FRIEDRICH

FRIEDRICH ZONEAIRE® SELECT

Packaged Terminal Air Conditioners

A truly exceptional PTAC value line with reliable performance backed by an outstanding warranty.

Features

- Tangential blower wheel for fast, powerful and even air distribution
- Two permanently-lubricated fan motors for quiet operation
- EERs up to 12.0; COPs up to 3.5
- 2-speed fan cooling or heating
- Adjustable high/low temperature range limits for reduced energy usage
- Internal diagnostic program
- Wireless or wired remote thermostat operation
- Central desk control ready
- Compatible with energy management systems

FreshAire® IAQ Ready

- A full complementof Indoor Air Quality Products has been certified through installation and testing to ensure exceptional air quality is achieved when FreshAire® IAQ accessories are added.
- Reversible indoor air louvers
- Condensate removal system uses slinger ring technology to cool the coil and increase efficiency
- Washable air filters
- Modular design ensures easy access to key components
- Fits standard PTAC sleeve without added cost of a baffle kit
- 2 yr. parts and labor warranty; 5 yr. limited warranty. See warranty document for full details.

DIAMON GOLD™
Advanced Corrosion Protection

Protects the outdoor coil against deterioration and extends the life of the unit especially in harsh coastal environments

PRODUCT FEATURES

DIGITAL TEMPERATURE READOUT	By digitally monitoring the desired room temperature, the room is controlled more precisely than conventional systems. The large, easy-to-read LED display can show either the setpoint or actual room temperature as selected by owner.
ONE-TOUCH OPERATION	When the unit is powered off, the unit can be returned directly to heating or cooling mode by pressing the 'Heat' or 'Cool' buttons without the confusing power up sequence of some controls. One-touch control takes the guesswork out of unit control, delivering a more enjoyable experience and eliminating front-desk calls.
INDIVIDUAL MODE & FAN CONTROL BUTTONS	By having separate control buttons and indicators for both fan and mode settings, the Friedrich digital control eliminates the confusion of previous digital PTACs. The accurate temperature setting provides greater guest comfort than other systems.
QUIET START/STOP FAN DELAY	The fan start and stop delays prevent abrupt changes in room acoustics due to the compressor energizing or stopping immediately. Upon call for cooling or heating, the unit fan will run for five seconds prior to energizing the compressor. Also, the fan-off delay allows for "free cooling" by utilizing the already cool indoor coil to its maximum capacity by running for 30 seconds after the compressor.
REMOTE THERMOSTAT OPERATION	Some applications require the use of a wall-mounted thermostat. All new Friedrich PTACs may be switched from unit control to remote thermostat control easily without the need to order a special model or accessory kit.
INTERNAL DIAGNOSTIC PROGRAM	The Friedrich digital PTAC features a self-diagnostic program that can alert maintenance to component failures or operating problems. The internal diagnostic program saves properties valuable time when diagnosing running problems.
SERVICE ERROR CODE STORAGE	All Friedrich PTAC units have self-diagnostic features that will store trouble codes in the case of an event. Storing the codes allows the property to see the trouble codes at a future time after the condition may have corrected.
ELECTRONIC TEMPERATURE LIMITING	By limiting the operating range, the property can save energy by eliminating "max cool" or "max heat" situations common with older uncontrolled systems. The new electronic control allows owners to set operating ranges for both heating and cooling independently of one another.
ROOM FREEZE PROTECTION	When the PTAC senses that the indoor room temperature has fallen to 40˚F, the unit will cycle on the fan (high) and the electric strip heat to raise the room temperature to 46˚F, and then cycle off again. This feature works regardless of the mode selected and can be turned off. The control will also store the Room Freeze cycle in the service code memory for retrieval at a later date. This feature ensures that unoccupied rooms do not reach freezing levels where damage can occur to plumbing and fixtures.
RANDOM COMPRESSOR RESTART	Multiple compressors starting at once can often cause electrical overloads and premature unit failure. The random restart delay eliminates multiple units from starting at once following a power outage or initial power up. The compressor delay will range from 180 to 240 seconds.
CONDENSATE REMOVAL SYSTEM	Condenser fan utilizes slinger ring technology to pick up condensate from the base pan and disperse it on to the condenser coil where it evaporates. This helps to cool the coil and increase the energy efficiency of the unit.

PRODUCT FEATURES

DIGITAL DEFROST THERMOSTAT	The PZ-Series uses a digital thermostat to accurately monitor the outdoor coil conditions to allow the heat pump to run whenever conditions are correct. Running the PTAC in heat pump mode saves energy and reduces operating costs. The digital thermostat allows maximization of heat pump run time.
INSTANT HEAT HEAT PUMP MODE	Heat pump models will automatically run the electric heater to quickly bring the room up to temperature when initially energized, then return to heat pump mode. This ensures that the room is brought up to temperature quickly without the usual delay associated with heat pump units.
EVEN HEAT MONITORING	The digital control monitors indoor conditions, ensuring room temperature is within 5°F of the setpoint. If needed, the unit will briefly cycle the electric heater to maintain temperature. This feature preserves the efficiency benefits of a heat pump while ensuring guest comfort.
SEPARATE HEAT/COOL FAN CYCLE CONTROL	The owner may choose between fan cycling or fan continuous mode based on property preference. (Note: Even heat monitoring and quiet start/stop fan delay only operate in fan cycle mode) Fan continuous mode is used to keep constant airflow circulation in the room during all times the unit is 'ON'. Fan cycle will conserve energy by only operating the fan while the compressor or electric heater is operating. The ability to set the fan cycling condition independently between heating and cooling mode will increase user comfort by allowing the choice of only constantly circulating air in the summer or winter time (unlike other PTAC brands that only allow one selection).
EMERGENCY HEAT OVERRIDE	In the event of a compressor failure in heat pump mode, the compressor may be locked out to provide heat through the resistance heater. This feature ensures that even in the unlikely event of a compressor failure, the room temperature can be maintained until the compressor can be serviced.
CENTRAL DESK CONTROL READY	All Friedrich digital PTACs have low voltage terminals ready to connect a central desk control energy management system. Controlling the unit from a remote location like the front desk can reduce energy usage and requires no additional accessories on the PTAC unit.
INDOOR COIL FROST SENSOR	The frost sensor protects the compressor from damage in the event that airflow is reduced or low outdoor temperatures cause the indoor coil to freeze. When the indoor coil reaches 30°F, the compressor is disabled and the fan continues to operate based on demand. Once the coil temperature returns to 45°F, the compressor returns to operation.
ULTRAQUIET AIR SYSTEM	The PZ-Series units feature an indoor fan system design that reduces sound levels without lowering airflow or preventing proper air circulation.
HIGH EFFICIENCY	The Friedrich PTAC has been engineered so that all functional systems are optimized so that they work together to deliver the highest possible performance.
DUAL MOTOR	The dual-motor design means that the indoor motor can run at slower speeds which reduces sound levels indoors.
ROTARY COMPRESSOR	High efficiency rotary compressors are used on all Friedrich PTACs to maximize durability and efficiency.
TOP-MOUNTED WASHABLE AIR FILTERS	All Friedrich PTAC return air filters feature top-mounted air filters. All filters are washable, reusable and easily accessed from the top of the unit without the removal of the front cover.
FILTERED FRESH AIR INTAKE	Friedrich PTAC units are capable of introducing up to 75 CFM of outside air into the conditioned space. The outdoor air passes through a washable mesh screen to prevent debris from entering the airstream.
R-32 REFRIGERANT	Friedrich PTAC units use environmentally-friendly refrigerant.
FRESHAIRE IAQ READY	A full complement of Indoor Air Quality Products has been certified through installation and testing to ensure exceptional air quality is achieved when optional FreshAire® IAQ accessories are added.

