

Renaissance™ Commercial F-Series™

RACDYB Packaged Air Conditioners | 7.5 to 12.5 Tons

Standard Features

- Two-stage Cooling System
- MicroChannel Indoor and Outdoor Coils
- PlusOne® ServiceSmart features
 - Qwik-Change Flex-Fit Rack
 - Qwik-Slide Blower Assembly
 - Qwik-Clean Drain Pan
- Variable Frequency Drive (VFD)
- Convertible Airflow
- Designed for A2L refrigerant R-454B

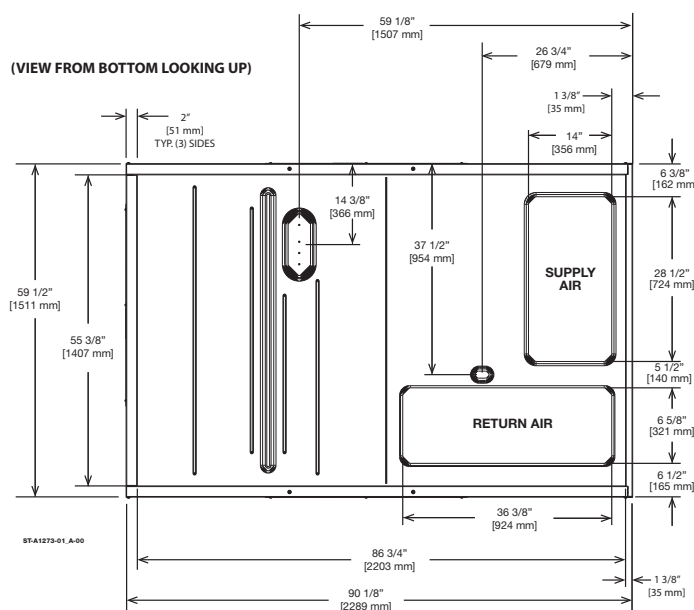
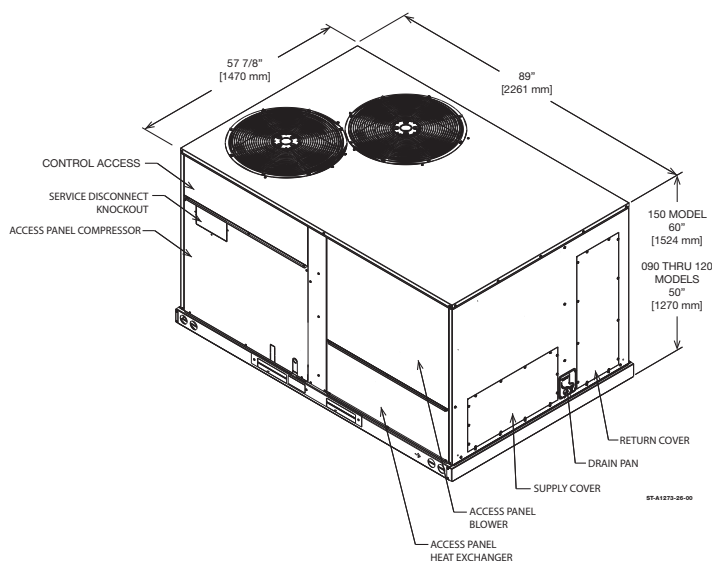


FRIEDRICH
Commercial Air

Capacities Tons	7.5, 8.5, 10, 12.5
Power Options V, PH	208/230 V, 3 PH 460 V, 3 PH 575 V, 3 PH

Information provided for pre-sale only.
Products will not be produced or shipped until ratings are certified to the Department of Energy.

Specifications and Diagrams



Preliminary information based on preliminary estimates.
Not a representation of energy use or efficiency of these models.

Specification	Unit	RACDYB090	RACDYB102	RACDYB120	RACDYB150
Nominal Cooling Capacity	Btu/h [kW]	90,000 [26.38]	102,000 [29.89]	120,000 [35.17]	150,000 [43.96]
Net Cooling Capacity	Btu/h [kW]	85,000 [24.9]	96,000 [28.13]	114,000 [33.4]	142,000 [41.61]
Net Sensible Capacity	Btu/h [kW]	63,740 [18.68]	72,000 [21.10]	85,500 [25.06]	106,500 [31.21]
Net Latent Capacity	Btu/h [kW]	21,250 [6.23]	24,000 [7.03]	28,500 [8.35]	35,500 [10.40]
Stages of Heating / Cooling		2 / 2	2 / 2	2 / 2	2 / 2
EER/IEER up to		11.2 / 14.8	11.2 / 14.8	11.2 / 14.8	11.0 / 14.2
Nominal Airflow	CFM [L/s]	3,000 [1,416]	3,400 [1,604]	4,000 [1,888]	5,000 [2,360]
Estimated Net Weight	lbs. [kg]	736 [334]	762 [346]	903 [410]	993 [450]
Estimated Shipping Weight	lbs. [kg]	775 [352]	801 [363]	942 [427]	1,032 [468]

Renaissance™ Commercial F-Series™ | Packaged A/C

Model Number	R	AC	D	Y	B	090	A	C	A	15	2	A	A	****		
Nomenclature	1	23	4	5	6	789	10	11	12	13 14	15	16	17	18	19	20

