheating or fire.
- After connecting all the wires be sure to fix the cables so that they do not put undue force on the electrical covers or panels. (Install covers over the wires, incomplete cover installation may cause terminal overheating, electrical shock or fire).
- When installing or relocating the system, be sure to keep the refrigerant circuit free from air (Air in the refrigerant circuit may causes an abnormal pressure rise or rupture, resulting in injury).
- If any refrigerant has leaked out during the installation work, ventilate the room.
- After all installation is completed, check to make sure that no refrigerant is leaking out. (The refrigerant produces a toxic gas if exposed to flames).
- When carrying out piping connection, take care not to let air substances other than the specified refrigerant get into refrigeration cycle. (Otherwise, it will cause lower performance, abnormal high pressure in the refrigeration cycle, explosion and injury).
- Make sure that the installation is properly grounded. Do not ground the unit to a utility pipe, lightning arrester, or telephone grounding. Incomplete grounding may cause electrical shock. (A high surge current from lightning or other sources may cause damage to the air conditioner).
- An earth leakage circuit breaker may be required depending on the site condition to prevent electrical shock.
- Disconnect the power supply before wiring, piping, or checking the unit.
- When moving the indoor unit and outdoor unit, please be careful, do not make the outdoor unit incline over 45 degree. Pay attention to the sharp edges of the air conditioner to avoid any injury.
- During wired controller installation, ensure that the length of the wire between the indoor unit and wired controller is within 131 ft. (40m).

CAUTION

- Do not install the air conditioner in a place where there is danger of exposure to inflammable gas leakage. (If the gas leaks and builds up around the unit, it may catch fire).
- Establish drain piping according to the instructions in this manual. (Inadequate piping may cause flooding).
- Tighten the flare nut according to the specifications with a torque wrench. (If the flare nut is tightened beyond specified torque, the flare nut may crack after a long time and cause refrigerant leakage).

INSTALLATION

Ducted

2. Tools and Instruments for Installation

Number	Tool	Number	Tool	Number	Tool
1	Standard screwdriver	6	Pipe cutter	11	Churn drill
2	Vacuum pump	7	Cross head screw-driver	12	Pipe expander
3	Charge hose	8	Knife or wire stripper	13	Inner hexagon spanner
4	Pipe bender	9	Leveler	14	Measuring tape
5	Adjustable wrench	10	Hammer		

3. Installation of the Indoor Unit



During installation, do not damage the insulation material on the surface of the indoor unit.

3.1 Initial Check



- When moving the unit after unpacking, make sure to lift it by holding its lifting lugs. Do not exert any pressure on other parts, especially the refrigerant piping, drain piping and flange parts.
- Wear protective gears when installing the unit.

3.1.1 Selecting

(1) Select an installation site where the following conditions are fulfilled and that meets with your customer's.

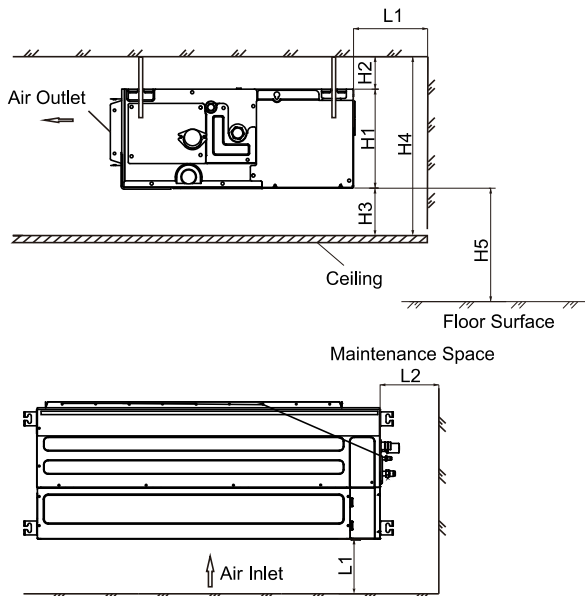
- Optimum air distribution is ensured.
- The air passage is not blocked.
- Condensate can drain properly.
- The ceiling is strong enough to bear the weight of the indoor unit.
- A false ceiling does not seem to be at an incline.
- Sufficient clearance for maintenance and servicing is ensured.(See Fig.3.1.1)
- Piping between the indoor and outdoor units is within the allowable limits.(refer to the installation of the outdoor unit)
- The indoor unit, outdoor unit, power supply wiring and transmission wiring must be kept at least 1m away from televisions and radio, this prevents image interference and noise in electrical appliances.
(Noise may be generated depending on the conditions under which the electric wave is generated, even if a one-meter allowance is maintained.)
- Do not install the indoor unit in a machinery shop or kitchen where vapor from oil or its mist flows to the indoor unit. The oil will deposit on the heat exchanger, thereby reducing the performance of the indoor unit, and may deform and in the worst case, break the plastic parts of the indoor unit.
- Use suspension bolts to install the unit, check whether or not the ceiling is strong enough to support the weight of the unit. If there is a risk that the ceiling is not strong enough, reinforce the ceiling before installing the unit.

INSTALLATION

Ducted

(2) Minimum space required for installation.

[unit: in. (mm)]



- H1: product height
 H2 ≥ 0.39(10)
 H3 ≥ 2(50)
 L1 ≥ 5.9(150)
 L2 ≥ 18(450)
 H5 ≥ 98(2500)
 H4: Size determination with at least a 1% downward slope of the drain pipe.

Fig. 3.1.1

NOTE:

1. Reserve necessary maintenance port when the ceiling is not detachable.
2. The location of the maintenance port should ensures remove electric box cover and internal components are all easy to perform.

3.1.2 Inspection of ceiling openings

- (1) Reserve necessary maintenance port when the ceiling is not detachable.
- (2) The location of the maintenance port should ensures remove electric box cover and internal components are all easy to perform.

When the height (H) from the ceiling to the bottom plate of the unit is ≥ 12 in.(300 mm), two access holes are required, as shown in Fig. 3.1.2.

Example 1:

[unit: in. (mm)]

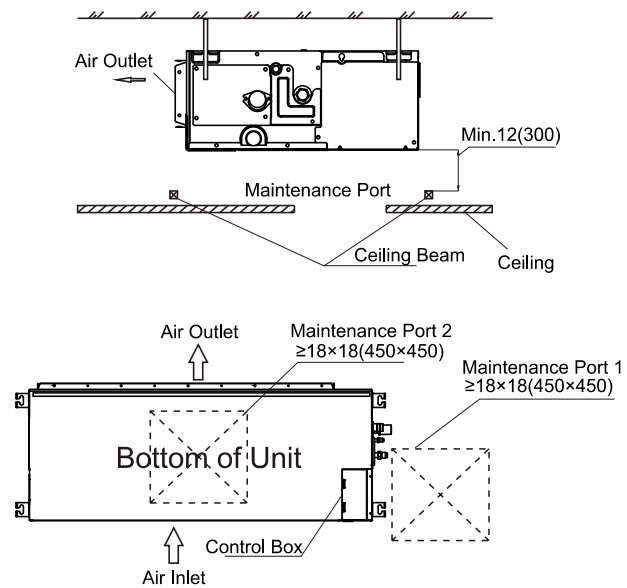
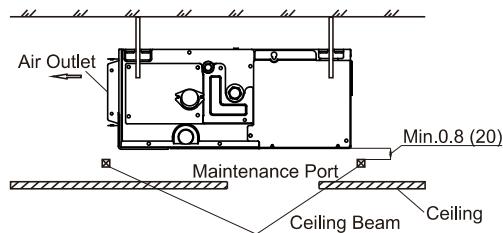


Fig. 3.1.2

When the height (H) from the ceiling to the bottom plate of the unit is < 12 in.(300 mm), access holes are required, as shown in Fig. 3.1.3, Fig. 3.1.4.



Example 2: Installation of two access holes

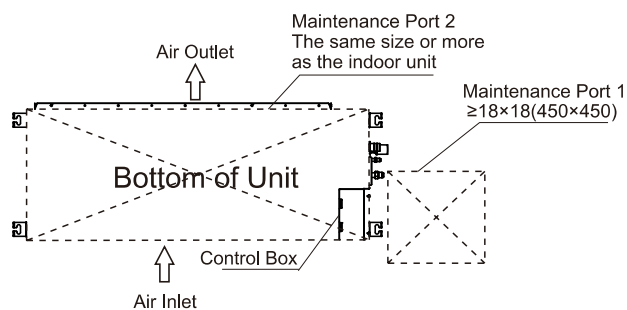


Fig. 3.1.3

INSTALLATION

Ducted

Example 3: Installation of one access hole

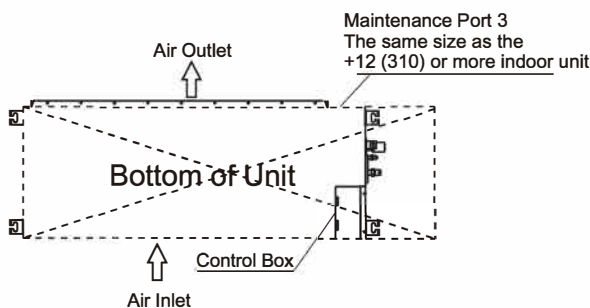


Fig. 3.1.4

3.1.3 For the bottom intake

For bottom intake, replace the chamber lid in the procedure listed in fig.

- (1) Remove the chamber lid.
- (2) Reattach the removed filter in the orientation shown in Fig. 3.1.5.

Reattach the removed chamber lid in the orientation shown in Fig. 3.1.6, refer to Fig. 3.1.6 for the direction of filter.

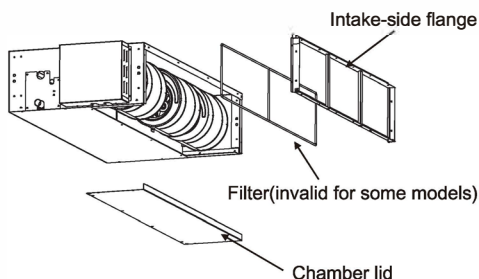


Fig. 3.1.5

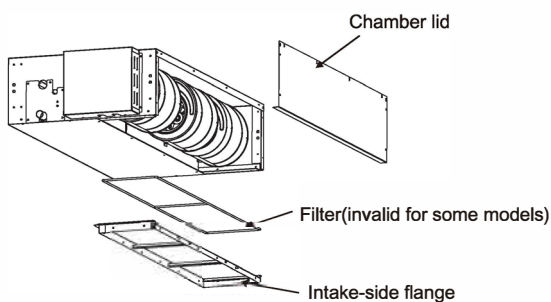


Fig. 3.1.6

3.2 Installation

3.2.1 Suspension bolts

- (1) Consider the pipe direction, wiring and maintenance carefully, and choose the proper direction and location for installation.
- (2) Install the suspension bolts as shown in Fig. 3.2.1 below.

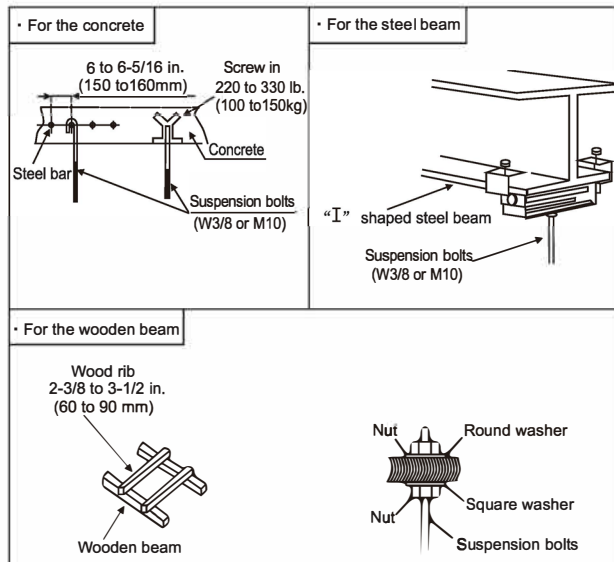
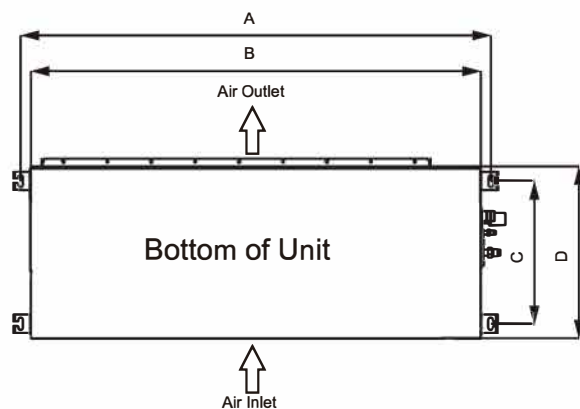


Fig. 3.2.1 Fixing the suspension bolts

3.2.2 The position of the suspension bolts and the pipes

- (1) Mark the positions of the suspension bolts, the positions of the refrigerant pipes and the drain pipes.
- (2) The dimension are shown below.



[unit: in. (mm)]

Capacity (Btu/h)	A	B	C	D
9K/12K	37-7/8 (961)	35-7/8 (910)	14-3/4 (375)	17-5/8 (447)
18K	33-1/2 (850)	31-1/2 (800)	24-3/8 (620)	27-1/2 (700)
24K	45-1/4 (1150)	43-1/4 (1100)	24-3/8 (620)	27-1/2 (700)

Fig. 3.2. 2 Suspension bolts

INSTALLATION

Ducted

3.2.3 Install the indoor unit

The installation of the indoor unit is shown in Fig. 3.2.3.

Suspension bolts (4-M10 or W3/8)
(Field supplied)

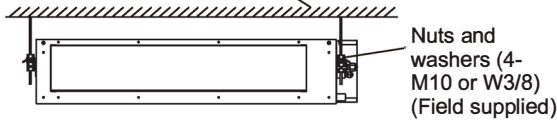


Fig. 3.2.3 The installation of the indoor unit

(1) How to fix the suspension bolts and the nuts
As shown in the figures 3.2.4, the nuts are fixed
four bolts.

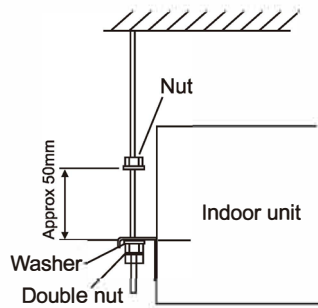


Fig. 3.2.4 Suspension bolts and nuts

(2) Install the indoor unit

As shown in the following figure, place the left
hanger bracket on the nuts and washers of the
suspension bolts.

Make sure that the left hanger bracket has been
fixed on the nuts and washers securely, install the
right hanger bracket suspension hook on the nuts
and washers.

(When installing the indoor unit, you can slightly
remove the suspension bolts.)

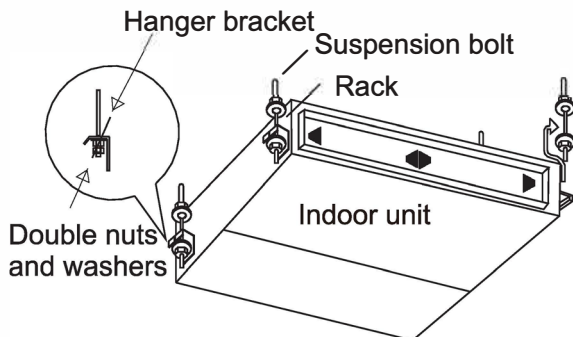


Fig. 3.2.5

3.2.4 Adjusting of the unit level

- (1) Check to ensure that the foundation is flat, taking
into account the maximum foundation gradient.
- (2) The unit should be installed that the drainage
side is slightly 0~0.2 in. (0~5 mm) lower
than other sides for adequate drainage.

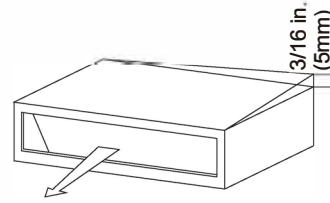


Fig. 3.2.6

- (3) After the adjustment, tighten the nuts and swear the
thread locker on the suspension to prevent the nuts
from loosening.

CAUTION

- (1) During the installation, please cover the unit with the
plastic cloth to keep it clean.
- (2) Make sure that the unit is installed level by using a
level or a plastic pipe filled with water in instead of a
level, adjust the top surface of the unit to the surface
of the water at both ends of the plastic pipe and
adjust the unit horizontally. (one thing to watch out for
in particular is if it is installed so that the slope is not
in the direction of the drain piping, as this might
cause leaking.)

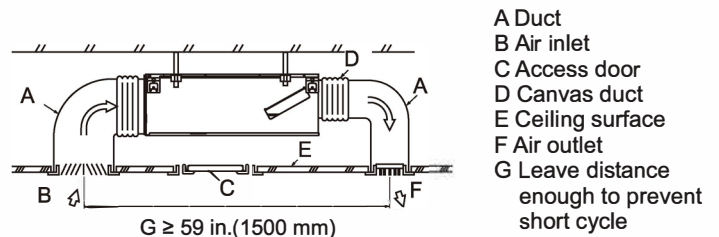
3.2.5 Installing the duct

CAUTION

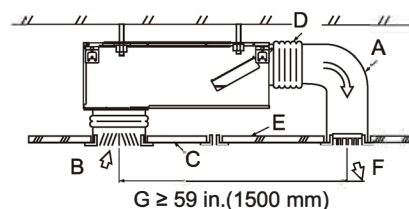
- Make sure the external static pressure of the unit is
within the range.
- Connect the duct and intake-side flange.
- Connect the duct and outlet-side flange.
- The connection of indoor unit and air duct must be well
sealed and kept warm with insulation material.

<Example> (For LSP/MSP Type)

A. In case of rear inlet



B. In case of bottom inlet

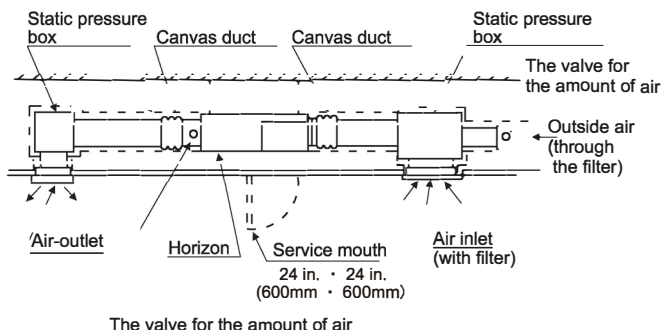


A Duct
B Air inlet
C Access door
D Canvas duct
E Ceiling surface
F Air outlet
G Leave distance
enough to prevent
short cycle

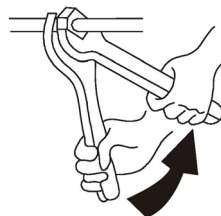
INSTALLATION

Ducted

<Example> (For MSP/HSP Type)



(2) As shown in Fig. 4.2, screw up the nuts with 2 spanners.



Pipe size [in. (mm)] Torque [lbf.ft. (N·m)]

ø 1/4 (6.35)	14.8 (20)
ø 3/8 (9.52)	29.5 (40)
ø 1/2 (12.7)	44.3 (60)
ø 5/8 (15.88)	59.0 (80)
ø 3/4 (19.05)	73.8 (100)

Fig. 4.2 Tightening torque for the nut

4. Refrigerant Pipe

⚠ DANGER

Use the refrigerant according to outdoor nameplate. When carrying on the leakage check and test, do not mix in the oxygen, the acetylene and flammable and the virulent gas, for these gases are quite dangerous, and may possibly cause explosion. It is suggested that the nitrogen be used to perform these experiments.

4.1 Pipe Material

- (1) Prepare the copper pipe on the spot.
- (2) Choose dustless, non-humid, clean copper pipe.
Before installing the pipe, use nitrogen or dry air to blow away the pipe dust and impurity.
- (3) Choose the copper pipe according to Fig. 4.1.

4.2 Pipe Connection

- (1) The pipe diameter are shown in Fig. 4.1.

Capacity (Btu/h)	Gas Pipe [in. (mm)]	Liquid Pipe [in. (mm)]
9K/12K	Φ 3/8 (9.52)	Φ 1/4 (6.35)
18K	Φ 1/2 (12.7)	Φ 1/4 (6.35)
24K	Φ 5/8 (15.88)	Φ 3/8 (9.52)

Fig. 4.1 Pipe diameter

- (3) After finishing connecting the refrigerant pipes, keep it warm with the insulation material.

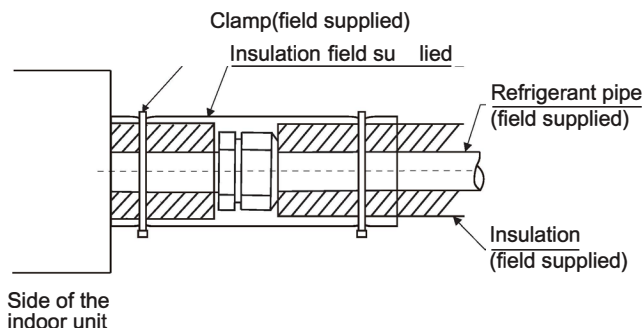
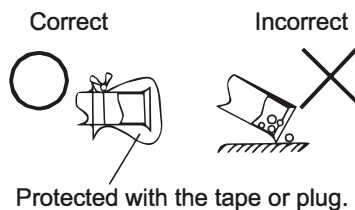


Fig. 4.3 Piping insulation procedure

- The pipe goes through the hole with the seal.
- Do not place the pipes on the floor directly.



Protected with the tape or plug.

INSTALLATION

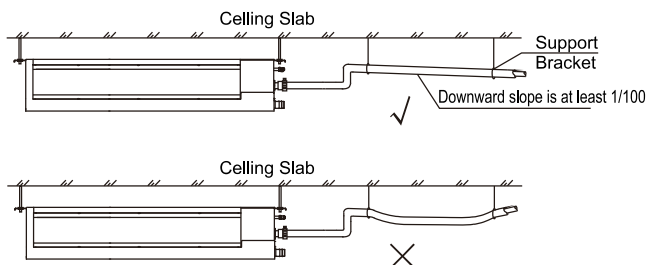
Ducted

5. Drain Piping

5.1 Conduct Drain Piping Work

5.1.1 Draining piping connections

- Prepare polyvinyl chloride pipe with a 1-1/4 in. (32mm) outer diameter.
- The diameter of drain pipe connection hole should be same as that of the drain pipe.
- Keep the drain pipe short and sloping down wards at a gradient of at least 1/100 to prevent air pockets from forming.
- Attach a support bracket at 3.3~4.9 ft. (1~1.5m) intervals for the prevention of piping deflection.
- The highest point of the main drain pipe should be provided with a vent hole, and at least every 16.4 ft.(5m) on the main drain pipe should be provided with a vent hole.

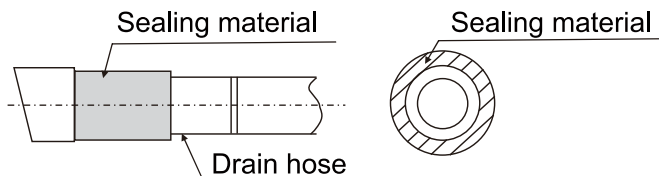


CAUTION

Water accumulating in the drain piping can cause the drain to clog.

CAUTION

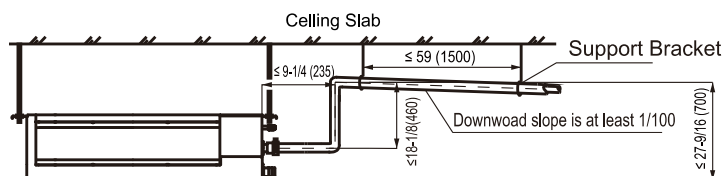
- Use the drain hose and the clamp. Insert the drain hose fully into the drain socket and firmly tighten the drain hose and warm-keeping material with the clamp.
- The two areas below should be insulated because condensation may happen there causing water leakage. Drain piping passing indoors and Drain sockets.
- Referring the figure below, insulate the drain socket and drain hose using the included large sealing pad.



5.1.2 Connection mode of the drain pipe with a drain pump unit

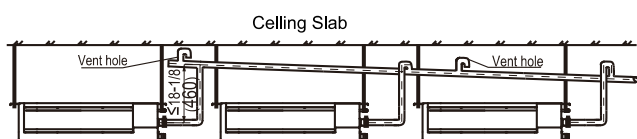
(1) The drain pipe for a single indoor unit

[unit: in. (mm)]



(2) The drain pipe for multiple indoor units through the main drain pipe

[unit: in. (mm)]



NOTE:

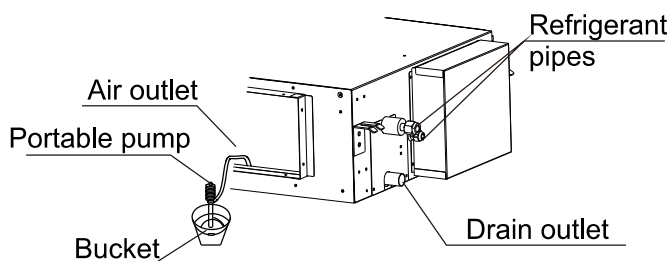
Select the diameter of the concentrated drain piping to suit the capacity of equipment connecting to the concentrated drain piping (see the equipment design sheet).

CAUTION

- Do not connect the drain pipes directly to sewage pipes to avoid ammonia odour. The ammonia in the sewage might enter the indoor unit through the drain pipes and corrode the heat exchanger.
- Do not twist or bend the drain hose, doing so applies excessive force applied on it and may also cause leakage.

5.2 Check Draining of the Piping

- After piping work is finished, check if drainage flows smoothly.
- Gradually pour approximately 1000 cc of water from the outlet hole into the drain pan to check drainage flow.
- Check the drainage as shown below:



INSTALLATION

Ducted

6. Electrical Wiring

6.1 General Check



- Before proceeding with electrical connections, make certain that power supply are as specified on the unit rating plate. See unit wiring label for proper field high and low-voltage wiring. Make all electrical connections in accordance with the NEC and any local codes or ordinances that may apply. Refer to the NEC(USA) or CSA (Canada) for wire sizing. Use copper wire only.
- Every installation must include an NEC(USA) or CSA (Canada) approved over-current protection device.



Disconnect all power before servicing or installing this unit.

To avoid the electrical shock, please ensure the air conditioner is proper grounded.

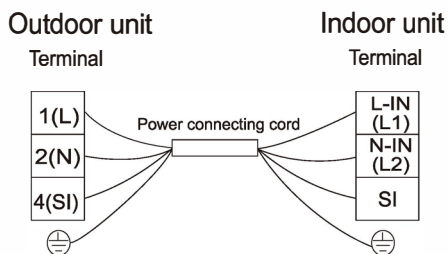
All routing of electrical wiring must be made through provided electrical knockouts.

Do not cut, puncture or alter the cabinet for electrical wiring.

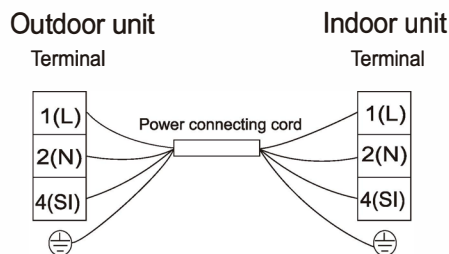
Knockouts are provide on the indoor unit top panel and sides of the cabinet to allow for the entry of the supply voltage conductors. If the knockouts on the cabinet sides are used for electrical conduit, an adapter ring must be used in order to meet UL 60335 safety requirements. An MEC or CEC approved strain relief is to be used at this entry point. Some codes/municipalities require the supply wire to be enclosed in conduit. Consult your local codes.

Electrical Wiring Diagram

9K/12K



18K/24K



Note:

Since there may be differences in some model's terminal blocks, wiring connection should be done according to letters on the terminal block. Please disregard numbers in this case.

INSTALLATION

Ducted

6.2 Change of Static Pressure

The static pressure can be freely adjusted by using specific wired controller. (For more information, please refer to other technical files or contact local technical service center of our company.)

Capacity (Btu/h)	The Range of Static Pressure	Function Code Set
9K/12K	0-0.20 in. H ₂ O (0-50Pa)	0-50 function code value equals static pressure value, more than 45 is 0.18 in. H ₂ O (45Pa). [default: 0.18 in. H ₂ O (45Pa)]
18K	0-0.56 in. H ₂ O (0-140Pa)	0-140 function code value equals static pressure value, more than 45 is 0.18 in. H ₂ O (45Pa). [default: 0.18 in. H ₂ O (45Pa)]
24K	0-0.66 in. H ₂ O (0-165Pa)	0-165 function code value equals static pressure value, more than 145 is 0.58 in. H ₂ O (145Pa). [default: 0.58 in. H ₂ O (145Pa)]

Note: The pressure loss of filter is included in the data above.

6.3 Electrical Installation

! WARNING

- This product must be installed on a single dedicated electrical circuit. Circuit breaker protection must be installed in accordance with this manual. In moist and humid locations, an ELB type circuit breaker must be used.
- Do not operate the system until all the check points have been cleared.
 - (A) Check to ensure that the insulation resistance is more than 2MΩ, by measuring the resistance between ground and the terminal of the electrical parts. If not, do not operate the system until the electrical leakage is found and repaired.
 - (B) Check to ensure that the stop valves of the outdoor unit are fully opened and then start the system.
- Pay attention to the following items while the system is running. Do not touch any of the parts by hand at the discharge gas side, since the compressor chamber and the pipes at the discharge side are heated higher than 194°F (90°C).

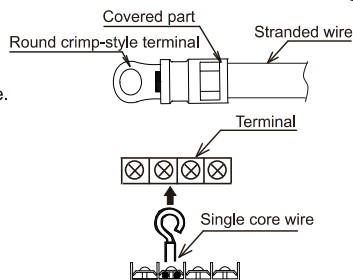
Capacity (Btu/h)	Transmitting Cable Size
9k-24k	4×14AWG

Note:

- (1) Follow local and national codes codes and regulations when select field wires, and all the above are the minimum wire size.
- (2) Use copper supply wires.
- (3) Install main switch and ELB for each system separately. When using an ELB, select the high response type ELB that is acted within 0.1second.

<Attentions when Connect the power supply wiring>

1. When connecting the terminal block using stranded wire, make sure to use the round crimp-style terminal for connection to the power supply terminal block. Place the round crimp-style terminals on the wires up to the covered part and secure in place.



2. When connecting the terminal block using a single core wire, be sure to perform curing.

INSTALLATION

Ducted

7. Test Run

Please perform test run according to outdoor unit installation manual.

INSTALLATION

Wall Mount

C.2 Clearances

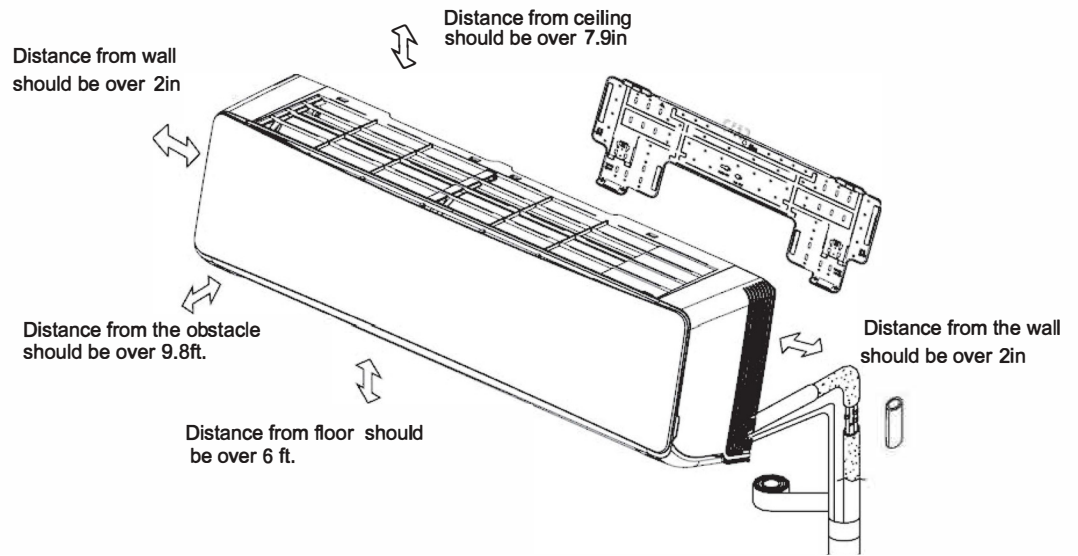


Figure C.2

INSTALLATION

Wall Mount

C.3 Pre-Installation Checkpoints

1. Ensure there are no obstacles near the air outlet and air can be easily blown to every corner.
2. Where piping and wall hole can be easily arranged.
3. Keep the required space from the unit to the ceiling and wall according to the installation diagram on previous page.
4. Where the air filter can be easily removed.
5. Keep the unit and remote controller 3 ft or more apart from television, radio etc.
6. Keep as far as possible from fluorescent lamps.
7. Do not put anything near the air inlet to obstruct it from air absorption.
8. Install on a wall that is strong enough to bear the weight of the unit.
9. Install in a place that will not increase operation noise and vibration.
10. Refer to Table C.3.3 for max line set length and max elevation.
11. Refer to the Outdoor Unit Installation and operation manual for piping requirements, refrigerant charging, and operational checks.

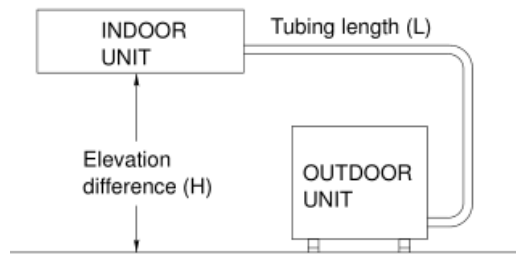


Figure C.3.1

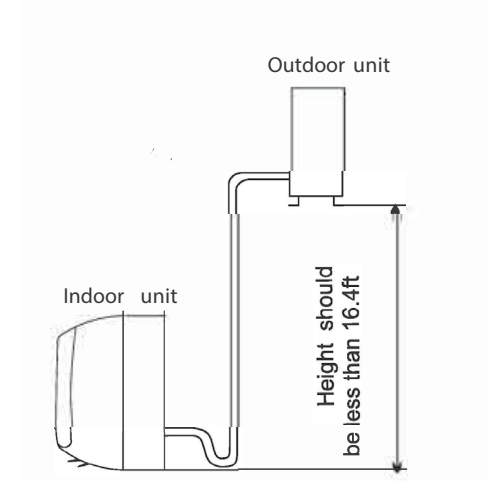


Figure C.3.2

Capacity (Btu/h)	Pipe Size		Standard Length (ft)	Max. Elevation H (ft)	Max. Length L (ft)	Additional Refrigerant (oz/ft)
	LIQUID	GAS				
7k	1/4"	3/8"	25	50	66	.22
9k	1/4"	3/8"	25	50	66	.22
12k	1/4"	3/8"	25	50	66	.22
18k	1/4"	1/2"	25	50	100	.22
24k	3/8"	5/8"	25	50	100	.32
Table C.3.3						

⚠ WARNING

Fire Hazard

A2L refrigerant is classified as mildly flammable. Temperatures on surfaces that may be exposed to leakage of FLAMMABLE REFRIGERANTS shall not exceed 1292°F

⚠ WARNING

Refrigeration System Under High Pressure

Do not puncture, heat, expose to flame or incinerate.
Only certified refrigeration technicians should service this equipment.
R-32 and R-454B systems operate at higher pressures than R22 equipment.
Appropriate safe service and handling practices must be used.
Only use gauge sets designed for use with R32 and R-454B.
Do not use standard R22 gauge sets..

INSTALLATION

Wall Mount

C.4 Install Mounting Plate

1. Installing the Mounting Plate

- 1) Decide an installing location for the mounting plate according to the indoor unit location and piping direction.
- 2) Find the center of the mounting plate according to the mark on it. Then install a screw to fix it preliminary.
- 3) Keep the mounting plate horizontally with a horizontal ruler or dropping line.
- 4) Drill holes of 1 1/4" in depth on the wall for fixing the plate.
- 5) Fix the mounting plate with as least 7 self-tapping screws. For some mounting plates with a holder in the middle, at least 8 screws are required. (Fig. C.4.1).
- 6) Inspect if the mounting plate is well fixed. Then drill a hole for piping.

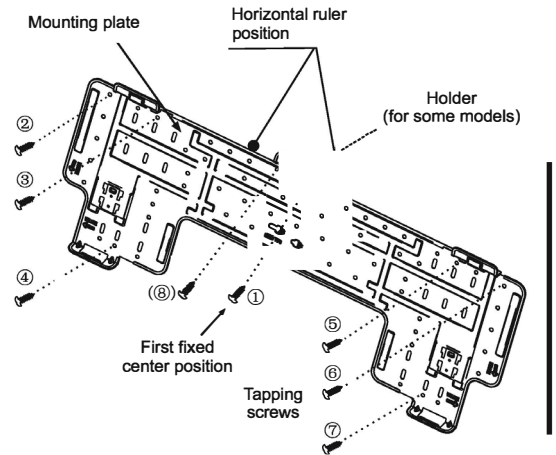


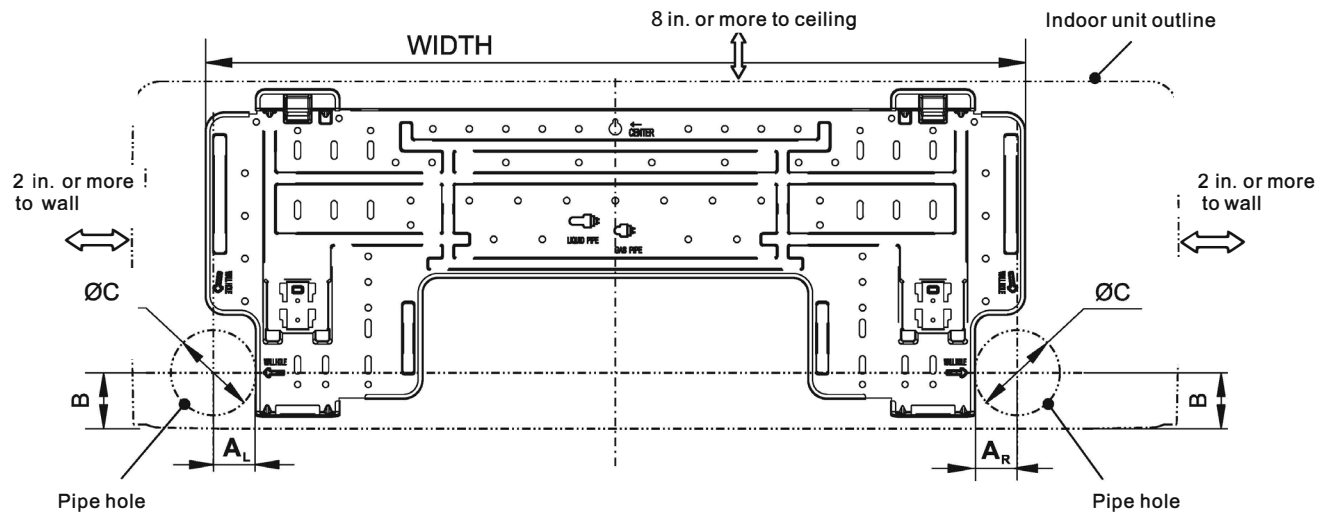
Fig. C.4.1

Note: It is recommended to install screw anchors for sheet rock, concrete block, brick and such type of wall.

Note: The center of the mounting bracket may be not the center of the indoor unit.

Note: The shape of your mounting plate may be different from the one above, but installation method is similar.

• THE MOUNTING PLATE DIAGRAMS AND DIMENSIONS (Recommended)



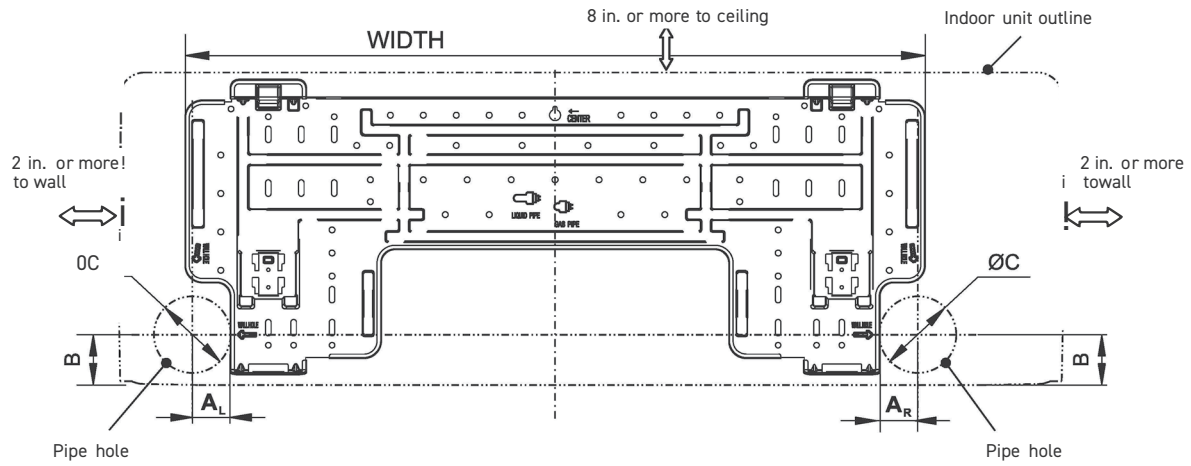
For 7K/9K/12K Series Models, WIDTH: 26 5/8 in.

C.4.2

INSTALLATION

Wall Mount

C.4 Install Mounting Plate



For 18K/ 24K Series Models, WIDTH: 37 5/8 in.

C.4.3

INSTALLATION

Wall Mount

C.5 Drill Hole for Piping

Table of Wall Hole Mounting size per Unit Size

Unit Model	Size A _L	Size A _R	Size B	Size C
	in	in	in	in
7K/9K/12K Series	1 3/8 in	1 3/8 in	1 3/4 in	2 3/4 in
18K/24K Series	4 7/8 in	6 1/2 in	2 in	2 3/4 in

2. Drill a Hole for Piping

- 1) Decide the position of hole for piping according to the location of mounting plate.
- 2) Drill a hole on the wall. The hole should tilt a little downward toward outside.
- 3) Install a sleeve through the wall hole to keep the wall tidy and clean. (Fig. C.5)

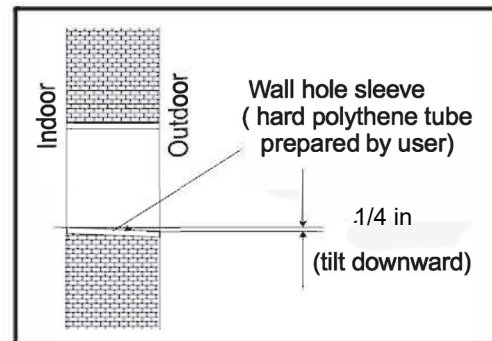


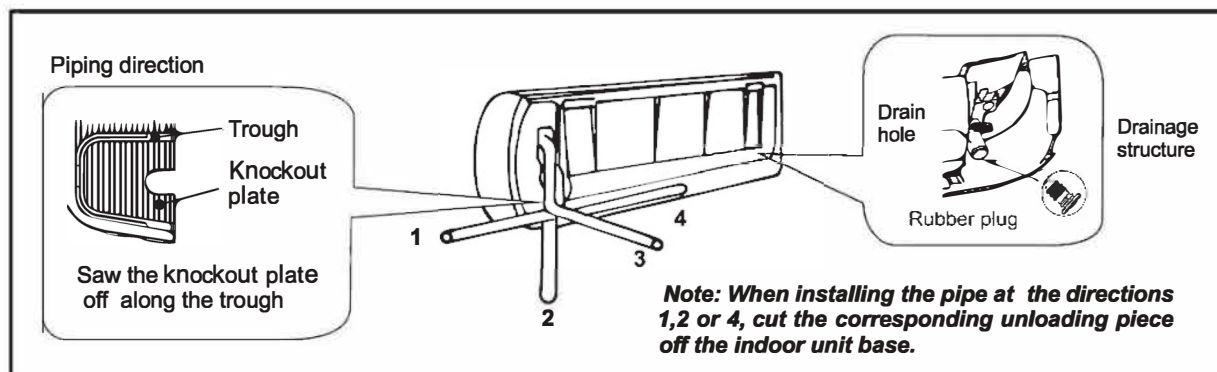
Fig. C.5

INSTALLATION

Wall Mount

C.6 Piping Provisions

- 1) Put the piping (liquid and gas pipe) and cables through the wall hole from outside or put them through from inside after indoor piping and cables connection is complete to connect to the outdoor unit.
- 2) Decide whether to cut the knockout plate in accordance with the piping direction. (Fig. C.6.1)



Note: Drain hose can be installed on either side of the unit. If choosing both sides drainage connection, another proper drain hose is needed as there is only one drain hose attached to the unit. If choosing one side drainage connection, make sure the drain hole on the other side is well plugged.

- Put the piping (liquid and gas pipe) and cables through the wall hole from outside.
- 1) Cut the liquid pipe and gas pipe to the right length according to the position mark on the wall mounting plate (Fig. C.6.2). Ensure that the cut is flat (Fig. C.6.3).

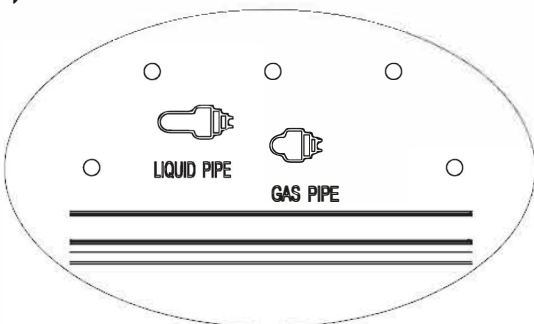


Fig.C.6.2

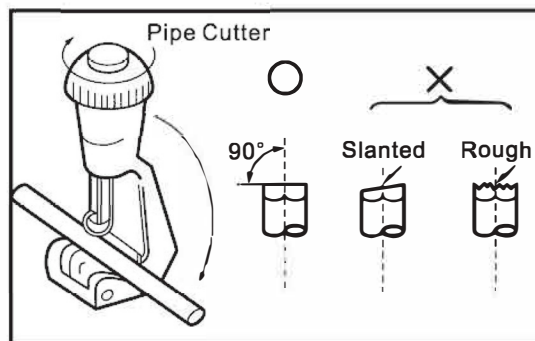


Fig.C.6.3

- 2) Remove burrs on the cutting edges. Keep the pipe outlet down to avoid getting the metal burrs into the pipe (Fig. C.6.4).
- 3) Flare the pipes. Insert the pipe outlet into the copper nut before flaring the pipe. Ensure that the hole is flat with sound surface and even thickness. (Fig. C.6.5)

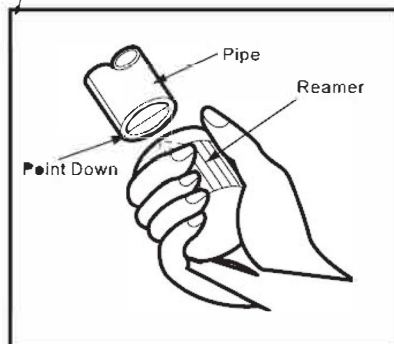


Fig. C.6.4

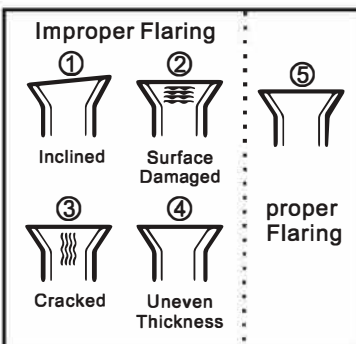


Fig. C.6.5

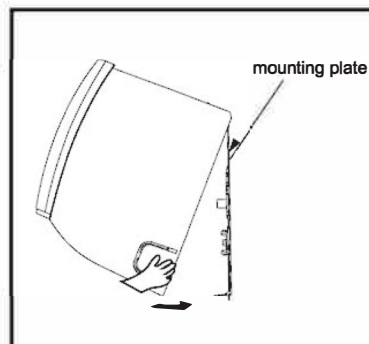


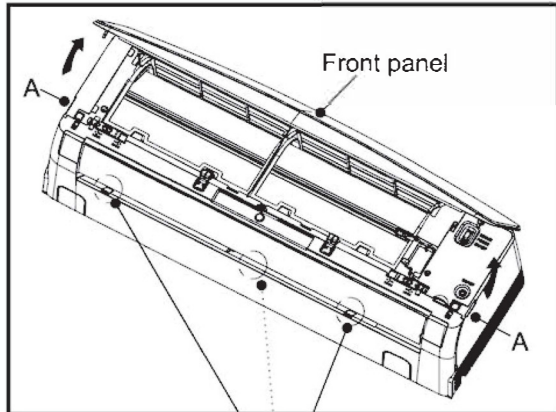
Fig. C.7.1

INSTALLATION

Wall Mount

C.7 Indoor Unit Installation

- 1) Hang the unit onto mounting plate
(Fig. C.7.1).
- 2) In the A position, open the front panel as shown in Fig. C.7.2.
- 3) In the B position, open the screw covers as shown in Fig. C.7.3 and remove the screws. (Note: For some models, you need to remove 3 screws.)
- 4) In the C position, open the front shell as shown in Fig. C.7.4 . Then in the D position, push the baffles to prevent the front shell from falling as shown in Fig. C.7.5.