CHASSIS SPECIFICATIONS

ELECTRIC HEAT MODELS, R-32 REFRIGERANT

Model	PZE07K3SC	PZE09K3SC	PZE09R3SC	PZE12K3SC	PZE12R3SC	PZE15K5SC
PERFORMANCE DATA						
Cooling Btu	7,000/6,800	9,300/9,100	9,000	12,000/11,800	12,300	14,500/14,300
Cooling Watts	585/565	800/785	780	1,110/1,090	1,150	1,450/1,430
Energy Efficient Ratio, EER	12.0/12.0	11.6/11.6	11.5	10.8/10.8	10.7	10.0/10.0
Heater Size (kW)	3.5	3.5	3.5	3.5	3.5	5.0
Moisture Removal (pints/hr.)	0.69	1.37/1.69	1.1	2.32/2.56	2.81	4.29/4.44
Sensible Heat Ratio	89%	86%	84%	77%	75.7%	68.1%
ELECTRICAL DATA						
Voltage (1 PHASE, 60 Hz)	230/208	230/208	265	230/208	265	230/208
Volt Range	253-187	250-187	292-239	253-287	292-239	253-187
Current (Amps)	2.6/2.7	3.48/3.77	4.2	4.82/5.24	5.92	6.3/6.87
Electric Heater (Amps)	15.9	15.9	13.7	15.9	13.7	21.9
Power Factor	0.93/0.95	0.97/0.98	0.98	0.99/0.98	0.98	0.99/0.98
Compressor LRA	13.4	17.5	16.0	23.9	21.0	34.7
Compressor RLA	2.4	3.43	2.45	4.51	4.3	6.4
Outdoor Fan Motor, HP	0.07	0.07	0.07	0.07	0.07	0.07
AIRFLOW DATA						
Indoor CFM, HIGH	350	390	390	450	450	450
Indoor CFM, LOW	330	330	330	340	340	340
Vent CFM	75	75	75	75	75	75
PHYSICAL DATA						
Sleeve Dimensions (H x W x D)	16" x 42" x 13 3/4" (all models)					
Dimensions with Front (H x W x D)	16" x 42" x 21 1/2" (all models)					
Cut Out Dimensions (H x W x D)	16 1/4" x 42 1/4" (all models)					
Net Weight (lbs.)	90	94	94	106	94	107
Shipping Weight (lbs.)	103	105	105	117	105	118
R-32 Charge (oz.)	17.6	18.7	19.0	21.5	22.2	27.5
Dimensions with Packaging (inches)	19 3/4" x 43 1/2" x 23" (all models)					

Receptacles and Fuse Types				
Voltage	230V			265V
Amps	15	20	30	20
Heater Size	2.5 kW	3.5 kW	5.0 kW	3.5 kW
Receptacles				
NEMA# Receptacle	6-15R	6-20R	6-30R	7-20R
NEMA# Plug	6-15P	6-20P	6-30P	7-20P

Due to continuing research in new energy-saving technology, specifications are subject to change without notice. Warranty limited to installations in the United States, Puerto Rico, Mexico and Canada only. See warranty documentation for full details

CHASSIS SPECIFICATIONS

HEAT PUMPS MODELS, R-32 REFRIGERANT

Model	PZH07K3SC	PZH07K2SC	PZH09K3SC	PZH09R3SC	PZH12K3SC	PZH12K5SC	PZH12R3SC	PZH15K3SC	PZH15K5SC
PERFORMANCE DATA									
Cooling Btu	7,200/6,800	7,200/6,800	9,200/9,000	9,000	12,000/11,800	12,000/11,800	12,300	14,500/14,300	14,500/14,300
Cooling Watts	590/570	605/570	805/790	780	1,130/1,110	1,130/1,110	1,150	1,450/1,430	1,450/1,430
Energy Efficient Ratio, EER	11.9/11.9	11.9/11.9	11.4/11.4	11.5	10.6/10.6	10.6/10.6	10.7	10.0/10.0	10.0/10.0
Heater Size (kW)	3.5	2.5	3.5	3.5	3.5	5.0	3.5	3.5	5.0
Reverse Heating Btu	6,000/5,800	6,000/5,800	8,000/7,800	8,200	10,400/10,200	10,400/10,200	10,800	13,600/13,200	13,600/13,200
Heating Watts	500/485	500/485	690/670	685	895/880	895/880	1,005	1,245/1,210	1,245/1,210
COP	3.5/3.5	3.5/3.5	3.4/3.4	3.5	3.4/3.4	3.4/3.4	3.2	3.2/3.2	3.2/3.2
Moisture Removal (pints/hr.)	0.69	TBD	1.37/1.69	1.1	2.32/2.56	2.32/2.56	2.81	4.29/4.44	4.29/4.44
Sensible Heat Ratio	0.89	0.98	0.85	0.86	0.78	0.78	0.753	0.68	0.68
ELECTRICAL DATA									
Voltage (1 PHASE, 60 Hz)	230/208	230/208	230/208	265	230/208	230/208	265	230/208	230/208
Volt Range	253-187	253-187	253-187	292-239	253-187	253-187	292-239	253-187	253-187
Current (Amps)	2.6/2.8	2.63/2.74	3.6/3.9	3.1	5.0/5.4	4.9/5.3	5.1	6.3/6.9	6.4/7.0
Electric Heater (Amps)	15.9	15.9	15.9	13.7	15.9	15.9	13.7	21.9	21.9
Reverse Heat. Amps	2.3/2.4	2.1/2.3	3.1/3.3	3.1	4.0/4.4	3.9/4.2	4.5	5.4/5.8	5.5/6.0
Power Factor	0.93/0.95	0.93/0.95	0.97/0.98	0.98	0.99/0.98	0.99	0.98	0.99/0.98	0.99/0.98
Compressor LRA	13.4	13.4	17.5	16.0	23.9	23.9	21.0	34.7	34.7
Compressor RLA	2.4	2.4	3.43	2.45	4.51	4.51	4.3	6.4	6.4
Outdoor Fan Motor, HP	0.07	0.07	0.07	0.06	0.07	0.07	0.08	0.07	0.07
AIRFLOW DATA									
Indoor CFM, HIGH	350	424	390	390	450	412	450	471	450
Indoor CFM, LOW	330	365	330	330	340	365	340	412	340
Vent CFM	75	75	75	75	75	75	75	75	75
PHYSICAL DATA									
Sleeve Dimensions (H x W x D)	16" x 42" x 13 3/4" (all models)								
Dimensions with Front (H x W x D)	16" x 42" x 21 1/2" (all models)								
Cut Out Dimensions (H x W x D)	16 1/4" x 42 1/4" (all models)								
Net Weight (lbs.)	92.6	92.6	95	94	107	107	94	108	108
Shipping Weight (lbs.)	104	104	106	105	118	118	105	119	119
R-32 Charge (oz.)	17.6	17.6	18.7	19.0	21.5	21.5	22.2	27.5	27.5
Dimensions with Packaging (inches)	19 3/4" x 43 1/2" x 23" (all models)								

