

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

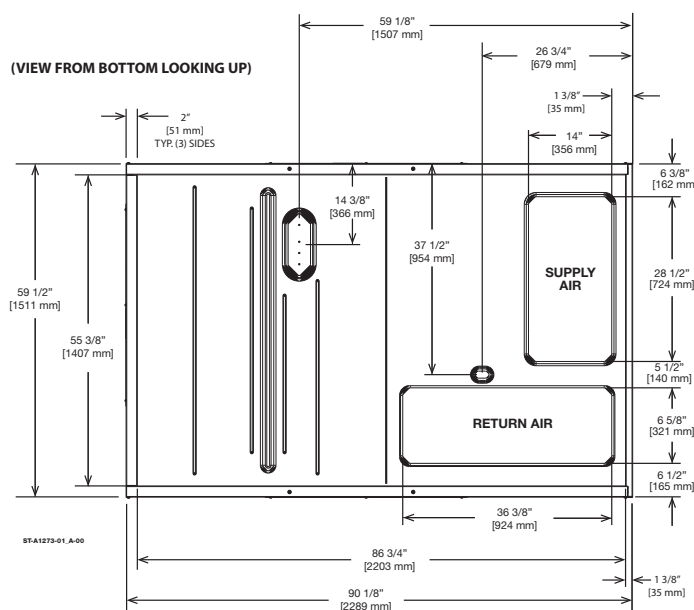
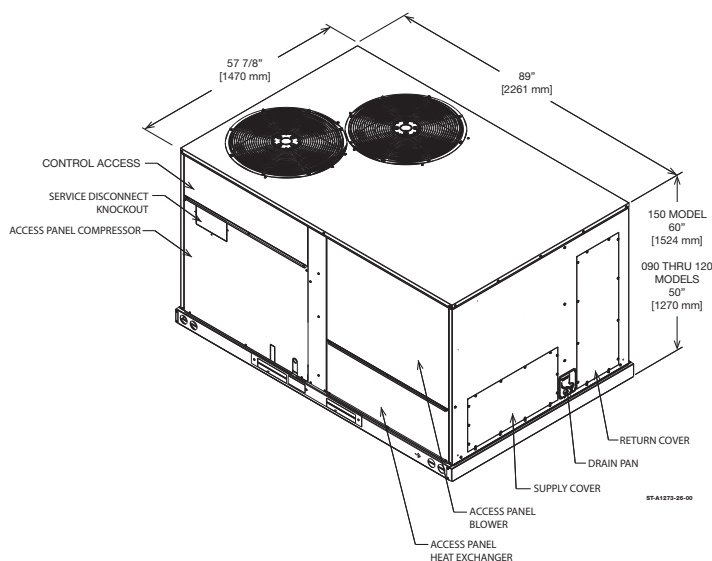