C.7.2

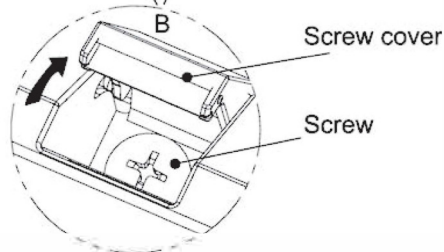


Fig.C.7.3



C.7.4

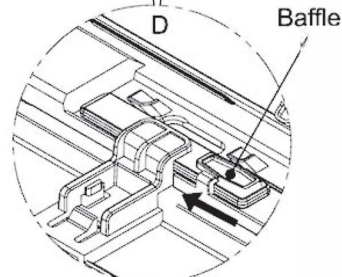


Fig.C.7.5

- 5) Use the support plate to move the unit step by step to reach the best location. (Fig. C.7.6 and Fig. C.7.7).

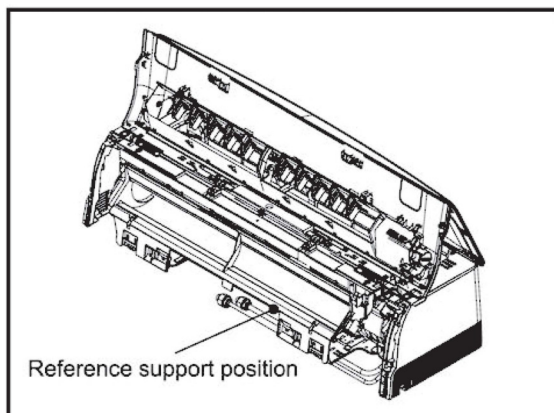


Fig. C.7.6

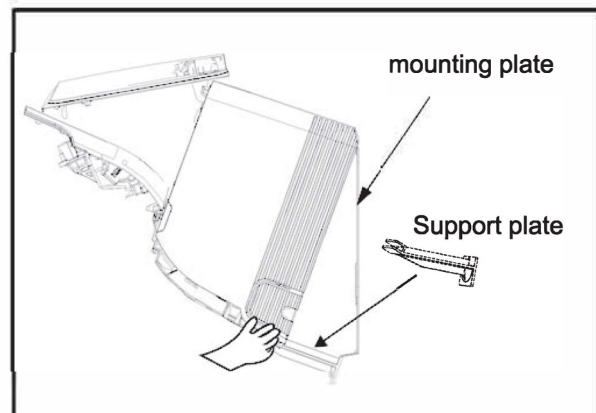


Fig. C.7.7

Note: The appearance of the model in this manual may differ from that of the air conditioner you have selected.

INSTALLATION

Wall Mount

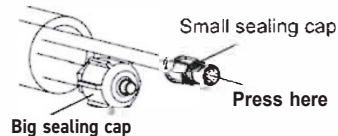
C.7 Indoor Unit Installation

6) Connect the piping

Piping Connection:

- Before unscrewing the big and the small sealing caps, press the small sealing cap with the finger until the exhaust noise stops, and then loosen the finger.
- Connect indoor unit pipes with two wrenches. Pay special attention to the allowed torque as shown below to prevent the pipes, connectors and flare nuts from being deformed and damaged.
- Pre-tighten them with fingers at first, then use the wrenches.

If you don't hear the exhaust noise, please contact customer service.



Model	Pipe size (inches)	Torque (ft lbs)	Nut width	Min.thickness
7K-18K	LiquidSide (1/4)	11-15ft-lbs	5/8"	0.02 "
24K-36K	Liquid Side (3/8)	22-26ft-lbs	7/8"	0.024"
7K-12K	GasSide(cl> 9.53 or 3/8)	22-26ft-lbs	7/8"	0.024"
18K	GasSide(cl>12 or 1/2)	37-41ft-lbs	15/16"	0.024"
24K	GasSide(cl>16or 5/8)	44-48ft-lbs	1 1/8"	0.024"

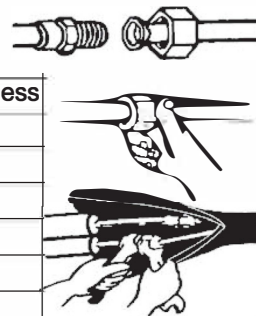


Table C.7.8

7) After connecting piping as required, install the drain hose. Then connect the power cords. After connecting, wrap the piping, cords and drain hose together with thermal insulation materials(Fig. C.7.9-C.7.11).

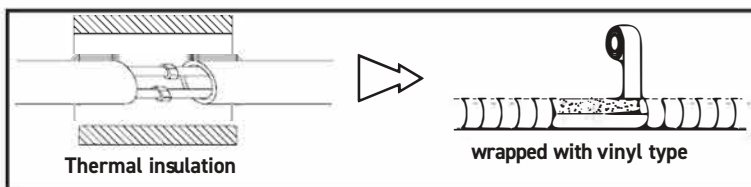


Fig. C.5.9

Note: Wrap the piping joints with thermal insulation materials and then wrap with a vinyl tape.

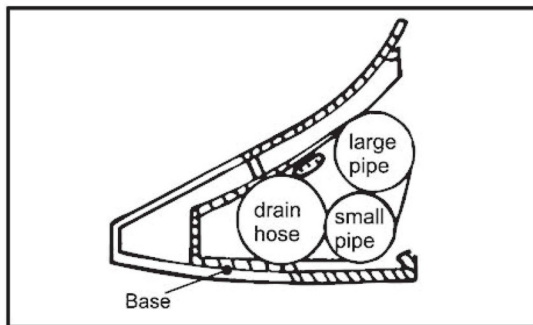


Fig. C.5.10

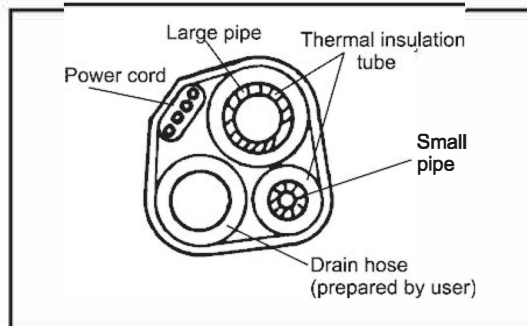


Fig. C.5.11

Note: Place the drain hose under the pipes.

Note: Insulation material uses polythene foam over 1/4" (6) mm in thickness.

Note: Drain hose is prepared by user.

Note: Note: The appearance of the model in this manual may differ from that of the air conditioner you have selected.

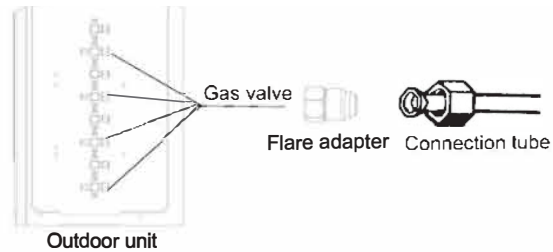
INSTALLATION

Wall Mount

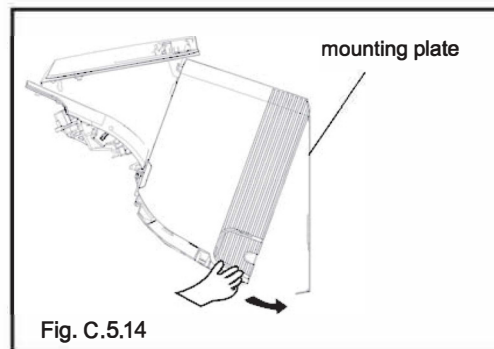
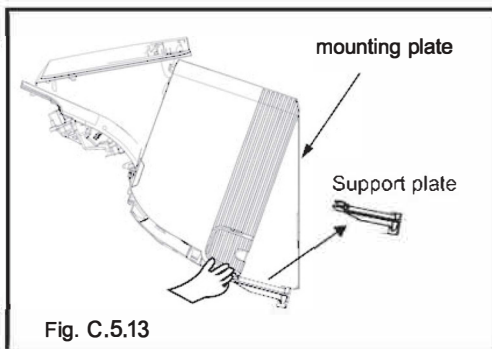
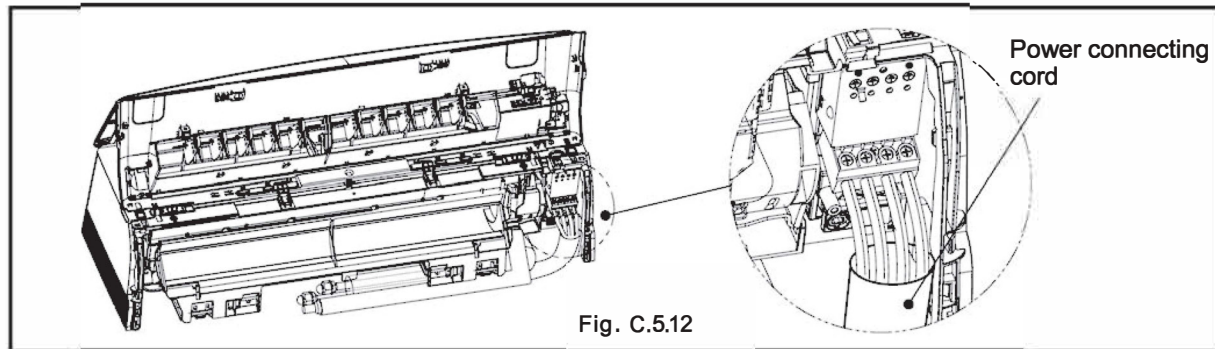
C.7 Indoor Unit Installation



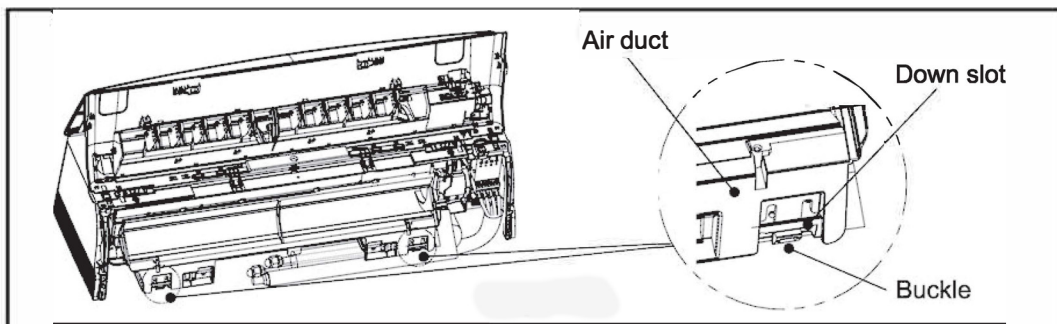
The 18K/24K indoor unit include the switch tie-in accessory only for 18K/24K indoor if required. It may switch 3/8" gas connection tube into 1/2" or 5/8" connection tube. It is installed outdoor unit.



8) Connect the power connecting cord (Fig. C.5.12).



9) Remove the support plate as shown in Fig. C.5.13. Then move the unit step by step to reach the best installation, then press the 2 buckles of the air duct into 2 down slots of the mounting plate. (Fig. C.5.14 and Fig. C.5.15)



C.5.15

INSTALLATION

Wall Mount

C.7 Indoor Unit Installation

- 10) Pull the baffles as shown in Fig. C.5.20 Close the front shell as shown in Fig. C.5.21 . Then press the E position to fasten the front shell as shown in Fig. C.5.22

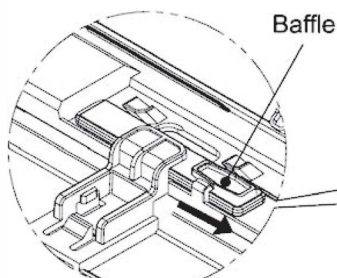


Fig. C.5.20

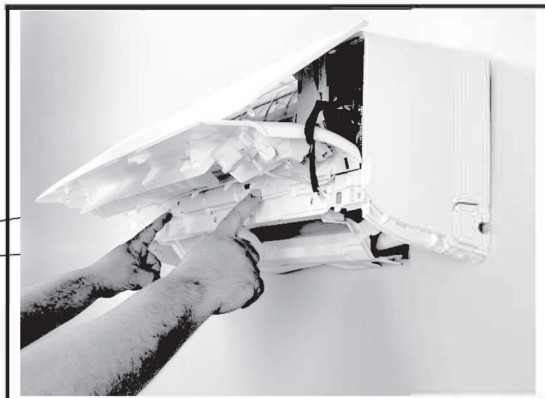
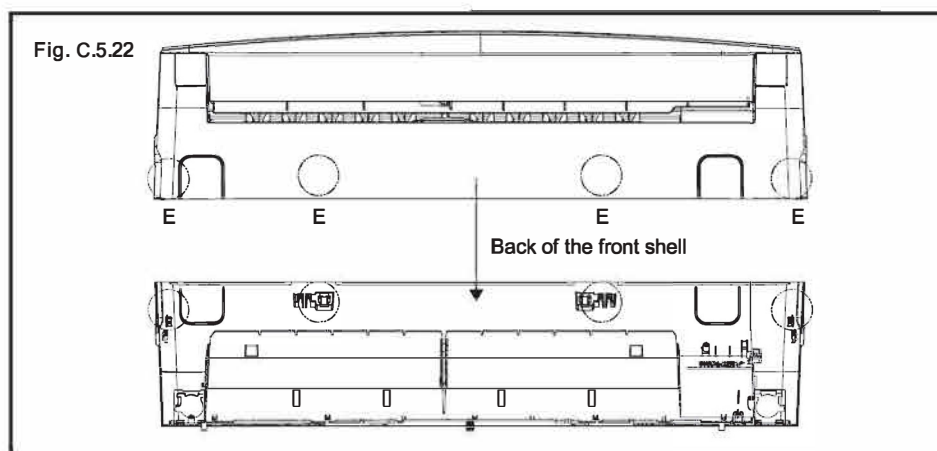


Fig.C.5.21



- 11) Install the screws and close the screw covers as shown in Fig. C.5.23 (Note: For some models, you need to install 3 screws.)

- 12) Close the front panel as shown in Fig. C.5.24

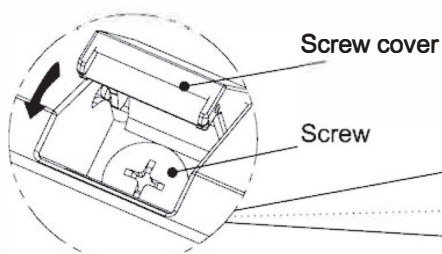


Fig.C.5.23

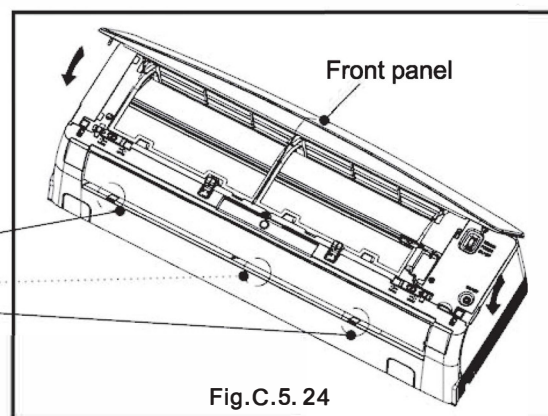


Fig.C.5.24

Note: The appearance of the model in this manual may differ from that of the air conditioner you have selected.

INSTALLATION

Wall Mount

⚠ WARNING	
	Electrical Shock Hazard Always ensure power is disconnected before attempting to connect wires.

Model	Wire Diameter(AWG) Interconnecting Wire
7-9k	14-4 AWG 600V THHN
12k	14-4 AWG 600V THHN
18k	14-4 AWG 600V THHN
24k	14-4 AWG 600V THHN
Table E.1	

NOTE: All communication wire must be stranded wire

GROUNDING	Unit MUST be grounded from branch circuit to unit, or through separate ground wire. Be sure that branch circuit or general purpose outlet is grounded. Do NOT use an extension cord.
ELECTRICAL DISCONNECT	If national or local electrical codes require an electrical disconnect for the indoor unit, use a 3 pole disconnect.

Indoor Unit

Connect the power cord to the indoor unit by connecting the wires to the terminals on the control board individually in accordance with the outdoor unit connection.

Note: For some models, it is necessary to remove the cabinet to connect to the indoor unit terminal.

Outdoor Unit

1. Remove the cable cross board from the unit by loosening the screw. Connect the wires to the terminals on the control board individually per circuit diagram posted on inside of access door. Refer to Figure E.2.
2. Secure the power cord onto the control board with cable clamp.
3. Reinstall the cable cross board to the original position with the screw.

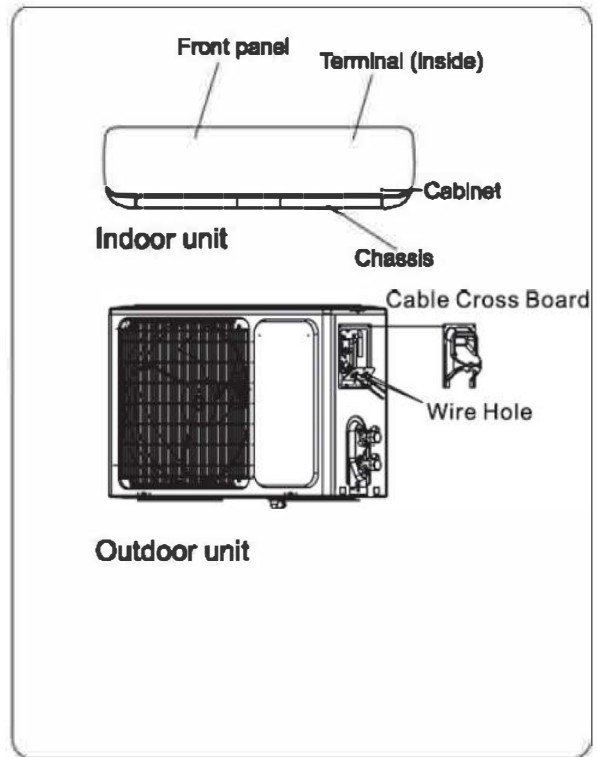


Figure E.2

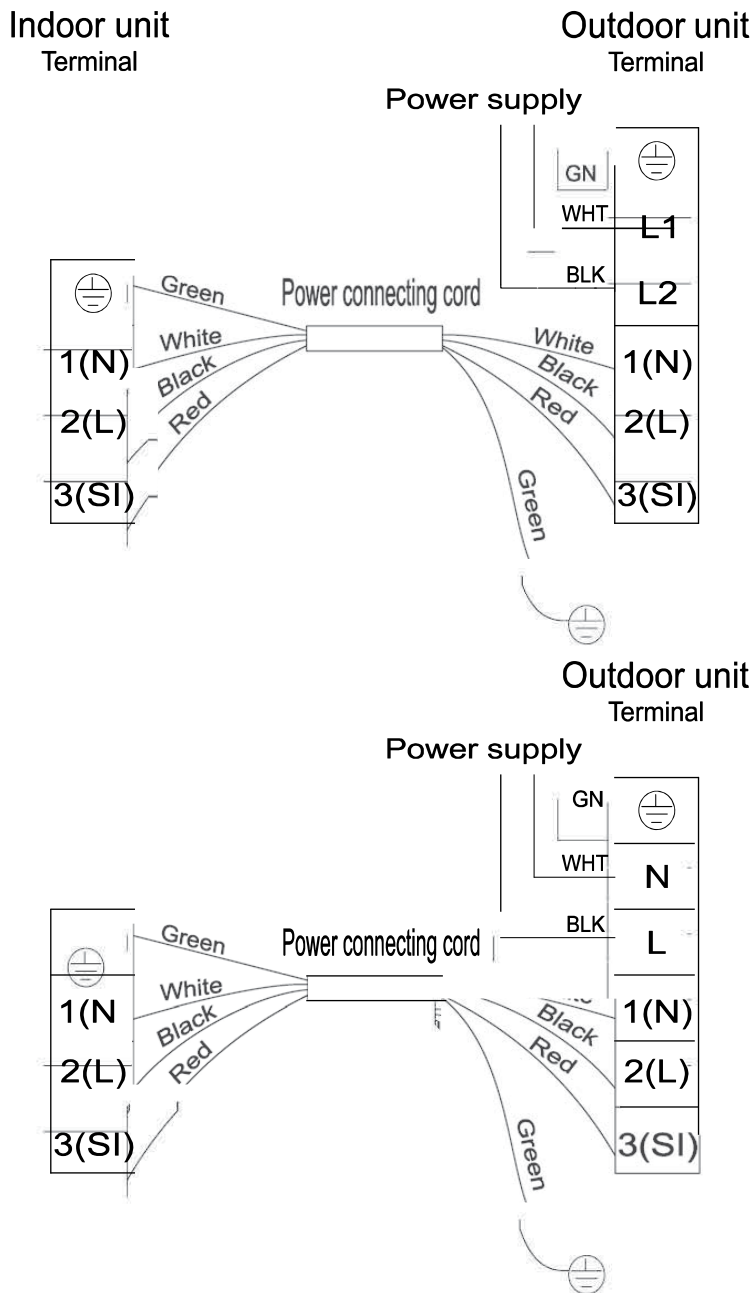
INSTALLATION

Wall Mount

E.1 Indoor Unit Wiring Connection Diagram

Make sure that the color of the wires in the outdoor unit and terminal No. are the same as those of the indoor unit.

1) 208/230V



■ Diagram is reference only, actual product terminals should be followed.

Test Run

Please perform test run according to outdoor unit installation manual.

INSTALLATION

Outdoor Unit

WARNING

- That pipe-work including piping material, pipe routing, and installation shall include protection from physical damage in operation and service, and be in compliance with national and local codes and standards, such as ASHRAE 15, ASHRAE 15.2, IAPMO Uniform Mechanical Code, ICC International Mechanical Code, or CSA B52. All field joints shall be accessible for inspection prior to being covered or enclosed;
- That after completion of field piping for split systems, the field pipework shall be pressure tested with an inert gas and then vacuum tested prior to refrigerant charging.
- Field-made refrigerant joints indoors shall be tightness tested. The test method shall have a sensitivity of 5 grams per year of refrigerant or better under a pressure of at least 0,25 times the maximum allowable pressure. No leak shall be detected. The joints must be welded or brazed.

Label in accessory bag

Contains Flammable Refrigerants	
Contient des réfrigérants inflammables	
Refrigerant:	R454B
Fluide frigorigène:	
Additional Charge:	oz
Charge supplémentaire:	
Total Charge (Installer Reference):	
Charge totale (Référence du Programme d'installation):	oz

Max. Refrigerant Charge Amount X[oz.(g)]

Model(Btu/h)	18K	27K	36K	42K
Max. Refrigerant charge [oz.(g)]	69.67(1975)	101.34(2873)	127(3600)	128.33(3638)

Minimum room size R-454B refrigerant is determined by total refrigerant charge in system. Use this chart to determine the minimum room size the indoor head can be installed in without an A2L Sensor. 7k, 9k, and 12k 208/230V indoor heads are capable of adding an optional accessory A2L sensor. All cassettes and Ducted units have an A2L sensor installed and are exempt from the room size restriction.

Prior to installing the unit use the formulas below to determine the total refrigerant charge for the unit. If the total charge is less than 64 oz. there is no room size restriction. If the total charge is over 64 oz. refer to the the Required Minimum Room Area chart to determine the minimum square footage of the room the indoor unit can be installed in. If rooms are connected by opening that people can walk through but with no door installed, those areas can be considered one space. If the total refrigerant charge exceeds the room area, the indoor unit shall not be installed without an A2L sensor.

INSTALLATION

Outdoor Unit



WARNING

Required minimum room area Y [ft.²(m²)]

X[oz.(g)]	Ducted unit		Cassette unit		Wall-mounted unit	
	Return air outlet height [ft.(m)]	Y[ft. ² (m ²)]	Return air outlet height [ft.(m)]	Y[ft. ² (m ²)]	Return air outlet height [ft.(m)]	Y[ft. ² (m ²)]
<63.49(1800)	No restriction					
63.49(1800)	7.2(2.2)	60(5.5)	7.2(2.2)	60(5.5)	5.9(1.8)	73(6.8)
67.02(1900)		63(5.8)		63(5.8)		77(7.1)
70.55(2000)		66(6.1)		66(6.1)		81(7.5)
74.08(2100)		69(6.4)		69(6.4)		85(7.9)
77.60(2200)		73(6.8)		73(6.8)		90(8.3)
81.13(2300)		77(7.1)		77(7.1)		93(8.6)
84.66(2400)		80(7.4)		80(7.4)		97(9.0)
88.18(2500)		83(7.7)		83(7.7)		102(9.4)
91.71(2600)		86(8.0)		86(8.0)		106(9.8)
95.24(2700)		90(8.3)		90(8.3)		109(10.1)
98.77(2800)		93(8.6)		93(8.6)		113(10.5)
102.29(2900)		95(8.9)		95(8.9)		118(10.9)
105.82(3000)		99(9.2)		99(9.2)		122(11.3)
109.35(3100)		103(9.5)		103(9.5)		125(11.6)
112.88(3200)		106(9.8)		106(9.8)		130(12.0)
116.40(3300)		109(10.1)		109(10.1)		134(12.4)
119.93(3400)		112(10.4)		112(10.4)		138(12.8)
123.46(3500)		115(10.7)		115(10.7)		141(13.1)
126.99(3600)		120(11.1)		120(11.1)		146(13.5)
130.51(3700)		123(11.4)		123(11.4)		153(14.2)
134.04(3800)		126(11.7)		126(11.7)		162(15.0)
137.57(3900)		130(12.0)		130(12.0)		170(15.8)
141.10(4000)		133(12.3)		133(12.3)		179(16.6)
144.62(4100)		136(12.6)		136(12.6)		188(17.4)
148.15(4200)		139(12.9)		139(12.9)		197(18.3)
151.68(4300)		142(13.2)		142(13.2)		207(19.2)
155.21(4400)		146(13.5)		146(13.5)		217(20.1)
158.73(4500)		151(14.0)		151(14.0)		226(21.0)
162.26(4600)		159(14.7)		159(14.7)		236(21.9)
165.79(4700)		165(15.3)		165(15.3)		247(22.9)
169.32(4800)		173(16.0)		173(16.0)		258(23.9)
172.84(4900)		180(16.7)		180(16.7)		268(24.9)
176.37(5000)		187(17.3)		187(17.3)		279(25.9)

INSTALLATION

Outdoor Unit

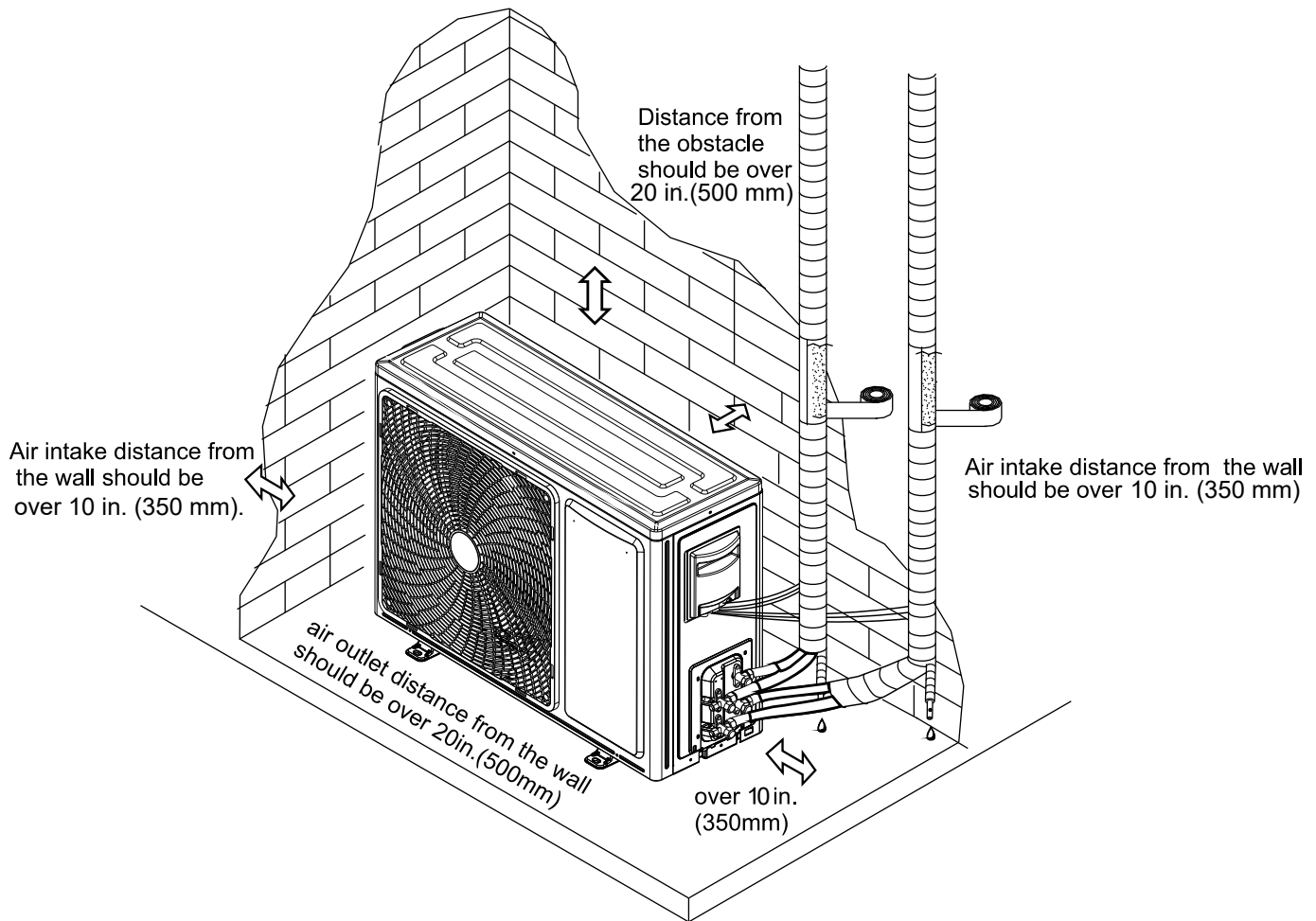
Explanation of symbols displayed on the indoor unit or outdoor unit.

  Refrigerant safety group A2L	WARNING	This symbol shows that this appliance uses a flammable refrigerant. If the refrigerant is leaked and exposed to an external ignition source, there is a risk of fire.
	CAUTION	This symbol shows that the operation manual should be read carefully.
	CAUTION	This symbol shows that a service personnel should be handling this equipment with reference to the installation manual.
	CAUTION	This symbol shows that information is available such as the operating manual or installation manual.

INSTALLATION

Outdoor Unit

Installation diagram



outdoor unit



- *Figures in this manual are only a simple presentation of the unit, it may not match the external appearance of the unit you purchased.*
- *Installation must be performed in accordance with the national wiring standards by authorized personnel only.*

INSTALLATION

Outdoor Unit

Transportation and handling before installation

Transport the product as close to the installation location as practical before unpacking.

- Handling Method

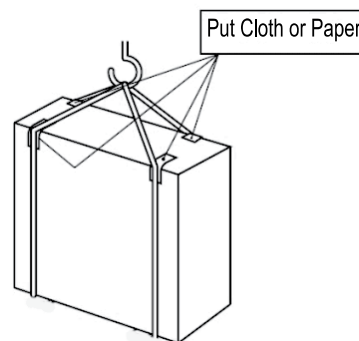
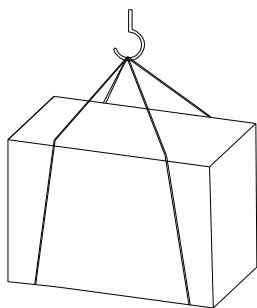
When hanging the unit, ensure a balance of the unit, check safety and lift up smoothly.

(1) Do not remove any packing materials.

(2) Hang the unit under packing condition with two ropes, as shown in Fig below.

- Handling

If have no package to move, Please protect with cloth or paper.



Installation locations selection

Before choosing the installation site, obtain user approval.

- Where it is not exposed to strong wind.
- Where airflow is good and clean.
- Where it is not exposed to rain and direct sunshine.
- Where neighbors are not annoyed by operation sound or hot air.
- Where rigid wall or support is available to prevent the increase of operation sound or vibration.
- Where there is no risk of combustible gas leakage.
- Where it is at least 3m away from the antenna of TV set or radio. An amplifier may be required for the affected device.
- Install the unit horizontally.
- Please install it in an area not affected by snowfall or blowing snow. In areas with heavy snow, please install a canopy, a pedestal and/or some baffle boards.

⚠ CAUTION:

Avoid the following places for installation where air conditioner trouble is liable to occur.

- Where there is much machine oil.
- Salty places such as seaside.
- Where sulfide gas is generated such as a hot spring.
- Where there is high-frequency or wireless equipment.

NOTE:

When operating the air conditioner in low outside temperature, be sure to follow the instruction describe below.

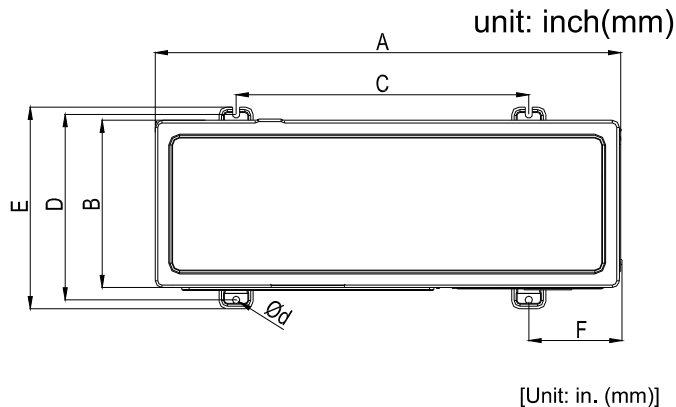
- Never install the outdoor unit in a place where its air inlet/outlet side may be exposed directly to wind.
- To prevent exposure to wind, install the outdoor unit with its air inlet side facing the wall.
- To prevent exposure to wind, it is recommended to install a baffle board on the air outlet side of the outdoor unit.

INSTALLATION

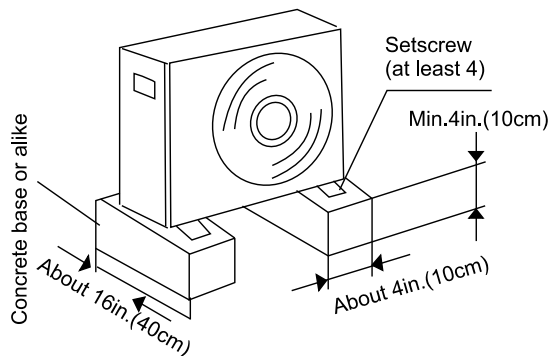
Outdoor Unit

△NOTE:

- Be sure to fix the unit's legs with bolts when installing it.
- Be sure to install the unit firmly to ensure that it does not fall by earthquake or gust.
- The anchor bolts, nuts and washers for the installation are user prepared.



Model (Btu/h)	A	B	C	D	E	F	d
18K	33-7/8 (860)	12-3/16 (310)	21-11/32 (542)	13-7/16 (341)	14-1/2 (368)	6-5/8 (168)	7/16*21/32 (11*17)
27K/36K/42K	38-3/8 (975)	14-3/16 (360)	23 (585)	15-1/2 (395)	16-3/4 (425)	7-5/8 (195)	7/16*21/32 (11*17)

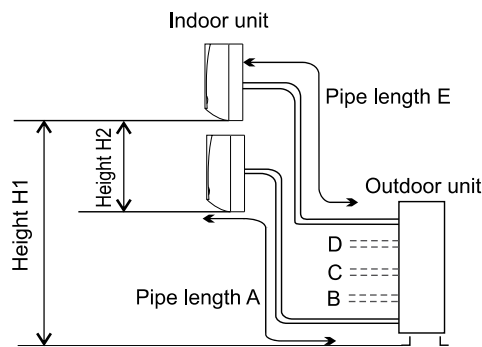


Refrigerant piping

1. Piping requirement

Model(Btu/h)	Outer Diameter of Pipe [in.(mm)]	
	Gas	Liquid
18K/27K/36K/42K	3/8 (9.52)	1/4 (6.35)

The maximum allowable length of refrigerant piping, and the maximum allowable height difference between the outdoor and indoor units, are listed below. The shorter the refrigerant piping is, the better the performance will be. So the connecting pipe should be as short as possible.



Model		Up to 2 indoor units	Up to 3 indoor units	Up to 4 indoor units	Up to 5 indoor units
		18K	27K	36K	42K
Piping to each indoor unit (A/B/C/D/E)	[ft.(m)]	≤82(25)	≤82(25)	≤82(25)	≤82(25)
Total length of piping between all units	[ft.(m)]	A+B ≤164 (50)	A+B+C ≤230(70)	A+B+C+D≤ 230(70)	A+B+C+D+E ≤262(80)
Max height between indoor unit and outdoor unit (H1)	[ft.(m)]	≤49(15)			
Max height between indoor units (H2)	[ft.(m)]	≤25(7.5)			

Additional refrigerant charge

The unit has been filled with refrigerant, but if L (total pipe length) exceeds standard length, additional refrigerant (R454B) change is required.

For 18K: Additional refrigerant charge=[L-50ft (15m)]×0.16 oz/ft (15g/m)

For 27K: Additional refrigerant charge=[L-75ft (22.5m)]×0.16 oz/ft (15g/m)

For 36K: Additional refrigerant charge=[L-100ft (30m)]×0.16 oz/ft (15g/m)

For 42K: Additional refrigerant charge=[L-125ft (37.5m)]×0.16 oz/ft (15g/m)

2. Piping material

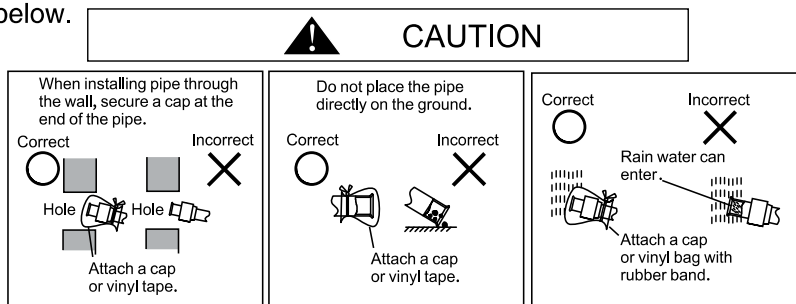
- (1) Prepare the copper pipe on the spot.
- (2) Choose dustless, non-humid, clean copper pipe. Before installing the pipe, use nitrogen or dry air to blow away the dust and impurity on the tube.

INSTALLATION

Outdoor Unit

(3) Piping thickness and material use the pipe as below.

Diameter [inch(mm)]	Thickness [inch(mm)]
1/4(Φ 6.35)	1/32(0.8)
3/8(Φ 9.52)	1/32(0.8)
1/2(Φ 12.7)	1/32(0.8)
5/8(Φ 15.88)	1/32(1.0)



3. Processing of Refrigerant Piping

(1) Pipe cutting

- Cut the copper pipe correctly with pipe cutter.

(2) Burrs removal

- Completely remove all burrs from the cut cross section of the pipe.
- Put the end of the copper pipe downward to prevent burrs from dropping in the pipe.

(3) Putting nut on

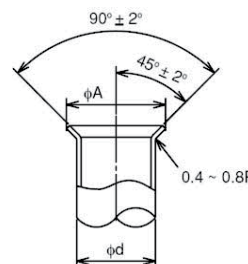
- Remove flare nuts attached to indoor and outdoor units, then put them on pipe having completed burr removal.
- (Not possible to put them on after flaring work).
- Flare nut for pipe depending on the diameter of pipe.

(4) Flaring work

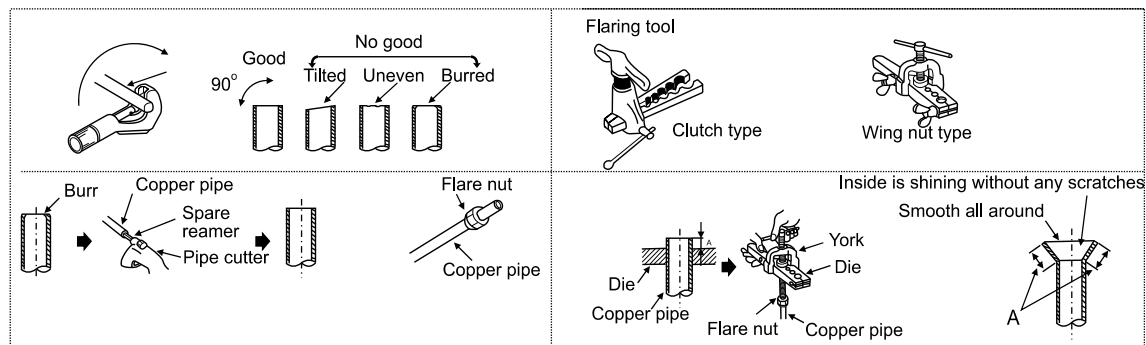
- Perform flaring work using flaring tool as shown below.

(5) Check

- Compare the flared work with the figure below.
- If flare is noted to be defective, cut off the flared section and perform flaring work again.

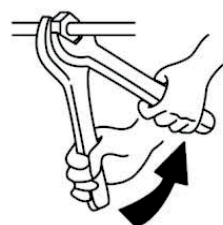


Diameter Φ d	inch(mm) A ⁺⁰ _{-0.4}
1/4(6.35)	11/32(9.1)
3/8(9.52)	1/2(13.2)
1/2(12.7)	10/16(16.6)
5/8(15.88)	3/4(19.7)



4. Piping connection

- (1) R454B refrigerant is flammable, confirm that the valves are closed.
- (2) Connect the indoor unit and the outdoor unit with field-supplied refrigerant piping. Suspend the refrigerant piping at certain points and prevent the refrigerant piping from touching the weak part of the building such as wall, ceiling, etc.
(If touched, abnormal sound may occur due to the vibration of the piping. Pay special attention in case of short piping length.)
- (3) Tightening the flare nut use two spanners like figure right.
- (4) Apply the refrigerant oil (field-supply) thinly at the seat surface of the flare nut and pipe before connecting and tightening.
And when tightening the flare nut, use two spanners.
- (5) Outdoor refrigerant piping should connect with stop valve.



Double Spanner work

Pipe Size [inch(mm)]	Torque
1/4(Φ 6.35)	14.75ft-lb (20N·m)
3/8(Φ 9.52)	29.5ft-lb (40N·m)
1/2(Φ 12.7)	44.25ft-lb (60N·m)
5/8(Φ 15.88)	59ft-lb (80N·m)

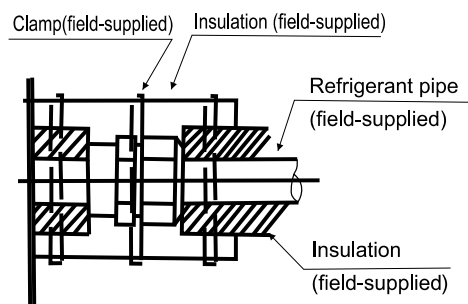
Tightening Torque for Flare Nut

INSTALLATION

Outdoor Unit

(6) After finishing connecting the refrigerant pipes, keep it warm with the insulation material like figure right.

- For outdoor unit side, surely insulate every piping including valves.
- Cover piping joints with pipe cover.
- Using piping tape, apply taping starting from the entry of outdoor unit. Fix the end of piping tape with adhesive tape.
- Fix the end of piping tape with adhesive tape.
- When piping has to be arranged through above ceiling, closet or area where temperature and humidity are high, wind additional commercially sold insulation for prevention of condensation.



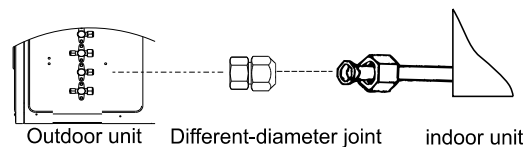
Piping insulation procedure



If the diameter of connection pipe does not match the port size of outdoor unit, select proper different-diameter joints in the accessory according to the following table.

Figure	Purpose
	Change pipe diameter from 1/4 inch (6.35mm) to 3/8 inch (9.52mm)
	Change pipe diameter from 3/8 inch (9.52mm) to 1/2 inch (12.7mm)
	Change pipe diameter from 3/8 inch (9.52mm) to 5/8 inch (15.88mm)

Note: The 18K model does not have this Different-diameter joint.



Connect pipes using different-diameter joint

5. Air tight test

- Do use Nitrogen.

Connect the gauge manifold using charging hoses with a nitrogen cylinder to the check joints of the liquid line and the gas line stop valves. Perform the air-tight test.

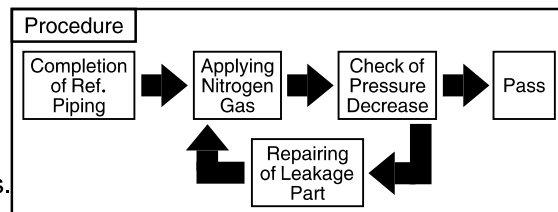
Don't open the gas line stop valves.

Apply nitrogen gas pressure of 602psig (4.15MPa).

Check for any gas leakage at the flare nut connections, or brazed parts by gas leak detector or foaming agent.

Gas pressure doesn't decrease is OK.

After the air tight test, release nitrogen gas.