Receptacles and Fuse Types				
Voltage	230V			265V
Amps	15	20	30	20
Heater Size	2.5 kW	3.5 kW	5.0 kW	3.5 kW
Receptacles				
NEMA# Receptacle	6-15R	6-20R	6-30R	7-20R
NEMA# Plug	6-15P	6-20P	6-30P	7-20P

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COOLING PERFORMANCE

PZH/PZE 230/265V - Extended Cooling Performance

		OUTDOOR DRY BULB TEMP. (DEGREES F AT 40% R.H.)																	
		75F			85F			95F			105F			110F			115F		
		INDOOR WET BULB TEMP. (DEGREES F AT 80° F D.B.)																	
		72F	67F	62F	72F	67F	62F	72F	67F	62F	72F	67F	62F	72F	67F	62F	72F	67F	62F
PZX07K	Btu	8791	8015	6944	8241	7647	6687	7849	7353	6430	7064	6691	6089	6216	5821	5123	5239	5082	4726
	Watts	484	489	498	514	521	546	582	584	584	599	608	623	675	689	702	740	747	772
	Amps	2.15	2.17	2.21	2.28	2.31	2.42	2.58	2.59	2.59	2.66	2.70	2.76	2.99	3.06	3.11	3.28	3.31	3.43
	SHR	0.63	0.78	0.92	0.7	0.81	0.94	0.78	0.88	0.97	0.84	0.91	0.97	0.9	0.95	0.98	0.91	0.96	0.98
PZX09K	Btu	11336	10335	8955	10627	9861	8623	10121	9482	8291	9109	8629	7852	8016	7507	6606	6756	6554	6095
	Watts	652	663.2	677.9	692.4	706.6	743.3	784	792	795	806.9	824.5	848.1	909.3	934.4	955.6	996.8	1013	1051
	Amps	2.89	2.94	3.01	3.07	3.13	3.30	3.48	3.51	3.53	3.58	3.66	3.76	4.03	4.15	4.24	4.42	4.49	4.66
	SHR	0.56	0.7	0.79	0.62	0.727	0.80	0.69	0.79	0.83	0.74	0.85	0.86	0.80	0.88	0.87	0.81	0.9	0.92
PZX12K	Btu	15134	13798	11955	14188	13165	11512	13513	12659	11070	12161	11520	10483	10702	10022	8819	9020	8749	8137
	Watts	925.6	937.8	961.9	983	999.2	1055	1113	1120	1128	1146	1166	1203	1291	1321	1356	1415	1433	1491
	Amps	4.11	4.16	4.27	4.36	4.43	4.68	4.94	4.97	5.00	5.08	5.17	5.34	5.73	5.86	6.02	6.28	6.36	6.62
	SHR	0.51	0.56	0.62	0.54	0.69	0.84	0.57	0.73	0.88	0.65	0.79	0.91	0.72	0.82	0.93	0.75	0.85	0.93
PZX15K	Btu	18919	17249	14945	17737	16458	14392	16892	15825	13838	15203	14401	13105	13379	12529	11025	11276	10938	10172
	Watts	1192	1218	1253	1266	1298	1373	1433	1455	1469	1475	1515	1567	1662	1717	1766	1822	1861	1942
	Amps	5.29	5.41	5.56	5.61	5.76	6.09	6.36	6.46	6.52	6.54	6.72	6.95	7.37	7.62	7.83	8.08	8.26	8.62
	SHR	0.48	0.53	0.59	0.5	0.58	0.66	0.52	0.65	0.77	0.58	0.71	0.82	0.63	0.75	0.87	0.69	0.82	0.89
PZX09R	Btu	11515	10499	9096	10796	10017	8760	10282	9632	8423	9253	8765	7976	8143	7626	6711	6863	6657	6191
	Watts	633.7	640.6	654.9	673	682.5	718	762	765	768	784.3	796.4	819.3	883.8	902.5	923.2	968.9	978.5	1015
	Amps	2.81	2.84	2.91	2.99	3.03	3.19	3.38	3.39	3.41	3.48	3.53	3.63	3.92	4.00	4.10	4.30	4.34	4.50
	SHR	0.57	0.72	0.79	0.62	0.73	0.81	0.72	0.82	0.89	0.77	0.86	0.88	0.8	0.88	0.9	0.82	0.9	0.93
PZX12R	Btu	16317	14876	12889	15297	14194	12412	14568	13648	11934	13112	12420	11302	11538	10805	9509	9725	9433	8773
	Watts	979.6	993.9	1017	1040	1059	1115	1178	1187	1193	1212	1236	1273	1366	1400	1434	1498	1518	1577
	Amps	4.35	4.41	4.51	4.62	4.70	4.95	5.23	5.27	5.29	5.38	5.48	5.65	6.06	6.21	6.36	6.65	6.74	7.00
	SHR	0.51	0.57	0.62	0.53	0.68	0.84	0.63	0.74	0.87	0.66	0.78	0.89	0.72	0.81	0.92	0.75	0.84	0.92
								RATING POINT ARI 310/380											