FRIEDRICH
Commercial Air

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

1 - Brand

R = Friedrich

2, 3 - Unit Type

AC = Packaged AC

4 - Cabinet Type

D = Medium Commercial

5 - Refrigerant

Y = R-454B

6 - Efficiency Level

B = Standard Efficiency

7, 8, 9 - Capacity

090 = 7.5 Ton

102 = 8.5 Ton

120 = 10 Ton

150 = 12.5 Ton

10-Major Series

A = 1st Design

11 - Voltage

C = 208/230 V, 3 PH, 60Hz

D = 460 V, 3 PH, 60Hz

Y = 575 V, 3 PH, 60 Hz

12 - Drive

F = Belt Drive - VFD Low

G = Belt Drive - VFD Medium

H = Belt Drive - VFD High

13, 14 - Heat Capacity

00 = No Heat

10 = 10 kW

15 = 15 kW

20 = 20 kW

30 = 30 kW

40 = 40 kW

15 - Number of Stages

0 = No Stages

1 = 1 Stage

2 = 2 Stage

16 - Control

A = CoreCommand™

B = CoreCommand & Comfort Alert®

C = ClearControl™

D = ClearControl & Comfort Alert

17 - Minor Series

A = 1st Design

18, 19, 20 - Option Code

AA0

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	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		RXXR-AY01	Manual Fresh Air Damper		RXRF-ADA1	Electric Heater Kits	RXJJ-DD10CP RXJJ-DD15CP RXJJ-DD20CP RXJJ-DD30CP RXJJ-DD40CP RXJJ-DD10DNV RXJJ-DD15DNV RXJJ-DD20DNV RXJJ-DD30DNV RXJJ-DD40DNV
Carbon Dioxide Sensor (Wall Mount)		RXXR-AR02	MERV 8 Filter 7.5 & 8.5 Ton		RXMF-M08A22020		
Comfort Alert (1 Per Compressor)		RXRZ-AZ02	MERV 8 Filter 10 & 12.5 Ton		RXMF-M08A22520		
Comfort Alert DDC (1 Per Compressor)		RXXR-AZ01	MERV 13 Filter 7.5 & 8.5 Ton		RXMF-M13A22020		
Dual Enthalpy Kit (for Honeywell® JADE™)		RXXR-BV01	MERV 13 Filter 10 & 12.5 Ton		RXMF-M13A22520		
Dual Enthalpy Kit DDC (for Honeywell DDC)		RXXR-BV02	Motorized Fresh Air Damper		RXRF-ADB1		
Dual Enthalpy, Temperature and Humidity Sensor (for Siemens®)		PD555460	Motorized Fresh Air Damper DDC		RXRF-ADC1		
Economizer Universal DDC Interface Kit		RXXR-DDC01	Outdoor Coil Louver Kit - 7.5 & 8.5 Ton		RXXR-ADD04A		
			Outdoor Coil Louver Kit - 10 & 12.5 Ton		RXXR-ADD04B		
Economizers, Single Enthalpy			Power Exhaust				
Downflow	MicroMetl Economizer, Siemens Controls	RXRD-11MDDAM3	(230V) Convertible MicroMetl		RXXR-CDF01C		
			(460V) Convertible MicroMetl		RXXR-CDF01D		
	RRS Rooftop Systems® Economizer	RXRD-41MDDAM3	(230V) Horizontal RRS		RXXR-RDF03C		
	DDC MicroMetl Economizer, Honeywell DDC Controller	RXRD-01MDDBM3	(230V) Vertical RRS		RXXR-RDF01C		
Horizontal	MicroMetl Economizer, No Controls, Belimo® Actuator	RXRD-31MDDAM3	(460V) Horizontal RRS		RXXR-RDF03D		
			(460V) Vertical RRS		RXXR-RDF02D		
	MicroMetl Economizer, Siemens Controls	RXRD-11MDHAM3	Roofcurb Adapter		RXXR-DDCAE		
	RRS Rooftop Systems Economizer	RXRD-41MDHAM3	Roofcurb, 14"		RXXR-DGC14		
	DDC MicroMetl Economizer, Honeywell DDC Controller	RXRD-01MDHBM3	Roofcurb, 14" Welded		RXKG-SD14		
			Room Humidity Sensor		RHC-ZNS4		
			Room Temperature and Relative Humidity Sensor		RHC-ZNS5		
Economizer, No Controls			Smoke Detector Kit, Return		RXXR-BS03	Information provided for pre-sale purposes only. Products will not be produced or shipped until ratings are certified with the Department of Energy.	
(Downflow/Vertical) MicroMetl Economizer, No Controls, Belimo Actuator		RXRD-31MDDAM3	Smoke Detector Kit, Return/Supply		RXXR-BS04		
Freeze Stat Kit		RXXR-AM01	UV-C Light Kit for 208/230V		RXXR-UVC22C		
LonWorks® Communication Card		RXXR-AY02	UV-C Transformer Kit for 460V or 575V		RXXR-UVCTC		
Low-Ambient Control Kit		RXRZ-A04					