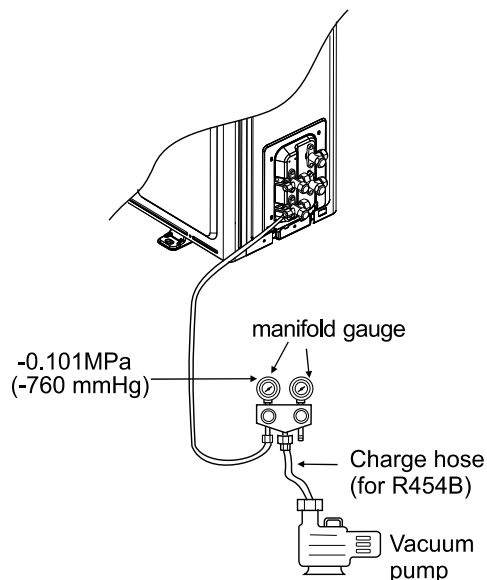


Air tight procedure

6. Vacuum pumping and charge refrigerant

- Vacuum pumping

- (1) Remove the service port cap of the stop valve on the gas pipe side of the outdoor unit.
- (2) Connect the manifold gauge and vacuum pump to the service port of the stop valve on the gas pipe side of the outdoor unit.
- (3) Run the vacuum pump. (Work for more than 15 minutes.)
- (4) Check the vacuum with the gauge manifold valve, then close the gauge manifold valve and stop the vacuum pump.
- (5) Leave it as is for one or two minutes. Make sure the pointer of the manifold gauge remains in the same position. Confirm that the pressure gauge shows -14.7 psig (-0.101MPa or -760mmHg).
- (6) Remove the manifold gauge quickly from the service port of the stop valve.
- (7) After refrigerant pipes are connected and evacuated, fully open all stop valves on both sides of gas pipe and liquid pipe.
- (8) Open adjusted valve to add refrigerant (must be refrigerant is liquid).
- (9) Tighten the cap to the service port.
- (10) Retighten the cap.
- (11) Leak test foam with halogen leak detector to check the flare nut and brazing Carolina Department leaks. Use foam that not generate ammonia (NH3) in the reaction.



INSTALLATION

Outdoor Unit



WARNING

- (1) Each pipelines needs to be evacuated individually.
- (2) An excess or a shortage of refrigerant is the main cause of trouble to the unit. Charge the correct refrigerant quantity according to the description of label at the inside of the manual.
- (3) Check refrigerant leakage in detail. If a large refrigerant leakage occurs, it will cause danger or even explosion if a fire was being used in the room.

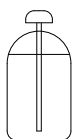
● Additional refrigerant charge

The unit has been filled with refrigerant.

Please according “Piping Requirement” to calculate additional charge.

After vacuum pump procedure has been finished, first exhaust air from charge hose, then open valves, charge refrigerant as “liquid” type through Liquid stop valve.

At the end, please close valves and record the refrigerant charging quantity.



Filling a cylinder with an attached siphon

Stand the cylinder upright when filling.

(Stand the cylinder upright when filling.
There is a siphon pipe inside, so the cylinder
need not to be upside-down to fill with liquid.)



Filling other cylinders

Turn the cylinder upside -down when filling.

Wiring



WARNING

- Turn OFF the main power switch to the indoor unit and the outdoor unit and wait for more than 3 minutes before electrical wiring work or a periodical check is performed.
- Check to ensure that the indoor fan and the outdoor fan have stopped before electrical wiring work or a periodical check is performed.
- Protect the wires, electrical parts, etc. from rats or other small animals. If not protected, rats may gnaw at unprotected parts and at the worst, a fire will occur.
- Avoid the wirings from touching the refrigerant pipes, plate edges and electrical parts inside the unit.
If not do, the wires will be damaged and at the worst, a fire will occur.
- Install an ELB (Electric Leakage Break) in the power source.
If ELB is not used, it will cause electric shock or fire at the worst.
- This unit uses an inverter, which means that it must be used an earth leak detector capable handling harmonics in order to prevent malfunctioning of the earth leak detector itself.
- Do not use intermediate connection wires, stranded wires(see **<Attentions when Connect the power supply wiring>**), extension cables or control line connection, because the use of these wires may cause fever, electric shock or fire.
- The tightening torque of each screw shall be as follows.
 - M4: 0.7 to 1.0 lbf·ft. (1.0 to 1.3 N·m)
 - M5: 1.5 to 1.8 lbf·ft. (2.0 to 2.5 N·m)
 - M6: 3.0 to 3.7 lbf·ft. (4.0 to 5.0 N·m)
 - M8: 6.6 to 8.1 lbf·ft. (9.0 to 11.0 N·m)
 - M10: 13.3 to 17.0 lbf·ft. (18.0 to 23.0 N·m)Keep the above tightening torque when wiring work.



CAUTION

- With tape material along the wire wrapped, sealed wiring holes, prevent the condensed water and insects.
- Tightly secure the power source wiring using the cord clamp inside the unit.

NOTE: Fix the rubber bushes with adhesive when conduit tubes to the outdoor unit are not used.

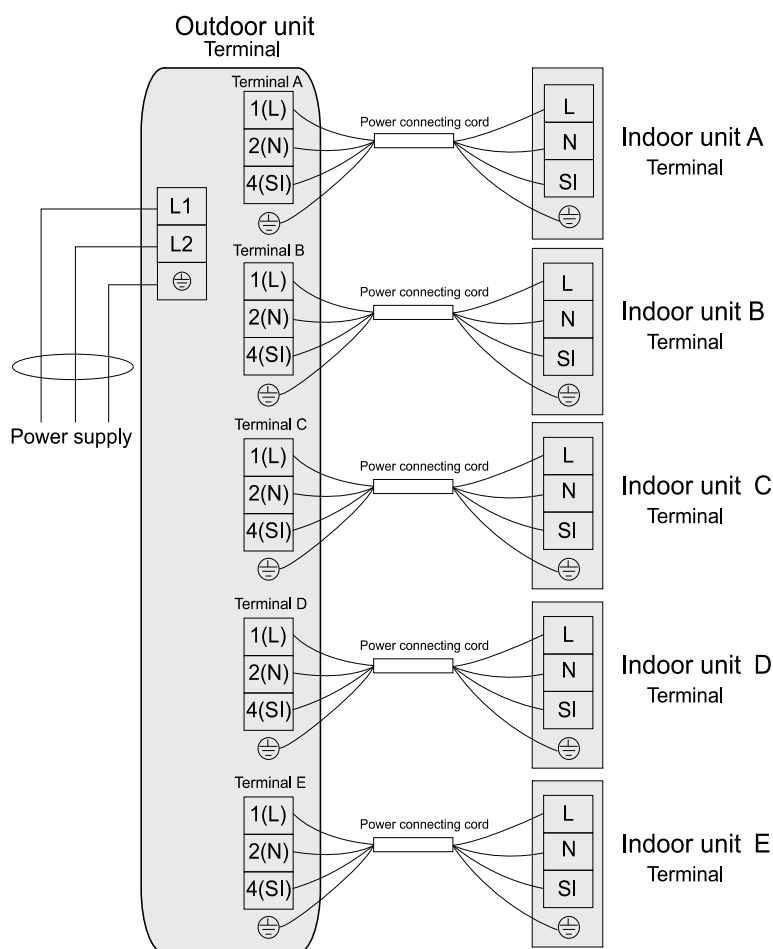
INSTALLATION

Outdoor Unit

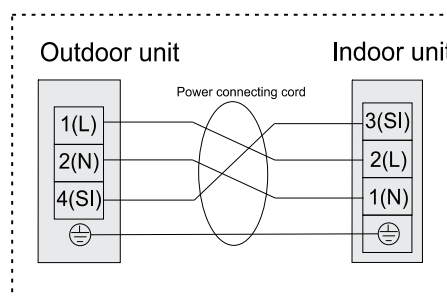
General Check

- (1) Make sure that the field-selected electrical components (main power switches, circuit breakers, wires, conduit connectors and wire terminals) have been properly selected according to the electrical data.
Make sure that the components comply with National Electrical Code (NEC).
- (2) Check to ensure that the voltage of power supply is within +10% of nominal voltage and earth phase is contained in the power supply wires. If not, electrical parts will be damaged.
- (3) Check to ensure that the capacity of power supply is enough.
If not, the compressor will be not able to operate cause of voltage drop abnormally at starting.
- (4) Check to ensure that the earth wire is connected.
- (5) Install a main switch ,multi-pole main switch with a space of 1/8 in. (3.5mm) or more, single phase main switch with a space of 1/8 in. (3.0mm) or more between each phase. Please use the special three-phase power switch for 3-Phase product.
- (6) Check to ensure that the electrical resistance is more than 2 MΩ, by measuring the resistance between ground and the terminal of the electrical parts.
If not, do not operate the system until the electrical leakage is found and repaired.

Electrical wiring diagram



Note: For some indoor units



NOTES:

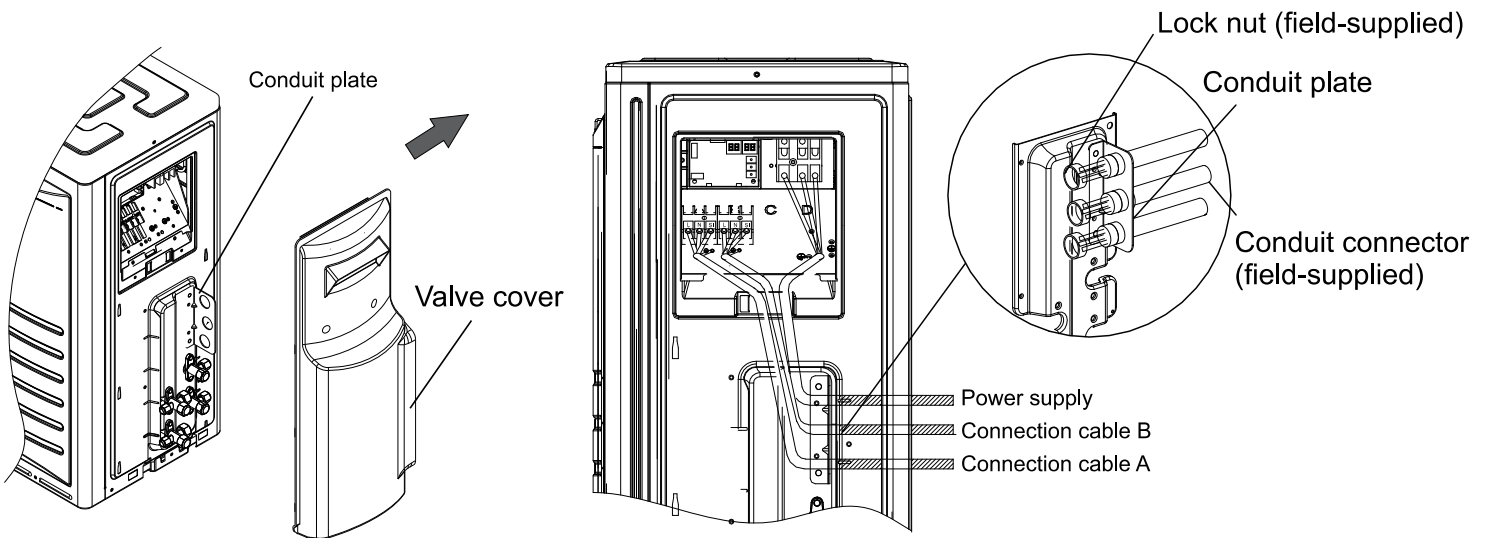
1. For 18K model, there is no INDOOR UNIT C, D and E.
2. For 27K model, there is no INDOOR UNIT D and E.
3. For 36K model, there is no INDOOR UNIT E.
4. Since there is some difference between the terminal panel in the diagram and the real one, the wire connecting operation should be done according to the letters on the panel, please neglect the numbers on it.

INSTALLATION

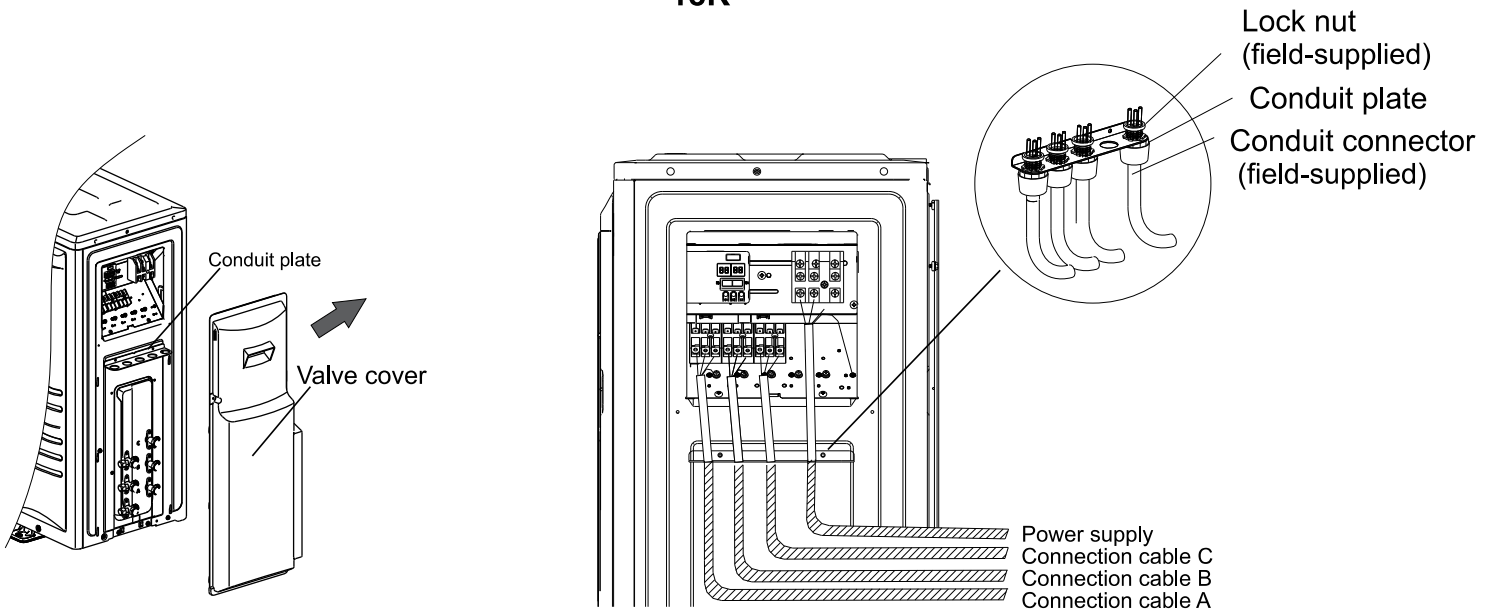
Outdoor Unit

Wires connect steps:

- (1) Valve cover removal
Remove the two mounting screws.
Remove the valve cover as shown by the arrow mark.
- (2) Fasten the power supply cable and the connection cable to the conduit holder using the lock nut.
- (3) Connect the power supply cable and the connection cable to terminal.
- (4) Fasten the power supply cable and the connection cable with the cable clamp.
- (5) Be sure to seal the holes when applying the putty.
Place the cables side to side.(Do not overlap the cables.)
- (6) Put the service cover and valve cover back after completion of the work.



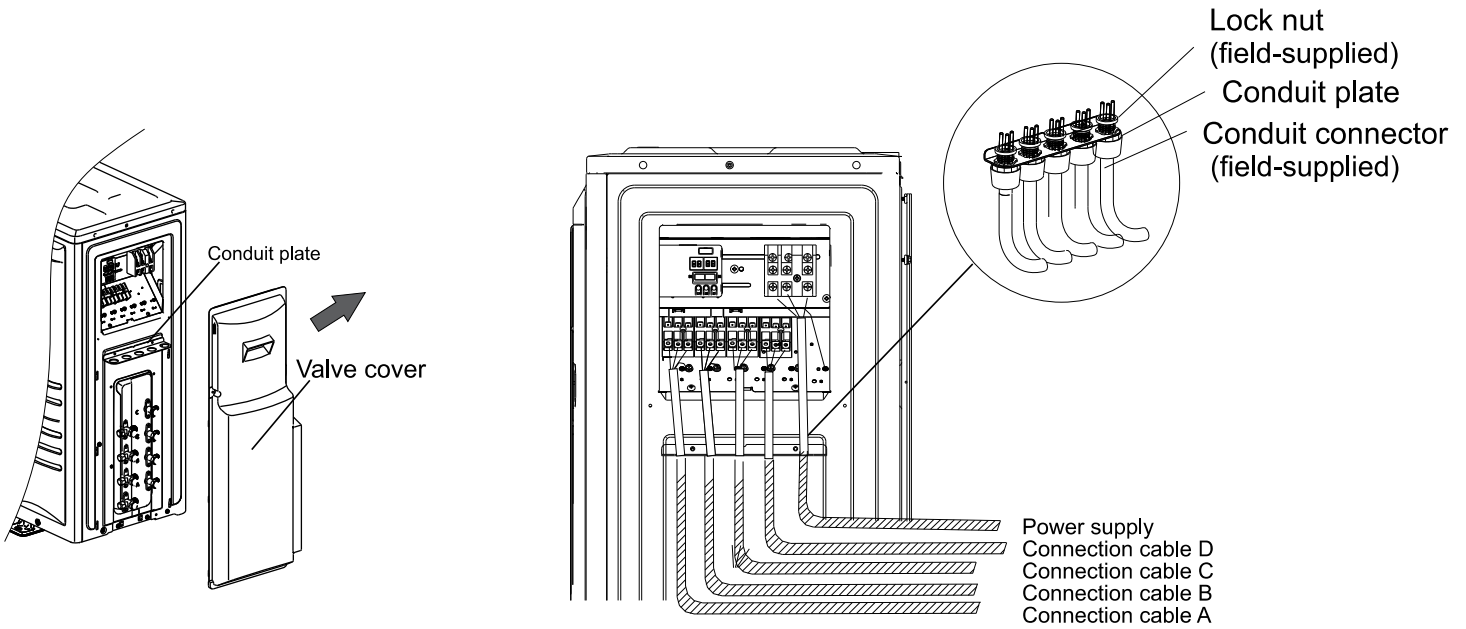
18K



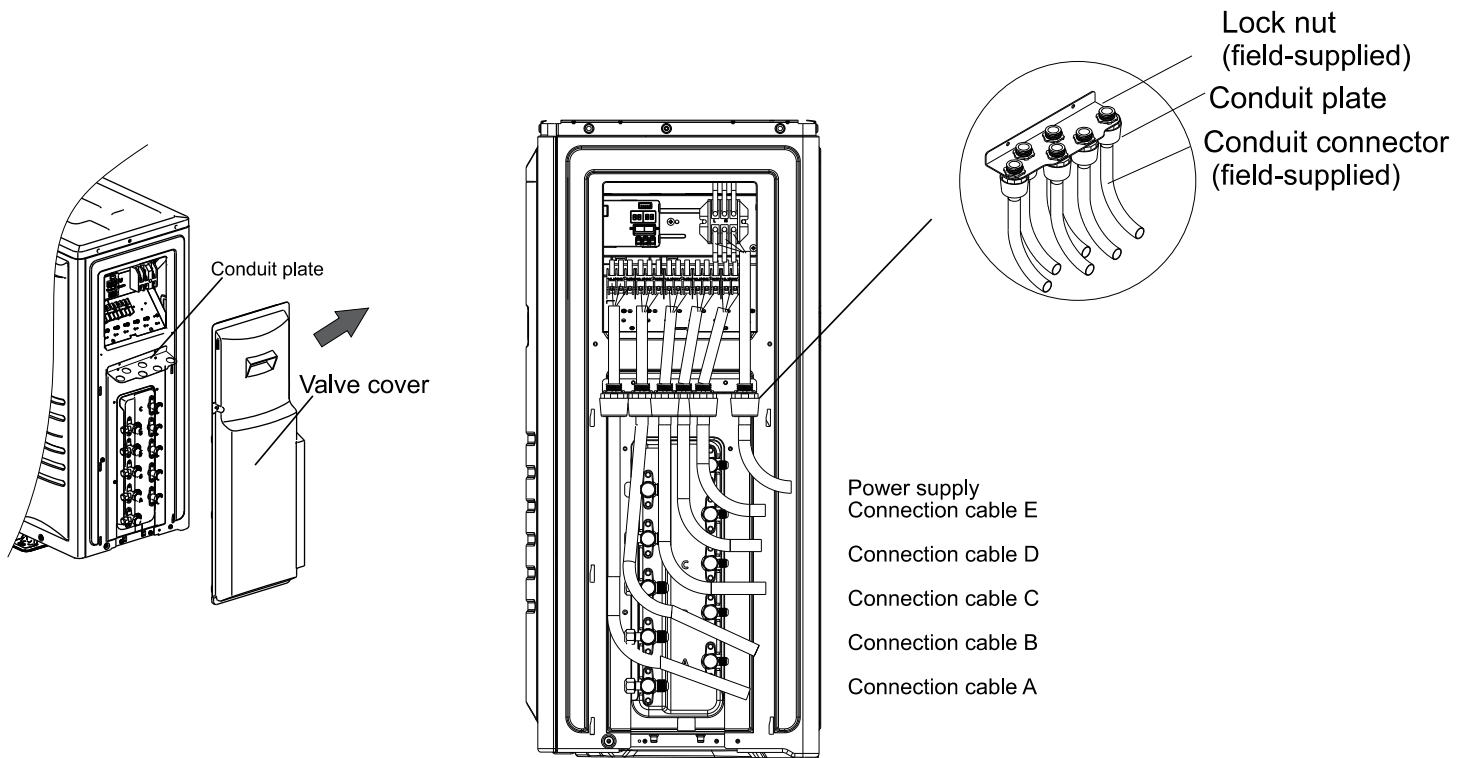
27K

INSTALLATION

Outdoor Unit



36K



42K

INSTALLATION

Outdoor Unit

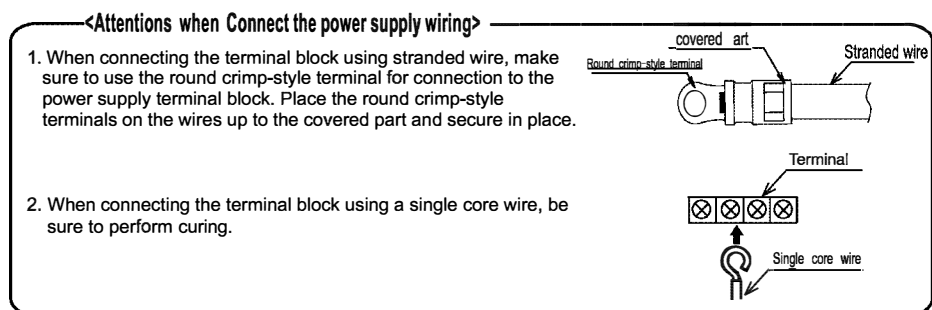
Electrical Data

Model (Capacity: Btu/h)	Power Supply	Circuit Breaker		Transmitting Cable Size	MCA (A)
		MOP (A)	Nominal Sensitive Current (mA)		
18K	208/230V ~/60Hz	30	30	4*14AWG	21
27K	208/230V ~/60Hz	40	30	4*14AWG	25
36K	208/230V ~/60Hz	50	30	4*14AWG	32
42K	208/230V ~/60Hz	60	30	4*14AWG	36

Max. Running Current (A): REFER TO NAMEPLATE

Notes:

- (1) Follow local codes and regulations when select field wires, and all the above are the minimum wire size.
- (2) Install main switch and circuit breaker for each system separately. Select the high response type circuit breaker that is acted within 0.1second.
- (3) Communication cable shall be of stranded type THHN.



INSTALLATION

Outdoor Unit

Trial run

Test run should be performed after refrigerant piping, drain, wiring, etc. have been finished.



The heat pump air conditioner is provided with a crankcase heater, check to ensure that the switch on the main power source has been ON for more than 6 hours ahead of power on preheating, otherwise it might damage the compressor!

Do not operate the system until all the check points have been cleared.

(A) Check to ensure that the stop valves of the outdoor unit are fully opened.

(B) Check to ensure that the electric wires have been fully connected.

(C) Check to ensure that the electrical resistance is more than $2M\Omega$, by measuring the resistance between ground and the terminal of the electrical parts. If not, do not operate the system until the electrical leakage is found and repaired.

Test run function identification

Operate the thermostat to turn ON the appliance, and then proceed test run.

Pay attention to the following items while the system is running.

Do not touch any of the parts by hand at the discharge gas side, since the compressor chamber and the pipes at the discharge side are heated higher than 194°F (90°C) .

● Turn off the power after test run is finished.

Installation of the appliance is generally finished after the above operations are done. If you still have any trouble, please contact local technical service center of our company for further information.

OPERATION

Operation Range (Cooling and Heating)

Temperature		Cooling operation	Heating operation
Indoor temperature	Max	90°F	81°F
	Min	70°F	45°F
outdoor temperature	Max	125°F	75°F
	Min	5°F	-13°F
Figure 301			

*Optimum performance will be achieved within these operating temperature. If air conditioner is used outside of the above conditions, the protective device may trip and stop the appliance.

*The temperature of some products is allowed beyond the range. In specific situation, please consult the merchant. When relative humidity is above 80%, if the air conditioner runs in COOLING or DRY mode with door or window opened for a long time, dew may drip down from the outlet.

OPERATION

Remote Control

The remote controller transmits signals to the system.

SMART

Used to enter fuzzy logic operation directly, regardless of the unit is on or off.

POWER

The appliance will be started when it is energized or will be stopped when it is in operation, if you press this button.

SURGE

Used to start or stop the fast cooling/heating. (Fast cooling operates at high fan speed with 61°F set temp automatically ; Fast heating operates at auto fan speed with 86°F set temp automatically)

IFEEL

Used to set IFEEL mode operation. Press it once, the IFEEL function will be started. Press it again, the IFEEL function will be shut off.

SWING

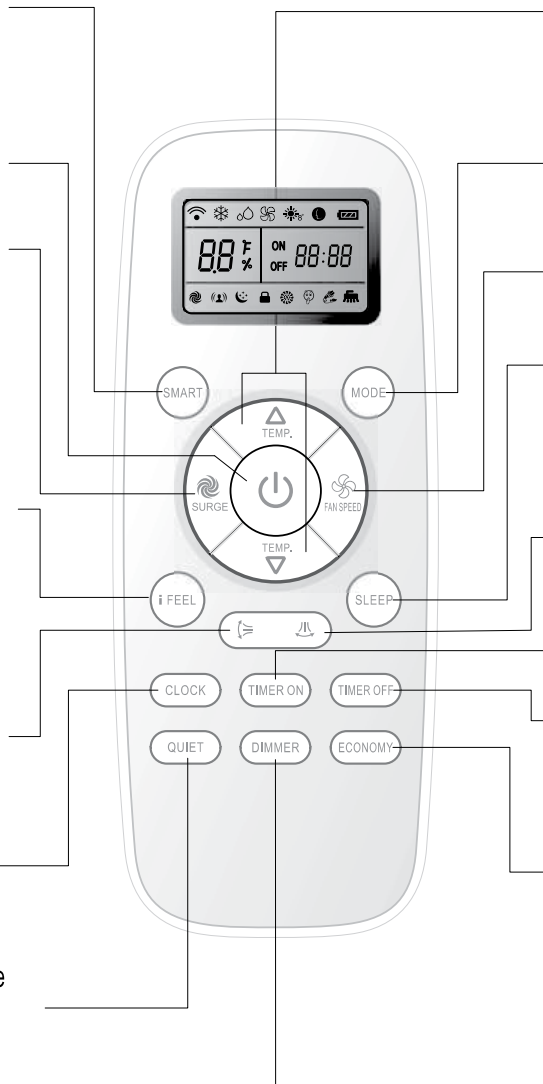
Used to stop or start vertical adjustment louver swinging and set the desired up/down airflow direction.

CLOCK

Used to set the current time.

QUIET

Used to set or cancel Quiet Mode operation. When the air conditioner is in standby, and the mode of remote controller is in Cooling or Dry (except Super mode), press this button for about 5 seconds once to start Clean mode, then the indicator “” will display on LCD.



TEMP + -

Used to adjust the room temperature and the timer, also real time.

MODE

Press this button to select the operation mode.

FAN

Used to select fan speed in sequence auto, higher, high, medium, low or lower.

SLEEP

Used to set or cancel Sleep Mode operation.

SWING

Used to stop or start Horizontal adjustment louver swinging and set the desired left/right airflow direction.

TIMER ON

Used to set or cancel the timer operation.

TIMER OFF

Used to set or cancel the timer operation.

ECONOMY

Used to set or cancel Economy Mode operation.

When in Cooling mode (except Super mode), press this button for about 5 seconds once to start Power control mode, press this button for about 5 seconds once again to stop it

DIMMER

When you press this button, all the display of indoor unit will be closed. Press any button to resume display.

LOCK

Used to start or stop LOCK mode.

46°HEAT

Used to start or stop 46°HEAT mode.

Indication symbols on LCD:

 Cooling indicator	 Auto fan speed	 Sleep 1 indicator	 Quiet indicator	 Signal transmit
 Dry indicator	 Higher fan speed	 Sleep 2 indicator	 Smart indicator	 Battery power indicator
 Fan only indicator	 High fan speed	 Sleep 3 indicator	 Economy indicator	 Display set timer
 Heating indicator	 Medium fan speed	 Sleep 4 indicator	 Surge indicator	 Display current time
 46°Heat indicator	 Low fan speed	 Lock indicator	 Ifeel	 Display temperature
 Lower fan speed			 Clean indicator	 Power control indicator

Note: Each mode and relevant function will be further specified in following pages.

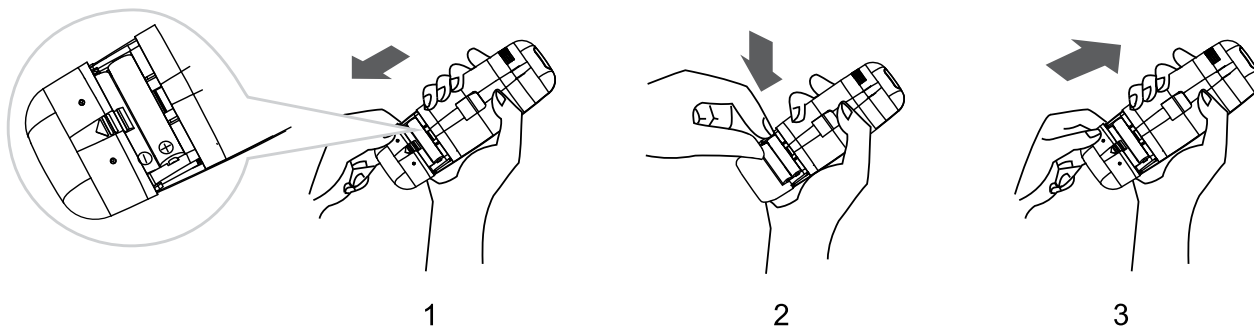
Figure 302

OPERATION

Remote Control

◆ How to Insert the Batteries

1. Remove the battery cover according to the arrow direction.
2. Insert new batteries making sure that the (+) and (-) of battery are matched correctly.
3. Reattach the cover by sliding it back into position.



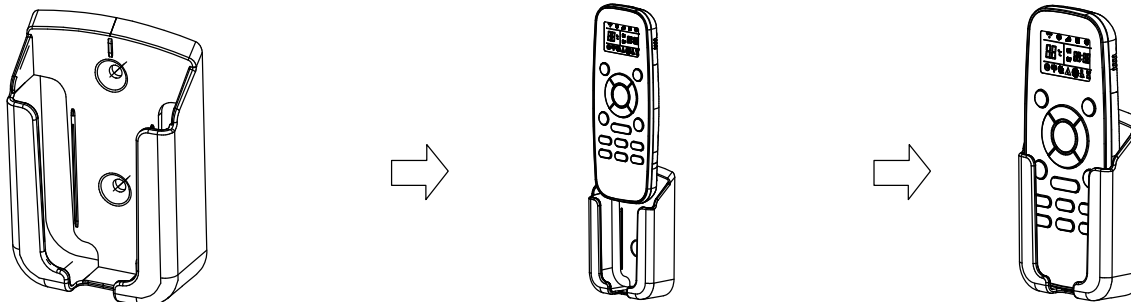
Note:

- Use 2 LR03 AAA(1.5volt) batteries. Do not use rechargeable batteries. Replace batteries with new ones of the same type when the display becomes dim.

◆ Storage and Tips for Using the Remote Controller

The remote controller may be stored mounted on a wall with a holder.

Note: The remote controller holder is an optional part.



◆ How to Use

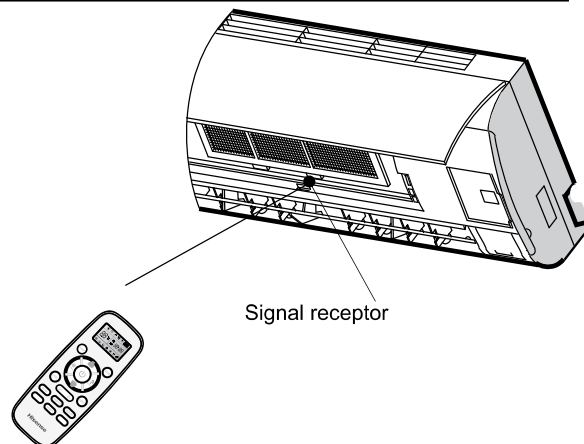
To operate system, point remote directly at unit (audible beep should sound when buttons are pressed). The remote can operate system up to 23ft away without interference.

⚠ CAUTIONS

For appropriate signal transmission between remote controller and indoor unit, keep the signal receiver away from the following items:

- Direct sunlight or other strong lights or heat
- Flat panel television screen or other electrical appliances that react to the remote controller

Additionally, the air conditioner will not operate if curtains, doors or other materials block the signals from the remote controller to the indoor unit. If the signal may not be transmitted properly, either move these materials or consult your local dealer.



OPERATION

Remote Control

Operation modes

◆ Selecting mode

Press  button

Result : The operation modes changed in sequence:



☑ **Heating mode is NOT available for cooling only air conditioner.**

◆ FAN mode

Press  button

Result : The fan speed is changed in sequence:



☑ **At "FAN ONLY" mode, the "AUTO" is not available.**
At "DRY" mode, Fan speed is set at "AUTO" automatically, "FAN" button is ineffective in this case.

◆ Setting temperature

Press  button once

Result : Raise temperature setting by 1°F

Press  button once

Result : Lower temperature setting by 1°F



Range of available set temperature	
*HEATING, COOLING	61°F~86°F
DRY	19°F~45°F
FAN ONLY	unable to set

*Note: Heating mode is NOT available for cooling only models.

*Note: At "Dry" mode, a decrease or rise of up to 45°F can be set with Remote controller if you still feel uncomfortable.

◆ Turning on

Press  button.

Result : The RUN indicator of the indoor unit lights up.

SWING, SMART, TIMER ON, TIMER OFF, CLOCK, 46°HEAT, SLEEP and SURGE operation modes will be specified in the following pages.

- ☑ **Changing modes during operation, sometimes the unit does not response at once. Wait 3 minutes.**
- During heating operation, air flow is not discharged at the beginning. After 2—5 minutes, the air flow will be discharged until temperature of indoor heat exchanger rises.**
- Wait 3 minutes before restarting the appliance.**

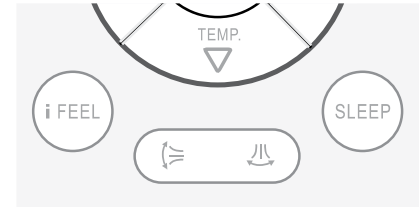
OPERATION

Remote Control

Airflow direction control

Vertical airflow(Horizontal airflow) Blade angle will adjust based on remote setting.

Operation mode	Direction of airflow
COOLING, DRY	horizontal
*HEATING, FAN ONLY	downward



The direction of airflow can be also adjusted by pressing the "  " button of the remote controller.

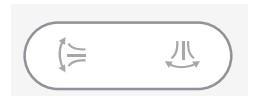
**Heating mode is only available for heat pump models.*

◆ Vertical airflow control (with the remote controller)

Use remote to adjust blade/louver angles.

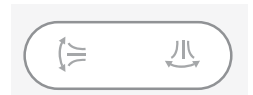
Press "  " button once.

Result : The vertical adjustment louver will swing up and down automatically.



Press "  " button again .

Result : The louvers swing to a suitable angle as desired.

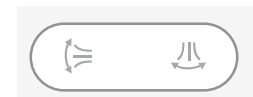


◆ Horizontal airflow control (with the remote controller)

Use remote to adjust blade/louver angles.

Press "  " button once.

Result : The horizontal adjustment louver will swing left and right automatically.



Press "  " button again .

Result : The louvers swing to a suitable angle as desired.



OPERATION

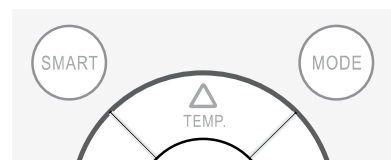
Remote Control

SMART mode(Multizone system not capable of auto change over function)

◆ How to set SMART mode?

Press the  button.

Result : Enters **SMART** mode(auto change over operation) regardless of the units ON/OFF status.
Temperature and fan speed are automatically set based on actual room temperature.



Heat pump models

Indoor temperature	Operation mode	Target temperature
70°F or below	HEATING	72°F
70°F-73°F	FAN ONLY	
73°F-79°F	DRY	Room temperature decrease 2°F after operate for 3 minutes
Over 79°F	COOLING	79°F

☑ **SMART mode will not work when system is set to SURGE Mode.**

☑ **Pressing MODE will cancel SMART mode. Pressing MODE will cancel SMART mode.**

Note: Temperature, airflow and direction are controlled automatically in SMART mode.

However, you can choose an offset of -7 to 7 if SMART mode preset is not comfortable.

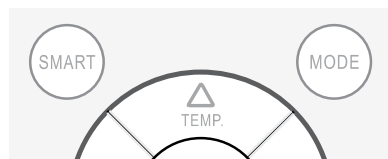
◆ What you can do in SMART mode?

Issue	Button	Adjust
Not enough air flow in SMART mode.		Indoor fan speed alternates among Highest, High, Medium, low and Lowest each time when this button is pressed.
Airflow is not directed properly.		Pressing SWING button once will change blade/louver position, pressing SWING again will stop swing function.

◆ How to cancel the SMART mode?

Press the  button.

Result : The SMART mode will be cancelled.



OPERATION

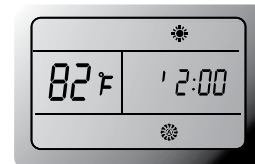
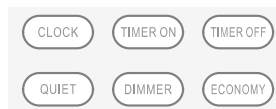
Remote Control

CLOCK button

◆ How to adjust the real time?

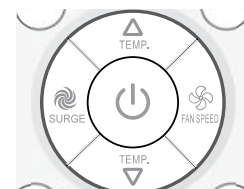
1. Press  button.

Result : The time flashes on the LCD.



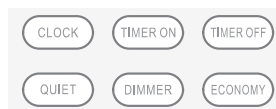
2. Press  and  buttons.

Result : Once to increase or decrease the time setting by 1 minute.
One and a half seconds to increase or decrease the time setting by 10 minute.
For a longer time to increase or decrease the time by 1 hour.



3. Press  button again.

Result : The real time is set.



CLEAN mode

When the unit is in standby, and the mode of remote controller is in Cooling or Dry , press  button for 5 seconds once to start Clean mode , then the indicator “” will display on LCD.

- ☑ **Clean mode is ineffective in SUPER mode.**
- ☑ **Press ON/OFF or SMART or MODE button can exit the Clean mode, then the indicator “” will disappear.**
- ☑ **After the clean process finish, the air conditioner will return to Cooling or Dry as preset, while the indicator“” on remote controller will display for about 30 mins.**

QUIET



OPERATION

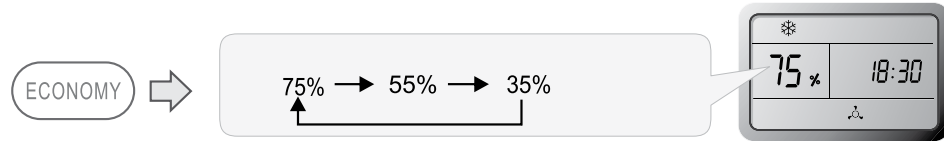
Remote Control

◆ Power control mode

When in Cooling mode, press  button for about 5 seconds once to start Power control mode (at low fan speed), press this button for about 5 seconds once again to stop it.

When the appliance in the Power control mode, press  button once by once

Result : The operation modes changed in sequence:



- ❑ **Power control mode is ineffective in SURGE or ECONOMY mode.**
- ❑ **Except for the button of Swing, Dimmer, I feel, Clock, Time on, Time off, Fan, press the other buttons can exit the Powercontrol mode, and the indicator “ % ” will disappear.**
- ❑ **When start the Power control mode, the fan will automatically enter low wind speed, but you can change the wind speed by press the Fan button.**

SURGE mode

SURGE mode is used to start or stop fast cooling or heating.

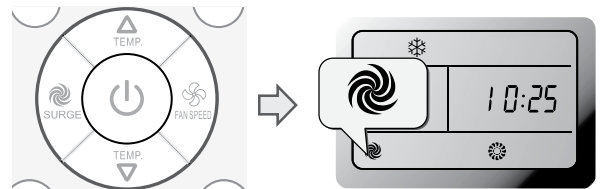
SURGE mode can be set when the appliance is in operation or in standby.

In **SURGE** mode, you can set airflow direction or timer.

◆ How to set **SURGE** mode?

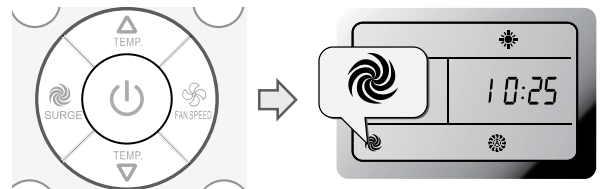
Press  button in cool mode.

Result : At higher fan speed ,the set temperature automatically to 61°F



Press  button in heat mode.

Result : At auto fan speed ,the set temperature automatically to 86°F



◆ How to cancel **SURGE** mode?

Press **SURGE** , **MODE**, **FAN**, **ON/OFF**,**SLEEP** or **TEMPERATURE SETTING** button.

Result : Display will return to previous mode
Exit from **SURGE** mode.



Note:

SMART button is not available in **SURGE** mode.

Surge mode will operate for 15 minutes unless user cancels the function.

OPERATION

Remote Control

46°HEAT mode

46°HEAT mode is used to set 46° heating mode.

In 46°HEAT mode, the fan speed is set at "AUTO" automatically.

◆ How to set 46°HEAT mode?

Press  and  buttons together for about 2 seconds at the heating mode.

Result : The 46° heat mode will be started.



◆ How to cancel 46°HEAT mode?

Press any button except for ,  and .

Result : The display  will disappear and the 46°HEAT mode will be cancelled.

Note:

In 46°HEAT mode, the default temperature is set 46°F.

46°HEAT mode can be set only when the air conditioner works in the heating mode.

TIMER mode

It is convenient to set the timer on with **TIMER ON** buttons when you go out in the morning to achieve a comfortable room temperature at the time you get home. You can also set timer off at night to enjoy a good sleep.

◆ How to set TIMER ON?

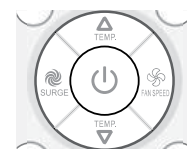
1. Press  button.

Result : "ON 12:00" flashes on the LCD.



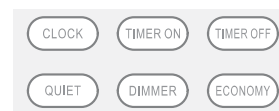
2. Press the  or  button.

Result : Once to increase or decrease the time setting by 1 minute.
One and a half seconds to increase or decrease the time setting by 10 minute.
For a longer time to increase or decrease the time by 1 hour.



3. When your desired time displayed on LCD, press the TIMER ON button and confirm it.

Result : A "beep" can be heard.
"ON" stops flashing.
The TIMER indicator on the indoor unit lights up. (invalid for some models)

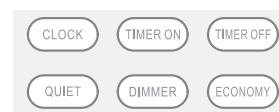


4. Timer will be displayed on the remote for 5 seconds and set time will reappear

◆ How to cancel TIMER ON?

Press the  button again.

Result : A "beep" can be heard and the indicator disappears, the time on mode has been canceled.

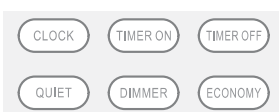


Note: It is similar to set **TIMER OFF**, you can make the appliance switch off automatically at your desired time.

QUIET mode

In this mode, the air conditioner unit work with low noise performance.

Note: Press **MODE.FAN.SMART. SURGE** button cancel **QUIET** mode.



OPERATION

Remote Control

ECONOMY mode

In this mode, the air conditioner will bring you energy saving performance by lower running current.

Note:

ECONOMY button is ineffective in SMART, SURGE and Power control mode.

Press ON/OFF , MODE ,TEMP Δ ,TEMP Δ , FAN , SLEEP , QUIET or ECONOMY button cancel ECONOMY mode.

Press and hold “ QUIET ” button and “ ECONOMY ” button together for 3 seconds will alternate the mode between the cooling only and the cooling and heating.

IFEEL mode

The built temperature sensor will sense the surrounding temperature, and transmit this back to the unit. This temperature will be your set point until you make another adjustment to the set point.

◆ How to set IFEEL mode ?

Press the  button.

Result : The transmit signal in the display will appear, and the IFEEL function will be started.



Note:

Place remote in a location where the signal will be well received by unit.

IFEEL should be used to adjust room temperature for momentary comfort.

To get the best efficiency from your system allow the unit to operate at a set point.

This will allow the system to fluctuate with the changing room loads.

◆ How to cancel IFEEL mode?

Press the  button once again.

Result : The transmit signal in the display will disappear, and the IFEEL function will be shut off.



Note:

If IFEEL function fails to cancel, try holding button for 5 seconds.

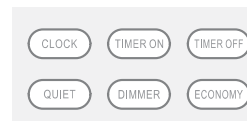
Dimmer button

◆ How to set the DIMMER ?

Press the  button to turn off the light and the display in the unit.

Note:

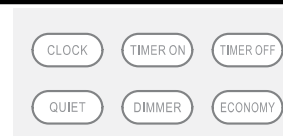
If light is set to off a request from the remote to change a function will turn it on again. User will need to turn it off if that is the desired condition.



LOCK mode

◆ How to set LOCK ?

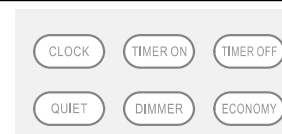
Press  and  buttons together for 2 seconds to start LOCK mode. The lock indicator appears on the display



Press together
for 2 seconds

◆ How to cancel LOCK ?

Press  and  buttons together for 2 seconds to stop LOCK mode. The lock indicator disappears .



Press together
for 2 seconds

OPERATION

Remote Control

SLEEP mode

SLEEP mode can be set in **COOLING** ,**HEATING** or **DRYING** mode.

This function gives you a more comfortable environment for sleep.

- The appliance will stop operation automatically after operating for 8 hours.
- Fan speed is automatically set at low speed.

◆ How to set SLEEP mode ?

Each time  button is pressed.

Result : The operation mode is changed in sequence:



SLEEP mode 1:

- Set temperature will rise by 2°F at most if the appliance operates in cooling mode for 2 hours constantly, then keeps steady.
- Set temperature will decrease by 2°F at most if the appliance operates in heating mode for 2 hours constantly, then keeps steady.

SLEEP mode 2:

- Set temperature will rise by 2°F if the appliance operates in cooling mode for 2 hours constantly, decrease by 1°F after 6 hours, then decrease by 1°F after 7 hours.
- Set temperature will decrease by 2°F if the appliance operates in heating mode for 2 hours constantly, rise by 1°F after 6 hours, then rise by 1°F after 7 hours.

SLEEP mode 3:

- Set temperature will rise by 1°F if the appliance operates in cooling mode for 1 hour , rise by 2°F after 2 hours, then decrease by 2°F after 6 hours, decrease by 1°F after 7 hours.
- Set temperature will decrease by 2°F if the appliance operates in heating mode for 1 hour , decrease by 2°F after 2 hours, then rise by 2°F after 6 hours, rise by 2°F after 7 hours.

SLEEP mode 4:

- Set point will remain steady.

Note: Press **SURGE** ,**SMART**, **MODE** or **FAN** button cancel **SLEEP** mode.