HEATING PERFORMANCE

PZH 230/265V - Extended Heating Performance

		OUTDOOR DRY BULB TEMP. (DEGREES F)				
		37F	42F	47F	52F	57F
PZH07K	Btu	5323	5673	6367	6884	7326
	Watts	470	489	502	531	548
	Amps	2.09	2.17	2.23	2.36	2.43
PZH09K	Btu	6327	6984	8537	9164	9987
	Watts	639	656	698	721	746
	Amps	2.83	2.91	3.10	3.20	3.31
PZH12K	Btu	8130	9067	10639	11232	11894
	Watts	795	828	865	884	917
	Amps	3.53	3.67	3.84	3.92	4.07
PZH15K	Btu	11803	12993	14023	14749	15642
	Watts	1108	1163	1208	1248	1310
	Amps	4.92	5.16	5.36	5.54	5.81
PZH09R	Btu	6287	6931	8465	9104	9837
	Watts	937	652	695	718	742
	Amps	4.16	2.89	3.08	3.19	3.29
PZH12R	Btu	8263	9217	10895	11429	12185
	Watts	914	953	995	1036	1084
	Amps	4.06	4.23	4.41	4.60	4.81
				RATING POINT ARI 310/380		

ELECTRIC HEAT DATA

	PZE/PZH09K		PZE/PZH09R
HEATER WATTS	3600	2940	3600
VOLTAGE	230	208	265
HEATING BTU	8500	8200	8500
HEATING CURRENT (AMPS)	15.9	14.3	13.7
MINIMUM CIRCUIT AMPACITY	19.9	17.9	17.1
BRANCH CIRCUIT FUSE (AMPS)	20	20	20

	PZE/PZH12K		PZE/PZH12R
HEATER WATTS	3600	2940	3600
VOLTAGE	230	208	265
HEATING BTU	11000	10800	11000
HEATING CURRENT (AMPS)	15.9	14.3	13.7
MINIMUM CIRCUIT AMPACITY	19.9	17.9	17.1
BRANCH CIRCUIT FUSE (AMPS)	20	20	20

	PZE/PZH15K	
HEATER WATTS	5000	4090
VOLTAGE	230	208
HEATING BTU	13600	13200
HEATING CURRENT (AMPS)	21.9	19.8
MINIMUM CIRCUIT AMPACITY	27.4	24.8
BRANCH CIRCUIT FUSE (AMPS)	30	25

MODEL IDENTIFICATION / COMPONENTS

PTAC/PTHP Model Identification Guide

PZ H 07 K 3 S A

Series
PZ = Friedrich Digital PTAC

System
E = Cooling with or without electric heat
H = Heat Pump with auxiliary heat

NOMINAL CAPACITY
07 = 7,000 Btu 12 = 12,000 Btu
09 = 9,000 Btu 15 = 15,000 Btu

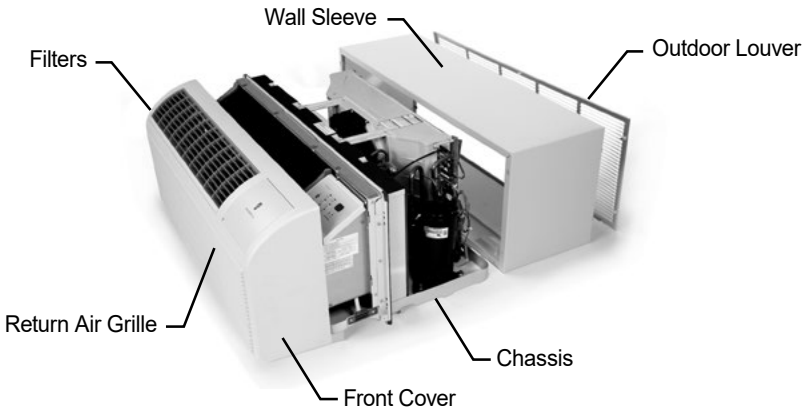
VOLTAGE
K = 230/208V - 1 Ph. - 60 Hz.
R = 265V - 1 Ph. - 60 Hz.
* 265V available only with 9,000 & 12,000 Btu models

Nominal Heater Size (@ 230V or 265V)
3 = 3.6KW (7K/9K/12K models)
5 = 5.0 KW* (15K models)
* 5.0 KW only available 15,000 Btu models

Chassis
S = Standard

Design Series

Typical Unit Components



FRIEDRICH

ZoneAire® Select Series PTAC

Cooling with Electric Heat, Heat Pump

PURCHASER	P.O. #	DATE
PROJECT	LOCATION	
ENGINEER	ARCHITECT	
SUBMITTED BY	FOR APPROVAL	FOR REFERENCE

ITEM	PLAN DESIGNATION	QUANTITY	COOLING Btu	VOLTAGE	FRIEDRICH MODEL

Accessories

PDXWSA	Wall Sleeve	Qty	
PDXWSEZ	Wall Sleeve	Qty	
PDXWSEXT18	Deep Wall Sleeve- For walls up to 17 1/2" deep	Qty	
PDXWSEXT24	Deep Wall Sleeve- For walls up to 23 1/2" deep	Qty	
PDXWSEXT	Custom Deep Wall Sleeve, For walls from 13 1/4" to 25 1/2" deep	Qty	
PXGA	Standard Outdoor Louver	Qty	
PXAA	Architectural Louver, clear	Qty	
PXBG	Architectural Louver, beige	Qty	
PXSC	Architectural Louver, color matched	Qty	
PDXRTB	Remote Thermostat Escutcheon Kit	Qty	
PXDR10	Condensate Drain Kit (pkg/10)	Qty	
PXSBA	Sub Base	Qty	
PXCJA	Conduit Kit w/ Junction Box	Qty	
PDXDAA	Lateral Duct Adapter	Qty	
PDXDEA	Lateral Duct Extension	Qty	
PXFTA	Replacement Filters (Set of 10)	Qty	
APWM1	FreshAire® Purification iWaves Series M	Qty	

PXSB23020	Electrical Subbase - 230V 15A and 20A	Qty	
PXSB23030	Electrical Subbase - 230V 30A	Qty	
PXSB26515	Electrical Subase - 265V 15A	Qty	
PXSB26520	Electrical Subbase - 265V 20A	Qty	
PXSB26530	Electrical Subbase - 265V 30A	Qty	
RT7	Wired Digital Thermostat	Qty	
RT7P	Wired Programmable Digital Thermostat	Qty	
EMRTA4	Wired Thermostat with Occupancy Sensor	Qty	
EMRTB4	Wired Thermostat with Occupancy Sensor	Qty	
EMWRTA4	Wireless Thermostat with Occupancy Sensor	Qty	
EMWRTB4	Wireless Thermostat with Occupancy Sensor	Qty	
WRT2	Wireless Digital Thermostat	Qty	
EMOCT	Online Connection Kit	Qty	
EMRAF	Remote Access Fee	Qty	

