

# Renaissance™ Commercial F-Series™ RHPDYB Packaged Heat Pumps | 7.5 to 10 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

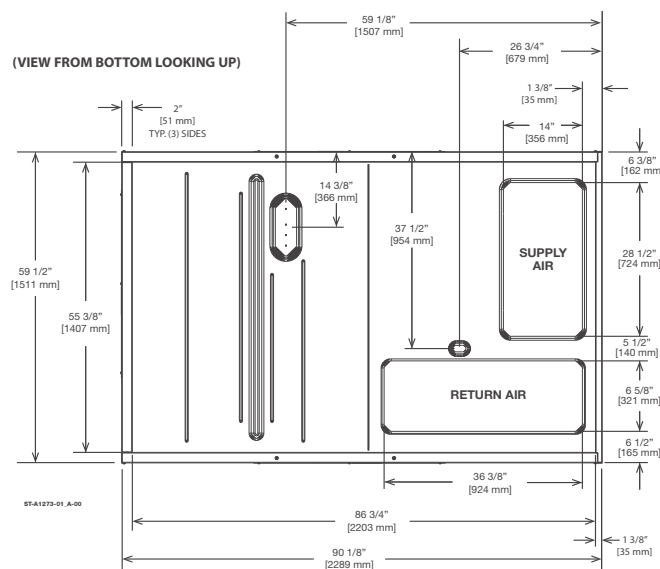
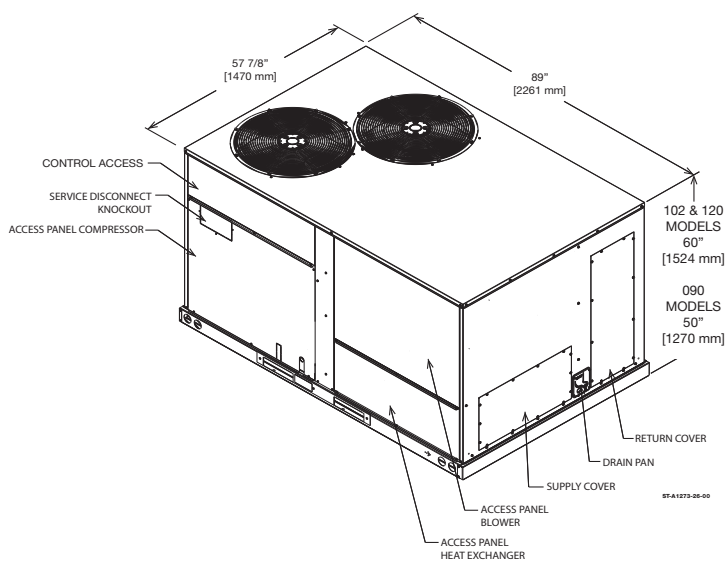


**FRIEDRICH**  
Commercial Air

<b>Capacities</b> Tons	7.5, 8.5, 10
<b>Power Options</b> V, PH	208/230 V, 3 PH 460 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	RHPDYB090	RHPDYB102	RHPDYB120
Nominal Cooling Capacity	Btu/h [kW]	90,000 [26.38]	102,000 [29.89]	120,000 [35.17]
Net Cooling Capacity	Btu/h [kW]	86,000 [25.2]	97,000 [28.43]	114,000 [33.4]
Net Sensible Capacity	Btu/h [kW]	64,500 [18.9]	72,750 [21.32]	85,500 [25.06]
Net Latent Capacity	Btu/h [kW]	21,500 [6.3]	24,250 [7.11]	28,500 [8.35]
Stages of Heating / Cooling		2 / 2	2 / 2	2 / 2
EER/IEER up to		11.0 / 14.1	11.0 / 14.1	11.0 / 14.1
COP @ 47°F / 17°F		3.4 / 2.25	3.4 / 2.25	3.4 / 2.25
Nominal Airflow	CFM [L/s]	3,000 [1,416]	3,400 [1,604]	4,000 [1,888]
Estimated Net Weight	lbs. [kg]	775 [352]	843 [382]	863 [391]
Estimated Shipping Weight	lbs. [kg]	814 [369]	882 [400]	902 [409]

Renaissance™ Commercial F-Series™ | Packaged Heat Pumps

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

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

18				19				20			
LV = Louver Protection HA = Hinged Access CC = Coil cooling				NP = Non-Powered Convenience Outlet LF = Low Ambient & Freeze Stat				EC = Economizer SS = Supply & Return Smoke Detector 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

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 Ton		RXMF-M08A22020	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)		RXRX-AR02	MERV 8 Filter 8.5 & 10 Ton		RXMF-M08A22520		
Comfort Alert (1 Per Compressor)		RXRZ-AZ02	MERV 13 Filter 7.5 Ton		RXMF-M13A22020		
Comfort Alert DDC (1 Per Compressor)		RXRX-AZ01	MERV 13 Filter 8.5 & 10 Ton		RXMF-M13A22520		
Dual Enthalpy Kit (for Honeywell® JADE™)		RXRX-BV01	Motorized Fresh Air Damper		RXRF-ADB1		
Dual Enthalpy Kit DDC (for Honeywell DDC)		RXRX-BV02	Motorized Fresh Air Damper DDC		RXRF-ADC1		
Dual Enthalpy, Temperature and Humidity Sensor (for Siemens®)		PD555460	Outdoor Coil Louver Kit - 7.5 Ton		RXRX-ADD04A		
Economizer Universal DDC Interface Kit		RXRX-DDC01	Outdoor Coil Louver Kit - 8.5 & 10 Ton		RXRX-ADD04B		
Economizer, 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-RDF01D		
			(230V) Vertical RRS		RXRX-MDF01D		
Horizontal	RRS Rooftop Systems Economizer	RXRD-41MDHAM	(460V) Horizontal RRS		RXRX-RDF03D		
	MicroMetl Economizer, Siemens Controls	RXRD-11MDHAM3	(460V) Vertical RRS		RXRX-MDF03D		
	DDC MicroMetl Economizer, Honeywell DDC Controller	RXRD-01MDHBM3	Roofcurb Adapter		RXRX-DDCAE		
			Roofcurb, 14"		RXRX-DGC14		
			Roofcurb, 14" Welded		RXKG-SD14		
			Roofcurb, 24"		RXRX-DGC24		
			Roofcurb, 24" Welded		RXKG-SD24		
			Room Humidity Sensor		RHC-ZNS4		
			Room Temperature and Relative Humidity Sensor		RHC-ZNS5		
Economizer, No Controls			Single Point Wiring Kit		RXJX-AC0605 RXJX-AC0805 RXJX-AD0605 RXJX-AC0909 RXJX-AD0609		
(Downflow/Vertical) MicroMetl Economizer, No Controls, Belimo® Actuator		RXRD-31MDDAM3	Smoke Detector Kit, Return		RXRX-BS03		
Freeze Stat Kit		RXRX-AM01	Smoke Detector Kit, Return/Supply		RXRX-BS04		
LonWorks® Communication Card		RXRX-AY02	Unfused Service Disconnect		RXRX-BP01		
Low-Ambient Control Kit		RXRZ-A04	Unwired Convenience Outlet		RXRX-BN01		
Manual Fresh Air Damper		RXRF-ADA1	UV-C Light Kit for 208/230V		RXRX-UVC22C		
			UV-C Transformer Kit for 460V or 575V		RXRX-UVCTC	Information provided for pre-sale purposes only. Products will not be produced or shipped until ratings are certified with the Department of Energy.	

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