Note: By pressing "Sleeping mode" four times, or selecting other modes like **SURGE**, **SMART**, OR **FAN**, you could cancel the sleeping function of those units without four sleeping curves.

Note: Heating is **NOT** available for cooling only air conditioner.

OPERATION

Unit Function

1. Function and Control

1.1 Control mode

1) Cooling Anti-freeze Protection

To prevent freezing caused by low temperature of indoor evaporator, the air conditioner will implement real-time detection over the indoor coil temperature. If the indoor coil temperature is too low, the compressor will be prohibited from increasing or decreasing the frequency and even shut down automatically.

2) Heating Overload Protection

To prevent system overload caused by excessive pressure in heating operation, the machine will implement real-time detection over the indoor fan-coil temperature:

If the indoor coil temperature rises too high, the compressor will be prohibited from increasing the frequency; If the temperature continues to rise, the compressor will decrease the frequency; If the indoor coil temperature is too high, the compressor will stop working immediately. The compressor then will reboot after the indoor coil temperature reduces.

3) Cooling Overload Protection

To prevent system overload due to excessive pressure during cooling operation, the machine will implement real-time detection over the outdoor condenser coil temperature:

If the outdoor coil temperature grows higher, the compressor will be prohibited from increasing the frequency; If the temperature continues to rise, the compressor will decrease the frequency; If the outdoor fan-coil temperature is too high, then the compressor will stop working immediately. The compressor will reboot after the outdoor coil temperature reduces.

4) Discharge Temperature Protection

To prevent working conditions of compressor from deteriorating due to high discharge temperature, the machine will implement real-time detection over the discharge temperature.

If the discharge temperature grows higher, the compressor will be prohibited from increasing the frequency; if the temperature continues to rise, the compressor will decrease the frequency automatically; if the discharge temperature is too high, the compressor will stop working immediately. The compressor will then reboot when the discharge temperature returns to normal condition.

5) Oil-return Control

When the compressor continues to operate at low frequency, there will be an oil return. The compressor increases the frequency, and thus returns the oil through the refrigerant system to the compressor.

6) Operation Mode

a. Mode Category

Air conditioning mode is the operation mode set by users through remote control, four modes are available: cooling, heating, dehumidification, as well as fan mode.

OPERATION

Unit Function

b. Mode conflict

The operating mode of outdoor unit is decided by the operating mode of the indoor unit booted first. Indoor unit subsequently booted will firstly determine whether it's own mode is in conflict with the outdoor mode. If so, the indoor unit will automatically shut down after three beeps; If there is no conflict, the indoor unit will boot normally. The relationship of mode conflict is as follows:

Driven choice Active mode	Cooling	Dehumidification	Heating	fan
Cooling	√	√	×	√
Dehumidification	√	√	×	√
Heating	×	×	√	×
Fan	√	√	×	√

√———Mode conflict will not happen

×———Mode conflict will happen

7) Outdoor four-way Valve Control

Four-way valve of the outdoor machine shuts down when cooling but starts when heating. The operation of heating defrosting refers to defrosting operation and, when the heating remote shutdown, the four-way valve disconnects in 50s when the compressor stops working.

8) Start-up Protection

To prevent compressor from restart frequently in the condition that system pressure has not been completely balanced, it can't be restarted within 3 minutes.

9) Pressure Protection

Pressure switch is normally kept open. If the pressure exceeds the high setpoint, the pressure switch will close and software will enter pressure protection control. Software will automatically decrease the frequency. If the pressure is still unable to return to normal condition after decreasing frequency, compressor will stop and report the fault code of pressure protection.

OPERATION

Unit Function

1.2 Control Logic Description

Contents

- 1) Sensors in HVAC Systems
 - 1.1 Discharge temperature sensor
 - 1.2 Suction sensor
 - 1.3 Outdoor coil temperature sensor
 - 1.4 Outdoor ambient temperature sensor
 - 1.5 Defrosting sensor
 - 1.6 Gas tube sensor
 - 1.7 Liquid tube sensor
- 2) Compressor Frequency Control
 - 2.1 Compressor frequency control
- 3) Electronic Expansion Valve Control
 - 3.1 Opening control during powering on
 - 3.2 Control of electronic expansion valves during cooling
 - 3.3 Control of electronic expansion valves during heating
- 4) Indoor/Outdoor Fan Speed Control
 - 4.1 Speed control in cooling mode
 - 4.2 Speed control in heating mode
- 5) Defrost Control
 - 5.1 Frosting judgment criteria
 - 5.2 Defrost control entry
 - 5.3 Defrost end conditions
- 6) System Protection
 - 6.1 Exhaust protection/overload cooling/overload heating/anti-freezing during cooling
 - 6.2 Compressor current protection
- 7) Other Control Modes

OPERATION

Unit Function

1) Sensors in HVAC Systems

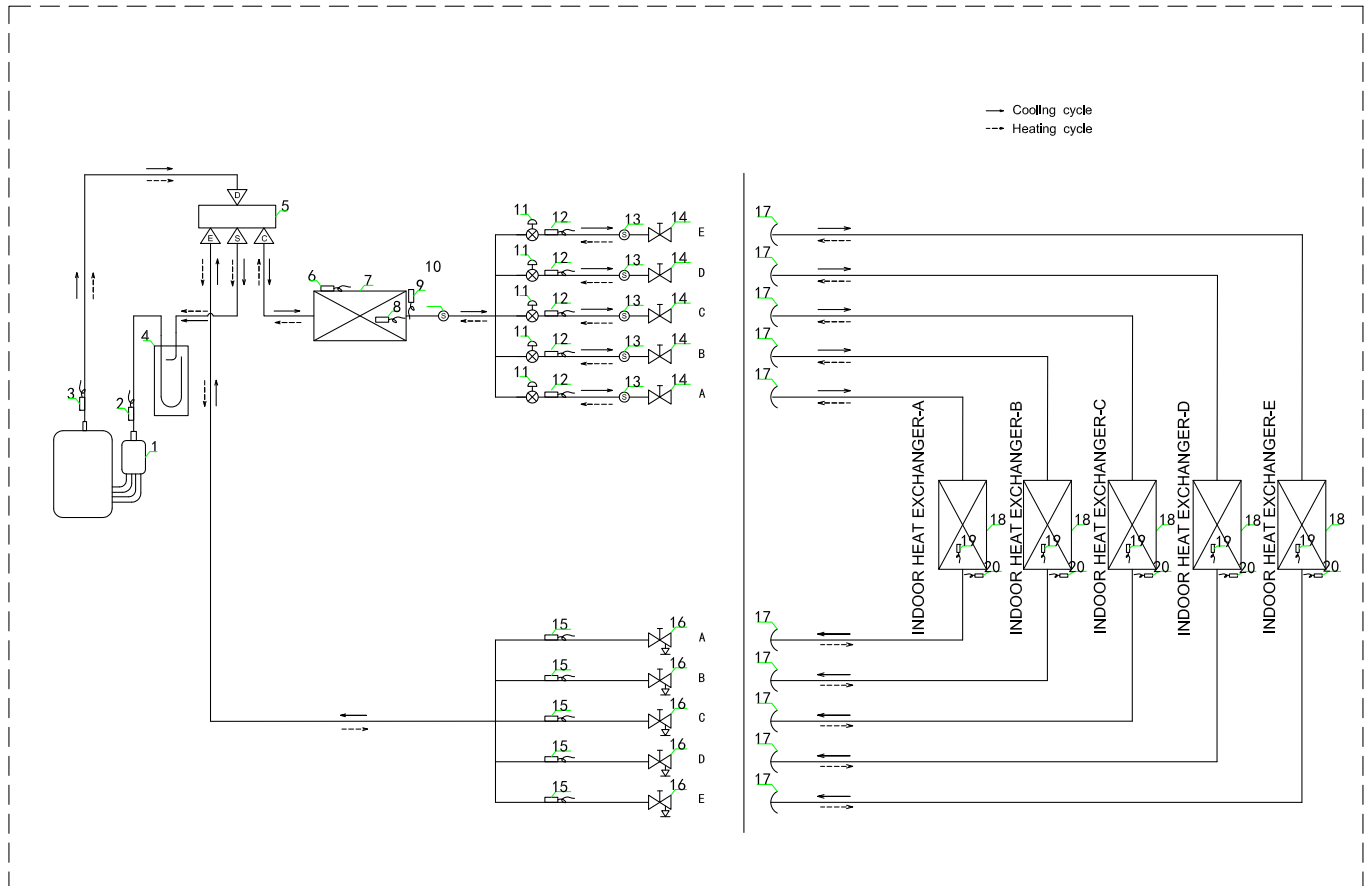


Figure 303

List of component names					
8	Coil temperature sensor	16	Stop valve(Needle)		
7	Outdoor heat exchanger	15	Liquid tube temperature sensor		
6	Ambient temperature sensor	14	Stop valve		
5	4-Way valve	13	Strainer		
4	Gas-Liquid separator	12	Gas tube temperature sensor	20	Ambient temperature sensor
3	Discharge temperature sensor	11	Electronic expansion valve	19	Coil temperature sensor
2	Suction temperature sensor	10	Strainer	18	Indoor heat exchanger
1	Two-rotor compressor	9	Frost temperature sensor	17	Hexagon nut
No.	Description	No.	Description	No.	Description

a. Discharge temperature sensor

It is designed to detect and control the temperature at the compressor discharge port. When the discharge temperature is too high, the compressor will run at low frequency or shut down.

b. Suction sensor

It is designed to detect the temperature of the compressor suction port to calculate the suction superheat (SSH).

OPERATION

Unit Function

c. Outdoor coil temperature sensor

It is designed to detect the temperature in the middle of the outdoor condenser. When the temperature is too high, the compressor will run at low frequency or shut down. Additionally, it is used to:

1. In cooling mode, detect the coil temperature to calculate the superheat and control the opening of the electronic expansion valve;
2. In cooling mode, execute the system overload control;
3. In heating mode, detect the temperature and control defrost entry

d. Outdoor ambient temperature sensor

It is designed to perform initial control for the outdoor fan, constrain current, and determine low-temperature cooling

e. Defrosting sensor

It is designed to determine defrost entry and exit, and calculate the superheat

f. Gas tube sensor

It is to regulate the electronic expansion valve for cooling and heating

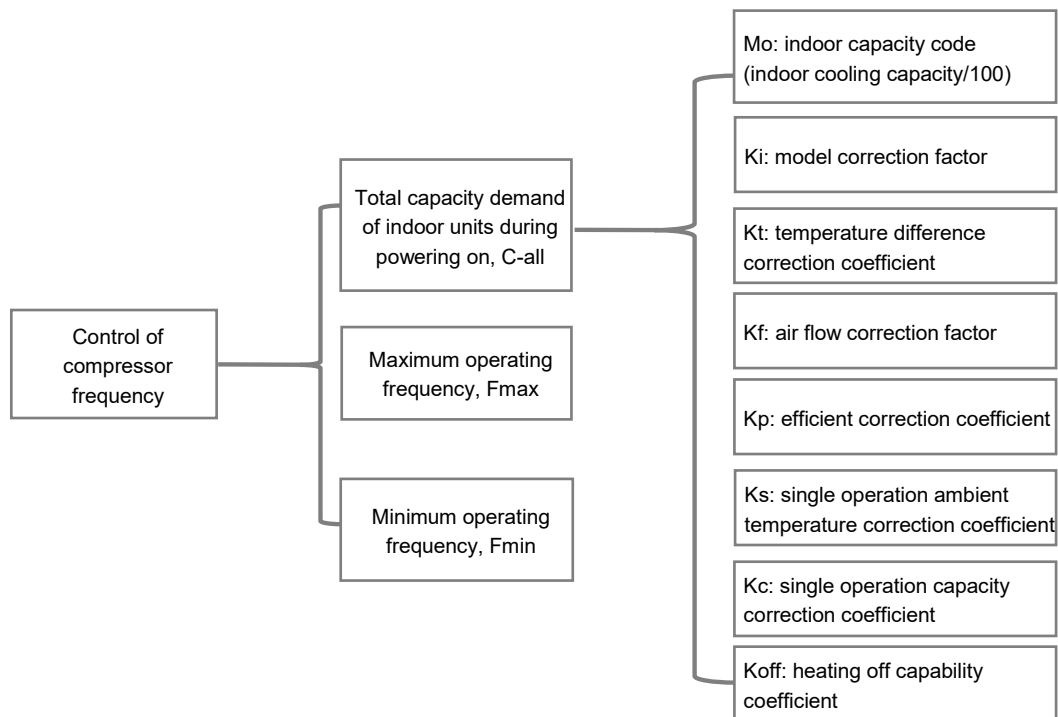
g. Liquid tube sensor

It is designed to regulate the electronic expansion valve for cooling and heating and control the correction of the expansion valve

2) Compressor Frequency Control

a. Compressor frequency control

The compressor's frequency is controlled using a proportional algorithm, which is proportional to the total demand of the internal units.



OPERATION

Unit Function

3) Electronic Expansion Valve Control

a. Opening control during powering on

Reset: Each time the power is turned on or the compressor is turned off, the electronic expansion valves close to the minimum opening and then open to the opening in standby mode in turn.

Initial opening: After powering on, the electronic expansion valve enters the initial opening first, and then regulation control only after operating for some time.

Note: When the cooling or heating is to be turned on and operating, if the power is accidentally disconnected, the cooling will fail to be turned on, the electronic expansion valve of the internal unit will be closed, and the refrigerant will not be discharged from the tube; the heating will fail to be turned on, and the electronic expansion valve of the heating part will have a certain degree of opening.

b. Control of electronic expansion valves during cooling

When cooling is enabled, the indoor units are controlled by referring to the evaporation superheat.

When no unit is turned on, all electronic expansion valves close fully, and no refrigerant is allowed to pass through.

After the compressor is turned on for some time, the DSH control is enabled to correct the electronic expansion valve.

c. Control of electronic expansion valves during heating

When heating is enabled, the indoor units are controlled by referring to the superheat:

When no unit is turned on, the opening of the electronic expansion valves is controlled to the minimum value, and only a small amount of refrigerant is allowed to pass through.

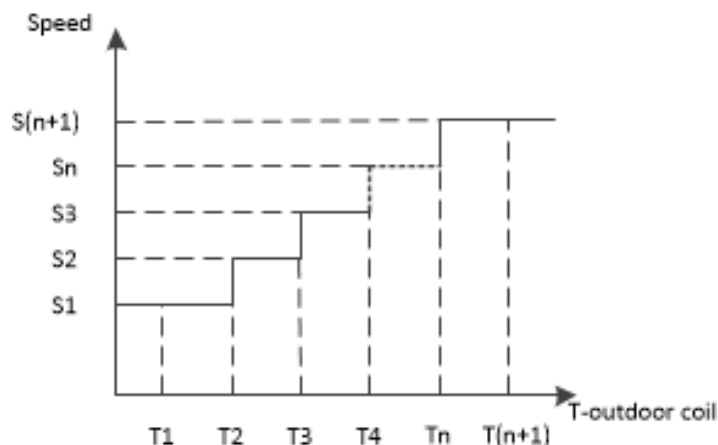
After the compressor is turned on for some time, the DSH control is enabled to correct the electronic expansion valve.

4) Indoor/Outdoor Fan Speed Control

The outdoor fan is equipped with a DC motor with multiple air speed gears. During cooling, the initial wind speed should be determined first based on the external temperature and maintained for 1 minute before normal control.

a. Speed control in cooling mode

In cooling mode, the higher the outdoor ambient temperature, the greater the initial outdoor air speed; different initial speed gears are set according to the different outdoor ambient temperatures.

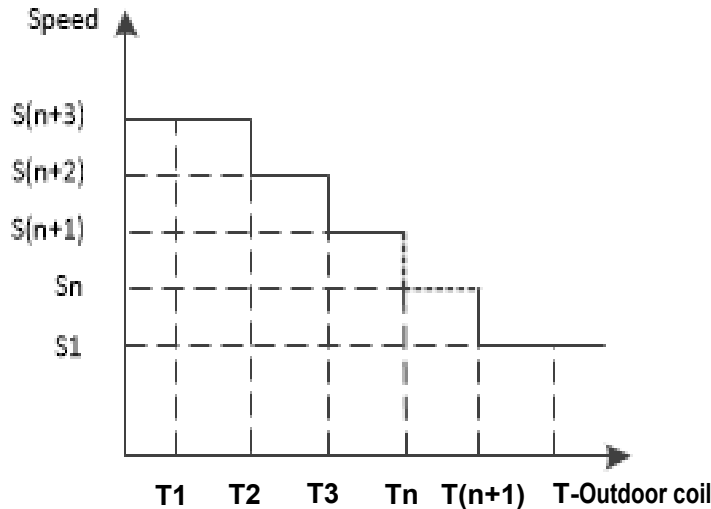


OPERATION

Unit Function

b. Speed control in heating mode

In heating mode, the lower the outdoor ambient temperature, the higher the initial outdoor air speed; different initial speed gears are set according to the different outdoor ambient temperatures.



5) Defrost Control

a. Frosting judgment criteria

After the compressor has been operating continuously for a certain time, software will determine if defrost conditions are met based on the outdoor ambient temperature and outdoor coil temperature. If these temperatures reach the preset value, and it operates for a certain time, it will be judged that frost has formed.

b. Defrost control entry

Stop the compressor first, turn off indoor and outdoor fans simultaneously, adjust the electronic expansion valve to an opening of defrosting, close the four-way valve, and start the compressor to defrost frequency for defrosting.

c. Defrost end conditions

Condition 1: Defrosting has been running for a certain time (the time is set by the memory)

Condition 2: T outdoor coil is $\geq$ preset temperature for 30s

When any of the above conditions is met, it is judged that the frost has been completely removed.

6) System Protection

a. Exhaust protection/overload cooling/overload heating/anti-freezing during cooling

Shutdown control: When the temperature exceeds the shutdown temperature for 10 seconds, shutdown control will be enabled, and a fault code will be displayed.

Frequency reduction control: When the temperature exceeds the frequency reduction temperature, the compressor first reduces the frequency and detects it every few minutes.

If frequency reduction is required, the frequency will be reduced by 5 Hz; if frequency reduction is not required, frequency reduction control will be disabled.

Frequency limiting control: When the temperature rises or falls to the frequency limiting temperature, the frequency of the compressor can only be reduced, not be increased.

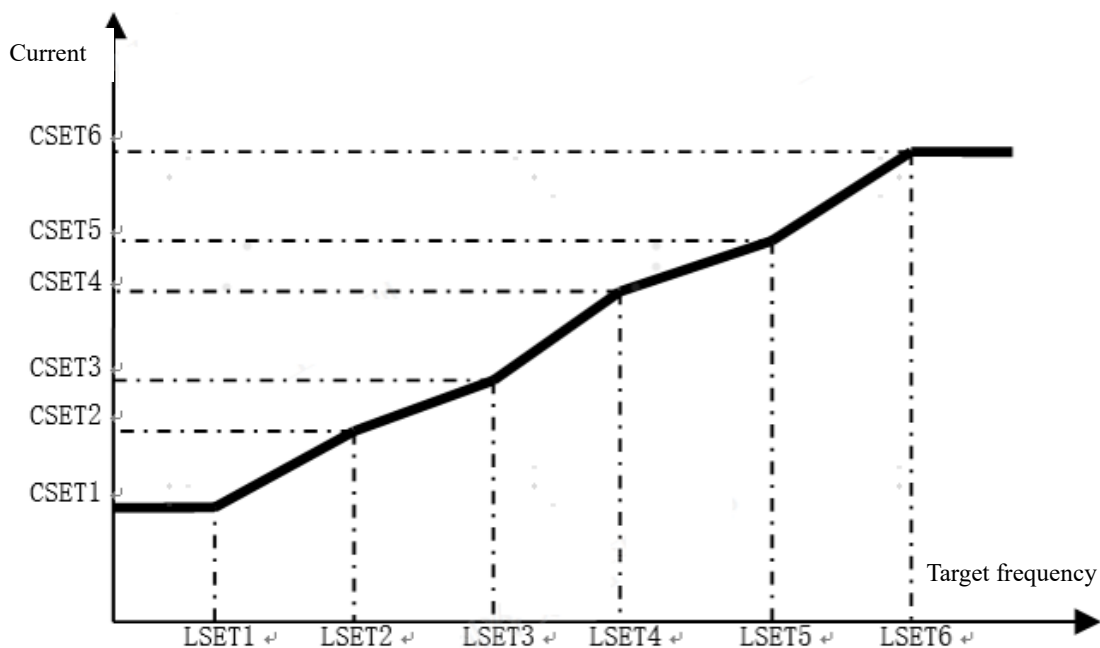
OPERATION

Unit Function

Category	Exhaust	Overload cooling	Overload heating	Anti-freezing during cooling
Frequency limiting temperature	Td1	Trl1	Thl1	Tf1
Frequency reduction temperature	Td2	Trl2	Thl2	Tf2
Shutdown temperature	Td13	Trl3	Thl3	Tf3
Remark	Frequency limiting – frequency reduction – shutdown temperature, exhaust temperature increases in sequence	Frequency limiting – frequency reduction – shutdown temperature, overload cooling temperature increases in sequence	Indoor unit shutdown shielding; frequency limiting – frequency reduction – shutdown temperature, overload heating temperature increases in sequence	Frequency limiting – frequency reduction – shutdown temperature, anti-freezing temperature during cooling decreases in sequence

b. Compressor current protection

The outdoor unit has different current protection value settings for different target frequencies.



OPERATION

Field Settings

DIP setting

DIP Switch Setting of Outdoor Unit

TURN ON all power sources before setting.

Mark of "■" indicates the position of DIP switches.

S5 Dip switch setting		S4 Dip switch setting	
Factory setting		Factory setting	
Capacity: silence		Pump Down Switch	
Cooling Only		Forced defrosting	

1. Force defrosting mode

By default setting is OFF.

OFF -- Automatic defrosting mode

ON ---- Manual defrosting mode

Operation is valid when the dial is switched from OFF to ON state.

OPERATION:

When the outdoor unit runs in heating mode, and the dial is switched from OFF to ON, then it will run the manual defrosting mode once.

2. Silence mode

By default setting is OFF.

OFF ----Normal mode.

ON---- Silence mode

Operation is valid when the dial is ON.

Silence mode:

Under the silence mode, the outdoor unit fan will run in medium fan speed at most.

3. Pump down mode

Actions :

The compressor runs with the target frequency, and without any protection when frequency rises; The EEV runs with setting opening; Outdoor unit fan will run with the set fan speed.

Operation procedures:

The thermostat is turned off during the whole process.

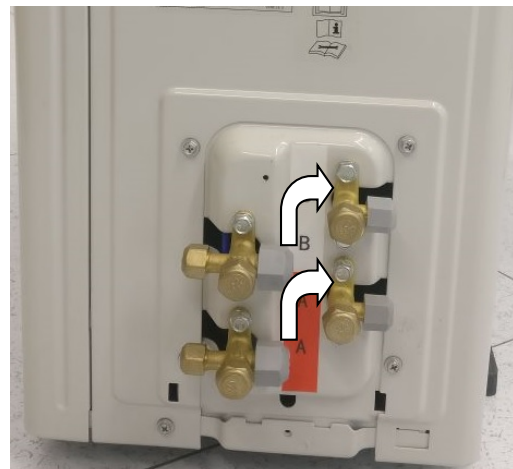
Please power off before operation.

Step 1:

Open the wiring cover on the right side of the machine.

Step 2:

Close all the stop valves of the liquid piping with an Allen wrench in a clockwise direction.



OPERATION

Field Settings

Step 3:

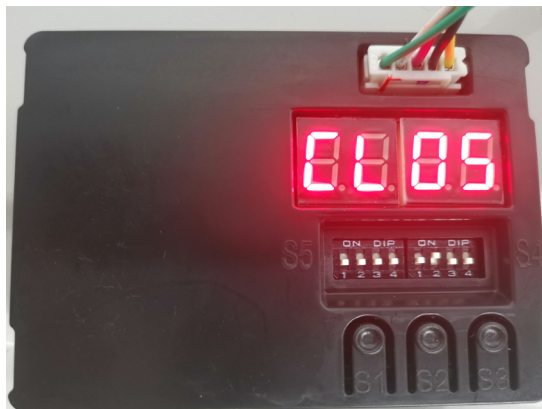
Switch on the machine power.

Step 4:

Switch S4-2 to ON position on the checker board, the outdoor unit starts, and the current frequency value is displayed on the LED digital tube of the checker board.

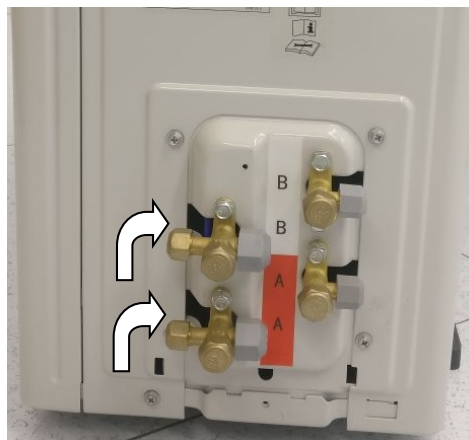
Step 5:

The frequency value will keep changing until "CLOS" is displayed on the LED digital tube of the checker board, then please check whether the liquid stop valve is closed.



Step 6:

When "GOOD" is displayed on the LED digital tube of the checker board, please close all the stop valves of the gas piping with an Allen wrench in a clockwise direction within 10s.



Step 7:

Cut off machine power and the procedure for recovering refrigerant is finished.

4. Cooling only mode

By default setting is OFF.

OFF ----Cooling only mode is invalid.

ON---- Cooling only mode

Operation is valid when dial is switched from OFF to ON state before power on.

Cooling only mode

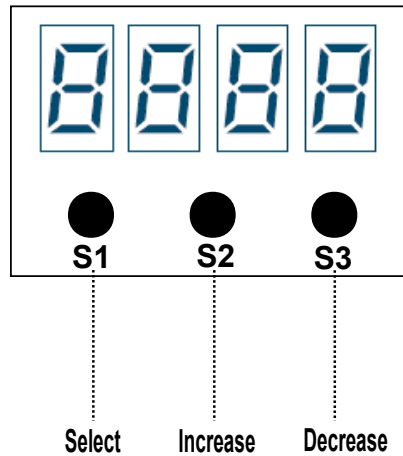
Heating mode is invalid during this mode.

OPERATION

Field Settings

Running Parameter Query

For up to 3 IDUs/ up to 4 IDUs/ up to 5 IDUs series, outdoor running parameters can be checked by 7 segment display.



There are 3 buttons on the digital display board:

1) Select button: Select to display outdoor/indoor unit parameter.

- "P." -- Parameter of outdoor unit
- "A." -- Parameter of indoor unit A
- "b." -- Parameter of indoor unit B
- "C." -- Parameter of indoor unit C
- "d." -- Parameter of indoor unit D
- "E." -- Parameter of indoor unit E

2) INCREASE button: Each time it is pressed, the number rises by 1.

3) DECREASE button: Each time it is pressed, the number lowers by 1.

The parameter content will automatically display after the parameter code is selected for 3s.

Parameters can be checked as the table below.

Parameter Code	Descriptions	Parameter Code	Descriptions
P.0	Fault codes	A.1	Unit A fault codes
P.1	Compressor actual frequency	A.2	Unit A valve actual opening
P.2	Compressor driving frequency	A.4	Unit A liquid pipe temperature
P.4	Compressor target frequency	A.5	Unit A gas pipe temperature
P.5	Compressor exhaust temperature	A.6	Unit A coil temperature
P.6	Outdoor suction Temperature	A.7	Unit A ambient temperature
P.7	Outdoor ambient temperature	A.8	Unit A set temperature
P.8	Outdoor coil temperature	A.9	Unit A capacity
P.9	Outdoor defrosting temperature	A.10	Unit A set fan speed
P.10	IPM module temperature	A.11	Unit A actual suction overheating (cooling)
P.11	Outdoor capacity requirement	B.1	Unit B fault codes
P.12	IPM fault codes	B.2	Unit B valve actual opening
P.13	Outdoor DC Motor target speed	B.4	Unit B liquid pipe temperature
P.14	AC input current	B.5	Unit B gas pipe temperature
P.15	AC input voltage	B.6	Unit B coil temperature
P.16	DC bus voltage	B.7	Unit B ambient temperature
P.17	Compressor phase current	B.8	Unit B set temperature
P.18	Frequency limit code	B.9	Unit B capacity
P.20	Target suction overheating	B.10	Unit B set fan speed
P.21	Target exhaust overheating	B.11	Unit B actual suction overheating (cooling)
P.22	Actual suction overheating (heating)		
P.23	Actual exhaust overheating (heating)		

OPERATION

Field Settings

Parameter Code	Descriptions	Parameter Code	Descriptions
C.1	Unit C fault codes	E.1	Unit E fault codes
C.2	Unit C valve actual opening	E.2	Unit E valve actual opening
C.4	Unit C liquid pipe temperature	E.4	Unit E liquid pipe temperature
C.5	Unit C gas pipe temperature	E.5	Unit E gas pipe temperature
C.6	Unit C coil temperature	E.6	Unit E coil temperature
C.7	Unit C ambient temperature	E.7	Unit E ambient temperature
C.8	Unit C set temperature	E.8	Unit E set temperature
C.9	Unit C capacity	E.9	Unit E capacity
C.10	Unit C set fan speed	E.10	Unit E set fan speed
C.11	Unit C actual suction overheating (cooling)	E.11	Unit E actual suction overheating (cooling)
D.1	Unit D fault codes		
D.2	Unit D valve actual opening		
D.4	Unit D liquid pipe temperature		
D.5	Unit D gas pipe temperature		
D.6	Unit D coil temperature		
D.7	Unit D ambient temperature		
D.8	Unit D set temperature		
D.9	Unit D capacity		
D.10	Unit D set fan speed		
D.11	Unit D actual suction overheating (cooling)		

Note : The right is therefore reserved to EE changing without notice.

OPERATION

Field Settings

2.2 Test Run

Test run should be performed after refrigerant piping, drain, wiring, etc. have been finished.



The heat pump air conditioner is provided with a crankcase heater. If ambient temperature is below 32°F(0°C), check to ensure that the switch on the main power source has been ON for more than 6 hours ahead of power on preheating, otherwise it might damage the compressor!

Do not operate the system until all the check points have been cleared.

- (A) Check to ensure that the stop valves of the outdoor unit are fully opened.
- (B) Check to ensure that the electric wires have been fully connected.
- (C) Check to ensure that the electrical resistance is more than 2MΩ, by measuring the resistance between ground and the terminal of the electrical parts. If not, do not operate the system until the electrical leakage is found and repaired.

Test run function identification

Operate the thermostat to turn ON the appliance, and then proceed test run.

Pay attention to the following items while the system is running.

Do not touch any of the parts by hand at the discharge gas side, since the compressor chamber and the pipes at the discharge side are heated higher than 194°F (90°C) .

- Turn off the power after test run is finished.

Installation of the appliance is generally finished after the above operations are done. If you still have any trouble, please contact Technical support (877) 599-5665

MAINTENANCE

Front panel and shell maintenance

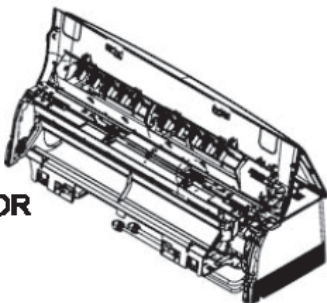
- 1 Cut off the power supply by moving the power switch in the direction of the arrow.

Note: Turn off the appliance first before cutting off the power supply.



2

Open the front panel and the front shell refer to Fig.9~Fig.12 of INDOOR UNIT INSTALLATION.



3

Wipe with a soft and dry cloth.

Use soft moisture cloth to clean if the front panel is very dirty.



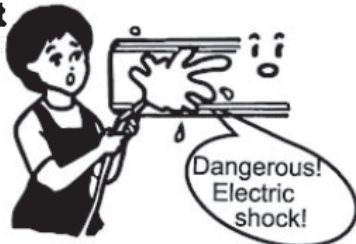
4

Never use volatile substance such as gasoline or polishing powder to clean the appliance.



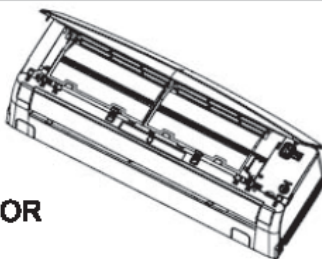
5

Never sprinkle water onto the indoor unit



6

Close the front panel and the front shell refer to Fig.22~Fig.26 of INDOOR UNIT INSTALLATION.



Air filter maintenance

It is necessary to clean the air filter after using it for about 200 hours.

Clean it as follows:

1

Stop the appliance and remove the air filter.



1. Open the front panel.
2. Press the handle of the filter gently from the front.
3. Grasp the handle and slide out the filter.

2

Clean and reinstall the air filter.

If the dirt is conspicuous, wash it with a solution of detergent in lukewarm water. After cleaning, dry well in shade.



3

Close the front panel again.

- Clean the air filter every two weeks if the air conditioner operates in an extremely dusty environment.

MAINTENANCE



The following is a deep cleaning and must be completed by a professional.



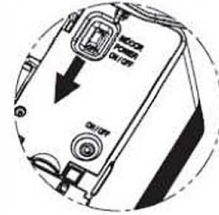
Users are strictly forbidden to operate privately, otherwise they will be at their own risk.

Front shell, air duct and fan maintenance

1

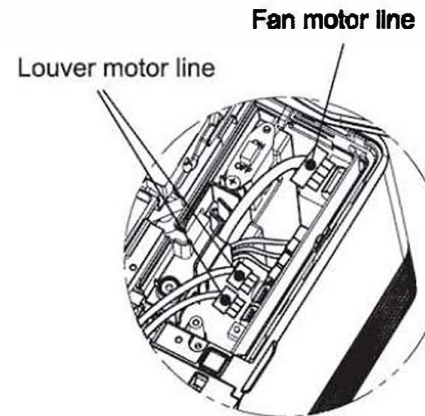
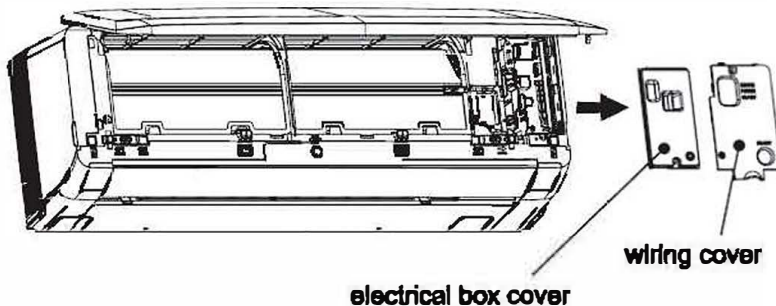
Cut off the power supply by moving the power switch in the direction of the arrow.

Note: Turn off the appliance first before cutting off the power supply.



2

1. Remove the wiring cover and the electrical box cover.
2. Disconnect the fan motor line and the louver motor line.

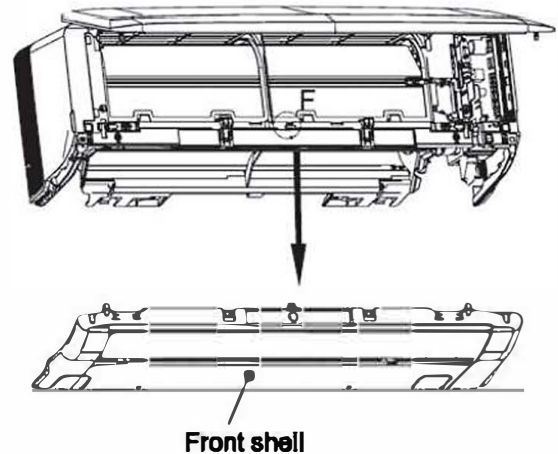
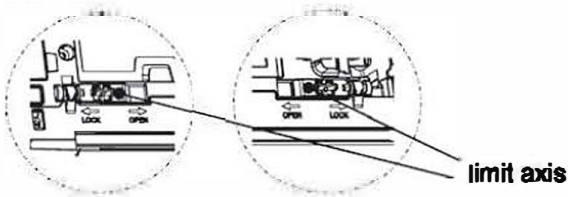


3

1. Open the screw covers and remove the screws refer to Fig.414 of INDOOR UNIT INSTALLATION.
2. Open the limit axes.
3. Remove the front shell for cleaning.

Note: Pay attention to the limit of F position, some models have two places.

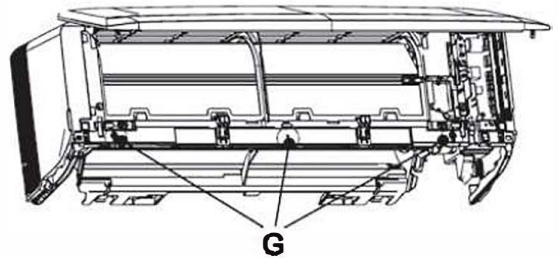
Note: when you want to clean the front shell with clean water, you must first remove all the motors on the front shell.



4

Remove the screws of the air duct (G position and H position)

Note: Some models do not have H position screws.



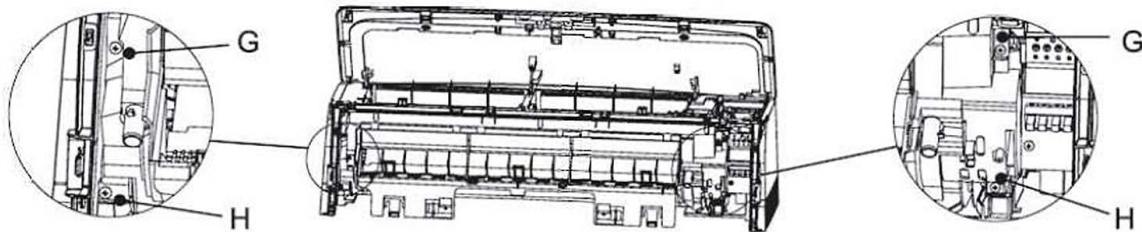
MAINTENANCE

-  The following is a deep cleaning and must be completed by a professional.
-  Users are strictly forbidden to operate privately, otherwise they will be at their own risk.

Front shell, air duct and fan maintenance

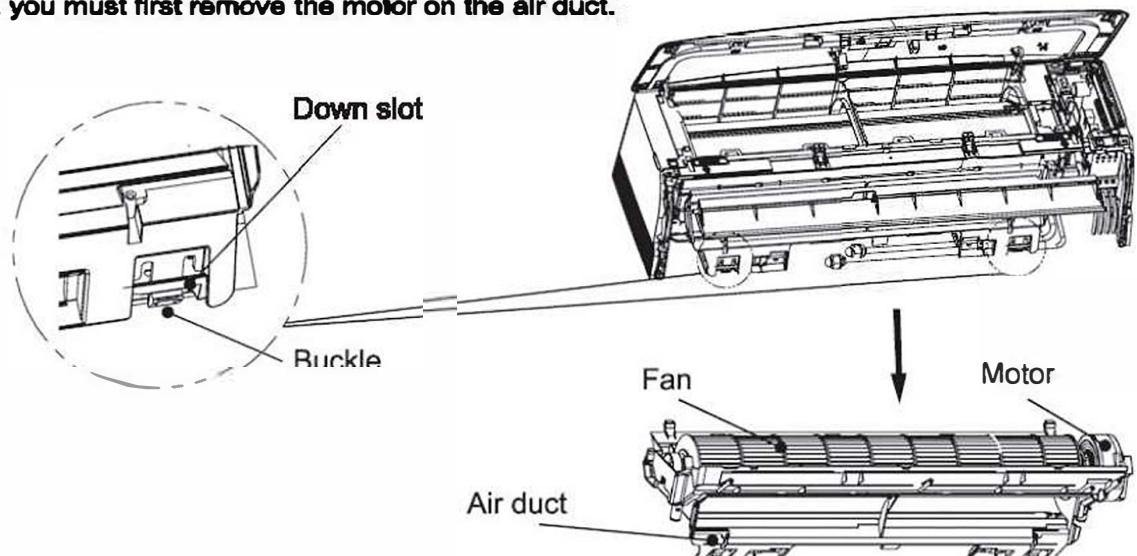
Remove the screws of the air duct. (G position and H position)

Note: Some models do not have H position screws.



- 5**
- 1. Press the 2 buckles of the air duct to disengage it from 2 down slots of the mounting plate.**
 - 2. Remove the air duct.**

Note: when you want to clean the air duct and the fan with clean water, you must first remove the motor on the air duct.



- 6**
- After cleaning, install the machine against the disassemble sequence.**

Note: If the front shell, the air duct and the fan are washed with water, they must be thoroughly dried before they can be installed.

TROUBLESHOOTING

Outdoor Unit

Basic Troubleshooting

Troubleshooting	Possible Reason of Abnormality	How to Deal With
Air conditioner does not start up	1. Power supply failure; 2. Trip of breaker or blown fuse 3. Power voltage is too low; 4. Improper setting of remote controller ; 5. Remote control is short of power.	1. Check power supply circuit; 2. Measure insulation resistance to ground to see if there is any leakage; 3. Check if there is a defective contact or leak current in the power supply circuit; 4. Check and set remote control again; 5. Change batteries.
The compressor starts or stops frequently	The air inlet and outlet has been blocked.	Remove blocking obstacles.
Poor cooling/heating	1. The outdoor heat exchanger is dirty, such as condenser; 2. There are heating devices indoors 3. The air tightness is not enough. People come in and out too frequently. 4. Block of outdoor heat exchanger; 5. Improper setting of temperature.	1. Clean the heat exchanger of the outdoor unit, such as condenser ; 2. Remove heating devices; 3. Keep certain air tightness indoors; 4. Remove blocking obstacles; 5. Check and try to set temperature again.
Sound from deforming parts	During system starting or stopping, a sound might be heard. However, this is due to thermal deformation of plastic parts.	It is not abnormal, and the sound will disappear soon.
Water leakage	1. Drainage pipe blocked or broken; 2. Wrap of refrigerant pipe joint is not closed completely.	1. Change drainage pipe. 2. Re-wrap and make it tight.

Table 501

TROUBLESHOOTING

Outdoor Unit

Diagnostic Codes _ Intro

How to check fault codes

Troubleshooting according to fault codes

When the air conditioner failure occurs, the fault code will display on control board, or maintenance board.

Outdoor unit

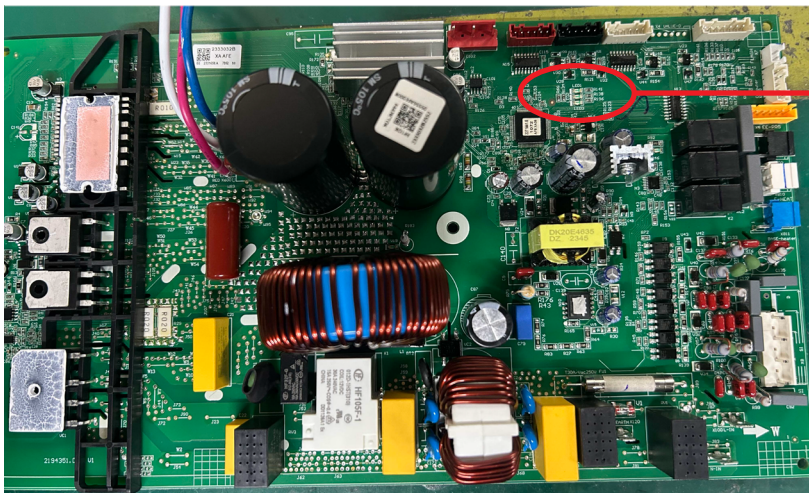
Fault code displayed by LED lamps on outdoor main control board.

There are 3 LED lamps on control board, LED1, LED2 and LED3.

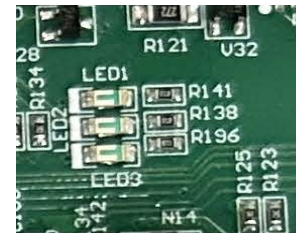
LED1 indicates fault code represented by 2-digit number, LED2 indicates fault code represented by single digit number and LED3 indicates outdoor drive control fault. When LED3 is off, LED1 and LED 2 indicate main control fault code.

When LED3 is on, LED1 and LED 2 indicate drive control fault code.

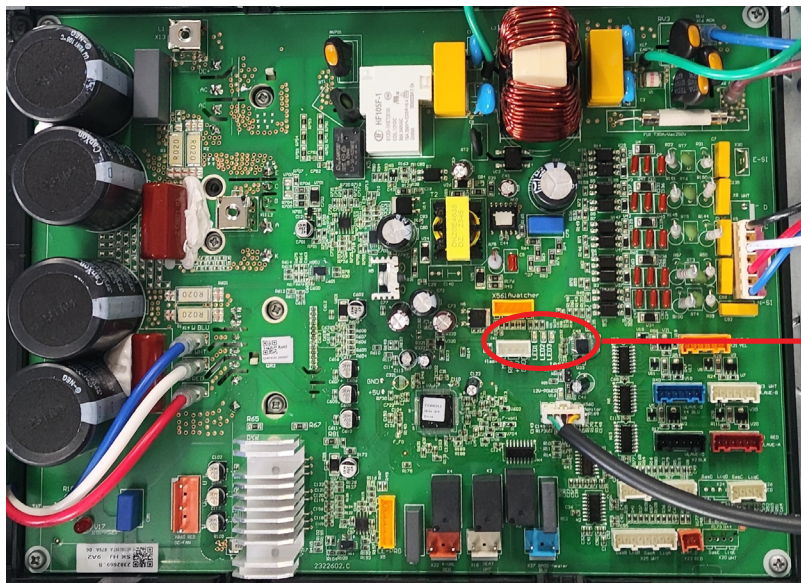
When LED3 is flickering and LED1, LED 2 are all off, indicate compressor is preheating. Failures display with 5s interval. It means LED will be off for 5s to report next fault code. System protection codes display method is the same with main control fault code. LED lamps will be off when there is no failure, protection or preheating.



Main Control Board 18K



LED1: Ten's place
LED2: Unit's place
LED3: Drive failure indicator



Main Control Board 27K



LED1: Ten's place
LED2: Unit's place
LED3: Drive failure indicator

Outdoor Unit

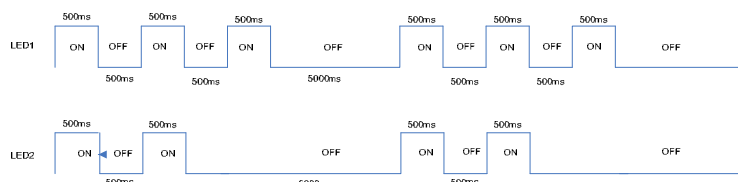
Diagnostic Codes _ Intro



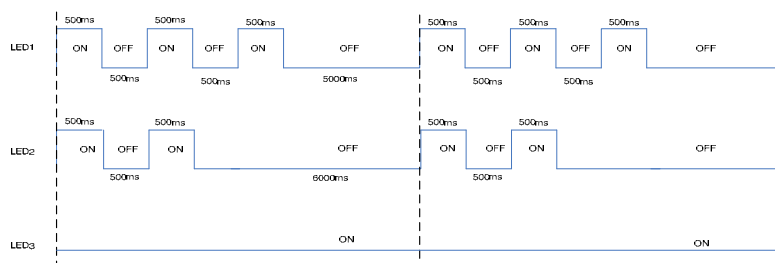
LED3: Ten's place
LED4: Unit's place
LED5: Drive failure indicator

Main Control Board 36K/42K

For example, outdoor main control fault 32:



For example, outdoor drive fault 32:



Fault codes also can be checked by 7 segment display on the maintenance board. Fault codes will display directly when fault occurs.