Features

Constant room comfort monitoring

"Instant Heat" heat pump mode quickly heats a room to the desired temperature for increased comfort

Even heat monitoring checks room temperature and automatically adds heat boost if necessary

Room freeze protection- heat initiated if temperature falls to 40°F in an unoccupied room, raising temperature to 46°F

Dual motors for quiet operation

Durable, powder coat paint finish

Indoor coil frost sensor protects the compressor to lengthen the life of the unit

Random compressor restart protects electrical systems from overload when power is restored

Separate heat and cool range limits

Central desk control ready allowing hotel owners to control units from a central location

Condensate removal systems uses slinger ring technology

Electronic defrost control ensures more run time in the efficient heat pump mode

Fresh air damper control to bring in fresh outside air when desired

Washable air filters

Service error code memory storage

Emergency heat override

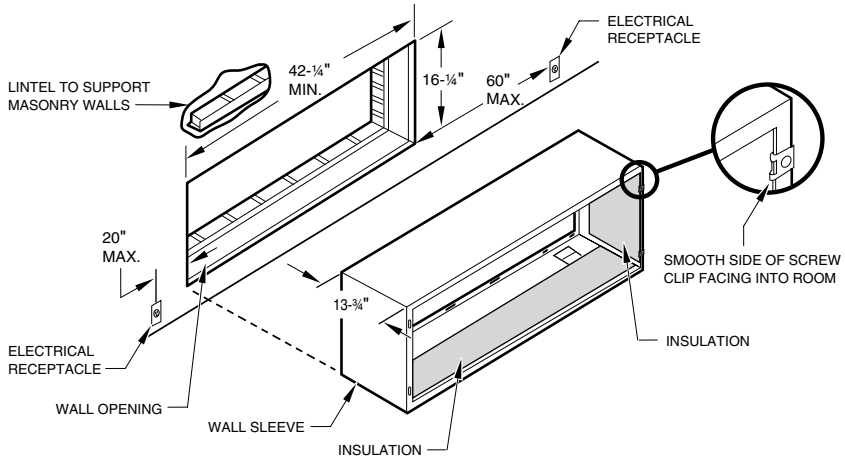
INSTALLATION

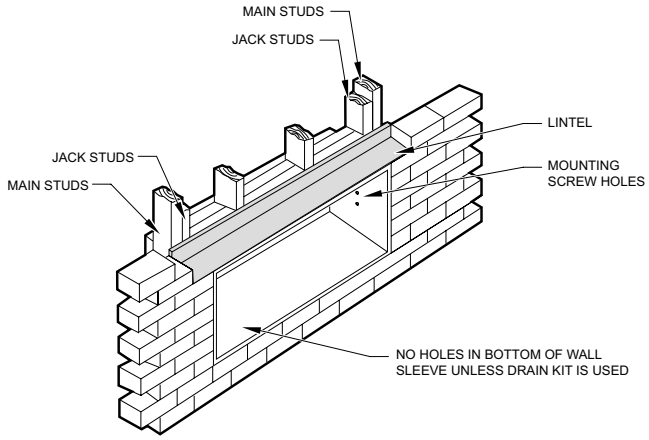
Typical Wall Sleeve Installation (PDXWSA)

PDXWSA Wall Sleeve Dimensions:
16" H x 42" W x 13 3/4" D

Front Cover Dimensions:
16" H x 42" W x 7 3/4" D

Cut-Out Dimensions:
16 1/4" x 42 1/4"





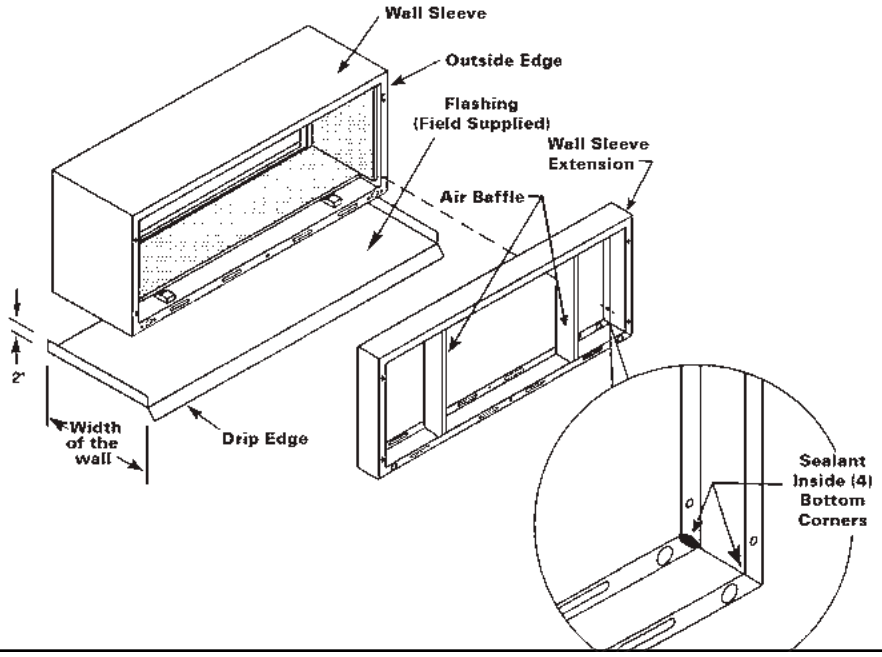
Note the use of a lintel under the first course of bricks above the wall sleeve. Do not use the wall sleeve as a lintel. The mounting screw holes shown are to be made by the installer.

Note: All 230/208V units are manufactured with a 60" power cord and all 265V units with an 18" power cord. The receptacle locations above must be followed to ensure proper connections.

NOTE: Construct wall opening to comply with all applicable building codes.

FRP010

Deep Wall Sleeve Installation



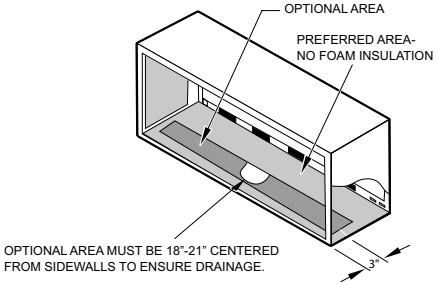
Seal condensate drip pan to wall sleeve with sealant on all (4) bottom corners.

IMPORTANT NOTE:

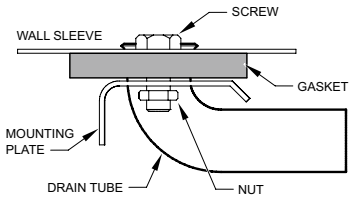
The silicone bead MUST extend up the side of the two flanges to prevent condensate from leaking.