1 - Brand R = Friedrich	6 - Efficiency Level B = Standard Efficiency	11 - Voltage C = 208/230 V, 3 PH, 60Hz D = 460 V, 3 PH, 60Hz Y = 575 V, 3 PH, 60 Hz	13, 14 - Heat Capacity 00 = No Heat 10 = 10 kW 15 = 15 kW 20 = 20 kW 30 = 30 kW 40 = 40 kW	16 - Control A = CoreCommand™ B = CoreCommand & Comfort Alert® C = ClearControl™ D = ClearControl & Comfort Alert
2, 3 - Unit Type AC = Packaged AC	7, 8, 9 - Capacity 090 = 7.5 Ton 102 = 8.5 Ton 120 = 10 Ton 150 = 12.5 Ton	12 - Drive F = Belt Drive - VFD Low G = Belt Drive - VFD Medium H = Belt Drive - VFD High	15 - Number of Stages 0 = No Stages 1 = 1 Stage 2 = 2 Stage	17 - Minor Series A = 1st Design
4 - Cabinet Type D = Medium Commercial	10-Major Series A = 1st Design			18, 19, 20 - Option Code AA0
5 - Refrigerant Y = R-454B				

18					19					20				
LV = Louver Protection RH = Reheat (HumidiDry®)* HA = Hinged Access CC = Coil Coating					NP = Non-Powered Convenience Outlet LF = Low Ambient & Freeze Stat					EC = Economizer SS = Supply Smoke RS = Return Smoke				
Option Code Character Highlighted														
A	None				A	None				0	None			
B	LV				B	LF			1	EC				
C	HA				C	NP			2	RS				
D	LV	HA			D	LF	NP		3	EC	RS			
E	LV	CC							4	SS	RS			
F	LV	HA	CC						5	EC	SS	RS		
N	RH													
P	LV	RH												
Q	RH	HA												
R	LV	RH	CC											
S	LV	RH	HA											
T	LV	RH	HA	CC										

* = only available with ClearControl™

Not all model/option combinations are available. Refer to the product specifications sheet or rapidspec.com for specific details.

Accessories

Note: Factory installation available for highlighted models.

Accessory		Model Number	Accessory		Model Number	Accessory	Model Number
BACnet® Communication Card		RXRX-AY01	MERV 8 Filter 7.5 & 8.5 Ton		RXMF-M08A22020	Electric Heater Kits	RXJJ-DD10CP
Carbon Dioxide Sensor (Wall Mount)		RXRX-AR02	MERV 8 Filter 10 & 12.5 Ton		RXMF-M08A22520		RXJJ-DD15CP
Comfort Alert (1 Per Compressor)		RXRZ-AZ02	MERV 13 Filter 7.5 & 8.5 Ton		RXMF-M13A22020		RXJJ-DD20CP
Comfort Alert DDC (1 Per Compressor)		RXRX-AZ01	MERV 13 Filter 10 & 12.5 Ton		RXMF-M13A22520		RXJJ-DD30CP
Dual Enthalpy Kit (for Honeywell® JADE™)		RXRX-BV01	Motorized Fresh Air Damper		RXRF-ADB1		RXJJ-DD40CP
Dual Enthalpy Kit DDC (for Honeywell DDC)		RXRX-BV02	Motorized Fresh Air Damper DDC		RXRF-ADC1		RXJJ-DD10DNV
Dual Enthalpy, Temperature and Humidity Sensor (for Siemens®)		PD555460	Outdoor Coil Louver Kit - 7.5 & 8.5 Ton		RXRX-ADD04A		RXJJ-DD15DNV
Economizer Universal DDC Interface Kit		RXRX-DDC01	Outdoor Coil Louver Kit - 10 & 12.5 Ton		RXRX-ADD04B		RXJJ-DD20DNV
Economizers, Single Enthalpy			Power Exhaust				
Downflow	MicroMetl Economizer, Siemens Controls	RXRD-11MDDAM3	(230V) Convertible MicroMetl	RXRX-CDF01C			
	RRS Rooftop Systems® Economizer	RXRD-41MDDAM3	(460V) Convertible MicroMetl	RXRX-CDF01D			
	DDC MicroMetl Economizer, Honeywell DDC Controller	RXRD-01MDDBM3	(230V) Horizontal RRS	RXRX-RDF03C			
	MicroMetl Economizer, No Controls, Belimo® Actuator	RXRD-31MDDAM3	(230V) Vertical RRS	RXRX-RDF01C			
Horizontal	MicroMetl Economizer, Siemens Controls	RXRD-11MDHAM3	(460V) Horizontal RRS	RXRX-RDF03D			
	RRS Rooftop Systems Economizer	RXRD-41MDHAM3	(460V) Vertical RRS	RXRX-RDF02D			
	DDC MicroMetl Economizer, Honeywell DDC Controller	RXRD-01MDHBM3	Roofcurb Adapter	RXRX-DDCAE			
			Roofcurb, 14"	RXKG-DDD14			
Economizer, No Controls			Roofcurb, 14" Welded	RXKG-SD14			
(Downflow/Vertical) MicroMetl Economizer, No Controls, Belimo Actuator		RXRD-31MDDAM3	Roofcurb, 24"	RXKG-DDD24			
Freeze Stat Kit		RXRX-AM01	Roofcurb, 24" Welded	RXKG-SD24			
LonWorks® Communication Card		RXRX-AY02	Room Humidity Sensor	RHC-ZNS4			
Low-Ambient Control Kit		RXRZ-A04	Room Temperature and Relative Humidity Sensor	RHC-ZNS5			
Manual Fresh Air Damper		RXRF-ADA1	Smoke Detector Kit, Return	RXRX-BS03			
			Smoke Detector Kit, Return/Supply	RXRX-BS04			
			UV-C Light Kit for 208/230V	RXRX-UVC22C			
			UV-C Transformer Kit for 460V or 575V	RXRX-UVCTC			

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