E shows failure occur

Display ERROR Code

Maintenance Board

TROUBLESHOOTING

Outdoor Unit

Diagnostic Codes _Main PCB

Fault code	Fault description	Possible reasons for abnormality	How to deal with
1	Outdoor ambient temperature sensor fault	1. The outdoor ambient temperature sensor is connected loosely. 2. The outdoor ambient temperature sensor fails to work. 3. The Main PCB sampling circuit fails.	1. Reconnect the outdoor ambient temperature sensor. 2. Replace the outdoor ambient temperature sensor components. 3. Replace the Main PCB.
2	Outdoor coil temperature sensor fault	1. The outdoor ambient temperature sensor is connected loosely; 2. The outdoor ambient temperature sensor fails to work; 3. The Main PCB sampling circuit fails.	1. Reconnect the outdoor ambient temperature sensor. 2. Replace the outdoor ambient temperature sensor components. 3. Replace the Main PCB.
3	The unit over-current shut down fault	1. Main PCB current sampling circuit fails; 2. The current is exceeding maximum limits high because the supply voltage is too low. 3. The compressor is blocked. 4. Overload in cooling mode; 5. Overload in heating mode."	1. Replace the Main PCB. 2. Normal protection, Check supply power. 3. Replace the compressor. 4. Please see Table 702 5. Please see Table 703.
4	EEprom Data error	1. EE components fails; 2. EE components control circuit fails; 3. EE components are inserted incorrectly."	1. Replace the Main PCB.
5	Cooling freezing protection (the indoor coil temperature is too low) or heating overload (indoor coil temperature is too high)	1. The indoor unit airflow abnormal. 2. The room temperature is too low in cooling mode or the room temperature is too high in heating. 3. The filter is dirty. 4. The duct resistance is too high to result in low air flow. 5. The fan speed setting is too low. 6. The indoor unit is not installed in accordance with the installation standards, and the air inlet is too close to the air outlet .	1. Check whether the indoor fan, indoor fan motor and evaporator work normally. 2. Normal protection. 3. Clean the filter. 4. Check the volume control valve, duct length etc. 5. Set the fan speed to high. 6. Reinstall the indoor unit referring to the user manual to change the distance between the indoor unit and the wall or ceiling.
7	The communication fault between the indoor unit and outdoor unit	1. The communication cable is connected improperly between the indoor unit and outdoor unit. 2. The communication cable is connected loosely. 3. The communication cable fails. 4. The indoor control board fails. 5. The outdoor control board fails; 6. Communication circuit fuse open. 7. The specification of communication cable is incorrect."	1. Reconnect the communication cable referring to the wiring diagram. 2. Reconnect the communication cable. 3. Replace the communication cable. 4. Replace the indoor control board; 5. Replace the outdoor control board. 6. Check the communication circuit, adjust the DIP switch and the short-circuit fuse. 7. Ensure communication cable is 4 X 14 AWG.
13	Compressor overheat protector device	1. The wiring of the overload protector is connected loosely. 2. The overload protector fails . 3. The refrigerant is low. 4. The installation pipe is much longer than the normal one, but extra refrigerant is not added ; 5. The expansion valve fails; 6. The outdoor Main PCB has failed.	1. Reconnect the wiring of the overload protector; 2. Replace the overload protector. 3. Using an A2L approved leak detector, Check the braze points of the unit to confirm there are no leaks, then recharge the refrigerant; 4. Add the refrigerant, refer to refrigerant Charging methods. 5. Replace expansion valve. 6. Replace the outdoor Main PCB.
14	The high pressure switch operation or the unit is turned off for high pressure protection	1. The wiring of the high pressure protector is connected loosely. 2. The high pressure protector fails; 3. The outdoor Main PCB has malfunctioned. 4. Overload in cooling; 5. Overload in heating."	1. Reconnect the wiring of the high pressure protector. 2. Replace the high pressure protector. 3. Replace the Main PCB. 4. Please refer to NOTE 3. 5. Please refer to NOTE 4.
16	Overload protection in cooling mode	System overload	Please refer to NOTE 3.
17	Discharge temperature sensor fault	1. The wiring of the discharge temperature sensor is connected loosely. 2. The discharge temperature sensor fails; 3. The Main PCB sampling circuit is abnormal."	1. Reconnect the wiring of the discharge temperature sensor. 2. Replace the discharge temperature sensor. 3. Replace the outdoor Main PCB.

Table 502

TROUBLESHOOTING

Outdoor Unit

Diagnostic Codes _Main PCB

Fault code	Fault description	Possible reasons for abnormality	How to deal with
18	AC voltage is abnormal	1. The AC voltage>275V or <160V; 2. The AC voltage of sampling circuit on the driver board is abnormal.	1. Normal protection, please check the supply power; 2. Replace the driver board.
19	Suction temperature sensor fault	1. The wiring of the suction temperature sensor is connected loosely. 2. The suction temperature sensor fails. 3. The Main PCB sampling circuit is abnormal.	1. Reconnect the wiring of the suction temperature sensor; 2. Replace the suction temperature sensor; 3. Replace the outdoor Main PCB.
22	The defrosting sensor fault	1. The wiring of the suction temperature sensor is connected loosely. 2. The suction temperature sensor fails. 3. The Main PCB sampling circuit is abnormal.	1. Reconnect the wiring of the suction temperature sensor; 2. Replace the suction temperature sensor; 3. Replace the outdoor Main PCB.
23	Expansion valve A (liquid) pipe sensor fault	1. The wiring of the sensor for the expansion valve A(liquid pipe) is connected loosely; 2. The sensor for the expansion A (liquid pipe) fails; 3. The Main PCB sampling circuit is abnormal."	1. Reconnect the wiring of the sensor for the expansion valve A (liquid pipe); 2. Replace the sensor for the expansion valve A (liquid pipe); 3. Replace the outdoor Main PCB.
24	Expansion valve B (liquid) pipe sensor fault	1. The wiring of the sensor for the expansion valve B(liquid pipe) is connected loosely; 2. The sensor for the expansion B (liquid pipe) fails; 3. The Main PCB sampling circuit is abnormal."	1. Reconnect the wiring of the sensor for the expansion valve B (liquid pipe); 2. Replace the sensor for the expansion valve B (liquid pipe); 3. Replace the outdoor Main PCB.
25	Expansion valve C (liquid) pipe sensor fault	1. The wiring of the sensor for the expansion valve C(liquid pipe) is connected loosely; 2. The sensor for the expansion C (liquid pipe) fails; 3. The Main PCB sampling circuit is abnormal."	1. Reconnect the wiring of the sensor for the expansion valve C (liquid pipe); 2. Replace the sensor for the expansion valve C (liquid pipe); 3. Replace the outdoor Main PCB.
26	Expansion valve D (liquid) pipe sensor fault	"1. The wiring of the sensor for the expansion valve D (liquid pipe) is connected loosely; 2. The sensor of the expansion valve D (liquid pipe) fails; 3. The sampling circuit fails."	"1. Reconnect the wiring of the sensor for the expansion valve D (liquid pipe); 2. Replace the sensor for the expansion valve D (liquid pipe); 3. Replace the outdoor control board."
27	Expansion valve A (gas pipe) sensor fault	1. The wiring of the sensor for the expansion valve A (gas pipe) is connected loosely; 2. The sensor of the expansion valve A (gas pipe) fails; 3. The Main PCB sampling circuit fails."	1. Reconnect the wiring of the sensor for the expansion valve A (gas pipe); 2. Replace the sensor for the expansion valve A (gas pipe); 3. Replace the outdoor Main PCB.
28	Expansion valve B (gas pipe) sensor fault	1. The wiring of the sensor for the expansion valve B (gas pipe) connect is connected loosely. 2. The sensor of the expansion valve B (gas pipe) fails; 3. The Main PCB sampling circuit fails."	1. Reconnect the wiring of the sensor for the expansion valve B (gas pipe); 2. Replace the sensor for the expansion valve B (gas pipe); 3. Replace the Main PCB.
29	Expansion valve C (gas pipe) sensor fault	1. The wiring of the sensor for the expansion valve B (gas pipe) connect is connected loosely; 2. The sensor of the expansion valve C (gas pipe) fails;. 3. The Main PCB sampling circuit fails..	1. Reconnect the wiring of the sensor for the expansion valve B (gas pipe); 2. Replace the sensor for the expansion valve C (gas pipe); 3. Replace the outdoor Main PCB.
30	Expansion valve D (gas pipe) sensor fault	1. The wiring of the sensor for the expansion valve B (gas pipe) connect is connected loosely; 2. The sensor of the expansion valve D (gas pipe) fails; 3. The Main PCB sampling circuit fails.	1. Reconnect the wiring of the sensor for the expansion valve B (gas pipe); 2. Replace the sensor for the expansion valve D (gas pipe); 3. Replace the outdoor control board.
45	IPM fault	There are many reasons for this failure. You can check the driver board fault LED to further analyze the fault code of the drive board and to learn about what leads to the fault and how to operate it. Specific information can be seen in table 503.	See table 503 and 504
46	IPM and control board communication fault	There are many reasons for this failure. You can check the driver board fault LED to further analyze the fault code of the drive board and to learn about what leads to the fault and how to operate it. Specific information can be seen in table 503 and 504.	See table 503 and 504

Table 502

TROUBLESHOOTING

Outdoor Unit

Diagnostic Codes _Main PCB

Fault code	Fault description	Possible reasons for abnormality	How to deal with
47	Discharge temperature is too high	1. The refrigerant of the unit is low. 3. EEV has malfunctioned. 4. The outdoor ambient temperature is too high."	1. Check for refrigerant leak. 2. Repair leak - See Refrigerant evacuation and charging. 3. Replace EEV. 4. Normal protection."
48	The outdoor DC fan motor fault (upper fan motor)	1. Fan motor connections loose. 2. Fan motor wiring damaged. 3. The upper DC fan motor fails; 4. The drive circuit of the upper DC fan motor fails; 5. The outdoor fan has been blocked."	1. Reconnect the wiring of the up DC fan motor; 2. Repair or replace wiring. 3. Replace the upper DC fan motor; 4. Replace the Main PCB. 5. Check the outdoor fan and ensure the outdoor fan can run normally."
50	Expansion valve E (gas pipe) sensor fault	1. Expansion valve E (gas pipe) sensor wiring connections are loose. 2. The expansion valve E sensor (gas pipe) fails; 3. The sampling circuit fails."	1. Reconnect the wiring of the expansion valve E (gas pipe); 2. Replace the expansion valve E (gas pipe) sensor. 3. Replace the outdoor control board."
53	Expansion valve E (liquid) pipe sensor fault	1. Expansion valve E (liquid pipe) sensor wiring connections are loose. 2. The expansion valve E sensor (liquid pipe) fails; 3. The sampling circuit fails."	1. Reconnect the wiring of the expansion valve E (liquid pipe); 2. Replace the expansion valve E (liquid pipe) sensor. 3. Replace the outdoor control board."
67	Fan of IPM device overheat protect	1. The fan of IPM is overload; 2. The circuit of IPM fails."	1. Normal protection; 2. Replace the IPM."
91	The unit turns off due the IPM board over heating fault	1. The outdoor ambient temp. is too high; 2. The speed of the out fan motor is too low if the fan motor is AC fan motor; 3. he outdoor unit is not installed in accordance with the standard; 4. The supply power is too low.	1. Normal protection; 2. Check the fan capacitor, and replace the fan capacitor if it is failure; 3. Reinstall the outdoor unit. Refer to the installation section of this manual; 4. Normal protection.
96	Refrigerant low	Refrigerant low	Discharge the refrigerant and charge the refrigerant referring to the Nameplate of the unit. See installation section of this manual.
97	4-way valve commutation failure fault	1. The connecting wiring of the 4- way valve coil is loose; 2. The 4-way valve coil fails; 3. The 4-way valve fails; 4. The driver board of the 4-way valve fails.	1. Reconnect the wiring of the 4-way valve; 2. Replace the 4-way valve coil; 3. Replace the 4-way valve; 4. Replace the main pcb.

NOTE 1: If the indoor unit can not start or the indoor unit stops itself after 30s, at the same time the unit do not display the fault code, please check the pin and the socket of the control board.

NOTE 2: If the indoor unit displays the 75,76,77,78 fault code after you turn on the unit, please check the TEST seat of the indoor control board or the TEST detection circuit to see whether short circuit occurs.

NOTE 3: Overload in cooling mode

		THE ROOT CAUSE	CORRECTIVE MEASURE
1		The refrigerant is excessive.	Discharge the refrigerant, and recharge the refrigerant referring to the nameplate and the installation section of this manual.
2		The outdoor ambient temperature is too high.	Please use within allowable temperature range
3		Short-circuit occurs in the air outlet and air inlet of the outdoor unit.	Adjust the installation of the outdoor unit referring to the installation section of this manual.
4		The outdoor heat exchanger is dirty, such as condenser.	Clean the heat exchanger of the outdoor unit, such as condenser
5		The speed of the outdoor fan motor is too low.	Check the outdoor fan motor,
6		The outdoor fan is broken or the outdoor fan is blocked.	Check the outdoor fan.
7		The air inlet and outlet has been blocked.	Remove the blocked objects.
8		The expansion valve fails.	Replace the expansion valve.

Table 502

TROUBLESHOOTING

Outdoor Unit

Diagnostic Codes _Main PCB

Fault code	Fault description	Possible reasons for abnormality	How to deal with
NOTE 4: Over load in heating mode			
1		The refrigerant is excessive.	Discharge the refrigerant, and recharge the refrigerant referring to the nameplate and the installation section of this manual.
2		The outdoor ambient temperature is too high.	Please use within allowable temperature range
3		The indoor ambient temperature is too high.	Please use within allowable temperature range.
4		Short-circuit occurs in the air outlet and air inlet of the outdoor unit.	Adjust the installation of the outdoor unit referring to the installation section of this manual.
5		The indoor filter is dirty.	Clean the indoor filter.
6		The speed of the indoor fan motor is too low.	Check the indoor fan motor and fan capacitor.
7		The indoor fan is broken or the outdoor fan is blocked.	Check the indoor fan.
8		The air inlet and outlet has been blocked.	Remove the blocked objects.
9		The expansion valve fails.	Replace the expansion valve.

Table 502

TROUBLESHOOTING

Outdoor Unit

Diagnostic Codes _Driver Faults (18k)

Fault code	Fault description	Possible reasons for abnormality	How to deal with
1	Inverter DC voltage overload fault	1. Power supply input is too high or too low; 2. Control board fault.	1. Check the power supply; 2. Change the control board.
2	Inverter DC low voltage fault		
3	Inverter AC current overload fault		
4	Out-of-step detection	1. Compressor phase lost; 2. Bad control board components; 3. The compressor insulation fault.	1. Check the compressor wire connection 2. Change the main PCB. 3. Change the compressor.
5	Loss phase detection fault (speed pulsation)		
6	Loss phase detection fault (current imbalance)		
7	Inverter IPM fault (edge)	1. System overload or current overload; 2. Control board fault; 3. Compressor oil shortage, serious wear of crank-shaft ; 4. The compressor insulation fault.	1. Check the system; 2. Change the control board; 3. Change the compressor; 4. Change the compressor.
8	Inverter IPM fault (level)		
9	PFC fault (edge)		
10	PFC fault (level)		
11	PFC power detection of failure	1. The power supply is not stable; 2. Instantaneous power failure; 3. Control board failure.	1. Check the power supply; 2. No need to deal with; 3. Change the main PCB.
12	PFC overload current detection of failure.	1. System overloads, and the current is too high. 2. Control board fails; 3. PFC fails.	1. Check the system; 2. Change the control board; 3. Change the Main PCB
13	DC voltage detected abnormal .	1. Input voltage is too high or too low; 2. control board fails.	1. Check the power supply; 2. Change the Main PCB.
14	PFC LOW voltage detected failure.		
15	AD offset abnormal detected failure.	control board fails.	Change the Main PCB.
16	Inverter PWM logic set fault.		
17	Inverter PWM initialization failure		
18	PFC_PWM logic set fault.		
19	PFC_PWM initialization fault.		
20	Temperature abnormal.		
21	Shunt resistance unbalance adjustment fault		
22	Communication failure.	1. Communication wire connection is not proper; 2. control board fails;	1. Check the wiring; 2. Change the Main PCB.
23	Motor parameters setting of failure	Initialization is abnormal.	Reset the power supply.
25	EE data abnormal	Control board EEPROM is abnormal.	1. Change EEPROM; 2. Change the Main PCB.
26	DC voltage mutation error	1. Power input changes suddenly; 2. control board fails.	1. Check the power supply, to provide stable power supply; 2. Change the Main PCB.
27	Compressor drive D axis current control error	1. System overload, phase current is too high; 2. Control board fails.	1. Check if the system is normal; 2. Check if the stop valve is open; 3. Change the control board.

Table 503

TROUBLESHOOTING

Outdoor Unit

Diagnostic Codes _Driver Faults(18k)

Fault code	Fault description	Possible reasons for abnormality	How to deal with
28	Compressor drive Q axis current control error	1. System overload, phase current is too high; 2. control board fails.	1. Check if the system is normal; 2. Check if the stop valve is open; 3. Change the Main PCB.
29	Saturation error of D axis current control integral	1. System overloads suddenly; 2. Compressor parameter is not suitable; 3. Control board fails.	1. Check if the system is normal; 2. Check if the stop valve is open; 3. Change the Main PCB.
30	Saturation error of Q axis current control integral	1. System overloads suddenly; 2. Compressor parameter is not suitable; 3. Control board fails.	1. Check if the system is normal; 2. Check if the stop valve is open; 3. Change the Main PCB.
50	Inverter software over-current	1. The fan motor system overloads. 2. Control board fails; 3. The fan motor is not insulated well;	1. Change the fan motor; 2. Change the Main PCB. 3. Change the fan motor.
51	Out-of-step detection	1. The wire is not connected well; 2. Bad control board components; 3. The fan motor starting overloads; 4. The fan motor is demagnetized; 5. The fan motor is not insulated well.	1. Check the fan motor wire connection; 2. Change the control board; 3. Change the fan motor; 4. Change the fan motor; 5. Change the fan motor;
52	Abnormal speed control	1. Bad control board components; 2. The fan motor shaft clamping; 3. The fan motor insulation fails.	1. Change the Main PCB. 2. Change the fan motor; 3. Change the fan motor;
53	Out of phase detection fault	1. Phase loss of the fan motor; 2. Bad control board components.	1. Change the Main PCB. 2. Change the fan motor; 3. Change the fan motor
54	IPM-FO hardware over-current (edge)	1. The fan motor overloads or over- current; 2. The control board fails; 3. The fan motor insulation fails.	1. Change the fan motor; 2. Change the Main PCB. 3. Change the fan motor
55	IPM-FO hardware over-current (level)	1. The fan motor overloads or over- current; 2. The control board fails; 3. The fan motor insulation fails.	1. Change the fan motor; 2. Change the Main PCB. 3. Change the fan motor
56	The fan motor -AD Offset abnormal detection fault	The control board circuit fails.	Change the Main PCB.
57	The fan motor speed control integral saturation	1. The fan motor overload mutation; 2. Parameters are inappropriate; 3. The control board fault.	1. Change the fan motor system; 2. Change the fan motor; 3. Change the Main PCB.
58	The fan motor D,Q axis current control error	1. The fan motor overloads, the phase current is large; 2. The control board fault.	1. Check the fan motor system; 2. Change the Main PCB.
59	The fan motor D,Q axis current control integral saturation	1. The fan motor overload mutation; 2. Parameters are inappropriate; 3. The control board fault.	1. Change the fan motor system; 2. Change the fan motor; 3. Change the Main PCB.
60	The fan motor reverse	1. Bad control board components; 2. Wiring problems	1. Change the Main PCB. 2. Check the wiring.
61	IPM-PWM initialization fault	1. EE logics error; 2. The control board fails.	1. Change the Main PCB. 2. Change the Main PCB.

Table 503

TROUBLESHOOTING

Outdoor Unit

Diagnostic Codes _Driver Faults (27k, 36k, 42k)

Fault code	Fault description	Possible reasons for abnormality	How to deal with
1	Inverter DC voltage overload fault	1. Power supply input is too high or too low; 2. control board fault.	1. Check the power supply; 2. Change the main PCB.
2	Inverter DC low voltage fault		
3	Inverter AC current overload fault		
4	Out-of-step detection	1. Compressor phase lost; 2. Bad control board components; 3. The compressor insulation fault.	1. Check the compressor wire connection; 2. Change the main PCB. 3. Change the compressor.
5	Loss phase detection fault (speed pulsation)		
6	Loss phase detection fault (current imbalance)		
7	Inverter IPM fault (edge)	1. System overload or current overload; 2. control board fault; 3. Compressor oil shortage, serious wear of crankshaft ; 4. The compressor insulation fault.	1. Check the system; 2. Change the main PCB. 3. Change the compressor; 4. Change the compressor.
8	Inverter IPM fault (level)		
9	PFC fault (edge)		
10	PFC fault (level)		
11	PFC power detection of failure	1. The power supply is not stable; 2. Instantaneous power failure; 3. control board failure.	1. Check the power supply; 2. No need to deal with; 3. Change the main PCB.
12	PFC overload current detection of failure.	1. System overloads, and the current is too high; 2. control board fails; 3. PFC fails.	1. Check the system; 2. Change the main PCB. 3. Change the PFC.
13	DC voltage detected abnormal .	1. Input voltage is too high or too low; 2. control board fails.	1. Check the power supply; 2. Change the main PCB.
14	PFC LOW voltage detected failure.		
15	AD offset abnormal detected failure.	control board fails.	Change the main PCB.
16	Inverter PWM logic set fault.		
17	Inverter PWM initialization failure		
18	PFC_PWM logic set fault.		
19	PFC_PWM initialization fault.		
20	Temperature abnormal.		
21	Shunt resistance unbalance adjustment fault		
22	Communication failure.	1. Communication wire connection is not proper; 2. control board fails;	1. Check the wiring; 2. Change the main PCB.
23	Motor parameters setting of failure	Initialization is abnormal.	Reset the power supply.
25	EE data abnormal	control board EEPROM is abnormal.	1. Change EEPROM; 2. Change the main PCB.
26	DC voltage mutation error	1. Power input changes suddenly; 2. control board fails.	1. Check the power supply, to provide stable power supply; 2. Change the main PCB.
27	Compressor drive D axis current control error	1. System overload, phase current is too high; 2. control board fails.	1. Check if the system is normal; 2. Check if the stop valve is open; 3. Change the main PCB.
28	Compressor drive Q axis current control error	1. System overload, phase current is too high; 2. control board fails.	1. Check if the system is normal; 2. Check if the stop valve is open; 3. Change the main PCB.
29	Saturation error of Compressor drive D axis current control integral	1. System overloads suddenly; 2. Compressor parameter is not suitable; 3. control board fails.	1. Check if the system is normal; 2. Check if the stop valve is open; 3. Change the main PCB.
30	Saturation error of Compressor drive Q axis current control integral	1. System overloads suddenly; 2. Compressor parameter is not suitable; 3. control board fails.	1. Check if the system is normal; 2. Check if the stop valve is open; 3. Change the main PCB.
31	Drive AD conversion fault	control board fault	Replace the main PCB.
35	AD Offset abnormal detection fault	control board fault	Replace the main PCB.

Table 504

TROUBLESHOOTING

Outdoor Unit

Diagnostic Codes _Driver Faults (27k, 36k, 42k)

Fault code	Fault description	Possible reasons for abnormality	How to deal with
50	Inverter software over-current	1. The fan motor system overloads; 2. The control board fails; 3. The fan motor is not insulated well;	1. Change the fan motor; 2. Change the main PCB. 3. Change the fan motor.
51	Out-of-step detection	1. Wiring connections are loose. 2. Bad control board components; 3. The fan motor starting overloads; 4. The fan motor is demagnetized; 5. The fan motor is not insulated well.	1. Check the fan motor wire connection; 2. Change the main PCB. 3. Change the main PCB. 4. Change the fan motor. 5. Change the fan motor.
52	Abnormal speed control	1. Bad control board components; 2. The fan motor shaft clamping; 3. The fan motor insulation fails.	1. Change the main PCB. 2. Change the fan motor. 3. Change the fan motor.
53	Out of phase detection fault	1. Phase loss of the fan motor; 2. Bad control board components.	1. Change the control board; 2. Change the fan motor; 3. Change the fan motor
54	IPM-FO hardware over-current (edge)	1. The fan motor overloads or over-current; 2. The control board fails; 3. The fan motor insulation fails.	1. Change the fan motor; 2. Change the control board; 3. Change the fan motor
55	IPM-FO hardware over-current (level)	1. The fan motor overloads or over-current; 2. The control board fails; 3. The fan motor insulation fails.	1. Change the fan motor; 2. Change the main PCB. 3. Change the fan motor
56	The fan motor -AD Offset abnormal detection fault	The control board circuit fails.	Change the control board.
57	The fan motor speed control integral saturation	1. The fan motor overload mutation; 2. Parameters are inappropriate; 3. The control board fault.	1. Change the fan motor system; 2. Change the fan motor; 3. Change the control board.
58	The fan motor D,Q axis current control error	1. The fan motor overloads, the phase current is large; 2. The control board fault.	1. Check the fan motor system; 2. Change the main PCB.
59	The fan motor D,Q axis current control integral saturation	1. The fan motor overload mutation; 2. Parameters are inappropriate; 3. The control board fault.	1. Change the fan motor system; 2. Change the fan motor; 3. Change the main PCB.
60	The fan motor reverse	1. Bad control board components; 2. Wiring problems	1. Change the control board; 2. Check the wiring.
61	IPM-PWM initialization fault	1. EE logics error; 2. The control board fails.	1. Change the main PCB. 2. Change the main PCB.
70	Effective value protection of compressor phase current	1. Low power supply voltage; 2. control board fault.	1. Check the power supply voltage; 2. Replace the main PCB.
71	Start failure	1. System overload; 2. control board fault; 3. Compressor fault	1. Check if the system operates properly and if the shut-off valve is turned on; 2. Replace the main PCB. 3. Replace the compressor.
72	IPM over-temperature fault	1. High outdoor ambient temperature; 2. Improper installation of outdoor units; 3. Low power supply voltage.	1. Protect properly; 2. Reinstall the outdoor unit according to the installation specifications. 3. Protect properly.
73	MCU error	control board fault	Replace the control board
74	Compressor speed estimation error	1. System overload; 2. control board fault; 3. Compressor fault	1. Check if the system operates properly and if the shut-off valve is turned on; 2. Replace the main PCB. 3. Replace the compressor.
75	Over-power	1. System overload; 2. control board fault; 3. Compressor fault	1. Check if the system operates properly and if the shut-off valve is turned on; 2. Replace the main PCB. 3. Replace the compressor.
76	High compressor power	1. control board fault	1. Replace the control board

Table 504

TROUBLESHOOTING

Outdoor Unit

Diagnostic Codes _Driver Faults

Fault code	Fault description	Possible reasons for abnormality	How to deal with
80	Effective value protection of fan phase current	1. Abnormal fan system 2. Abnormal control board 3. Fan motor fault	1. Check if the outdoor fan is abnormal 2. Replace the main PCB. 3. Replace the fan motor
81	Fan startup failure	1. Abnormal fan system 2. Abnormal control board 3. Fan motor fault	1. Check if the outdoor fan is abnormal 2. Replace the control board 3. Replace the fan motor
82	Fan IPM over- temperature	1. Machine system overload, and high phase current; 2. control board fault; 3. Poor contact of radiator	1. Check if the system is abnormal 2. Replace the control board 3. Replace the radiator
83	Air speed estimation error	control board fault	Replace the control board;
84	High air speed	control board fault	Replace the control board;
Codes 101-132 appear in the operation process and indicate some kind of normal operation state, instead of faults, so they do not need to be dealt with. DSH: Discharge Super Heat			
101	When overcurrent occurs, stop the frequency from increasing.	Current control	
102	When overcurrent occurs, reduce the frequency.	Current control	
103	When the temperature of IPM module is too high, stop the frequency from increasing.	Frequency control to keep appropriate temperature of IPM module.	
104	When the temperature of IPM module is too high, reduce the frequency.	Frequency control to keep appropriate temperature of IPM module.	
105	When the discharge temperature is too high, stop the frequency from increasing.	Frequency control to keep appropriate discharge temperature.	
106	When the discharge temperature is too high, reduce the frequency.	Frequency control to keep appropriate discharge temperature.	
107	In cooling mode, when the temperature of the outdoor unit coil is too high, stop the frequency from increasing.	Frequency control to keep appropriate temperature of the outdoor unit coil in cooling mode.	
108	In cooling mode, when the temperature of the outdoor unit coil is too high, reduce the frequency.	Frequency control to keep appropriate temperature of the outdoor unit coil in cooling mode.	
113	To prevent the indoor unit from being frozen or high temperature, stop the frequency from increasing.	Frequency control to keep appropriate temperature of the indoor unit coil.	
114	To prevent the indoor unit from being frozen or high temperature, reduce the frequency.	Frequency control to keep appropriate temperature of the indoor unit coil.	
119	When DSH exceeds the target value, the valve opening gets wider to adjust the flow.	Control on expansion valve based on DSH.	
120	When DSH exceeds the target value, the valve opening gets narrower to adjust the flow.	Control on expansion valve based on DSH.	
121	When DSH exceeds the target value, stop the valve opening from getting narrower.	Control on expansion valve based on DSH.	
122	When DSH exceeds the target value, stop the valve opening from getting wider.	Control on expansion valve based on DSH.	
131	When the temperature of IPM module is too high, stop the frequency from increasing.	Frequency control to keep appropriate temperature of IPM module.	
132	When the temperature of IPM module is too high, reduce the frequency.	Frequency control to keep appropriate temperature of IPM module.	
134	When the discharge temperature is too high, stop the valve opening getting narrower.	Control on discharge temperature expansion valve.	
140	The compressor overloads.	Control on the compressor output.	
141	The compressor current overloads.	Control on the output torque of the compressor.	

Table 504

TROUBLESHOOTING

Indoor Unit - Wall Mount

Diagnostic Codes

The indoor display board will show the error code automatically when the unit has the following trouble:

Refer to the remote controller which the sleep key can set into 4 different combination ways , when using to check the error codes only takes effect for pressing the sleep key 10 times in ten seconds instead of 4 times.

NOTE: If the troubleshooting inquiry display by 7-segment tube, then the error code will be displayed, otherwise only the LED of the display board can show.

The failure is detected when the room temperature sensor broken or shorted over 5 sec.

The failure is detected when the temperature sensor of heater exchange broken or shorted over 5 sec.

The failure is detected when each setting data is not match after the EPROM self-check two times.

The failure occurs when the grounding signal is not detected after the appliance power ON

Error Code	Content	The root cause is may be one of the following
EA	The error code will display when the communication between display board and control board is interrupted.	a. The connection between the display board and control board is loose. b. The indoor control board failed. c. The wiring of the display board failed
6	AC voltage higher or lower protection	a. the supply voltage is higher or lower than normal. b. The inner supply voltage of the unit is higher or lower than normal.
7	Communication failure between the indoor unit and outdoor unit	a. The communication cable is disconnected or loose. b. The connection between the filter board and the terminal is incorrect or loose c. The communication cable failed. d. The connection between the filter board and the outdoor control board is incorrect or loose. e. The indoor control board failed. f. The PFC board failed. g. The power board failed. h. The outdoor control board failed.
23	There is a leak in the product	a. There is a leak in the indoor b. There is a leak in the outdoor c. There is a leak in the connecting pipe
33	The failure for temperature sensor of indoor room	a. The indoor room temperature sensor loose. b. The indoor room temperature sensor failed. c. The indoor control board failed.
34	The failure for temperature sensor of indoor coil temperature	a. The indoor coil temperature sensor loose. b. The indoor coil temperature sensor failed. c. The indoor control board failed.
36	Communication failure between the indoor unit and outdoor unit	a. the communication cable connector loose. b. the connection between the filter board and the terminal is incorrect or loose. c. the communication cable failed. d. the connection between the filter board and the outdoor control board is incorrect or loose. e. the indoor control board failed. f. the PFC board failed. g. the power board failed. h. the outdoor control board failed.
38	Indoor EEPROM failure	a. The EEPROM chip loose; b. The indoor control board failed.
39	Indoor fan motor runs abnormally.	a. Something blocking the indoor fan motor. b. The fan motor cord is disconnected or loose. c. The fan motor failed. d. The indoor control board failed.
41	The failure for Indoor grounding protection.	The indoor control board failed.
56	There is a leak in the product. . When the refrigerant leakage fails, the fault code 56 is displayed actively. The indoor fan is forced to run at the highest speed, and the outdoor unit stops. Other controls do not respond.	a. There is a leak in the indoor b. There is a leak in the connecting pipe
57	the error code will display when the communication between refrigerant Sensor and indoor control board have in trouble	a. The connection between the refrigerant Sensor and control board is loose; b. The indoor control board is failure. c. The wiring of the refrigerant Sensor is failure.
77	Wi-Fi Connection Enabled	Cycle Power on/off
Table 505		

TROUBLESHOOTING

Indoor Wall Mount

Unit Does Not Run

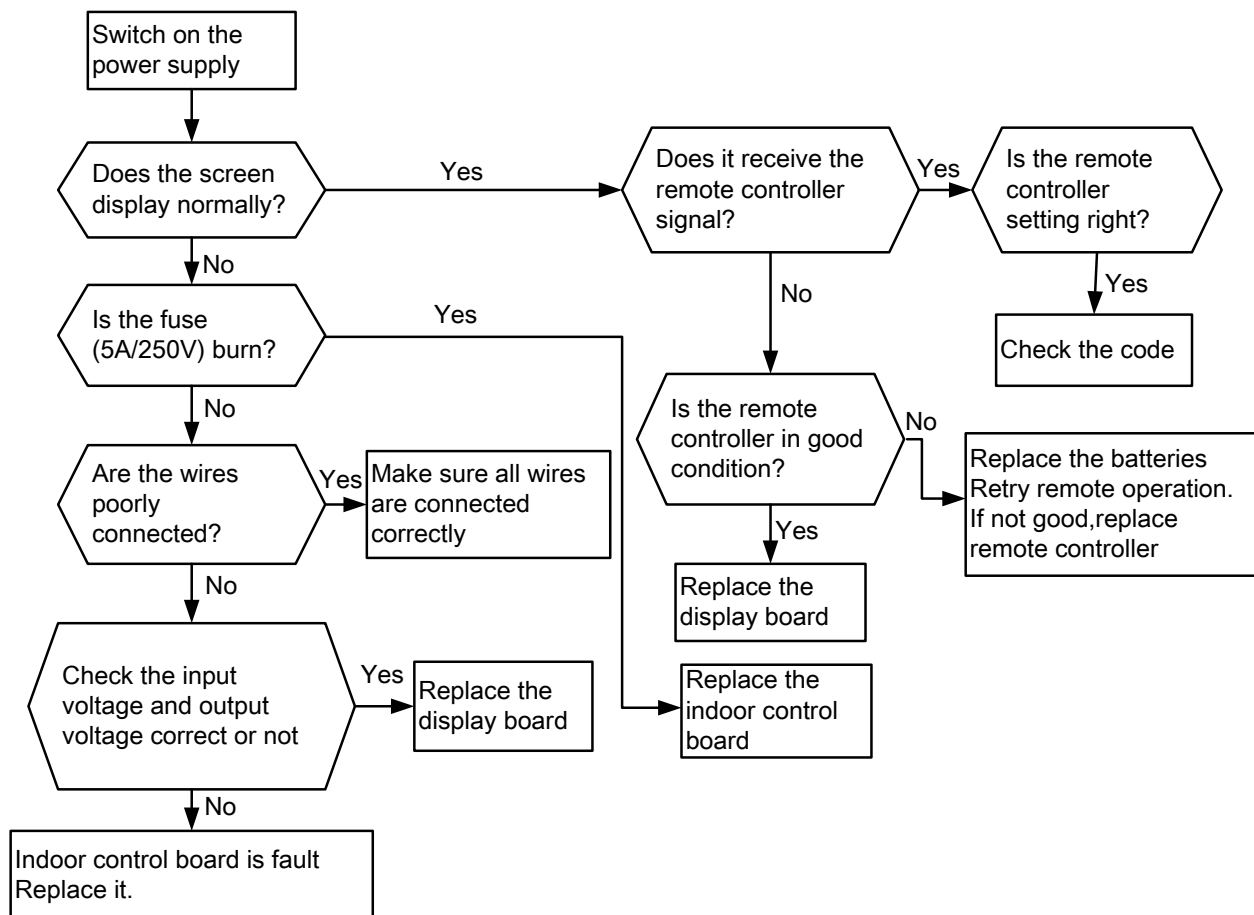


Figure 506

TROUBLESHOOTING

Indoor Wall Mount

Error Code 39-DC Fan

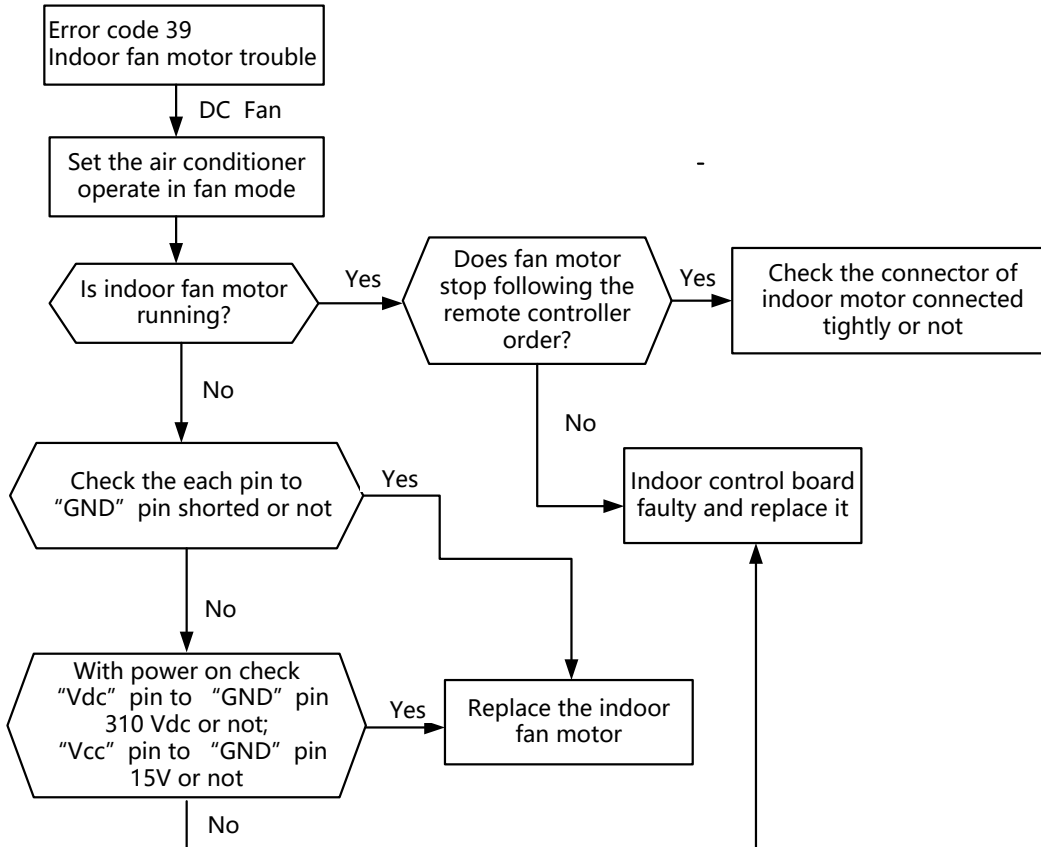


Figure 507

TROUBLESHOOTING

Indoor Wallmount

Error Code 36

See Figure 509

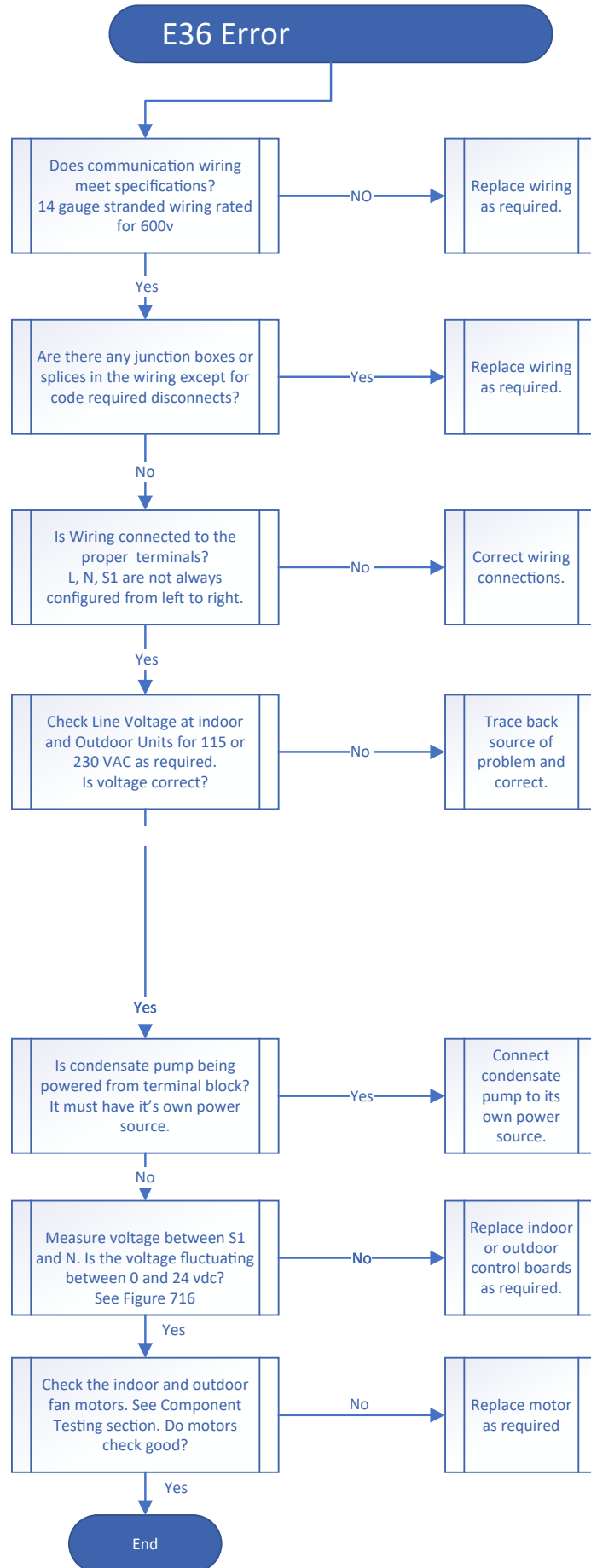


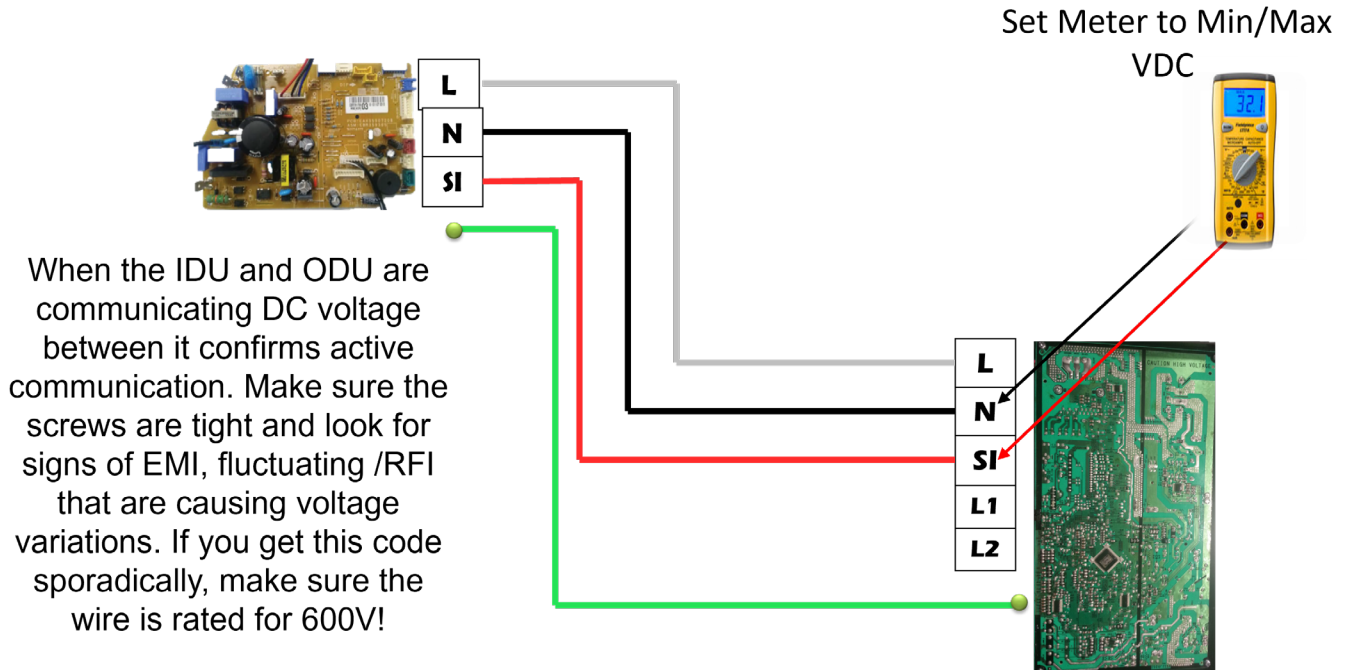
Figure 508

TROUBLESHOOTING

Indoor Wallmount

Error Code 36

Check from SI to Neutral on the outdoor unit or indoor unit



TROUBLESHOOTING

Indoor Wallmount

Blank Display/ Indoor Micro Switch

If the Display is blank, check to see if the door is properly closed.

If the door is properly closed, confirm that you have proper line voltage to the indoor unit.

If the indoor unit door is not properly closed, or if the door micro switch has malfunctioned the display may be blank. See Figure 717

When the micro-switch is not engaged, and the power button is depressed, there will be no display and the system will not operate or respond in any way. See Figure 718.

When the Timer On/Clock button is pressed you will see a temperature on the display, but still no system operation. After a few seconds, the display will drop the temperature leaving just the Wi-Fi and Timer icons. Still no indoor unit operation. See Figure 719.



Fig. 510 (Door Micro Switch)

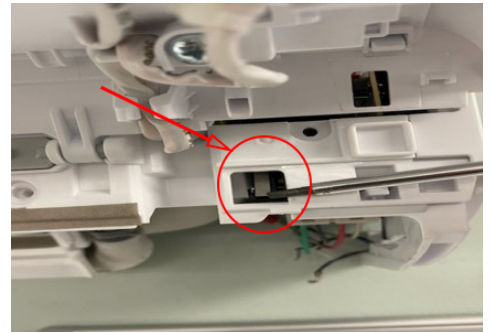


Fig. 511 (Blank Display)

TROUBLESHOOTING

Indoor Unit Cassette and Ducted

Diagnostic Codes

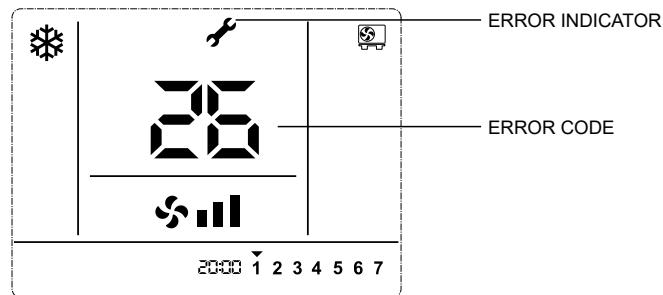
Troubleshooting according to fault codes

When the air conditioner failure occurs, the fault code will display on control board, wired controller or display panel.