ACCESSORY INSTALLATION

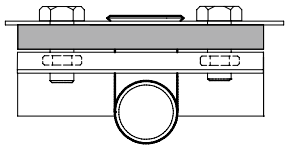
Internal Drain Kit Location and Installation (PXDR10)



NOTE: IF THE DRAIN MUST BE LOCATED IN THE OPTIONAL AREA, THE FOAM INSULATION MUST BE CUT AWAY AND REMOVED TO ALLOW ACCESS TO THE DRAIN.



SIDE VIEW



FRONT VIEW

FRP011

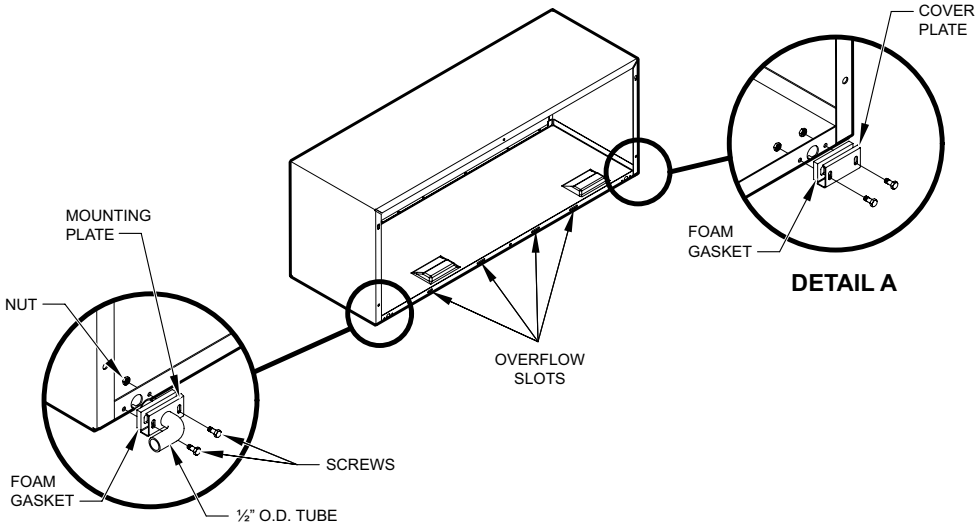
PXDR10 DRAIN KIT

External Drain

When using an external drain system, the condensate is removed through either of two drain holes on the back of the wall sleeve. Select the drain hole which best meets your drainage situation and install the drain kit. Seal off the other drain hole with a cover plate.

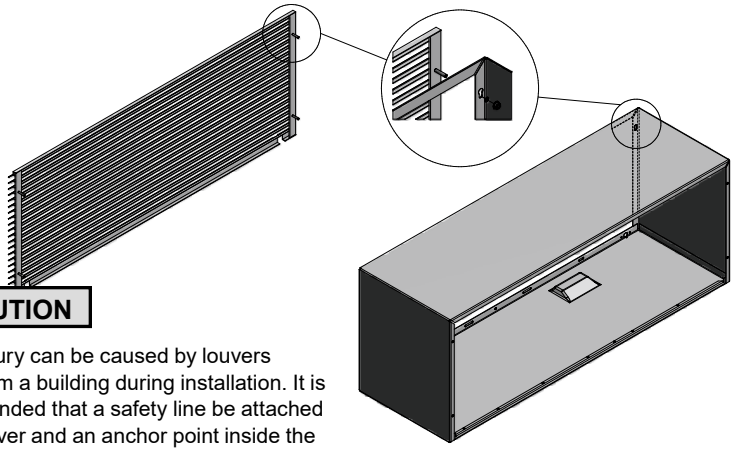
Place the drain tube through the gasket and the mounting plate with the flange toward the wall sleeve.

Attach the drain tube assembly to one of the two drain holes at the rear of the wall sleeve. The large flange on the mounting plate is positioned at the bottom of the sleeve facing toward the sleeve. When the drain tube is positioned at the desired angle, tighten the screws.



FRP012

Architectural Louver Installation (PXAA)



⚠CAUTION

Bodily injury can be caused by louvers falling from a building during installation. It is recommended that a safety line be attached to the louver and an anchor point inside the building during installation.

INSTALLATION

1. Screw a threaded metal stud into each of the holes at the four corners of the louver.
2. From inside the building, grasp the louver at the vertical supports and maneuver the louver through the wall sleeve. Pull towards you until the threaded studs are inserted into the four holes of the wall sleeve.
3. While holding the louver with one hand, start washers and nuts on each of the four studs. Tighten the nuts securely.

HVAC Engineering Specifications

Digital Packaged Terminal Air Conditioners & Heat Pumps

Cooling: 7000 – 14500 Btu

Heating: 6000 – 13600 Btu (Heat Pump)
6824 – 17060 Btu (Electric Heat)

Friedrich Models: PZE – Cooling with electric heat
PZH – Heat Pump with electric heat

All units shall be factory assembled, piped, wired and fully charged with R-32. All units shall be certified in accordance with ARI Standard 310 for air conditioners and ARI standard 380 for heat pumps. Units shall be UL listed and carry a UL label. All units shall be factory run-tested to check operation and be Friedrich or equivalent.

The basic unit shall not exceed 16" high x 42" wide. Overall depth of the unit from the rear of the Friedrich wall sleeve to the front of the decorative front cover shall not exceed 21 1/4". The unit shall be designed so that room intrusion may be as little as 7 1/4". Installations in walls deeper than 13 1/4" may be accomplished with the use of a deep wall sleeve (PDXWSEXT). Unit shall draw in ambient air through both sides of an outdoor architectural louver or grille measuring 42" wide x 16" high and shall exhaust air out middle portion of the louver. The architectural louver and wall sleeve shall be designed so that the louver may be installed from the inside of the building.

REFRIGERATION SYSTEM – The refrigeration system shall be hermetically sealed and consist of a rotary compressor that is externally mounted on vibration isolators no smaller than 1 3/8" dia. x 1 1/2" high; condenser and evaporator coils constructed of copper tubes and aluminum plate fins; and capillaries as expansion devices. Unit shall have a fan slinger ring to increase efficiency and condensate disposal and have a drain pan capable of retaining 1 1/2 gallons of condensate. A tertiary condensate removal system shall also be incorporated for back up and shall overflow through the wall sleeve and to the outside of the building as a safeguard against damage to the interior room.

INDOOR AIR HANDLING SECTION – The indoor air handling section shall consist of a tangential blower wheel direct driven by a totally enclosed motor. The air handling system shall be designed to minimize airflow noise and provide smooth and consistent airflow. The indoor fan must have three fan speeds that may be selected by the user.