How to check fault codes

Indoor unit

(1) Error codes indicated by wire remote controller (see figure below)



When the air conditioner malfunctions,  will be displayed on the LCD, and error codes will appear and blink.

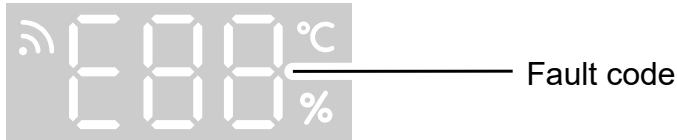
Fault code displays on wired controller

TROUBLESHOOTING

Indoor Unit Cassette and Ducted Diagnostic Codes

(2) Fault codes indicated by display panel(36K/48K)

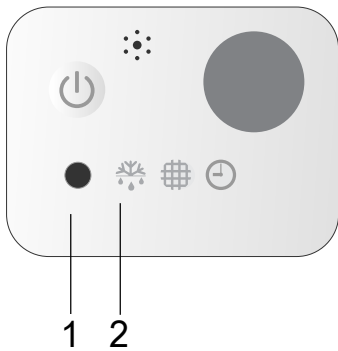
Display panel



(3) Fault codes indicated by LED lamps on display panel (9K/12K)

Lamp RUN (LED2, Red) and Lamp DEFROST (LED5, Green) flash. Lamp RUN displays fault code represented by 2- digit number, and lamp DEFROST displays fault code represented by single digit number (as shown fig. below). For example, fault code 36: LED RUN & defrost flash 3 times at the same time, and LED DEFROST continues flashing 3 times, it reports No. 36 fault.

Display panel



- 1** Run indicator (Red)
Indicates the fault code with 2- digit number.
- 2** Defrost indicator (Green)
Indicates the fault code with single digit number.

LED FLASH CONTROL: flash 300mS (T1), off 300mS (T2), after 2000mS (T3) fault code repeat displays. (as shown below)

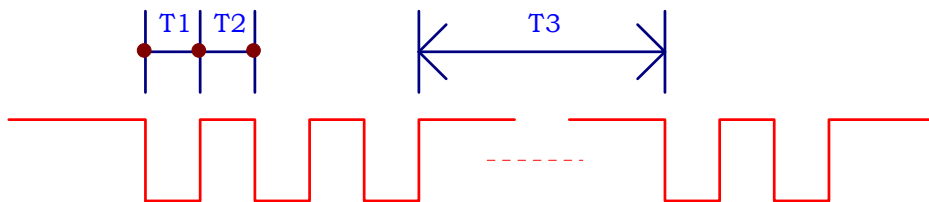


FIG.2 LED flash control

TROUBLESHOOTING

Indoor Unit Cassette and Ducted Diagnostic Codes

Fault code	Fault description	Possible reasons for abnormality	How to deal with
37	Humidity sensor failure	1. The cable of the humidity sensor connect loose. 2. The humidity sensor is failure. 3. The indoor control board is failure.	1. Reconnect the cable of the humidity sensor. 2. Replace the humidity sensor. 3. Replace the indoor control board.
51	Drainage protection	1. Defective drain pump. 2. Improper drain piping work. 3. Drain piping clogging. 4. Defective float switch. 5. Defective indoor unit PCB. 6. Defective short circuit connector on PCB.	1. Replace the drain pump. 2. Replace the drain piping. 3. Dredge the drain piping. 4. Replace the float switch. 5. Replace the indoor unit PCB. 6. Replace the short circuit connector.
55	Mode conflict fault	The user sets the conflicting mode for more than two indoor units.	Reset the operation mode for the indoor unit, for with one outdoor unit, the user should avoid setting the conflicting operation mode with the indoor units.
56	Refrigerant leakage	1. The refrigerant sensor detects that the concentration of refrigerant in the air exceeds the threshold.	Check and repair problematic pipes and add refrigerant.
57	Refrigerant sensor communication fault or refrigerant sensor fault	1. The refrigerant sensor fails to communicate with the indoor unit for a long time. 2. The refrigerant sensor reports the fault message such as life loss.	1. Replace the refrigerant sensor. 2. Reconnect the connection cable between the refrigerant sensor and the indoor unit board.
64	Communication between Indoor & Outdoor unit Fault	1. The indoor unit and the outdoor unit are not connected properly. 2. The communication cable is connected loosely. 3. The communication cable between the indoor unit and the outdoor unit fails or the cable between the indoor control board to terminal fails or the cable between the outdoor control board to the terminal fails. 4. The indoor control board fails. 5. The outdoor control board fails.	1. Reconnect the connection cable referring to the indoor and outdoor wiring diagram. 2. Reconnect the communication cable referring to the indoor and outdoor wiring diagram. 3. Replace the communication cable referring to the indoor and outdoor wiring diagram. 4. Replace the indoor control board; 5. Replace the outdoor control board.
72	Indoor fan motor fault	1. The cable of the indoor fan motor is connected loosely. 2. The cable of the indoor fan motor fails; 3. The indoor fan motor fails; 4. The indoor control board fails; 5. The outdoor fan has been blocked.	1. Reconnect the cable of the fan motor. 2. Replace the cable of the fan motor. 3. Replace the fan motor. 4. Replace the indoor control board. 5. Check the indoor fan and ensure the indoor fan can run normally.
73	Indoor EEPROM Data fault	1. Indoor EE components fail. 2. The control circuit of the EE components fails. 3. The EE components has been inserted in opposite direction.	1. Replace the EE components. 2. Replace the indoor control board. 3. Reassemble the EE components of the indoor control board.
81	Indoor ambient Temperature Sensor Fault	1. Disconnection or contact failure of connectors on the outdoor controller circuit board 2. Defective thermistor. 3. Defective outdoor controller circuit board.	1. Check connection of connector on the indoor controller circuit board. 2. Check resistance value of thermistor or replace the outdoor temperature sensor. 3. Replace outdoor controller circuit board.
FE	Communication between main control board & Wired controller Fault (display on wired controller)	1. The wired controller and the indoor control board are connected loosely. 2. The sequence of the wiring between the wired controller to the indoor control board is wrong. 3. The wiring between the wired controller to the indoor control board fails. 4. The wired controller fails. 5. The indoor control board is abnormal.	1. Reconnect the wiring between the wired controller to the indoor control board. 2. Replace the wiring between the wired controller to the indoor control board. 3. Replace the wiring between the wired controller to the indoor control board. 4. Replace the wired controller. 5. Replace the indoor control board.
ER	Communication between main control board & display board Fault (displays on display board)	1. The wiring between the display board to the indoor control board is connected loosely. 2. The sequence of the wiring between the display board to the indoor control board is wrong. 3. The wiring between the display board to the indoor control board fails. 4. The display board fails. 5. The indoor control board fails.	1. Reconnect the wiring between the display board to the indoor control board. 2. Replace the wiring between the display board to the indoor control board. 3. Replace the wiring between the display board to the indoor control board. 4. Replace the display board. 5. Replace the indoor control board.

Figure 513

COMPONENTS TESTING

Outdoor Unit

Test system flow

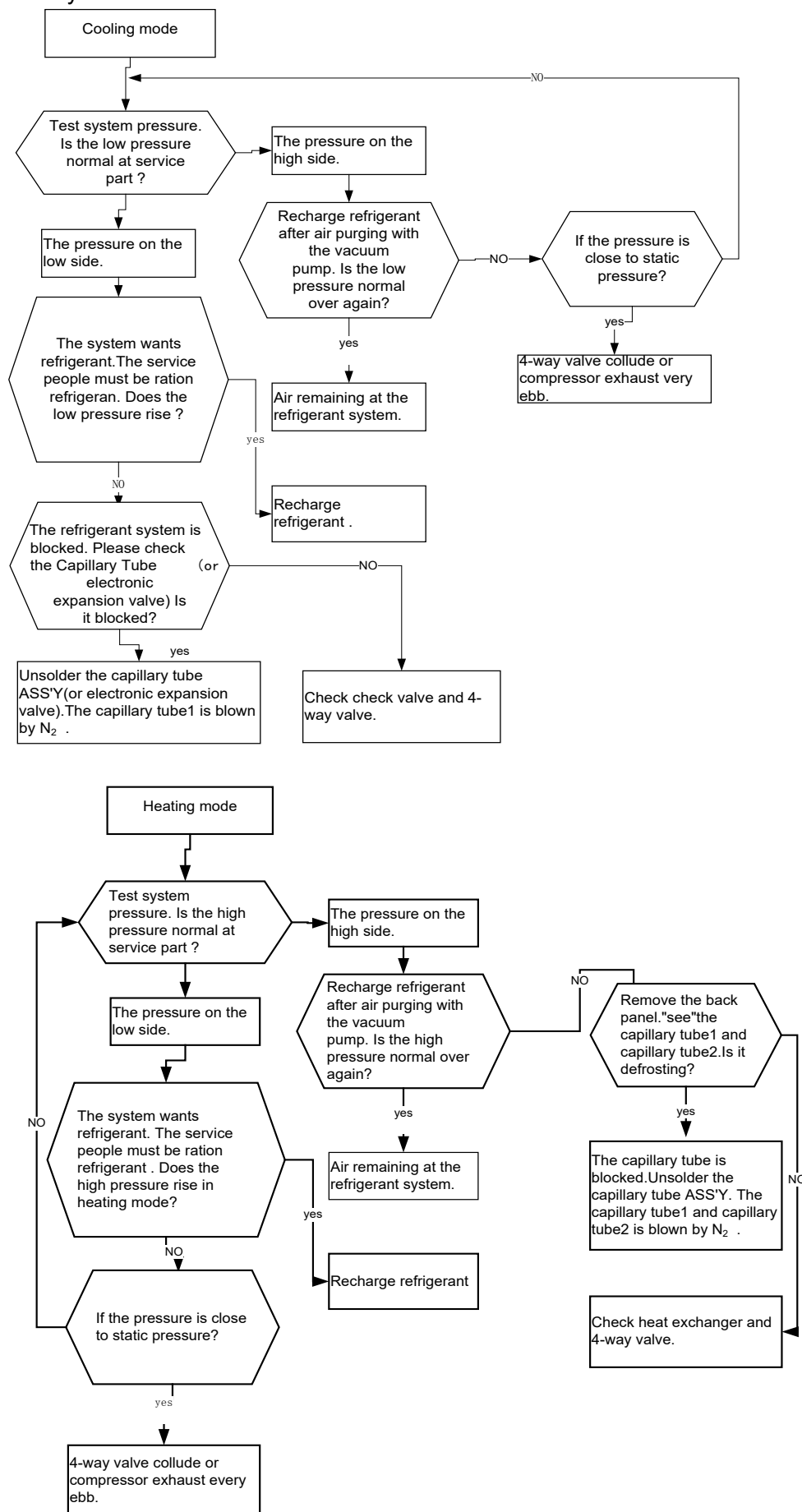


Fig. 514

COMPONENTS TESTING

Outdoor Unit

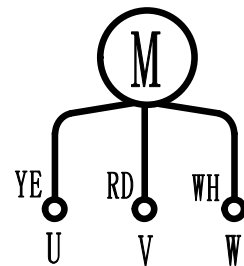
SN	Key components
1	DC Motor (Outdoor unit)
2	Compressor
3	EEV coil
4	4-Way valve coil
5	Pressure switch
6	Inductance
7	Fuse

1) DC Motor (Outdoor unit)

External drive type

Use the multimeter to test resistance between two terminals

Model	Test condition (Ambient temperature)	Normal test results	Deviation Range
18K	68°F (20°C)	U-V: 46Ω U-W: 46Ω V-W: 46Ω	±7%
27K/36K/42K	77°F (25°C)	U-V: 9.1Ω U-W: 9.1Ω W-V: 9.1Ω	±7%



2) Compressor

Test in resistance.

TOOL: Multi-meter.

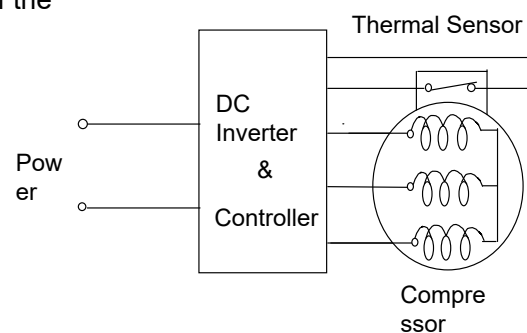
Test the resistance of the winding. The compressor fails if the resistance of winding is 0 (short circuit) or ∞ (open circuit).

Familiar error:

- 1) Compressor motor lock.
- 2) Discharge pressure value approaches static pressure value.
- 3) Compressor motor winding abnormality.

Notes:

- 1) Don't put a compressor on its side or turn over.
- 2) Please assemble the compressor in your air conditioner rapidly after removing the plugs. Don't place the comp. in air for a long time.
- 3) Avoid compressor running in reverse caused by connecting electrical wire incorrectly.
- 4) Warning! In case AC voltage is impressed to compressor, the compressor performance will decrease because of its rotor magnetic force decreasing.



COMPONENTS TESTING

Outdoor Unit

Use the multimeter to test resistance between two terminals.

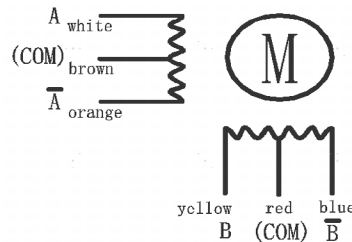
Test results:

Model	Test condition (Ambient temperature)	Normal test results	Deviation Range
18K	68°F (20°C)	U-V: 1.065Ω U-W: 1.065Ω V-W: 1.065Ω	±7%
27K	68°F (20°C)	U-V: 0.630Ω U-W: 0.630Ω V-W: 0.630Ω	±7%
36K/42K	77°F (25°C)	U-V: 0.426Ω U-W: 0.426Ω W-V: 0.426Ω	±5%

3) EEV coil

Use the multimeter to test resistance between two terminals at 68°F (20°C).

Test results:



Model	Test condition	Normal test results	Deviation Range
18K	gray (com) -orange gray (com) -black gray (com) -yellow gray (com) -red	46Ω	± 3 Ω
27K	brown (com) -white brown (com) -orange red (com) -yellow red (com) -blue	46Ω	±3.7Ω
36K	brown (com) -white brown (com) -orange red (com) -yellow red (com) -blue	46Ω	± 3 Ω
42K	brown (com) -white brown (com) -orange red (com) -yellow red (com) -blue	46Ω	± 3 Ω

Discharge pipe temperature is too high. This means the compressor is over heating and will shut down and lock itself out. The cause for this issue is lack of refrigerant coming back to the compressor to cool the compressor. The main causes of this would be low charge, restriction or issue with the electronic expansion valve (EEV).

Remove the head off the EEV (pulls right off) & check for any rust build up. If there is any rust inside the EEV head, replace the EEV head. If there is rust on the EEV body you can clean it up with some emery cloth.



COMPONENTS TESTING

Outdoor Unit

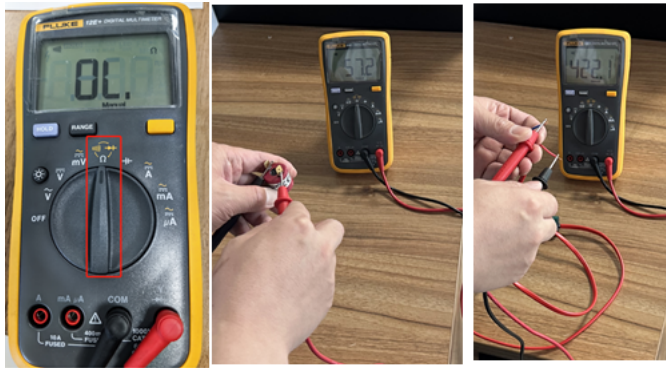
4) 4-Way valve coil

Use the multimeter to test resistance between two terminals. Test results:

Model	Test condition (Ambient temperature)	Normal test results	Deviation Range
18K/27K/36K/42K	77°F (25°C)	2085Ω	±10%

5) Pressure switch

Normally closed switch detection: With no pressure in the pipeline, you can turn a multimeter to the ohm range and connect the red and black probes with a pin (lead) respectively to detect whether the switch is in the "ON" state.



6) Inductance

Familiar error:

- 1) Sound abnormality
- 2) Insulation resistance disqualification.

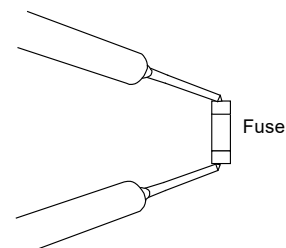
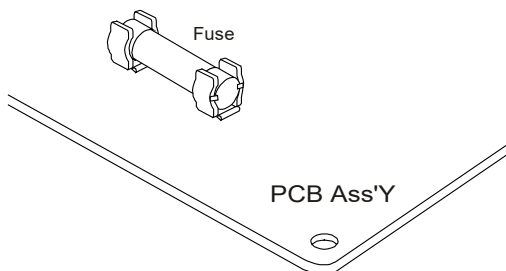
Use the multimeter to test resistance between two terminals.

Model	Test condition (Ambient temperature)	Normal test results	Deviation Range
18K	77°F (25°C)	60mΩ Max	±7%
27K	68°F (20°C)	100mΩ Max	±7%
36K/42K	77°F (25°C)	30mΩ Max	±5%

7) Fuse

Checking continuity of fuse on PCB ASS'Y.

Remove the PCB ASS'Y from the electrical component box. Then pull out the fuse from the PCB ASS'Y. Check for continuity by a multimeter as shown below.



COMPONENTS TESTING

Cassette- Ducted

Key components

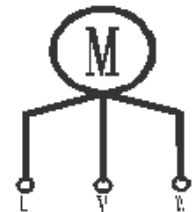
SN	Key components
1	DC Motor (Indoor unit)
6	Water Pump
7	Water Switch
8	Pressure Switch
9	Step motor

1. DC Motor (Indoor unit)

a. External drive

Use the multimeter to test resistance between two terminals at 77°F(25°C).

Model	Duct type		Cassette type	
	Normal test results	Deviation range	Normal test results	Deviation range
9K/12K	U-V: 75Ω U-W: 75Ω V-W: 75Ω	±10%	U-V: 50Ω U-W: 50Ω V-W: 50Ω	±10%
18K	U-V: 39Ω U-W: 39Ω V-W: 39Ω	±7%	U-V: 32Ω U-W: 32Ω V-W: 32Ω	±10%
24K	U-V: 16.5Ω U-W: 16.5Ω V-W: 16.5Ω	±7%	U-V: 32Ω U-W: 32Ω V-W: 32Ω	±10%



6. Water pump

Use the multimeter to test resistance

between two terminals at 77°F(25°C).

Test results:

Duct type		Cassette type	
Model	Normal test results	Model	Normal test results
9K~24K	333Ω±10%	9K~12K	333Ω±10%

7. Water switch level

Test the resistance between two harness.

Testing condition :

1.at the on-position condition

2.at 77°F(25°C)

Test results:

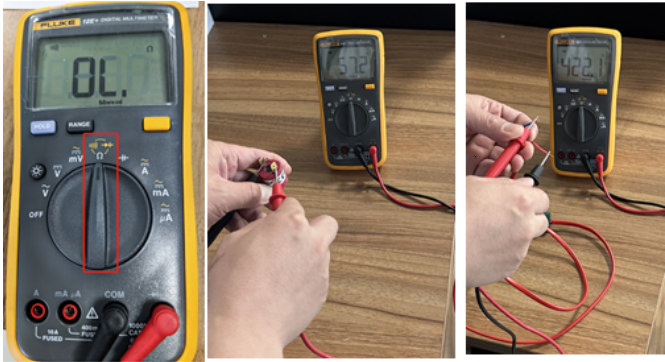
Model	Normal test results
9K/12K	≤0.3Ω
18K~24K	≤0.4Ω

COMPONENTS TESTING

Cassette- Ducted

8. Pressure switch

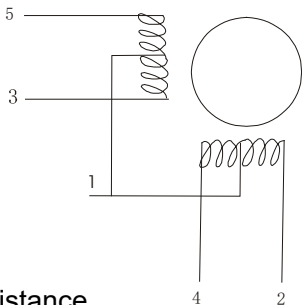
The pressure switch is divided into normally closed and normally open types (under atmospheric pressure), such as YK-4.0/3.4 is normally closed, and YK-2.85/3.6 and YK-0.05/0.15 are normally open.



Normally closed switch detection:
With no pressure in the pipeline, you can turn a multimeter to the ohm range and connect the red and black probes with a pin (lead) respectively to detect whether the switch is in the "ON" state.

Normally open switch detection:
With the pressure in the pipeline higher than the switching-on pressure, you can turn a multimeter to the ohm range and connect the red and black probes with a pin (lead) respectively to detect whether the switch is in the "ON" state

9. Step motor



Test results:

Model	Normal test results
9K~24K	300Ω±7%

Test in resistance.
Tool: Multimeter.

Test the resistance of winding. The stepper motor fails if the resistance of winding is 0 (short circuit) or ∞ (open circuit).

COMPONENTS TESTING

Indoor Unit Main PCB Terminal ID (No A2L Sensor Connection)

Indoor Fan Motor (X842) Door Safety Switch (X412) Evaporator Coil Temp Sensor (X413) Indoor Ambient Temp Sensor (X405) Vertical Louver (X821) Horizontal Louver (X823) Auto Start Switch (SW 101)

L2 In/Out switch input

Display (W940)

WiFi (W950)

L1/N In/Out

SI

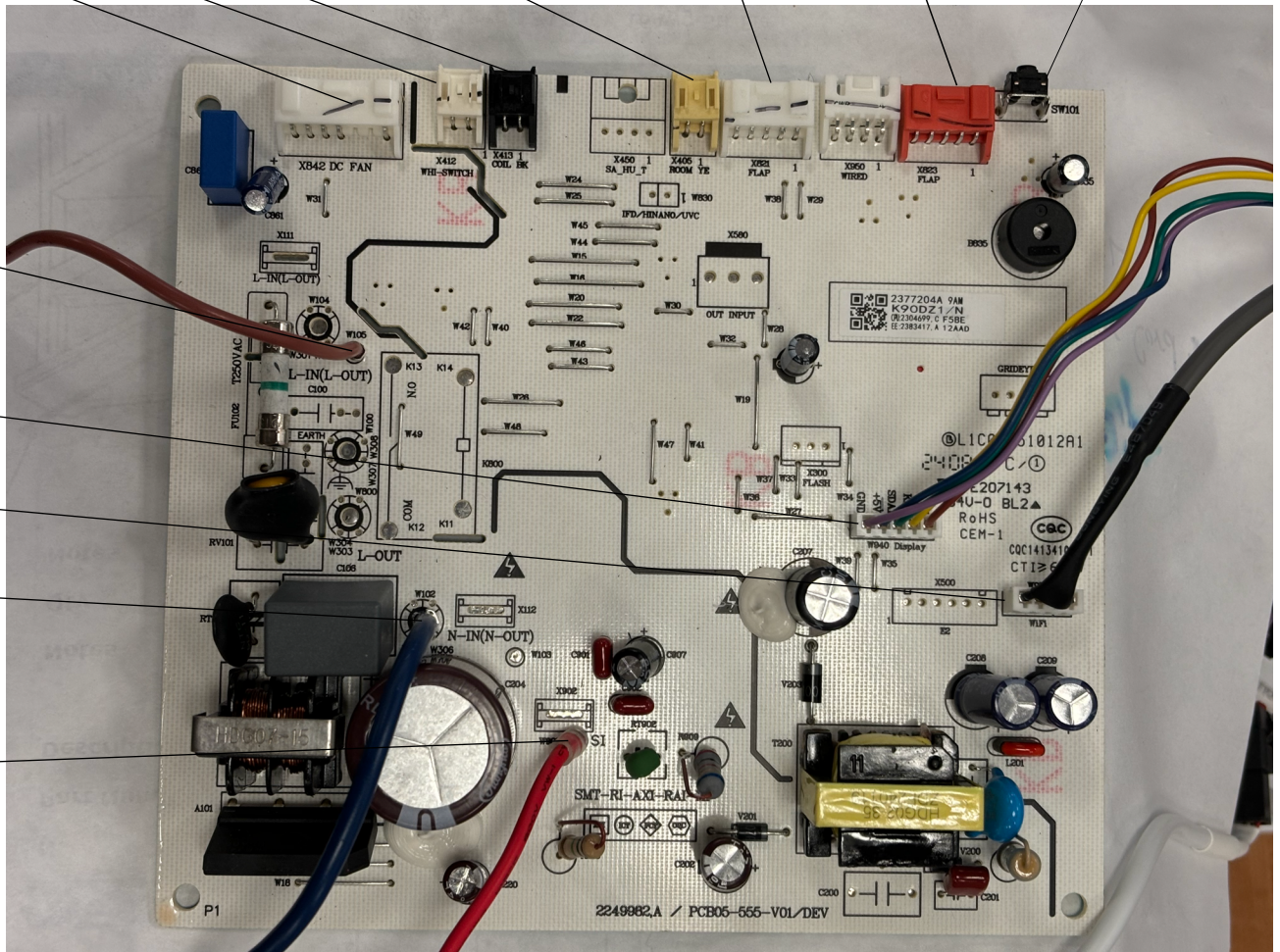


Figure 601

COMPONENTS TESTING

Indoor Fan Motor

Power Check:

- 1. Turn unit on.
- 2. Check indoor fan connector on main PCB.

There are 5 wires:

- Voltage for Power (Red) to Ground (Black) = 310 VDC
- Motor Return Voltage (White) to Ground (Black) = 15 VDC
- PWM (Yellow) to Ground (Black) = 0-6.5 VDC

3. DC Voltage test

Manually rotate indoor fan motor slowly for several revolutions, and measure voltage "YELLOW" and "GND" on motor. The voltage repeats 0V DC and 5V DC.

Notes:

- Do not hold motor by lead wires.
- Do not connect or disconnect the molex connector while power ON.
- Do not drop motor against hard material. Malfunction may not be observed at early stage after such shock. But it may be found later, this type of mishandling voids our warranty.



⚠ WARNING

ELECTRIC SHOCK HAZARD

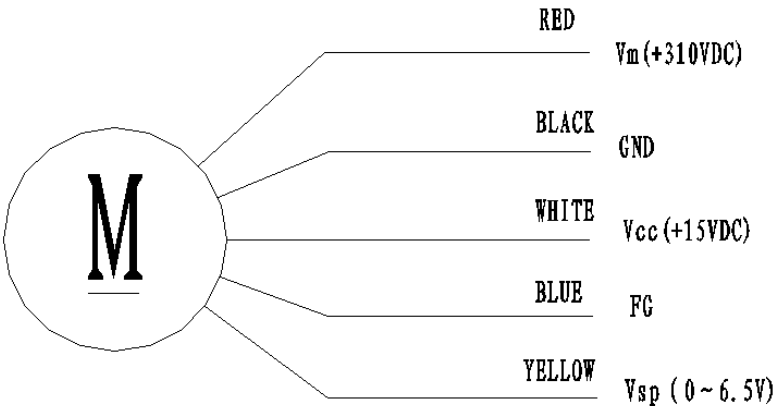
Turn off electric power before service or installation. Extreme care must be used, if it becomes necessary to work on equipment with power applied.

Failure to do so could result in serious injury or death.



Figure 602

Indoor DC Fan Motor



1	RED	$V_m(+310VDC)$
2	--	-----
3	--	-----
4	BLACK	GND
5	WHITE	$V_{cc}(+15VDC)$
6	BLUE	FG
7	YELLOW	$V_{sp}(0 \sim 6.5V)$

COMPONENT TESTING

Reversing Valve

A reversing valve is a component of a heat pump that changes the direction of refrigerant flow, allowing the system to function in both heating and cooling modes.

It consists of a pressure-operated, main valve and a pilot valve actuated by a solenoid plunger. The solenoid is energized by 24 vac during the heating cycle only.

The single tube on one side of the main valve body is the high-pressure inlet to the valve from the compressor. The center tube on the opposite side is connected to the low pressure (suction) side of the system. The other two are connected to the indoor and outdoor coils. Small capillary tubes connect each end of the main valve cylinder to the "A" and "B" ports of the pilot valve. A third capillary is a common return line from these ports to the suction tube on the main valve body. Four-way reversing valves also have a capillary tube from the compressor discharge tube to the pilot valve.

The plunger assembly in the main valve can only be shifted by the pressure differential between the high and low sides of the system. The pilot section of the valve opens and closes ports for the small capillary tubes to the main valve to cause it to shift.

Checking the Reversing Valve

NOTE: System operating pressures must be near normal before valve can shift. NOTE: You must have normal operating pressures before the reversing valve can shift.

Run the unit in the heating mode then disconnect connector CN 906 from the main PCB and the valve should shift to cooling mode. If valve does not shift - replace the valve (verify the unit is properly charged before replacing valve.) For a stuck valve diagnosis run in the cooling mode and check the temp difference between the suction line from the evaporator and the common suction line at the compressor, if there is more than a 3 °F difference then change the valve.

Checking The Reversing Valve Solenoid

The solenoid coil is an electromagnetic type coil mounted on the reversing valve and is energized during the operation of the compressor in the heating cycle.

1. Turn off high voltage electrical power to unit.
2. Unplug line voltage lead from reversing valve coil.
3. Check for electrical resistance through the coil. If the coil is open replace the coil.
4. Check from each lead of coil to the copper liquid line as it leaves the unit or the ground lug. There should be no continuity between either of the coil leads and ground; if there is, coil is grounded and must be replaced.
5. If coil tests okay, reconnect the electrical leads.
6. Make sure coil has been assembled correctly.

NOTE: Do not start unit with solenoid coil removed from valve, or do not remove coil after unit is in operation. This will cause the coil to burn out.

⚠ WARNING



ELECTRIC SHOCK HAZARD

Disconnect power to the unit before servicing. Failure to follow this warning could result in serious injury or death.

⚠ WARNING

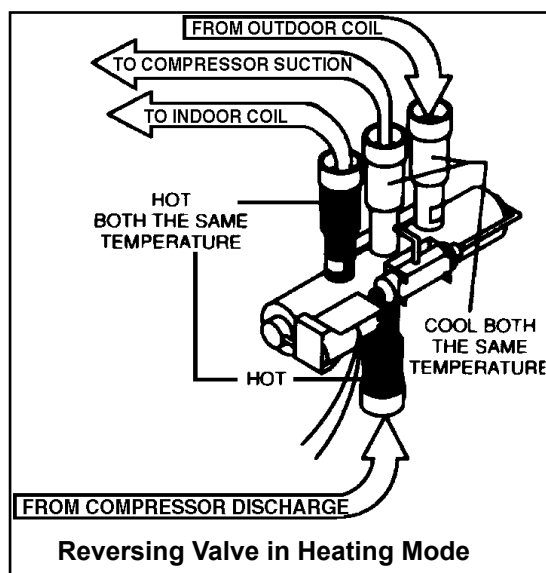


HIGH PRESSURE HAZARD

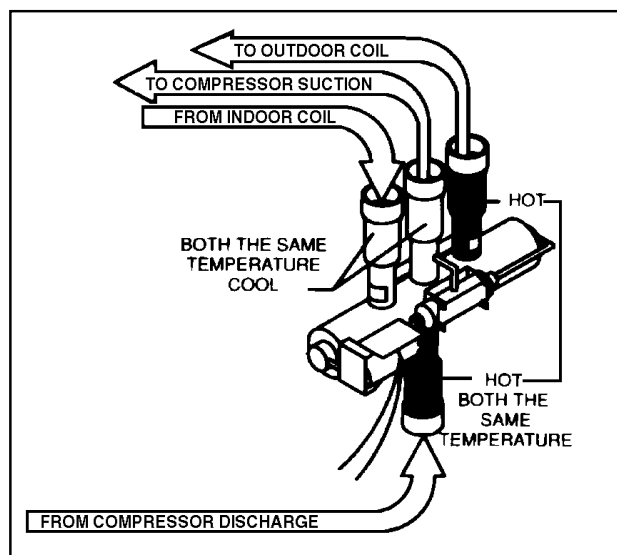
Sealed Refrigeration System contains refrigerant and oil under high pressure.

Proper safety procedures must be followed, and PPE must be utilized when working with refrigerants.

Failure to follow these procedures could result in serious injury or death.

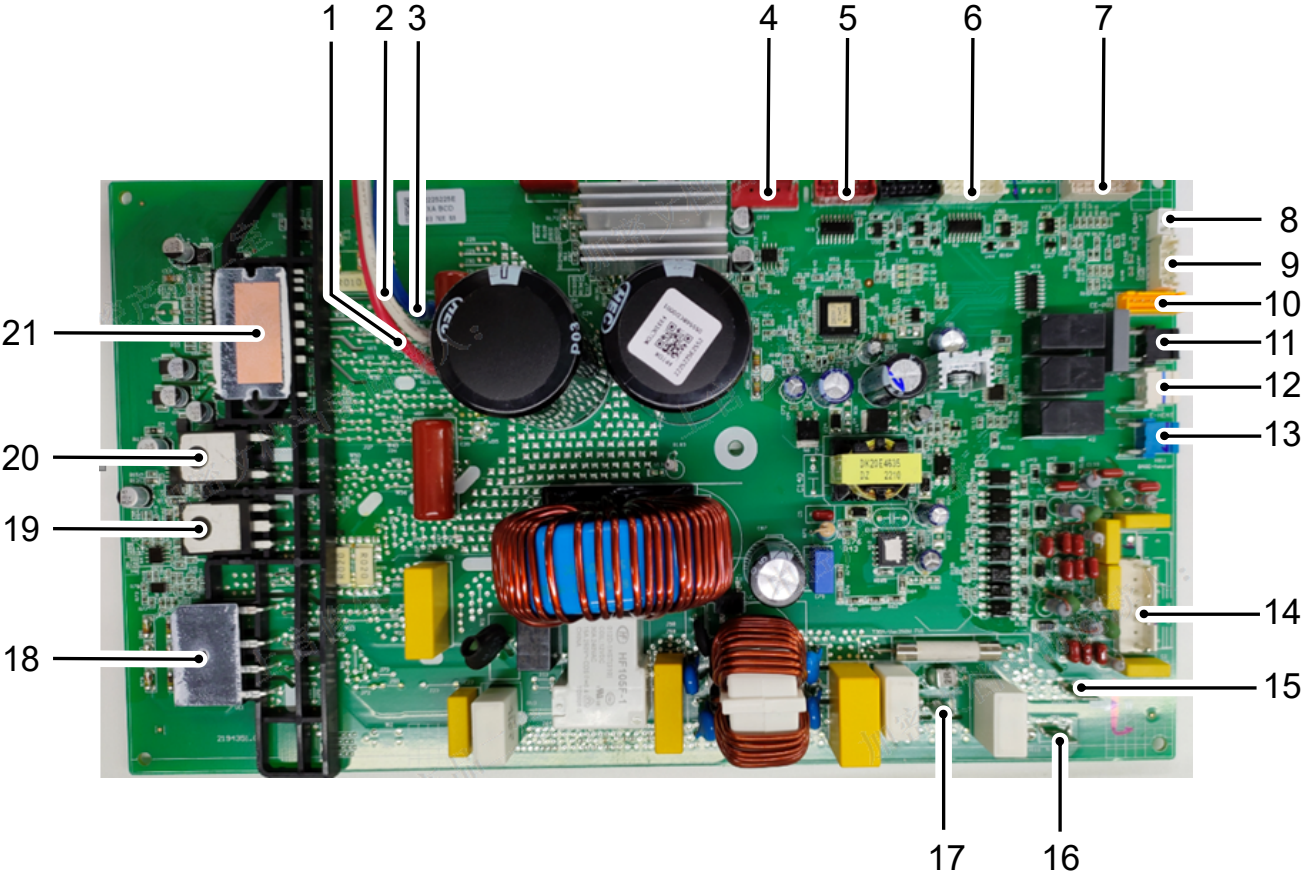


Reversing Valve in Heating Mode



COMPONENTS TESTING

Outdoor Unit - Main PCB ID
FPHMR18A3D

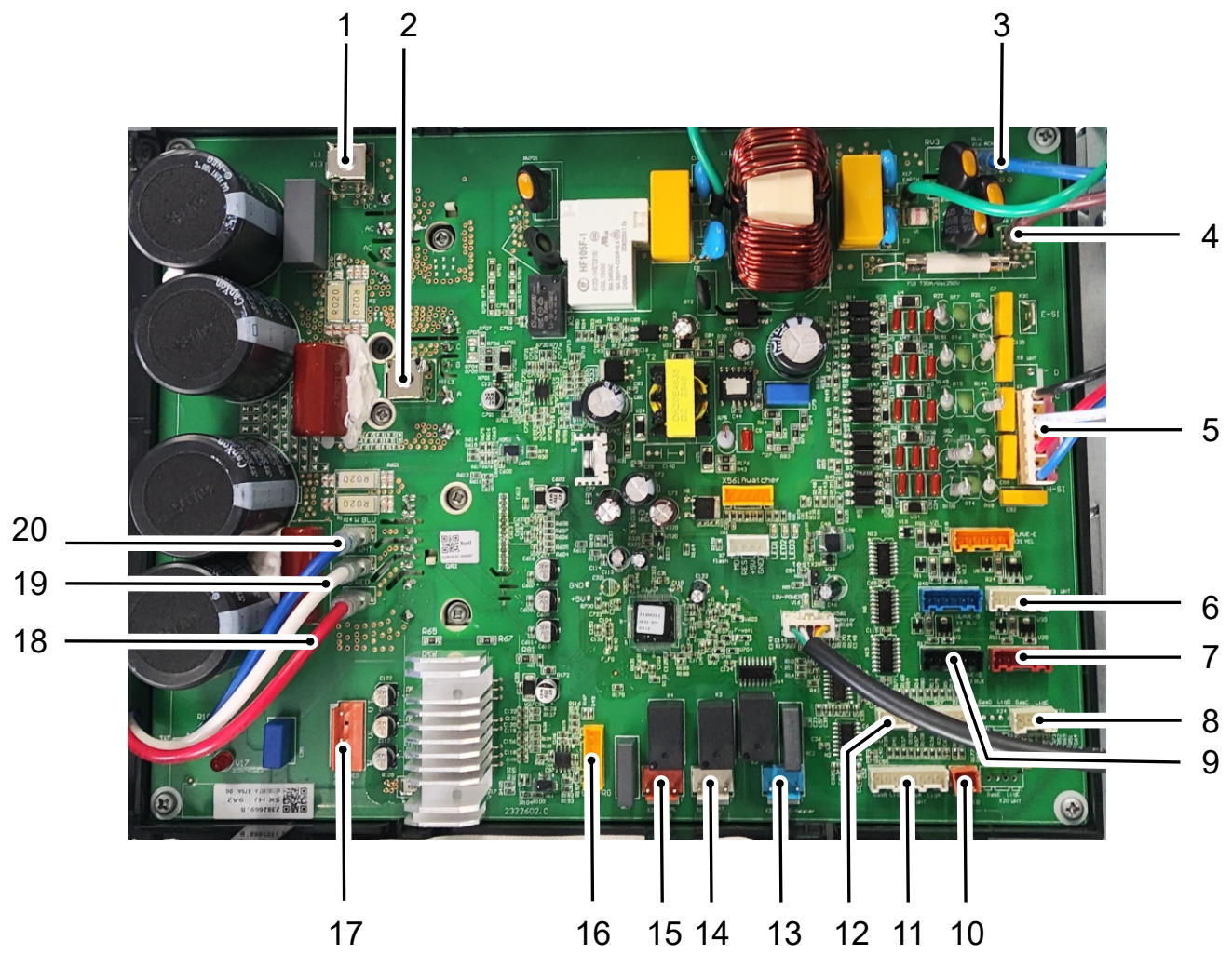


NO.	Description	NO.	Description
1	Compressor U	12	Electric Heating Belt
2	Compressor V	13	Base Heater
3	Compressor W	14	Communication Signal to Indoor
4	DC Motor	15	AC Power Lin
5	Electronic Expansion Valve A	16	AC Power Nin
6	Electronic Expansion Valve B	17	Earth
7	Ambient/ Coil/ Discharge Temp Sensor	18	Bridge Rectifier
8	EEPROM Flashing	19	IGBT
9	Communication Signal to Computer	20	Power Diode
10	EE PRG	21	IPM Module Circuit
11	4-way Valve		

Figure 603

COMPONENTS TESTING

Outdoor Unit - Main PCB ID
FPHMR27A3D

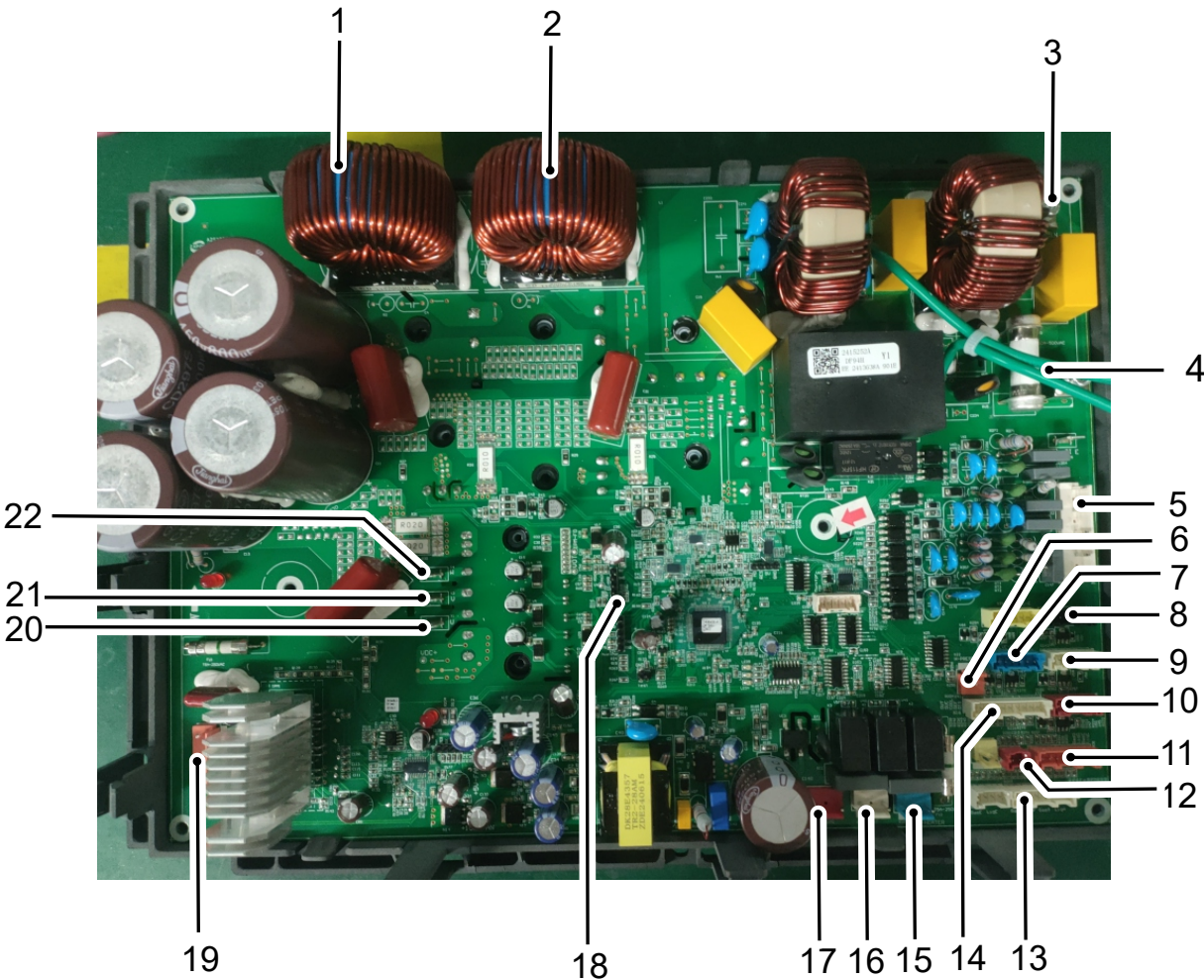


NO.	Description	NO.	Description
1	Reactor L1	11	Gas B/ Liquid B / Gas A/ Liquid A Sensor
2	Reactor L2	12	Discharge/defrost/coil/suction/outdoor sensor
3	AC Power Nin	13	Base Heater
4	AC Power Lin	14	Electric Heating Belt
5	SI	15	4-way Valve
6	Electronic Expansion Valve B	16	EEPROM Flashing
7	Electronic Expansion Valve A	17	DC Motor
8	Gas C/ Liquid C Sensor	18	Compressor U
9	Electronic Expansion Valve C	19	Compressor V
10	Overheat protector	20	Compressor W

Figure 604

COMPONENTS TESTING

Outdoor Unit - Main PCB ID
FPHMR36A3D, FPHMR42A3D

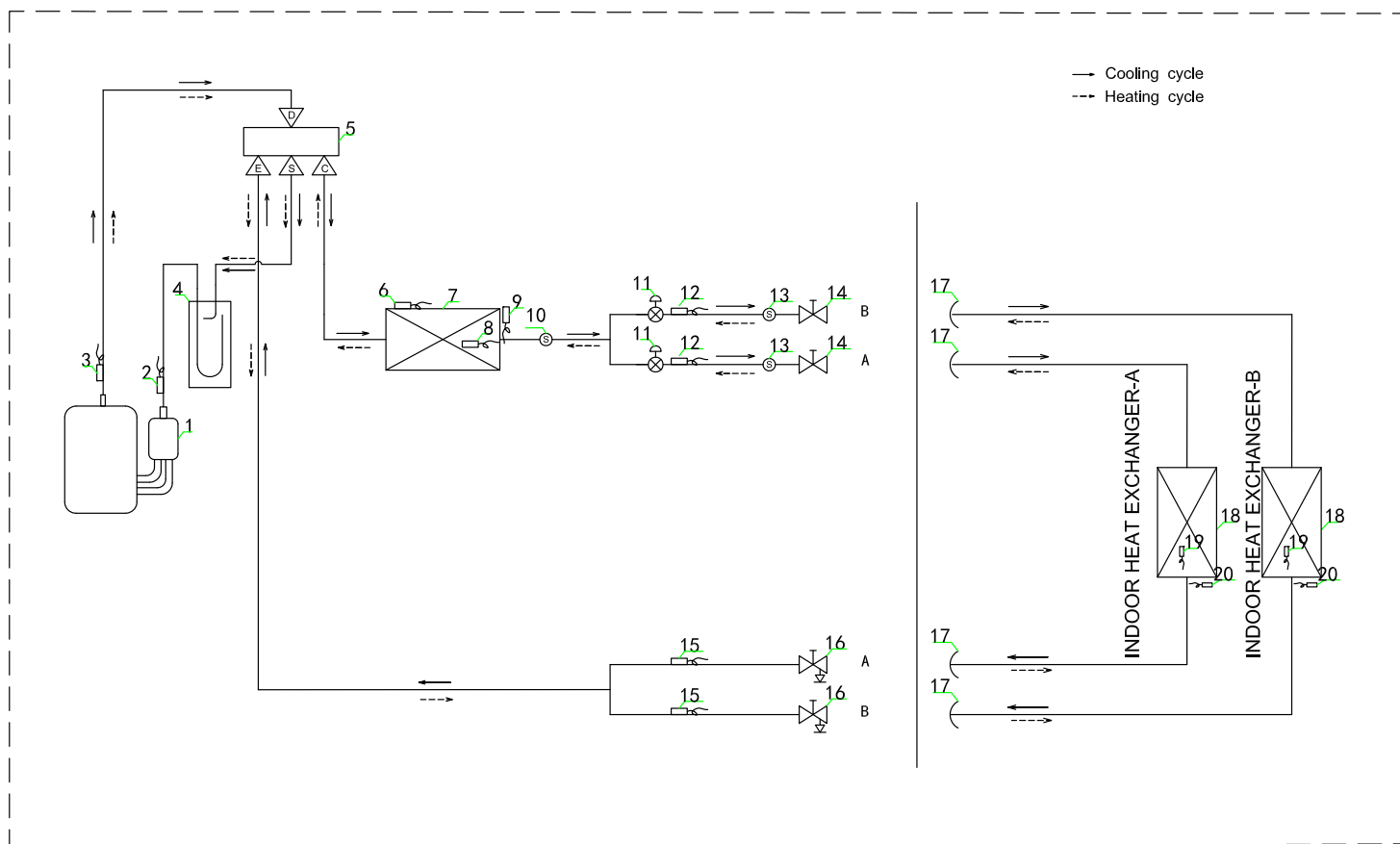


NO.	Description	NO.	Description
1	Reactor L2	12	Overheat protector
2	Reactor L1	13	GasB/LiqB/GasA/LiqA sensor
3	N-IN	14	Discharge/defrost/coil/suction/ outdoor sensor
4	L-IN	15	Base heater
5	SI-(A-D)	16	Electric heating belt
6	H-press	17	4-way valve
7	Electronic expansion value D	18	EEPROM
8	Electronic expansion value C	19	DC fan motor
9	Electronic expansion value B	20	Compressor U
10	Electronic expansion value A	21	Compressor V
11	GasD/LiqD/ GasC/LiqC sensor	22	Compressor W

Figure 605

R-454B SEALED SYSTEM REPAIR

Refrigerant Cycle 18k



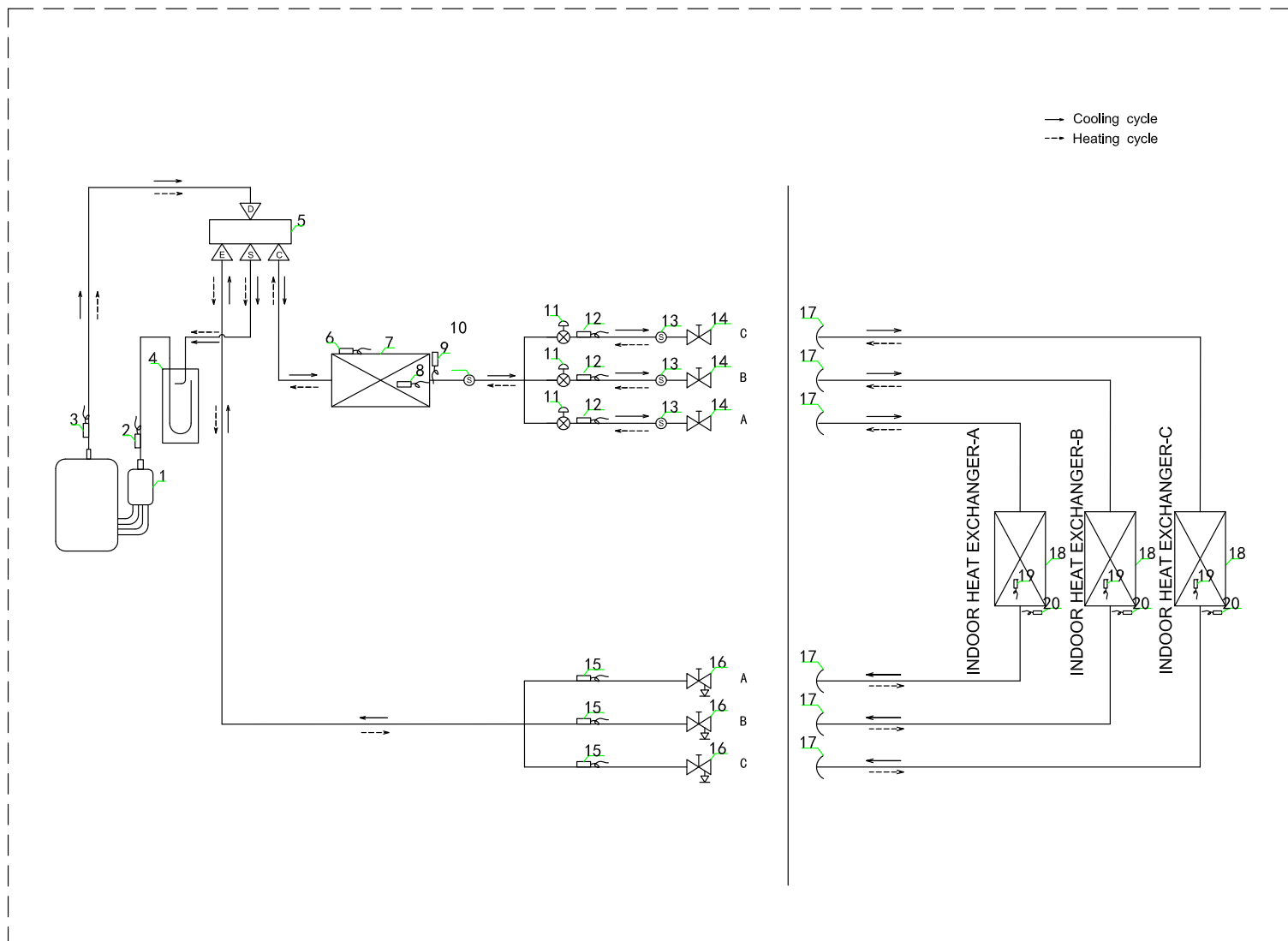
List of components

1	Two-rotor compressor	11	Electronic expansion valve
2	Suction temperature sensor	12	Gas tube temperature sensor
3	Discharge temperature sensor	13	Strainer
4	Accumulator	14	Stop valve
5	4-Way valve	15	Liquid tube temperature sensor
6	Ambient temperature sensor	16	Stop valve(Needle)
7	Outdoor heat exchanger	17	Hexagon nut
8	Coil temperature sensor	18	Indoor heat exchanger
9	Frost temperature sensor	19	Coil temperature sensor
10	Strainer	20	Ambient temperature sensor

Figure 701

R-454B SEALED SYSTEM REPAIR

Refrigerant Cycle 27k

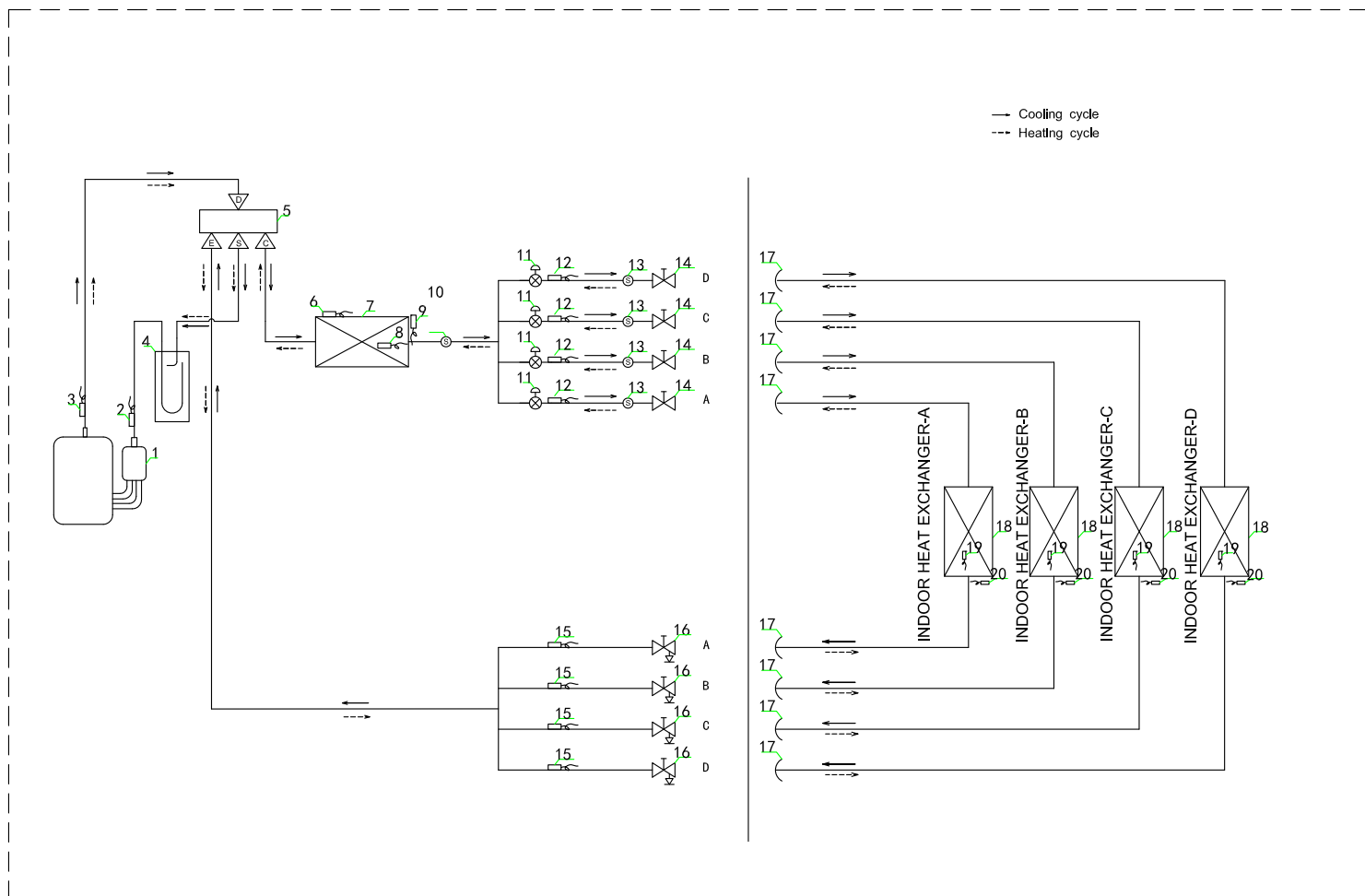


List of components			
1	Two-rotor compressor	11	Electronic expansion valve
2	Suction temperature sensor	12	Gas tube temperature sensor
3	Discharge temperature sensor	13	Strainer
4	Accumulator	14	Stop valve
5	4-Way valve	15	Liquid tube temperature sensor
6	Ambient temperature sensor	16	Stop valve(Needle)
7	Outdoor heat exchanger	17	Hexagon nut
8	Coil temperature sensor	18	Indoor heat exchanger
9	Frost temperature sensor	19	Coil temperature sensor
10	Strainer	20	Ambient temperature sensor

Figure 702

R-454B SEALED SYSTEM REPAIR

Refrigerant Cycle 36k

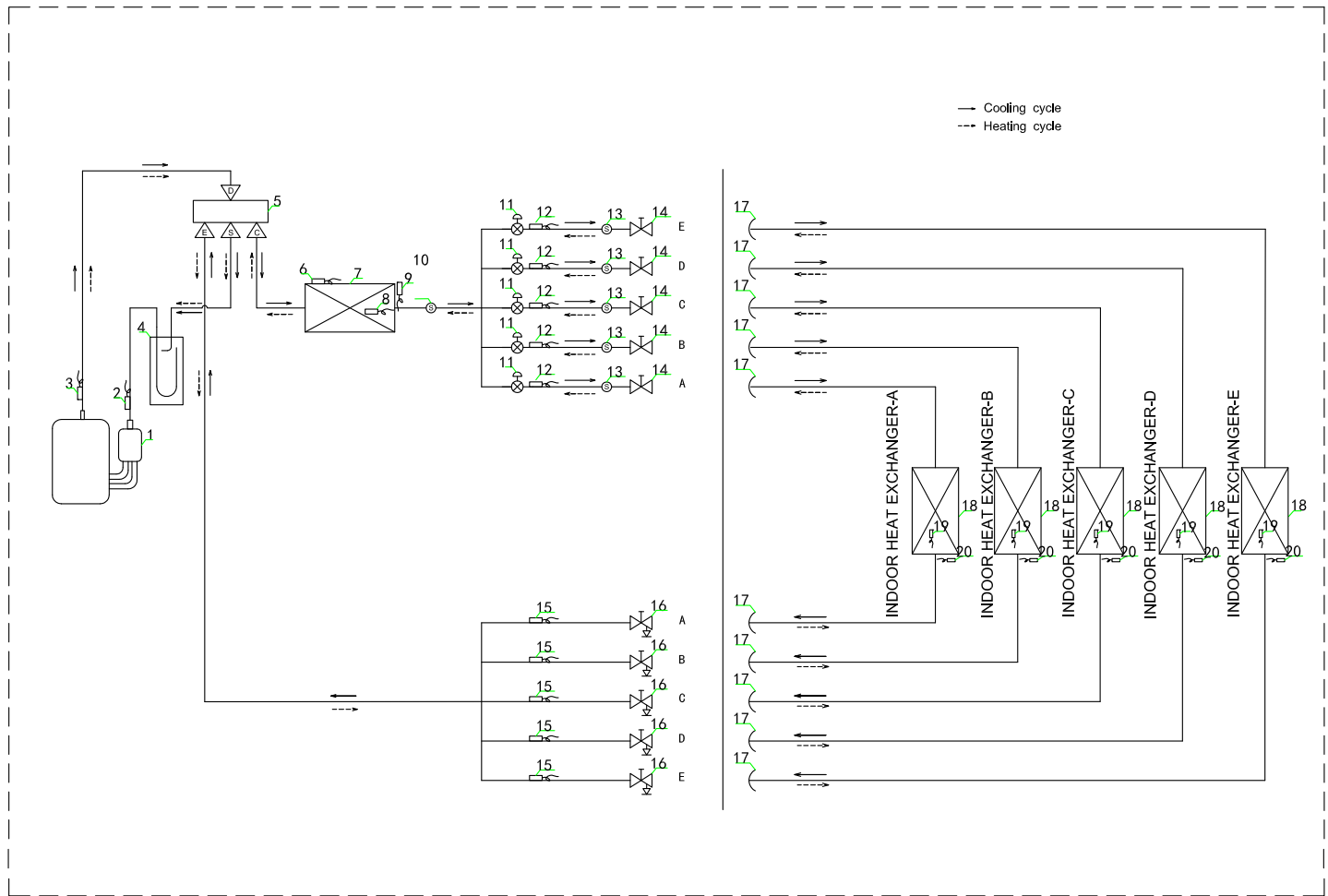


List of components			
1	Two-rotor compressor	11	Electronic expansion valve
2	Suction temperature sensor	12	Gas tube temperature sensor
3	Discharge temperature sensor	13	Strainer
4	Accumulator	14	Stop valve
5	4-Way valve	15	Liquid tube temperature sensor
6	Ambient temperature sensor	16	Stop valve(Needle)
7	Outdoor heat exchanger	17	Hexagon nut
8	Coil temperature sensor	18	Indoor heat exchanger
9	Frost temperature sensor	19	Coil temperature sensor
10	Strainer	20	Ambient temperature sensor

Figure 703

R-454B SEALED SYSTEM REPAIR

Refrigerant Cycle 42k



List of components			
1	Two-rotor compressor	11	Electronic expansion valve
2	Suction temperature sensor	12	Gas tube temperature sensor
3	Discharge temperature sensor	13	Strainer
4	Accumulator	14	Stop valve
5	4-Way valve	15	Liquid tube temperature sensor
6	Ambient temperature sensor	16	Stop valve(Needle)
7	Outdoor heat exchanger	17	Hexagon nut
8	Coil temperature sensor	18	Indoor heat exchanger
9	Frost temperature sensor	19	Coil temperature sensor
10	Strainer	20	Ambient temperature sensor

Figure 704

R-454B SEALED SYSTEM REPAIR

General Information

WARNING: Electrical Shock Hazard

Disconnect all power to the unit before starting maintenance. All electrical connections and wiring **MUST** be installed by a qualified electrician and conform to all codes which have jurisdiction. Failure to do so can result in property damage, severe electrical shock or death.



WARNING: This Product uses R-454B Refrigerant

Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.

When not installed, the appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).

Do not pierce or burn.

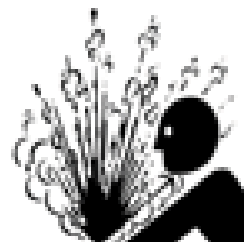
Be aware that refrigerants may not contain an odor.



**Refrigerant
Safety Group
A2L**

WARNING: Refrigeration System under High pressure

Do not puncture, heat, expose to flame or incinerate. Only certified refrigeration technicians should service this equipment. R-454B systems operate at higher pressures than R22 equipment. Appropriate safe service and handling practices must be used.



 **Warning:** Prior to beginning work on systems containing FLAMMABLE REFRIGERANTS, safety checks are necessary to ensure that the risk of ignition is minimized.

NOTICE: Individuals working on these units must be EPA 608 Certified along with A2L Refrigerant Training.

 **Warning:** Refrigerant 32 cannot be used as a retrofit for R-410A refrigerant. The mixing of refrigerant across classes is prohibited. R-454B is not a drop in replacement for R-410A.

General Work Area: All maintenance staff and others working in the installation area shall be instructed on the nature of work being carried out. Work in confined spaces as defined by the Occupational Safety And Health Administration shall be avoided.

 **Warning:** Job site should be examined for safety hazards such as flammable vapors, ignition sources, ventilation and confined spaces. Create a safe perimeter with barriers and signs designating a flammable area.

 **Warning:** Work shall be undertaken under a controlled procedure so as to minimise the risk of a flammable gas or vapor being present while the work is being performed.

Check for presence of refrigerant:

- The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially toxic or flammable atmospheres.
- Ensure that the leak detection equipment being used is suitable for use with all applicable refrigerants, i.e. non-sparking, adequately sealed or intrinsically safe.
- Under no circumstances shall potential sources of ignition be used in the searching for or detection of refrigerant leaks. A halide torch (or any other detector using a naked flame) shall not be used.
- The following leak detection methods are deemed acceptable for all refrigerant systems:
 1. Electronic leak detectors may be used to detect refrigerant leaks but, in the case of FLAMMABLE REFRIGERANTS, the sensitivity may not be adequate, or may need re-calibration. (Detection equipment shall be calibrated in a refrigerant-free area.) Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant used.
 2. Leak detection fluids are also suitable for use with most refrigerants but the use of detergents containing chlorine shall be avoided as the chlorine may react with the refrigerant and corrode the copper pipe-work.

If a leak is suspected, all flame sources shall be removed/extinguished.

If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system per EPA guidelines.

Presence of fire extinguisher: If any hot work is to be conducted on the refrigerating equipment or any associated parts, a class ABC Rated fire extinguishing equipment shall be available to hand. Have a class ABC Rated fire extinguisher adjacent to the charging area.

R-454B SEALED SYSTEM REPAIR

General Information

Warning:

No ignition sources: No person carrying out work in relation to a REFRIGERATING SYSTEM which involves exposing any pipe work shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion. All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which refrigerant can possibly be released to the surrounding space. Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks.

Ventilated Area: Ensure that the area is in the open or that it is adequately ventilated before accessing the refrigerant in the system or conducting any hot work. A degree of ventilation shall continue during the period that the work is carried out. The ventilation should safely disperse any released refrigerant away from the work area or external to building envelope.

During Repairs To Sealed Components: All power must be removed from the equipment being worked on prior to any removal of sealed covers, etc. If it is absolutely necessary to have an electrical supply to equipment during servicing, then a constant leak detector shall be located at the most critical point to warn of a potentially hazardous situation.

Checks And Repairs To Electrical Devices:

- Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with. If the fault cannot be corrected remove power supply to unit. **DO NOT OPERATE.**
- Initial safety checks shall include:
 - That capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking;
 - That no live electrical components and wiring are exposed while charging, recovering or purging the system;
 - Verify unit is properly grounded.
- Particular attention shall be paid to the following to ensure that by working on electrical components, the casing is not altered in such a way that the level of protection is affected. This shall include damage to cables, excessive number of connections, terminals not made to original specification, damage to seals, incorrect fitting of glands, etc.
- Ensure that the apparatus is mounted securely.
- Ensure that seals or sealing materials have not degraded to the point that they no longer serve the purpose of preventing the ingress of flammable atmospheres. Replacement parts shall be in accordance with the manufacturer's specifications.
-

The following is a list of important considerations when working with R-454B equipment:

- R-454B pressure is similar to R-410A and approximately 60% higher than R-22 pressure.
- R-454B cylinders must not be allowed to exceed 125°F, they may leak or rupture.
- R-454B must never be pressurized with a mixture of compressed air, it may become MORE flammable.
- Servicing equipment and components must be specifically designed for use with R-454B and dedicated to prevent contamination.
- Manifold sets must be equipped with gauges capable of reading 750 psig (high side) and 200 psig (low side), with a 500-psig low-side retard.
- Gauge hoses must have a minimum 750-psig service pressure rating.
- Recovery cylinders must have a minimum service pressure rating of 400 psig, (DOT 4BA400 and DOT BW400 approved cylinders).
- POE (Polyol-Ester) lubricants must be used with R-454B equipment.
- To prevent moisture absorption and lubricant contamination, do not leave the refrigeration system open to the atmosphere for extended periods of time.
- If unit refrigerant is low, recover the refrigerant, evacuate, and recharge unit to nameplate amount.
- If there is any amount of refrigerant in the system charge from the low side.
- Always charge by liquid inverted.

Verify with tool manufacturers that all tools used during this repair are non-sparking and can be used with A2L Refrigerants.

No halide torches for leak testing.

Refrigerant monitors or detectors must be used to detect refrigerant in the work area.

- R-454B A2L Refrigerant Recovery System.
- Vacuum Pump rated for A2L refrigerant (capable of 300 microns or less vacuum.)
- Nitrogen bottle with purging and pressurizing capabilities up to 550 psi.
- Oxy/ Acetylene torch or similar equipment utilized for brazing.
- Non-Sparking (Not Halide) Electronic Leak Detector rated for detecting A2L refrigerant.
- Digital refrigerant scale
- Refrigeration Gauges rated for A2L Refrigerants with temp scales for R-454B refrigerant.
- Gauge Manifold (Right handed threads).
- A2L compatible Vacuum Gauge capable of 300 microns or less.
- Nitrogen regulator for purging and testing, rated to 800 psi. (Capable of low psi flow)
- Pipe tubing cutter.
- Refrigerant recovery cylinder. (Flammable A2L label)
- Ventilation fan.
- Class ABC fire extinguisher.
- Process Tube adapter kit

R-454B SEALED SYSTEM REPAIR

Required Equipment

- Recovery access tool.
- Purge hose fittings
- Pinch off and opening tools



ABC Fire Extinguisher



Recovery Machine



Vaccum Pump



Nitrogen



Guage Manifold



Nitrogen Regulator



Vaccum Guage



Recovery access tool



Process tube adapter kit



Purge hose fittings



Pinch off and opening tools



R-454B SEALED SYSTEM REPAIR

Refrigerant Removal, Recovery, and Evacuation

NOTE: When accessing the refrigerant in the system to make repairs or for any other purpose, conventional procedures shall be used. However, for FLAMMABLE REFRIGERANTS (R-454B is classified in the A2L group for mildly flammable refrigerants) it is important that best practice is followed since flammability is a consideration. Follow all EPA 608 regulations and procedures along with AHRI 15 Best Practices for A2L refrigerants.



Warning: Ensure sufficient ventilation at the repair place.



Warning: Ensure there are no open flame sources or hot surfaces that exceed 1200°F in the work area.



Warning: Discharge capacitors in a way that won't cause any spark. The standard procedure to short circuit the capacitor terminals usually creates sparks.

NOTICE: Ensure that the following precautions are taken prior to opening the sealed system.

- Verify Recovery machine is rated for A2L refrigerants.
- Mark the Job site inspection area as flammable work zone using appropriate signs.
- Utilize a Refrigerant leak detector or refrigerant monitor to sense the area for the presence of refrigerants.
- Disconnect all power supply to unit.
- Properly ground all equipment and hoses along with tank to prevent a static build up .
- Ensure adequate ventilation is provided for the job site.
- Do not mix A2L refrigerant Gages and hoses with other refrigerants.
- Keep exposure of refrigerant to Air to as minimum as possible (creates a dangerous condition).
- Under no circumstances is the mixing of refrigerants in the recovery cylinders allowed and should be strictly avoided at all times. Do not introduce oxygen into any recovery cylinders.

1. Recover refrigerant to EPA sec. 608 standards. If a low charge is suspected weigh recovered refrigerant and compare to unit nameplate. Refer to Figure G.3

NOTE: DO NOT RECOVER TO A VACUUM PRIOR TO FLUSHING WITH NITROGEN. STOP RECOVERY AT 0-5 PSI.

3. Purge system with dry nitrogen.(3-5 minutes).

- 4. Perform an evacuation to 500 microns and break vacuum with Dry Nitrogen.
- 5. Re-purge the unit for 3-5 minutes or until the nitrogen flows out both process tubes.
- 6. Re-evacuate unit to 500 microns and break vacuum with Dry Nitrogen.
- 8. Open the refrigerant circuit by cutting out components.

Transportation

Be aware that local, state, and national codes exist that regulate the transportation of flammable gases. Be sure to become informed of the regulations and always stay compliant.

R-454B SEALED SYSTEM REPAIR

Component Replacement/Brazing

 **Warning:** Ensure sufficient ventilation at the repair place.

 **Warning:** Presence of fire extinguisher. If any hot work is to be conducted on the refrigerating equipment or any associated parts, have a ABC class fire extinguisher available to hand.

 **Warning:** No person carrying out work in relation to a REFRIGERATING SYSTEM which involves exposing any pipe work shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion. All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which refrigerant can possibly be released to the surrounding space. Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks.

 **Warning:** Ensure there are no open flame sources or hot surfaces that exceed 1200°F in the work area.

NOTE: When brazing is required, the following procedures shall be carried out in the right order:

1. Remove and recover refrigerant, and evacuate the system. Refer to the [refrigerant removal, recovery, and evacuation section](#) of this manual.

 **Warning:** Under no circumstances shall potential sources of ignition be used in the searching for or detection of refrigerant leaks. A halide torch (or any other detector using a naked flame) shall not be used.

2. Perform a check of the work area for the presence of flammable refrigerant prior to brazing or performing any hot work. Use a non-Sparking (Not Halide) A2L certified Electronic Leak Detector rated for detecting R-454B refrigerant.

3. Re-pipe all repairs and install all components to sealed system.

4. Purge nitrogen through the unit. at approximately 2-3 psi through the duration of the brazing process. (Nitrogen must be purging through the unit while any brazing is being performed.)

5. Pressure test unit to 550 psi minimum and hold pressure for 30 minutes minimum. Inspect for any leaks with a leak detection fluid and repair as required. Repeat as required until system passes leak test.

6. Triple evacuate the unit to achieve a 500 micron level.

7. Pressurize nitrogen to 550 psi and leak test all connections with a leak detection fluid. Repair any leaks found.

8. Reassemble sealed enclosures accurately. If seals are worn, replace them.

9. Charge the system with the amount of refrigerant specified on the model nameplate. [Refer to the refrigerant charging section](#) of this manual for charging procedures.

R-454B SEALED SYSTEM REPAIRS

Refrigerant Charging

WARNING: Electrical Shock Hazard

Disconnect all power to the unit before starting maintenance. All electrical connections and wiring **MUST** be installed by a qualified electrician and conform to all codes which have jurisdiction. Failure to do so can result in property damage, severe electrical shock or death.



WARNING: This Product uses R-32 Refrigerant

Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.

When not installed, the appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater).

Do not pierce or burn.

Be aware that refrigerants may not contain an odor.



Refrigerant
Safety Group
A2L

WARNING: Refrigeration System under High pressure

Do not puncture, heat, expose to flame or incinerate. Only certified refrigeration technicians should service this equipment. R32 systems operate at higher pressures than R22 equipment. Appropriate safe service and handling practices must be used.

WARNING: Freeze Hazard

Proper safety procedures must be followed, and all PPE must be utilized when working with liquid refrigerant. Failure comply could result in minor to moderate injury.



NOTE: Always weigh in refrigerant based on the model nameplate.

Warning:

- Ensure that contamination of different refrigerants does not occur when using charging equipment.
- Hoses or lines shall be as short as possible to minimise the amount of refrigerant contained in them.
- Charge unit with refrigerant cylinder in the inverted position to obtain liquid refrigerant.
- Charge the unit according to the amount on the name plate matching the unit.
- Extreme care shall be taken not to overfill the REFRIGERATING SYSTEM.
- Prior to recharging a system, it shall be pressure-tested with the dry nitrogen.

The acceptable method for charging the sealed system is the Weighed in Charge Method. The weighed in charge method is applicable to all units. It is the preferred method to use, as it is the most accurate.

The weighed in method should always be used whenever a charge is removed from a unit such as for a leak repair, compressor replacement, or when there is no refrigerant charge left in the unit. To charge by this method, requires the following steps:

-  **Warning:** Ensure sufficient ventilation at the repair place.

-  **Warning:** Ensure there are no open flame sources or hot surfaces that exceed 1200°F in the work area.

1. Recover Refrigerant in accordance with EPA regulations. (Refer to [Refrigerant Removal, Recovery, and Evacuation Section](#)).

NOTE: If a low charge is suspected weigh recovered refrigerant and compare to unit nameplate.

NOTE: Service ports are located on the side of the unit. See figure G.3.

2. Weigh in the refrigerant charge with the proper quantity of R-454B refrigerant per model nameplate.

3. Perform triple evacuation.

NOTE: EPA Section 608 regulations require that if a system is charged with flammable refrigerant it must have red markings on the service ports.

R-454B SEALED SYSTEM REPAIRS

Refrigerant Charging

Triple Evacuation

Friedrich requires all installations are Leak Checked and Evacuated in accordance to the "triple evacuation" process. This process promotes a dry tight refrigeration system before opening the service valves. It recommended that a single port refrigeration manifold and hoses rated over 31.5 psi be used. Refrigeration hose valves, along with a vacuum pump and micron gauge, must be used to ensure the system can be vacuumed and held under 500 microns. Check all equipment and hoses for proper usage and leaks before beginning.

1. 1st Nitrogen Pressure Test:

Ensure all refrigeration connections are properly flared, secured, and torqued to their respective settings.

Pressurize the system with nitrogen to 550 psi. Soap all connections with an approved refrigerant leak detection solution.

The pressure in the system must hold for one hour respective to the environmental conditions and should not vary less than 540psi. If pressure can not be adequate held, check integrity of flares and torque specifications. Once pressure is held adequately, purge the nitrogen charge to system pressure of 5-10 psi. **DO NOT RETURN TO ATMOSPHERIC PRESSURE.**

2. 1st Vacuum Micron Test:

Connect hoses and vacuum pump to the outdoor unit as shown in Fig. 436. Start the vacuum pump and vacuum to 1000 microns. Close the valve to the vacuum pump and check for micron rise for 15 minutes. If microns rise to near atmospheric pressure, there is a potential leak; repeat step 1. If microns rise over 5000, the system is very wet and will require further nitrogen purges.

3. 2nd Nitrogen Break:

Once the system holds below 5000 microns, reconnect the nitrogen tank break the system vacuum with 30-50 psi of nitrogen. Wait 5 minutes, then purge to 5-10 psi. **DO NOT RETURN TO ATMOSPHERIC PRESSURE.**

4. 2nd Vacuum Micron Test:

Reconnect vacuum pump and gauge and begin evacuation. Vacuum system to 500 microns. Close vacuum valve and check for micron rise. Vacuum should hold under 1000 microns. Repeat steps 3 and 4 until achieved.

5. 3rd Nitrogen Break:

Once the system holds below 1000 microns, reconnect the nitrogen tank break the system vacuum with 30-50 psi of nitrogen. Wait 5 minutes, then purge to 5-10 psi. **DO NOT RETURN TO ATMOSPHERIC PRESSURE.**

6. 3rd Final Vacuum Micron Test:

Reconnect vacuum pump and gauge and begin evacuation. Vacuum system to 300 microns. Close vacuum valve and check for micron rise. Vacuum should hold under 500 microns. Repeat steps 3 and 4 until achieved. Once held under 500 microns, the system is considered dry and tight.

7. Charging the system:

Unscrew Service Valve Caps to expose the inner hexagon head. Use an allen-head spanner or service wrench with appropriate adapter to release the refrigerant into the system. If the calculated line set length is over 2 ft, weight in the additional charge with an approved refrigerant scale as needed. Refer to installation section of this manual.

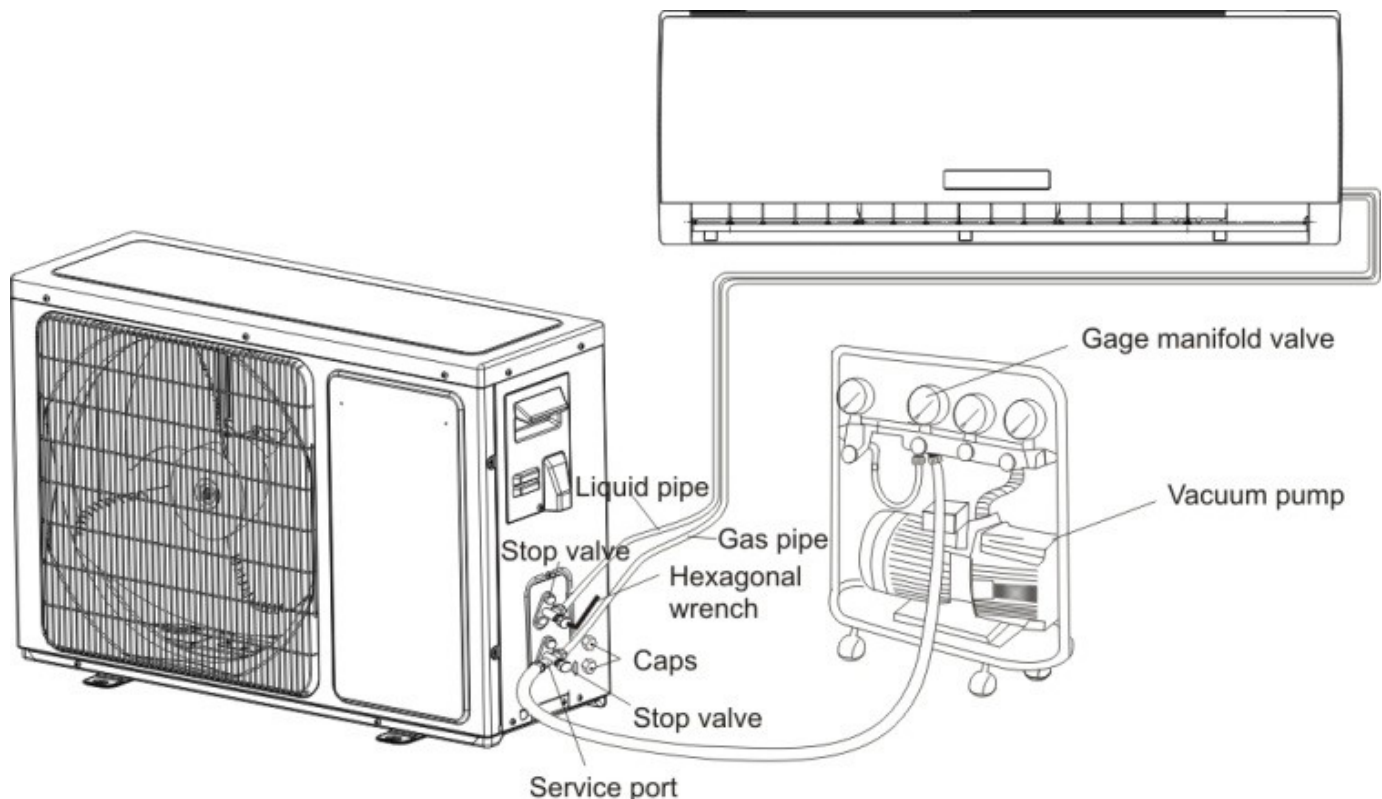


Figure 705

R-454B SEALED SYSTEM REPAIRS

Compressor Replacement

⚠ WARNING	
	ELECTRIC SHOCK HAZARD Turn off electric power before service or installation. Extreme care must be used, if it becomes necessary to work on equipment with power applied. Failure to do so could result in serious injury or death.

⚠ WARNING	
	HIGH PRESSURE HAZARD Sealed Refrigeration System contains refrigerant and oil under high pressure. Proper safety procedures must be followed, and PPE must be utilized when working with refrigerants. Failure to follow these procedures could result in serious injury or death.

⚠ WARNING	
	EXPLOSION HAZARD The use of nitrogen requires a pressure regulator. Follow all safety procedures and wear protective safety clothing etc. Failure to follow proper safety procedures could result in serious injury or death.

⚠ CAUTION	
	FREEZE HAZARD Proper safety procedures must be followed, and proper protective clothing must be worn when working with liquid refrigerant. Failure to follow these procedures could result in minor to moderate injury.

⚠ WARNING	
	NEVER , under any circumstances, liquid charge a rotary-compressor through the LOW side. Doing so would cause permanent damage to the new compressor. Use a charging adapter.

1. Be certain to perform all necessary electrical and refrigeration tests to be sure the compressor is actually defective before replacing.

2. Recover all refrigerant from the system through the process tubes. Refer to [Refrigerant Removal, Recovery, and Evacuation](#) Section of this manual).

PROPER HANDLING OF RECOVERED REFRIGERANT ACCORDING TO EPA REGULATIONS IS REQUIRED.

3. After all refrigerant has been recovered, cut and remove compressor. Be certain to have both suction and discharge process tubes open to atmosphere.

4. Install the replacement compressor.

CAUTION: Seal all openings on the defective compressor immediately. Compressor manufacturers will void warranties on units received not properly sealed. Do not distort the manufacturers tube connections.

5. Braze all connections. Refer to the [Component Replacement/Brazing section](#) of this manual.

6. Charge system with proper amount of refrigerant per the model nameplate. Refer to the [Refrigerant charging section of this manual](#).

R-454B SEALED SYSTEM REPAIR

Replace The Reversing Valve

⚠ WARNING	
	HIGH PRESSURE HAZARD Sealed Refrigeration System contains refrigerant and oil under high pressure.
	Proper safety procedures must be followed, and PPE must be utilized when working with refrigerants.
	Failure to follow these procedures could result in serious injury or death.

⚠ WARNING	
	EXPLOSION HAZARD The use of nitrogen requires a pressure regulator. Follow all safety procedures and wear protective safety clothing etc.
	Failure to follow proper safety procedures could result in serious injury or death.

NOTICE
FIRE HAZARD The use of a torch requires extreme care and proper judgment. Follow all safety recommended precautions and protect surrounding areas with fire proof materials. Have a fire extinguisher readily available. Failure to follow this notice could result in moderate to serious property damage.

1. Recover all refrigerant from the system through the process tubes. Refer to [Refrigerant Removal, Recovery, and Evacuation](#) Section of this manual).

PROPER HANDLING OF RECOVERED REFRIGERANT ACCORDING TO EPA REGULATIONS IS REQUIRED.

2. Remove solenoid coil from reversing valve. If coil is to be reused, protect from heat while changing valve.

NOTE: When brazing a reversing valve into the system, it is of extreme importance that the temperature of the valve does not exceed 250°F at any time.

Wrap the reversing valve with a large rag saturated with water. "Re-wet" the rag and thoroughly cool the valve after each brazing operation of the four joints involved.

The wet rag around the reversing valve will eliminate conduction of heat to the valve body when brazing the line connection.

3. Cut all lines from reversing valve. [Refer to the Brazing section of this manual.](#)
4. Clean all excess braze from all tubing so that they will slip into fittings on new valve.
5. Remove solenoid coil from new valve.
6. Protect new valve body from heat while brazing with plastic heat sink (Thermo Trap) or wrap valve body with wet rag.
7. Fit all lines into new valve and braze lines into new valve.
8. Braze all connections. Refer to the [Brazing section of this manual.](#)
9. Pressurize with nitrogen to 550 psi and leak test all connections with a leak detection fluid. Repair any leaks found.
10. Once the sealed system is leak free, install solenoid coil on new valve.
11. Charge system with proper amount of refrigerant per the model nameplate. Refer to the [refrigerant charging section of this manual.](#)

WIRING DIAGRAMS

Indoor Unit

Wall Mount

FAHFW09A3D, FAHFW12A3D, FAHFW18A3D, FAHFW24A3D (No A2L sensor connection)

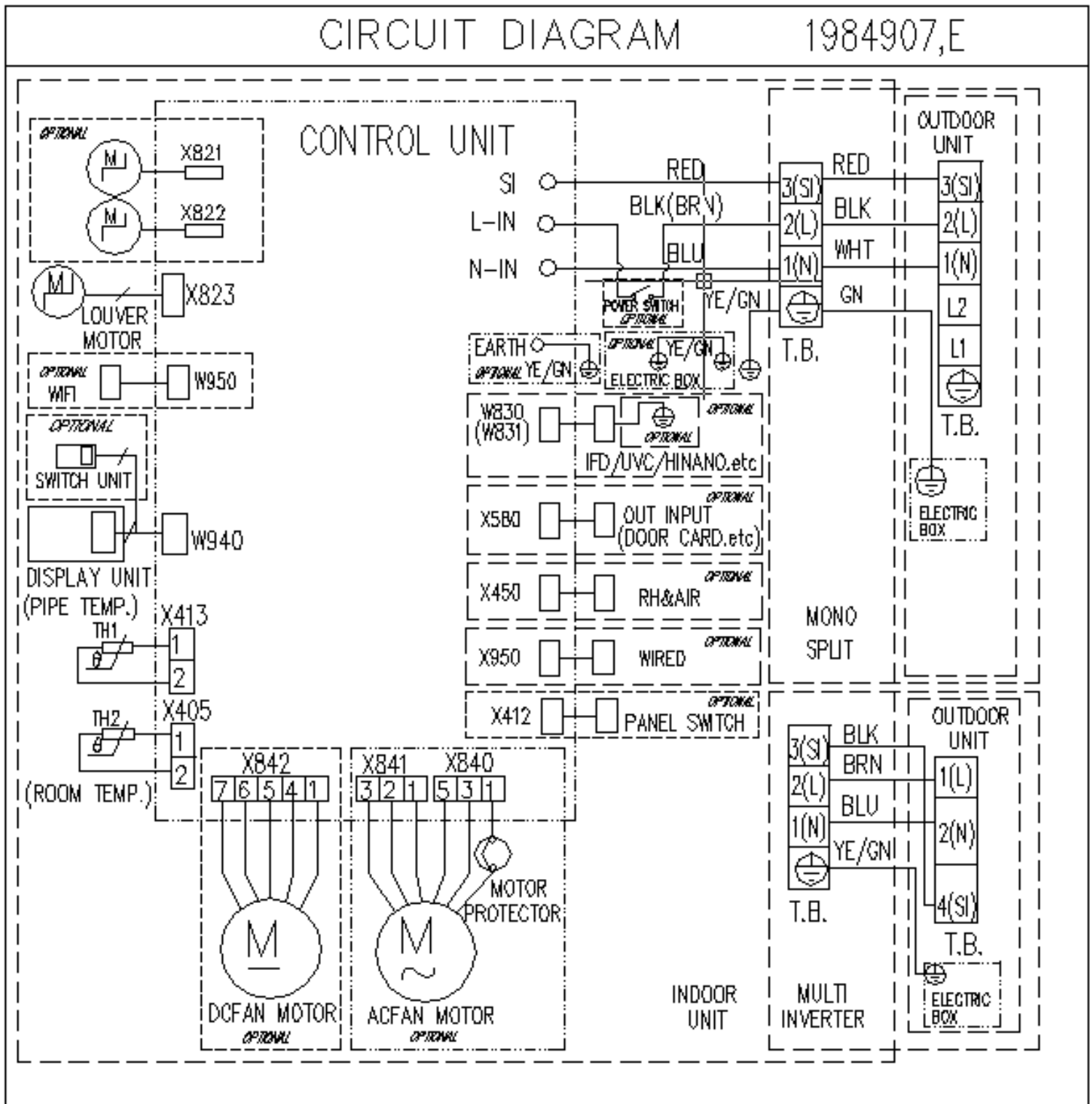


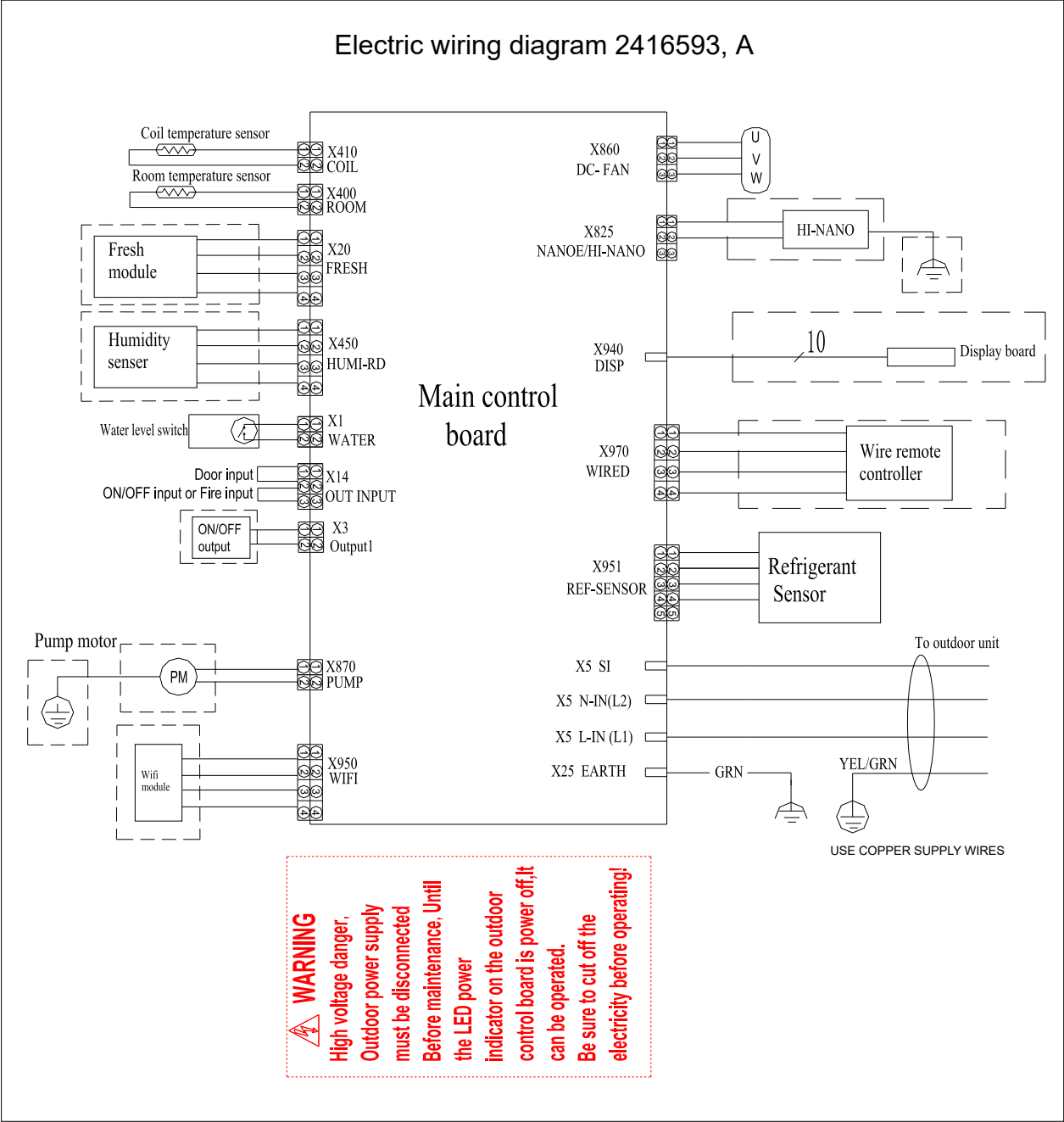
Figure 801

FAHFW09A3D, FAHFW12A3D, FAHFW18A3D, FAHFW24A3D (With A2L sensor connection)



WIRING DIAGRAMS

Indoor Unit
Ducted 9k &12k



Remark:
Dashed parts are not available in some models.
Details see the table below.