The indoor discharge grille shall be designed to maximize airflow throughout the room. The grille shall be reversible to allow a change in the airflow directions. The grille openings shall be sized to prevent personal injury or damage to the unit.

The front cover shall incorporate dual air filters conveniently mounted in the front of the unit. The filters must be accessible without the removal of the front cover. The filters shall be washable and reusable by cleaning with water or by vacuuming.

The chassis shall have a built-in damper capable of providing at least 75 CFM of fresh air into the conditioned area. A fine mesh screen shall filter the incoming fresh air. There must be a provision for locking the damper closed to ensure a proper seal.

OUTDOOR AIR HANDLING SECTION – The outdoor air section shall consist of a single injection molded fan shroud that incorporates the outdoor motor mount into a single piece for ease of service and assembly. The outdoor motor shall be totally enclosed, ball-bearing, permanently lubricated and directly drive the outdoor fan/slinger ring.

CONTROLS – Covered controls shall be accessible in a compartment at least 7 1/2" wide with the controls no deeper than 1 1/4" in the opening to facilitate easy operation of the unit.

The unit controls shall feature a soft blue LED readout that can display either room temperature or setpoint temperature. The unit shall receive input from the digital control panel through push buttons labeled: 'Fan', 'Cool', 'Heat', 'Low Fan', 'Med Fan', 'High Fan', '▲', '▼' and 'Power'. When 'Off', the unit may be put directly into cooling or heating mode by pressing the 'Cool' or 'Heat' button.

The unit must have the following energy saving and convenience features built-in:

- Quiet start/stop fan delay
- Fan cycle control for cooling and heating independently
- Room freeze protection
- Random compressor restart
- Electronic temperature limiting

The PTAC must also offer the ability to be controlled by a remote wall-mounted thermostat without additional accessories. Low voltage inputs will include: C (common), R (24V power), Y (cooling), GL (fan low), GH (fan high), W (heat) and O (reversing valve on PZH heat pumps only).

PTAC models shall use a single stage cool/single stage heat thermostat. PTHP models shall use a single stage cool/two-stage heat thermostat. An accessory thermostat must be available from the manufacturer, RT7/RT7P or equivalent. The RT7/RT7P thermostat will provide temperature setpoint, mode selection from cool, heat and fan modes. The thermostat must also allow the selection of fan speed between high and low speed.

Other controls accessible without removal of the chassis shall include fan cycle switch, fresh air vent control and emergency heat override switch (heat pump only).

ELECTRICAL CONNECTION – All PTAC/PTHP units shall come from the factory with a power cord installed. All 230/208V power cords shall feature a leakage current detection device on the plug head.

GENERAL CONSTRUCTION – The wall sleeve shall be constructed of 18-gauge Galvanized zinc-coated steel. It shall be prepared by a process where it is zinc phosphate pretreated and sealed with a chromate rinse, then powder coated with a polyester finish and oven cured for durability. The sleeve shall be shipped with a protective weatherboard and a structural center support, and be insulated for sound absorption and thermal efficiency. The grille or louver shall be shipped separately and made from stamped or extruded anodized aluminum. All louvers shall be in the horizontal plane.

The front panel shall attach firmly to the chassis by two hidden spring clips. As an option the cover may be attached by two screws to prevent tampering. The front panel will feature a contoured discharge with no sharp corners.

CORROSION PROTECTION – The unit shall have corrosion-resistant fans, fan shroud and drain pan for corrosion protection and to prevent rust on the side of the building below the outdoor louver. The unit shall feature corrosion resistant materials and finishes to help prevent deterioration. All outdoor coils shall have aluminum endplates to eliminate rusting of the endplates.

WARRANTY – The warranty is two years on all parts and labor and five years on the sealed system, parts and labor, including compressor, indoor and outdoor coils and refrigerant tubing.

ACCESSORIES

New Construction Accessories

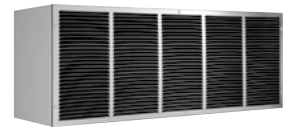
PDXWSA	**WALL SLEEVE** Galvanized zinc coated steel is prepared in an 11-step process, then powder coated with a polyester finish and cured in an oven for exceptional durability. The wall sleeve is insulated for sound absorption and thermal efficiency, 16" H x 42" W x 13 3/4" D.
PDXWSEXT18	**DEEP WALL SLEEVE** For walls up to 17 1/2" deep.
PDXWSEXT24	**DEEP WALL SLEEVE** For walls up to 23 1/2" deep.
PDXWSEXT	**CUSTOM DEEP WALL SLEEVE** One piece extended wall sleeve for walls from 13 1/4" to 25 1/2" deep are available by special order.

PDXWSA

Deep wall sleeve PDXWSEXT18 shown with weather panel

PXGA	**GRILLE** Standard, stamped aluminium, anodized to resist chalking and oxidation.
PXAA PXBG PXSC	**ARCHITECTURAL GRILLES** Consist of heavy-gauge 6063-T5 aluminum alloy: 42" W x 16" H x 1 1/8" D. PXAA – Clear, extruded aluminum PXBG – Beige acrylic enamel PXSC – Also available in custom colors.

PXGA



PXAA

PXDR10	**CONDENSATE DRAIN KIT** Attaches to the bottom of the wall sleeve for internal draining of condensate or to the rear wall sleeve flange for external draining. Recommended on all units to remove excess condensate. Packaged in quantities of ten.

PXCJA	**CONDUIT KIT WITH JUNCTION BOX** Hard wire conduit kit with junction box for 208/230V and 265V units (subbase not required). Kit includes a means of quick disconnect for easy removal of the chassis. *Required for 265V installations.

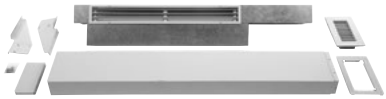
PXFTB	**REPLACEMENT FILTER PACK** These are original equipment return air filters. They are reusable and can be cleaned by vacuuming, washing, or blowing out, and are sold in convenient ten-packs. (Two filters per chassis).

ACCESSORIES

New Construction Accessories

PDXDAA

LATERAL DUCT ADAPTER Attaches to the Friedrich PTAC/PTHP unit to direct up to 35% of the total airflow to a second room. The unit-mounted duct plenum features a front-mounted aluminum grille that has two positions to provide the most optimal air direction. The air may be directed to either the left or the right of the unit through the supplied 3 1/2" H x 7" W x 47" L plenum. Plenum may be cut to length by the installer. Kit includes duct plenum, front grille, 47" duct extension, duct discharge grille, duct end cap and all necessary mounting hardware.



PDXDEA

LATERAL DUCT EXTENSION Additional 3 1/2" H x 7" W x 47" L plenum for use with the LATERAL DUCT ADAPTER. A maximum of 3 duct extensions total may be used. Note: Ducted airflow is reduced as duct length is increased.