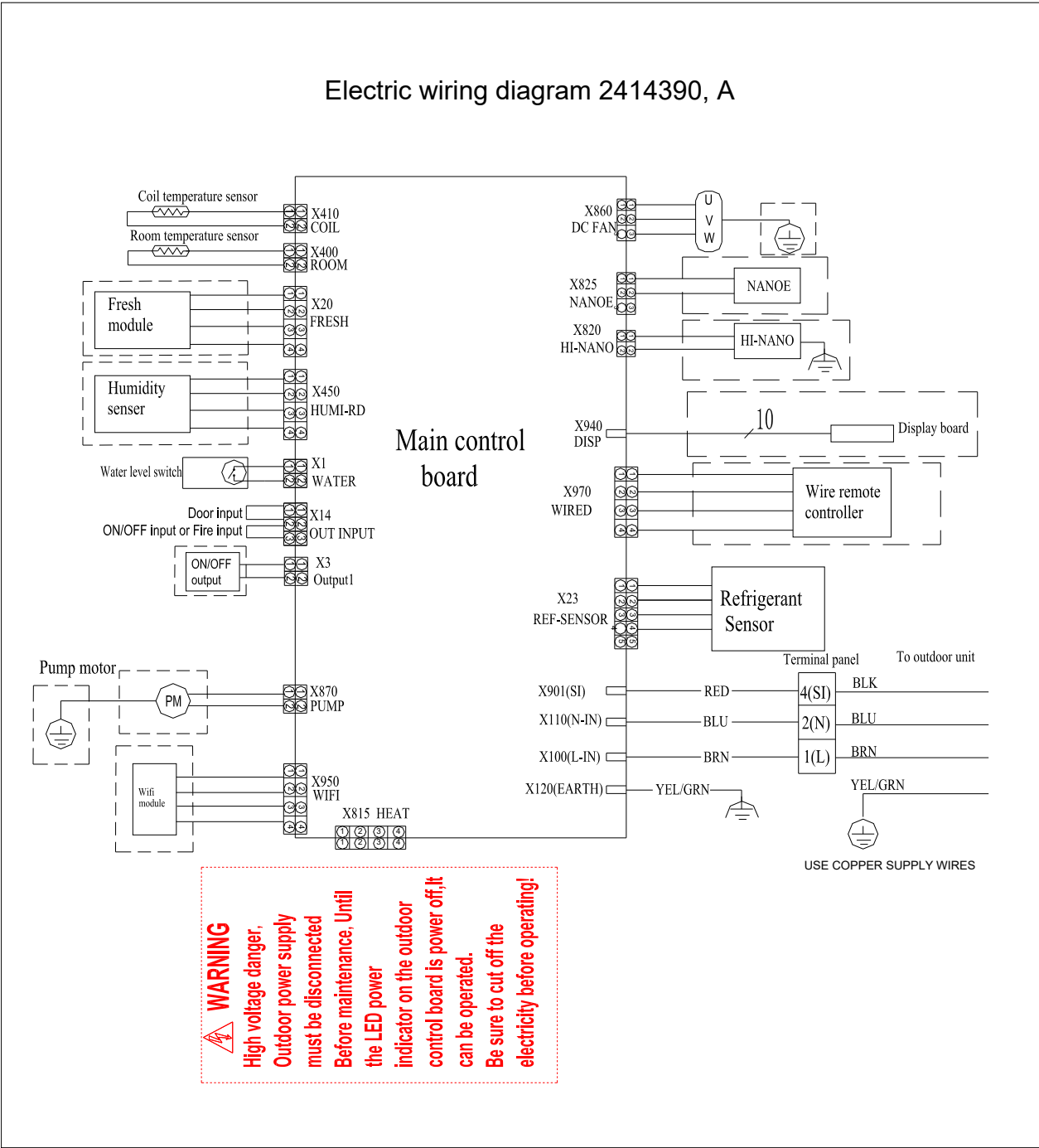
Fresh module	ON/OFF output	Pump motor	Humidity module	Wifi module	Nanoe module	Wired remote controller	Display board	Hi-NANO
		●	●	●		●		

● --available part

Figure 803

WIRING DIAGRAMS

Indoor Unit
 Ducted 18k &24k



Remark:
 Dashed parts are not available in some models.
 Details see the table below.

Fresh module	UVC	ON/OFF output	Pump motor	Humidity module	Wifi module	Nanoe module	Wired remote controller	Display board	Hi-NANO
			●	●	●		●		

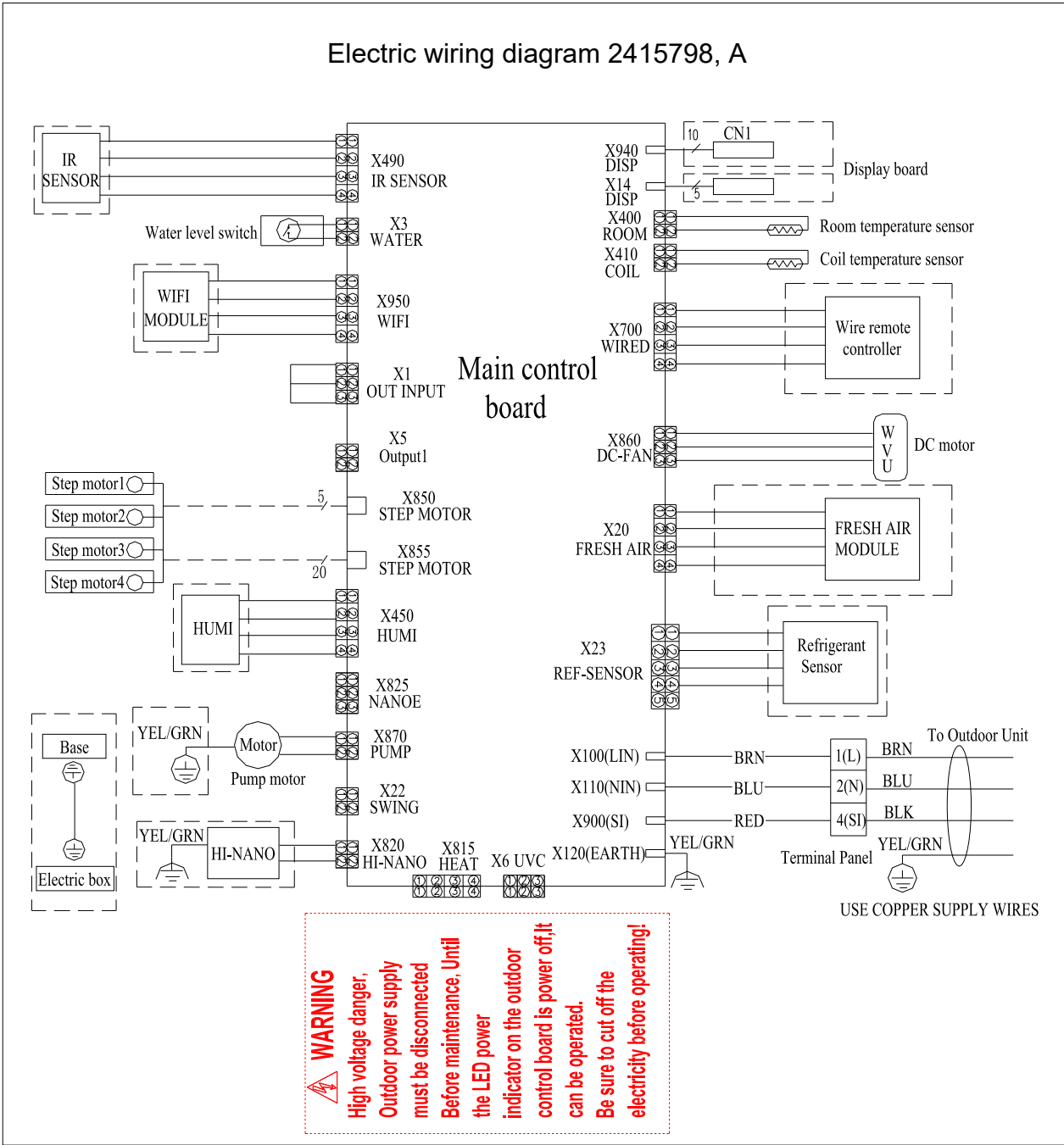
Figure 804

● --available part

WIRING DIAGRAMS

Indoor Unit

Cassette 9k -24k



Remark:

Dashed parts are not available in some models.
Details see the table below.

Model	WIFI Module	Humidity module	Hi-Nano	Refrigerant box	Display board (X940)	Display board (X14)	IR Sensor	Fresh air module	Wire remote controller
9K/12K	●	●		●	●				
18K~36K	●	●		●		●			

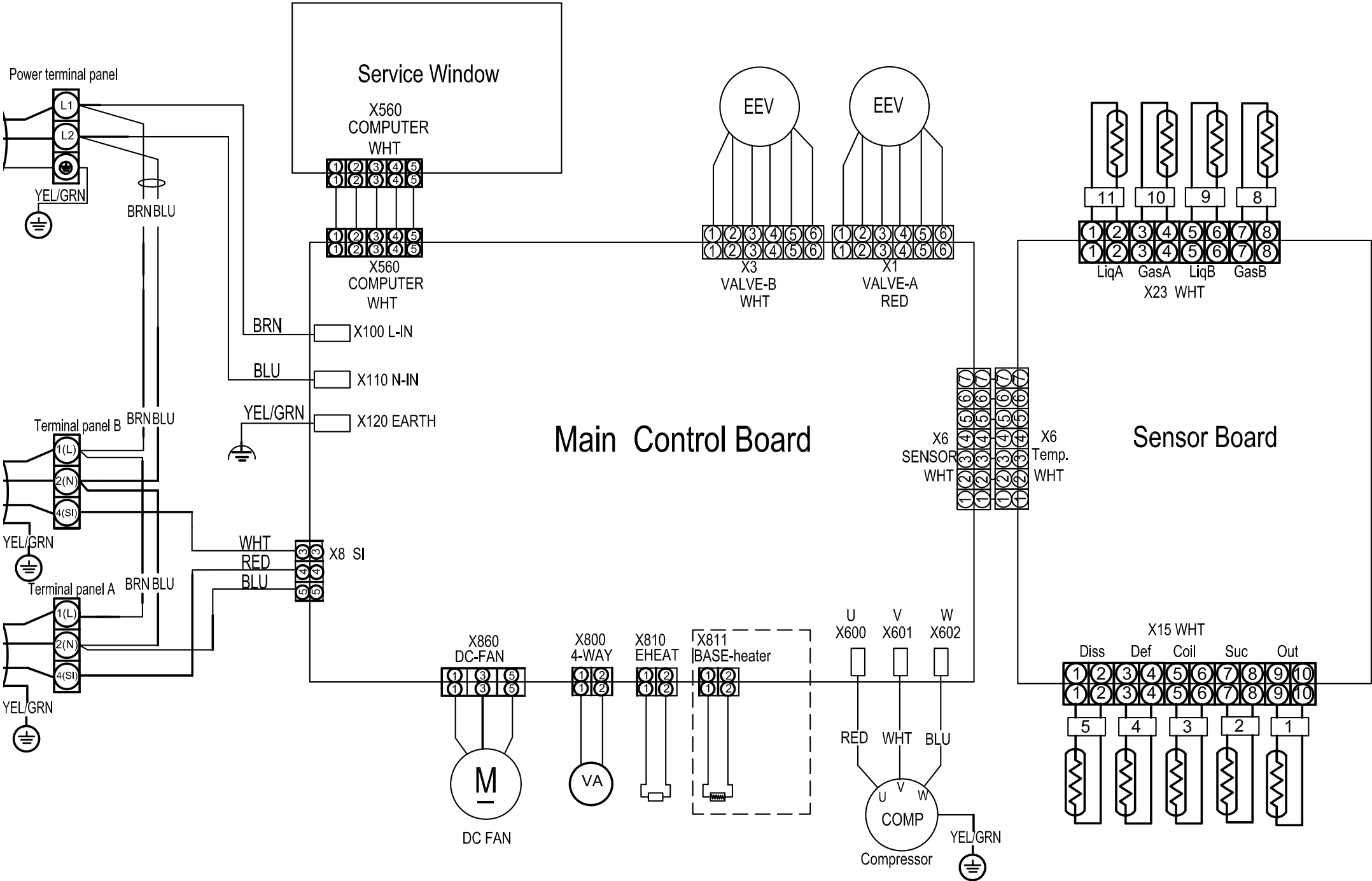
Figure 805

●--available part

Figure 806

Outdoor Unit, FPHMR18A3D

WIRING DIAGRAMS

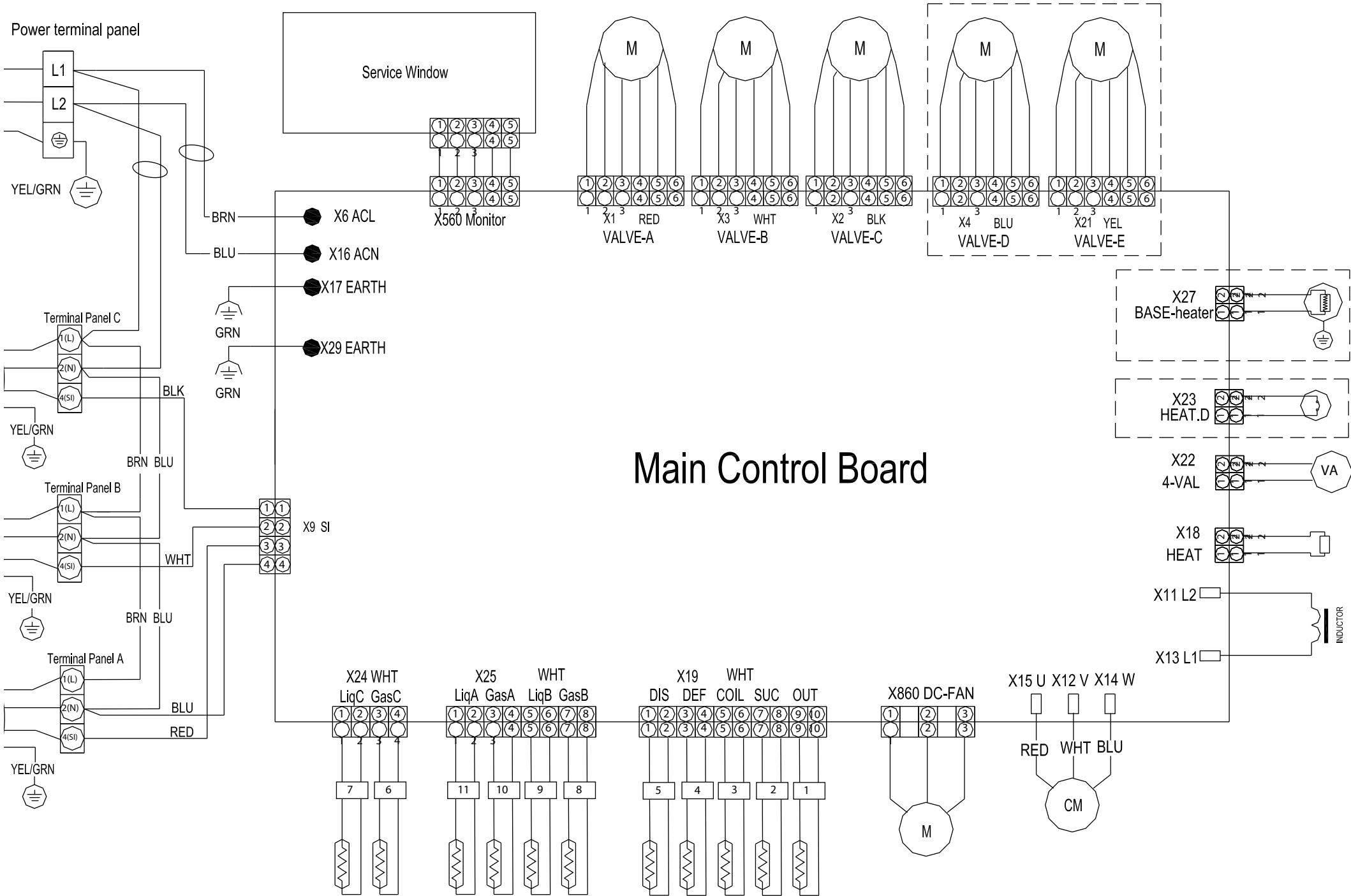


WARNING

High voltage danger,
Outdoor power supply
must be disconnected
Before maintenance,
Until the LED power
indicator on the outdoor
control board is power off,
It can be operated.
Be sure to cut off the
electricity before
operating!

Outdoor Unit, FPHMR27A3D

WIRING DIAGRAMS



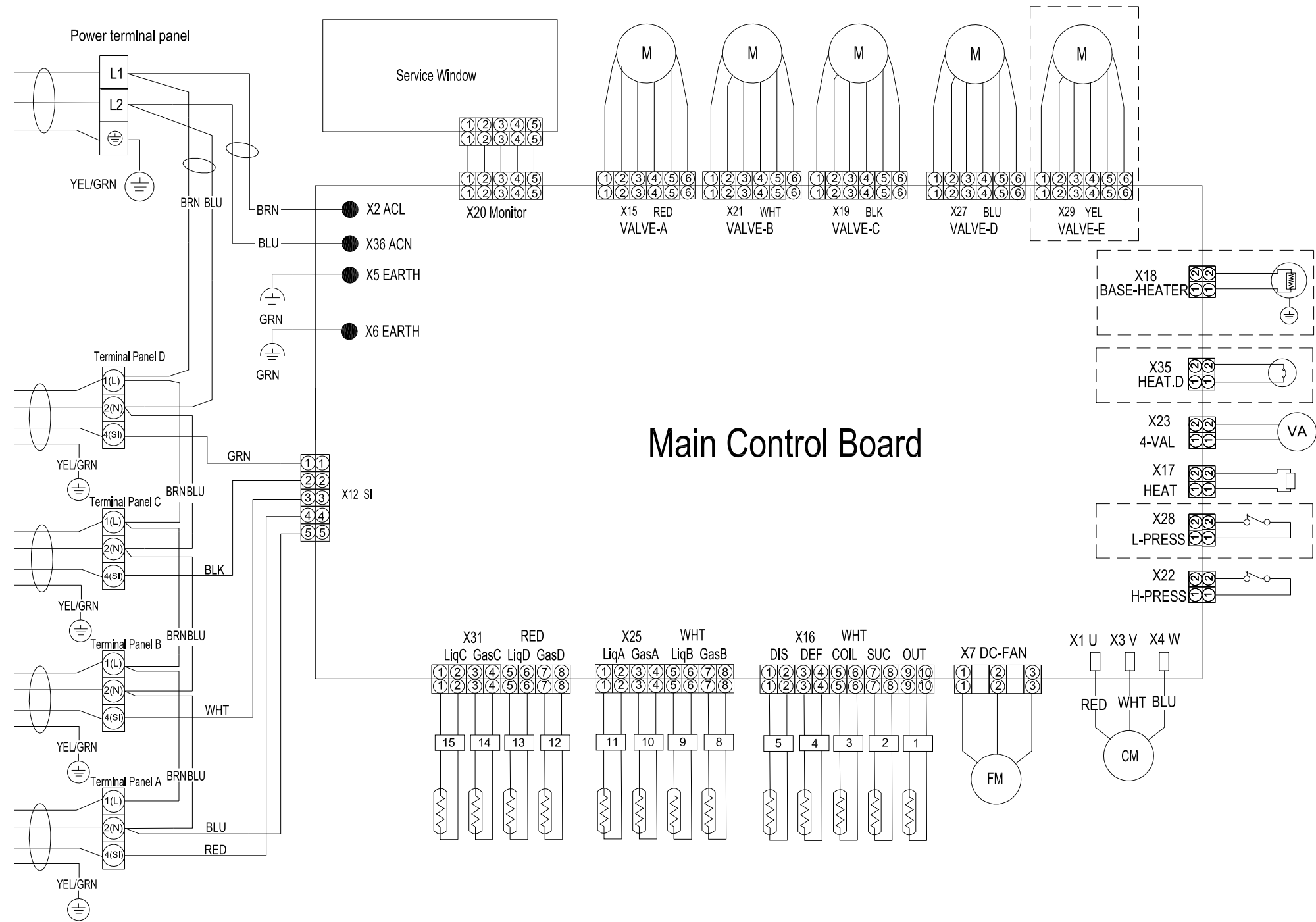
WARNING

High voltage danger,
Outdoor power supply
must be disconnected
Before maintenance,
Until the LED power
indicator on the outdoor
control board is power off,
It can be operated.
Be sure to cut off the
electricity before
operating!

WIRING DIAGRAMS

Figure 808

Outdoor Unit FPHMR36A3D

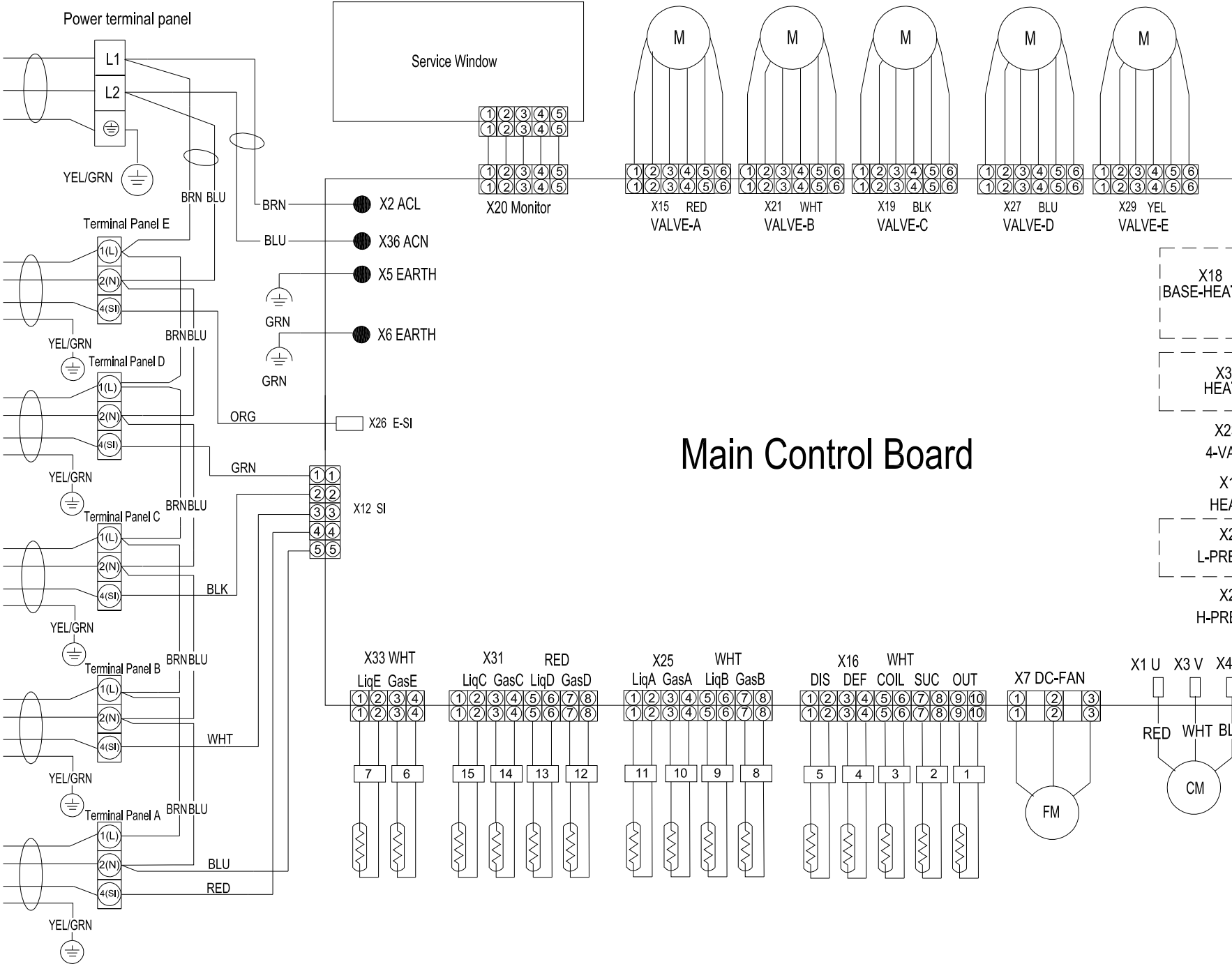


WARNING

High voltage danger,
Outdoor power supply
must be disconnected
Before maintenance,
Until the LED power
indicator on the outdoor
control board is power off,
It can be operated.
Be sure to cut off the
electricity before
operating!

WIRING DIAGRAMS

Figure 809



WARNING

High voltage danger,
Outdoor power supply
must be disconnected
Before maintenance,
Until the LED power
indicator on the outdoor
control board is power off,
It can be operated.
Be sure to cut off the
electricity before
operating!

APPENDIX

Interactive Parts Viewer

All Friedrich Service Parts can be found on our online interactive parts viewer.

Please click on the link below:

[Interactive Parts Viewer](#)

For Further Assistance contact Friedrich customer service at **(1-800-541-6645)**.

Limited Warranty

Current warranty information can be obtained by referring to <https://www.friedrich.com/professional/support/product-resources>

APPENDIX

Compressor Discharge Temp Sensor Resistance Values

1. THE PARAMETER OF OUTDOOR COMPRESSOR DISCHARGE TEMPERATURE SENSOR:

($R_0=187.25K\pm6.3\%$; $R_{100}=3.77K\pm2.5K$; $B0/100=3979K\pm1\%$)

T [°C]	Rmin [KΩ]	Rnom [KΩ]	Rmax [KΩ]	DR(MIN)%	DR(MAX)%
-30	908.2603	985.5274	1065.1210	-7.84	7.47
-29	855.3955	927.6043	1001.9150	-7.78	7.42
-28	805.9244	873.4324	924.8368	-7.73	5.56
-27	759.6097	822.7471	887.5944	-7.67	7.31
-26	716.2320	775.3041	835.9165	-7.62	7.25
-25	675.5881	730.8775	787.5529	-7.56	7.20
-24	637.4902	689.2583	742.2720	-7.51	7.14
-23	601.7645	650.2533	699.8601	-7.46	7.09
-22	568.2499	613.6835	660.1191	-7.40	7.03
-21	536.7970	579.3832	622.8658	-7.35	6.98
-20	507.2676	547.1989	587.9307	-7.30	6.93
-19	497.5332	516.9882	555.1565	-3.76	6.88
-18	453.4748	488.6192	524.3977	-7.19	6.82
-17	428.9819	461.9693	495.5191	-7.14	6.77
-16	405.9517	436.9251	486.3954	-7.09	10.17
-15	384.2888	413.3808	442.9105	-7.04	6.67
-14	363.9047	391.2386	418.9563	-6.99	6.62
-13	344.7169	370.4072	396.4325	-6.94	6.56
-12	326.6497	350.8019	375.2461	-6.88	6.51
-11	309.6286	332.3441	355.3104	-6.83	6.46
-10	293.5903	314.9620	336.5448	-6.79	6.41
-9	278.4719	298.5822	318.3744	-6.74	6.22
-8	264.2156	283.1464	302.2294	-6.69	6.31
-7	250.7678	268.5936	286.5448	-6.64	6.26
-6	238.0783	254.8686	271.7603	-6.59	6.22
-5	226.1003	241.9200	257.8193	-6.54	6.17
-4	214.7903	229.6997	244.6593	-6.49	6.11
-3	204.1073	218.1630	232.2612	-6.44	6.07
-2	194.0135	207.2681	220.5495	-6.39	6.02
-1	184.4732	196.9759	209.4913	-6.35	5.97
0	175.4533	187.2500	199.0468	-6.30	5.93
1	166.8952	178.0255	189.1529	-6.25	5.88
2	158.8023	169.3067	179.8058	-6.20	5.84
3	151.1467	161.0633	170.9724	-6.16	5.80
4	143.9026	153.2667	162.6216	-6.11	5.75
5	137.0455	145.8905	154.7246	-6.06	5.71
6	130.5528	138.9097	147.2544	-6.02	5.67
7	124.4033	132.3011	140.1856	-5.97	5.62
8	118.5769	126.0429	133.4946	-5.92	5.58
9	113.0550	120.1146	127.1591	-5.88	5.54
10	107.8202	114.4973	121.1586	-5.83	5.50
11	102.8560	109.1728	115.4734	-5.79	5.46
12	98.1470	104.1246	110.0855	-5.74	5.41
13	93.6787	99.3367	104.9778	-5.70	5.37
14	89.4378	94.7946	100.1342	-5.65	5.33
15	85.4114	90.4842	95.5398	-5.61	5.29
16	81.5875	86.3926	91.1805	-5.56	5.25
17	77.9551	82.5076	87.0430	-5.52	5.21
18	74.5034	78.8177	83.1150	-5.47	5.17

APPENDIX

Compressor Discharge Temp Sensor Resistance Values

T [°C]	Rmin [KΩ]	Rnom [KΩ]	Rmax [KΩ]	DR(MIN)%	DR(MAX)%
19	71.2227	75.3122	79.3848	-5.43	5.13
20	68.1036	71.9808	75.8414	-5.39	5.09
21	65.1373	68.8141	72.4746	-5.34	5.05
22	62.3155	65.8032	69.2746	-5.30	5.01
23	59.6306	62.9395	66.2324	-5.26	4.97
24	57.0752	60.2152	63.3395	-5.21	4.93
25	54.6424	57.6227	60.5877	-5.17	4.89
26	52.3258	55.1551	57.9695	-5.13	4.85
27	50.1192	52.8058	55.4778	-5.09	4.82
28	48.0168	50.5684	53.1058	-5.05	4.78
29	46.0133	48.4371	50.8472	-5.00	4.74
30	44.1034	46.4046	48.6960	-4.96	4.71
31	42.2825	44.4711	46.6466	-4.92	4.66
32	40.5458	42.6261	44.6937	-4.88	4.63
33	38.8891	40.8668	42.8323	-4.84	4.59
34	37.3084	39.1890	41.0576	-4.80	4.55
35	35.7998	37.5883	39.3653	-4.76	4.51
36	34.3596	36.0609	37.7511	-4.72	4.48
37	32.9844	34.6030	36.2109	-4.68	4.44
38	31.6710	33.2113	34.7412	-4.64	4.40
39	30.4164	31.8823	33.3383	-4.60	4.37
40	29.2176	30.6130	31.9988	-4.56	4.33
41	28.0718	29.4004	30.7197	-4.52	4.29
42	26.9765	28.2417	29.4979	-4.48	4.26
43	25.9293	27.1342	28.3306	-4.44	4.22
44	24.9277	26.0755	27.2150	-4.40	4.19
45	23.9697	25.0632	26.1488	-4.36	4.15
46	23.0530	24.0950	25.1293	-4.32	4.12
47	22.1757	23.1688	24.1545	-4.29	4.08
48	21.3360	22.2826	23.2221	-4.25	4.05
49	20.5321	21.4345	22.3301	-4.21	4.01
50	19.7623	20.6226	21.4766	-4.17	3.98
51	19.0261	19.8468	20.6612	-4.14	3.94
52	18.3211	19.1040	19.8808	-4.10	3.91
53	17.6458	18.3926	19.1338	-4.06	3.87
54	16.9986	17.7113	18.4185	-4.02	3.84
55	16.3784	17.0537	17.7335	-3.96	3.83
56	15.7839	16.4332	17.0774	-3.95	3.77
57	15.2139	15.8338	16.4488	-3.92	3.74
58	14.6673	15.2592	15.8464	-3.88	3.71
59	14.1430	14.7083	15.2690	-3.84	3.67
60	13.6400	14.1799	14.7154	-3.81	3.64
61	13.1573	13.6730	14.1846	-3.77	3.61
62	12.6941	13.1868	13.6756	-3.74	3.57
63	12.2494	12.7202	13.1872	-3.70	3.54
64	11.8224	12.2723	12.7186	-3.67	3.51
65	11.4124	11.8424	12.2690	-3.63	3.48
66	11.0185	11.4295	11.8373	-3.60	3.45
67	10.6401	11.0331	11.4230	-3.56	3.41
68	10.2765	10.6522	11.0251	-3.53	3.38
69	9.9271	10.2863	10.6429	-3.49	3.35
70	9.5912	9.9348	10.2756	-3.46	3.32
71	9.2682	9.5968	9.9231	-3.42	3.29
72	8.9576	9.2720	9.5841	-3.39	3.26
73	8.6589	8.9597	9.2583	-3.36	3.23
74	8.3716	8.6594	8.9451	-3.32	3.19

APPENDIX

Compressor Discharge Temp Sensor Resistance Values

T [°C]	Rmin [KΩ]	Rnom [KΩ]	Rmax [KΩ]	DR(MIN)%	DR(MAX)%
75	8.0951	8.3705	8.6440	-3.29	3.16
76	7.8290	8.0926	8.3544	-3.26	3.13
77	7.5730	7.8252	8.0758	-3.22	3.10
78	7.3264	7.5679	7.8078	-3.19	3.07
79	7.0891	7.3202	7.5499	-3.16	3.04
80	6.8605	7.0818	7.3018	-3.12	3.01
81	6.6403	6.8522	7.0629	-3.09	2.98
82	6.4282	6.6311	6.8329	-3.06	2.95
83	6.2239	6.4182	6.6115	-3.03	2.92
84	6.0269	6.2131	6.3982	-3.00	2.89
85	5.8371	6.0154	6.1928	-2.96	2.86
86	5.6542	5.8249	5.9949	-2.93	2.84
87	5.4777	5.6413	5.8042	-2.90	2.81
88	5.3076	5.4644	5.6205	-2.87	2.78
89	5.1435	5.2937	5.4433	-2.84	2.75
90	4.9853	5.1292	5.2726	-2.81	2.72
91	4.8326	4.9705	5.1079	-2.77	2.69
92	4.6852	4.8174	4.9492	-2.74	2.66
93	4.5430	4.6697	4.7960	-2.71	2.63
94	4.4058	4.5272	4.6483	-2.68	2.61
95	4.2733	4.3896	4.5058	-2.65	2.58
96	4.1453	4.2568	4.3683	-2.62	2.55
97	4.0218	4.1287	4.2355	-2.59	2.52
98	3.9024	4.0049	4.1074	-2.56	2.50
99	3.7872	3.8854	3.9837	-2.53	2.47
100	3.6758	3.7700	3.8643	-2.50	2.44
101	3.5661	3.6585	3.7512	-2.53	2.47
102	3.4601	3.5509	3.6419	-2.56	2.50
103	3.3577	3.4468	3.5362	-2.59	2.53
104	3.2588	3.3463	3.4341	-2.61	2.56
105	3.1632	3.2491	3.3353	-2.64	2.58
106	3.0708	3.1551	3.2398	-2.67	2.61
107	2.9816	3.0643	3.1475	-2.70	2.64
108	2.8953	2.9765	3.0582	-2.73	2.67
109	2.8118	2.8915	2.9717	-2.76	2.70
110	2.7311	2.8093	2.8881	-2.78	2.73
111	2.6531	2.7299	2.8072	-2.81	2.75
112	2.5776	2.6530	2.7289	-2.84	2.78
113	2.5046	2.5785	2.6531	-2.87	2.81
114	2.4340	2.5065	2.5798	-2.89	2.84
115	2.3656	2.4368	2.5087	-2.92	2.87
116	2.2995	2.3693	2.4400	-2.95	2.90
117	2.2354	2.3040	2.3733	-2.98	2.92
118	2.1734	2.2407	2.3088	-3.00	2.95
119	2.1134	2.1795	2.2463	-3.03	2.97
120	2.0553	2.1201	2.1858	-3.06	3.01
121	1.9991	2.0626	2.1271	-3.08	3.03
122	1.9446	2.0070	2.0702	-3.11	3.05
123	1.8918	1.9530	2.0151	-3.13	3.08
124	1.8406	1.9007	1.9617	-3.16	3.11
125	1.7911	1.8500	1.9099	-3.18	3.14
126	1.7430	1.8009	1.8597	-3.22	3.16
127	1.6965	1.7533	1.8110	-3.24	3.19
128	1.6514	1.7071	1.7638	-3.26	3.21
129	1.6076	1.6623	1.7180	-3.29	3.24
130	1.5652	1.6189	1.6736	-3.32	3.27

APPENDIX

Coil and Ambient Temp Sensor Resistance Values

2. THE PARAMETER OF THE OTHER SENSOR:

($R_0=15K\pm2\%$; $B0/100=3450K\pm2\%$)

T [°C]	Rmin [KΩ]	Rnom [KΩ]	Rmax [KΩ]	DR(MIN)%	DR(MAX)%
-30	60.78	64.77	68.99	-6.16	6.12
-29	57.75	61.36	65.16	-5.88	5.83
-28	54.89	58.15	61.58	-5.61	5.57
-27	52.19	55.14	58.23	-5.35	5.31
-26	49.63	52.30	55.08	-5.11	5.05
-25	47.21	49.62	52.13	-4.86	4.81
-24	44.92	47.10	49.37	-4.63	4.60
-23	42.76	44.73	46.78	-4.40	4.38
-22	40.71	42.49	44.34	-4.19	4.17
-21	38.77	40.38	42.05	-3.99	3.97
-20	36.93	38.39	39.90	-3.80	3.78
-19	35.18	36.51	37.87	-3.64	3.59
-18	33.53	34.74	35.97	-3.48	3.42
-17	31.96	33.06	34.17	-3.33	3.25
-16	30.48	31.47	32.49	-3.15	3.14
-15	29.07	29.97	30.89	-3.00	2.98
-14	27.73	28.56	29.39	-2.91	2.82
-13	26.46	27.22	27.98	-2.79	2.72
-12	25.26	25.95	26.64	-2.66	2.59
-11	24.11	24.75	25.38	-2.59	2.48
-10	23.03	23.61	24.19	-2.46	2.40
-9	21.99	22.53	23.06	-2.40	2.30
-8	21.01	21.51	22.00	-2.32	2.23
-7	20.08	20.54	20.99	-2.24	2.14
-6	19.19	19.62	20.04	-2.19	2.10
-5	18.35	18.74	19.14	-2.08	2.09
-4	17.55	17.92	18.29	-2.06	2.02
-3	16.78	17.13	17.48	-2.04	2.00
-2	16.06	16.38	16.71	-1.95	1.97
-1	15.36	15.67	15.98	-1.98	1.94
0	14.70	15.00	15.29	-2.00	1.90
1	14.08	14.36	14.64	-1.95	1.91
2	13.48	13.75	14.02	-1.96	1.93
3	12.91	13.17	13.43	-1.97	1.94
4	12.36	12.62	12.87	-2.06	1.94
5	11.85	12.09	12.34	-1.99	2.03
6	11.35	11.59	11.83	-2.07	2.03
7	10.88	11.11	11.35	-2.07	2.11
8	10.43	10.66	10.89	-2.16	2.11
9	9.999	10.230	10.450	-2.26	2.11
10	9.590	9.816	10.040	-2.30	2.23
11	9.199	9.422	9.647	-2.37	2.33
12	8.826	9.047	9.269	-2.44	2.40
13	8.470	8.689	8.910	-2.52	2.48
14	8.129	8.347	8.567	-2.61	2.57
15	7.804	8.021	8.240	-2.71	2.66
16	7.493	7.709	7.928	-2.80	2.76
17	7.196	7.412	7.630	-2.91	2.86
18	6.912	7.127	7.346	-3.02	2.98
19	6.640	6.855	7.074	-3.14	3.10
20	6.381	6.595	6.815	-3.24	3.23
21	6.132	6.347	6.567	-3.39	3.35
22	5.894	6.109	6.330	-3.52	3.49

APPENDIX

Coil and Ambient Temp Sensor Resistance Values

T [°C]	Rmin [KΩ]	Rnom [KΩ]	Rmax [KΩ]	DR(MIN)%	DR(MAX)%
23	5.667	5.882	6.103	-3.66	3.62
24	5.449	5.664	5.886	-3.80	3.77
25	5.240	5.456	5.678	-3.96	3.91
26	5.048	5.260	5.478	-4.03	3.98
27	4.864	5.072	5.286	-4.10	4.05
28	4.687	4.891	5.101	-4.17	4.12
29	4.517	4.717	4.924	-4.24	4.20
30	4.355	4.550	4.753	-4.29	4.27
31	4.198	4.390	4.589	-4.37	4.34
32	4.048	4.236	4.431	-4.44	4.40
33	3.904	4.089	4.280	-4.52	4.46
34	3.766	3.946	4.134	-4.56	4.55
35	3.663	3.810	3.994	-3.86	4.61
36	3.506	3.679	3.859	-4.70	4.66
37	3.383	3.552	3.729	-4.76	4.75
38	3.265	3.431	3.604	-4.84	4.80
39	3.152	3.314	3.484	-4.89	4.88
40	3.043	3.202	3.368	-4.97	4.93
41	2.938	3.094	3.257	-5.04	5.00
42	2.838	2.990	3.149	-5.08	5.05
43	2.741	2.890	3.046	-5.16	5.12
44	2.648	2.793	2.946	-5.19	5.19
45	2.558	2.701	2.850	-5.29	5.23
46	2.472	2.611	2.758	-5.32	5.33
47	2.389	2.525	2.669	-5.39	5.40
48	2.309	2.443	2.583	-5.49	5.42
49	2.232	2.363	2.500	-5.54	5.48
50	2.158	2.286	2.421	-5.60	5.58
51	2.087	2.212	2.344	-5.65	5.63
52	2.018	2.140	2.269	-5.70	5.69
53	1.952	2.072	2.198	-5.79	5.73
54	1.888	2.005	2.129	-5.84	5.82
55	1.827	1.941	2.062	-5.87	5.87
56	1.767	1.880	1.998	-6.01	5.91
57	1.710	1.820	1.936	-6.04	5.99
58	1.655	1.763	1.876	-6.13	6.02
59	1.602	1.707	1.818	-6.15	6.11
60	1.551	1.654	1.762	-6.23	6.13
61	1.502	1.602	1.709	-6.24	6.26
62	1.452	1.553	1.657	-6.50	6.28
63	1.409	1.505	1.606	-6.38	6.29
64	1.364	1.458	1.558	-6.45	6.42
65	1.322	1.413	1.511	-6.44	6.49
66	1.280	1.370	1.466	-6.57	6.55
67	1.241	1.328	1.422	-6.55	6.61
68	1.202	1.288	1.379	-6.68	6.60
69	1.165	1.249	1.339	-6.73	6.72
70	1.129	1.211	1.299	-6.77	6.77
71	1.095	1.175	1.261	-6.81	6.82
72	1.061	1.140	1.224	-6.93	6.86
73	1.029	1.106	1.188	-6.96	6.90
74	0.9977	1.073	1.153	-7.02	6.94
75	0.9676	1.041	1.120	-7.05	7.05
76	0.9385	1.011	1.088	-7.17	7.08
77	0.9104	0.9810	1.056	-7.20	7.10
78	0.8833	0.9523	1.026	-7.25	7.18

APPENDIX

Coil and Ambient Temp Sensor Resistance Values

T [°C]	Rmin [KΩ]	Rnom [KΩ]	Rmax [KΩ]	DR(MIN)%	DR(MAX)%
79	0.8570	0.9246	0.9971	-7.31	7.27
80	0.8316	0.8977	0.9687	-7.36	7.33
81	0.8071	0.8717	0.9412	-7.41	7.38
82	0.7834	0.8466	0.9146	-7.47	7.43
83	0.7604	0.8223	0.8888	-7.53	7.48
84	0.7382	0.7987	0.8639	-7.57	7.55
85	0.7167	0.7759	0.8397	-7.63	7.60
86	0.6958	0.7537	0.8161	-7.68	7.65
87	0.6755	0.7322	0.7933	-7.74	7.70
88	0.6560	0.7114	0.7712	-7.79	7.75
89	0.6371	0.6913	0.7498	-7.84	7.80
90	0.6188	0.6718	0.7291	-7.89	7.86
91	0.6011	0.6530	0.7051	-7.95	7.39
92	0.5840	0.6348	0.6897	-8.00	7.96
93	0.5674	0.6171	0.6709	-8.05	8.02
94	0.5514	0.6000	0.6527	-8.10	8.07
95	0.5359	0.5835	0.6350	-8.16	8.11
96	0.5209	0.5675	0.6179	-8.21	8.16
97	0.5064	0.5519	0.6014	-8.24	8.23
98	0.4923	0.5369	0.5853	-8.31	8.27
99	0.4787	0.5224	0.5698	-8.37	8.32
100	0.4655	0.5083	0.5547	-8.42	8.36
101	0.4528	0.4946	0.5401	-8.45	8.42
102	0.4404	0.4814	0.5259	-8.52	8.46
103	0.4284	0.4685	0.5121	-8.56	8.51
104	0.4168	0.4561	0.4988	-8.62	8.56
105	0.4056	0.4440	0.4859	-8.65	8.62
106	0.3947	0.4323	0.4733	-8.70	8.66
107	0.3841	0.4210	0.4611	-8.76	8.70
108	0.3739	0.4100	0.4493	-8.80	8.75
109	0.3640	0.3993	0.4379	-8.84	8.81
110	0.3544	0.3890	0.4267	-8.89	8.84
111	0.3450	0.3789	0.4159	-8.95	8.90
112	0.3360	0.3692	0.4055	-8.99	8.95
113	0.3272	0.3597	0.3953	-9.04	9.01
114	0.3187	0.3505	0.3854	-9.07	9.06
115	0.3104	0.3416	0.3758	-9.13	9.10
116	0.3024	0.3330	0.3665	-9.19	9.14
117	0.2947	0.3246	0.3574	-9.21	9.18
118	0.2871	0.3164	0.3468	-9.26	8.77
119	0.2798	0.3085	0.3401	-9.30	9.29
120	0.2727	0.3008	0.33	-9.34	9.34

APPENDIX

Accessories

WALL CONTROLLERS



FPWC1

FPWC1 Optional wired wall controller for Floating Air Select single zone and Floating Air[®] Pro, single and multizone models. Does not work with FPHSW36A3B at this time. Please check with your Friedrich representative for options.
Cable length = 24 ft (8m)

APPENDIX

Friedrich Authorized Parts Depots



FRIEDRICH

United Products Distributors Inc.

4030A Benson Ave
Halethorpe, MD 21227
888-907-9675
c.businsky@updinc.com

Shivani Refrigeration & Air Conditioning Inc.

2259 Westchester Ave.
Bronx, NY 10462
sales@shivanionline.com

NEUCO Inc.

515 W Crossroads Parkway
Bolingbrook, IL 60440
312.809.1418
borr@neuco.com

The Gabbert Company

6868 Ardmore
Houston, Texas 77054

713-747-4110
800-458-4110

Johnstone Supply of Woodside

27-01 Brooklyn Queens Expway
Woodside, New York 11377

718-545-5464
800-431-1143

Reeve Air Conditioning, Inc.

2501 South Park Road
Hallandale, Florida 33009

954-962-0252
800-962-3383

Total Home Supply

26 Chapin Rd Ste 1109
Pine Brook, NJ 07058
877-847-0050

support@totalhomesupply.com

<https://www.totalhomesupply.com/brands/Friedrich.html>

TECHNICAL SUPPORT CONTACT INFORMATION

Friedrich Air Conditioning Co.
10001 Reunion Place, Suite 500 • San Antonio, Texas 78216
1-877-599-5665
www.friedrich.com