PXSBA

DECORATIVE SUBBASE Provides unit support for walls less than six inches thick. Includes leveling legs, side filler panels and mounting brackets for electrical accessories. Accepts circuit breaker, power disconnect switch, or conduit kit.

PXSB

ELECTRICAL SUBBASE Provides unit support for walls less than six inches thick. Includes leveling legs, side filler panels, mounting brackets, a plug-in receptacle and field-wiring access. The subbase also includes electrical knockouts for a power disconnect switch or circuit breaker.

PXSB23020	Electrical Subbase - 230V 15 & 20A
PXSB23030	Electrical Subbase - 230V 30A
PXSB26515	Electrical Subbase - 265V 15A
PXSB26520	Electrical Subbase - 265V 20A
PXSB26530	Electrical Subbase - 265V 30A

RT7
RT7P

DIGITAL REMOTE THERMOSTATS

RT7P
24v, Wired (7 Std), single stage, wall-mounted, 7-day programmable thermostat, three fan speeds (auto/low/high), and an easy-to-read large backlight display.

RT7
24v, Wired (7 Std), non-programmable, wall-mounted thermostat (unit powered capable). three fan speeds (auto/low/high), and an easy-to-read backlight display.

WRT2

WIRELESS DIGITAL REMOTE THERMOSTAT

Wireless wall-mounted thermostat (battery powered). Wireless transmitter (24v), 7-day programmable, three fan speeds (auto/low/high), and an easy to read large backlight display.

PDXRTB

REMOTE THERMOSTAT ESCUTCHEON KIT This kit contains ten escutcheons that can be placed over the factory control buttons when a remote wall mounted thermostat is used. The escutcheon directs the guest to the wall thermostat for operation and retains the LED window to display error codes and diagnostic information.

EMRT(A/B)4
EMWRT(A/B)4

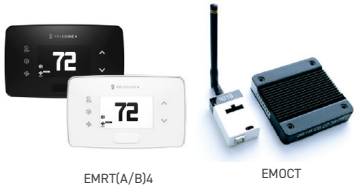
ENERGY MANAGEMENT THERMOSTATS

EMRTA4 (WHITE) / EMRTB4 (BLACK)
Wired thermostat with occupancy sensor.

EMWRTA4 (White) / EMWRTB4 (Black)
Wireless thermostat with occupancy sensor.

EMOCT
Online connection kit.

EMRAF
Remote access fee.



EMRT(A/B)4
EMWRT(A/B)4

EMOCT

Friedrich Air Conditioning Co.
10001 Reunion Place, San Antonio, TX 78216
800.541.6645
www.friedrich.com

ZONEAIRE® • SELECT SERIES
PACKAGED TERMINAL AIR CONDITIONERS LIMITED WARRANTY

SAVE THIS CERTIFICATE. It gives you specific rights. You may also have other rights which may vary from state to state and province to province

In the event that your unit needs servicing, contact your nearest authorized service center. If you do not know the nearest service center, ask the company that installed your unit or contact us - see address and telephone number above. To obtain service and/or warranty parts replacement, you must notify an authorized FRIEDRICH Air Conditioning Co. service center, distributor, dealer, or contractor of any defect within the applicable warranty period.

When requesting service: please have the model and serial number from your unit readily available.

Unless specified otherwise herein, the following applies:

FRIEDRICH PACKAGED TERMINAL AIR CONDITIONERS AND HEAT PUMPS

LIMITED WARRANTY - TWO YEARS (Twenty-four (24) months from the date of installation). Any part found to be defective in the material or workmanship will be repaired or replaced free of charge by our authorized service center during the normal working hours; and

LIMITED WARRANTY - THIRD THROUGH FIFTH YEAR (Sixty (60) months from the date of installation). ON THE SEALED REFRIGERATION SYSTEM. Any part of the sealed refrigeration system that is defective in material or workmanship will be repaired or replaced free of charge (excluding freight charges) by our authorized service center during normal working hours. The sealed refrigeration system consists of the compressor, metering device, evaporator, condenser, reversing valve, check valve, and the interconnecting tubing.

These warranties apply only while the unit remains at the original site and only to units installed inside the continental United States, Alaska, Hawaii, Puerto Rico, Mexico and Canada. The warranty applies only if the unit is installed and operated in accordance with the printed instructions and in compliance with applicable local installation and building codes and good trade practices. For international warranty information, contact the Friedrich Air Conditioning Company - International Division.

Any defective part to be replaced must be made available to FRIEDRICH in exchange for the replacement part. Reasonable proof must be presented to establish the date of install, otherwise the beginning date of this certificate will be considered to be our shipment date plus sixty days. Replacement parts can be new or remanufactured. Replacement parts and labor are only warranted for any unused portion of the unit's warranty.

We will not be responsible for and the user will pay for:

1. Service calls to:

    A) Instruct on the unit operation. B) Replace house fuses or correct house wiring. C) Clean or replace filters. D) Remove the unit from its installed location when not accessible for service required. E) Correct improper installations.

2. Parts or labor provided by anyone other than an authorized service center.

3. Damage caused by:

    A) Accident, abuse, negligence, misuse, riot, fire, flood, or acts of God. B) Operating the unit where there is a corrosive atmosphere containing Chlorine, Fluorine, or any damaging chemicals (other than in a normal residential environment). C) Unauthorized alteration or repair of the unit, which in turn affects its stability or performance. D) Failing to provide proper maintenance and service. E) Using an incorrect power source. F) Faulty installation or application of the unit. G) Operation of the unit during construction.

We shall not be liable for any incidental, consequential, or special damages or expenses in connection with any use or failure of this unit. We have not made and do not make any representation or warranty of fitness for a particular use or purpose and there is no implied condition of fitness for a particular use or purpose. We make no expressed warranties except as stated in this certificate. No one is authorized to change this certificate or to create for us any other obligation or liability in connection with this unit. Any implied warranties shall last for one year after the original purchase date. Some states and provinces do not allow limitations on how long an implied warranty or condition lasts, so the above limitations or other rights and remedies provided by law.

Performance of Friedrich's Warranty obligation is limited to one of the following methods:

1. Repair of the unit
2. A refund to the customer for the prorated value of the unit based upon the remaining warranty period of the unit.
3. Providing a replacement unit of equal value

The method of fulfillment of the warranty obligation is at the sole discretion of Friedrich Air Conditioning.

In case of any questions regarding the provisions of this warranty, the English version will govern.

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Friedrich Air Conditioning Co. I 10001 Reunion Place, Suite 500 I San Antonio, TX 78216 I 877.599.5665 I www.friedrich.com

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