Renaissance™ *Commercial F-Series*™

RACGYB Packaged Air Conditioners | 15 to 25 Tons

FRIEDRICH
Commercial Air

Standard Features

- Flexible footprint for easier direct replacement of most other industry products, in this category
- Convertible Airflow
- Patented PlusOne® SmartShield™ Coil System Design
- Patented PlusOne Velocifin® Heat Exchanger Design with larger tubes
- Outdoor Fan Design for enhanced airflow*
- Patented PlusOne ServiceSmart features
  - Qwik-Slide Velocifin Heat Exchanger Design
  - Qwik-Slide Indoor Blower Design
  - Qwik-Clean Drain Pan
- Designed for A2L refrigerant R-454B
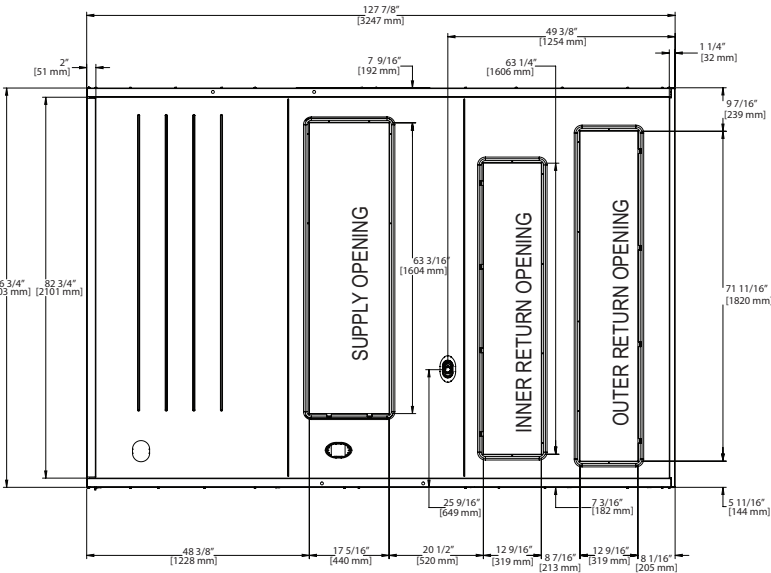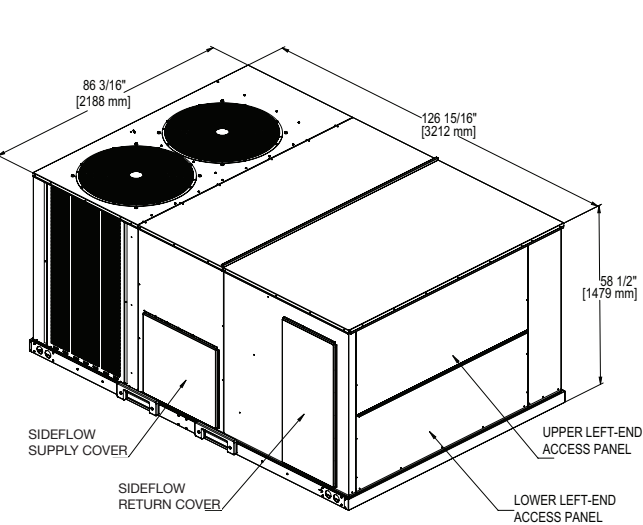
*Patent Pending

Capacities *Tons*	15, 17.5, 20, 25
Power Options *V/ø*	208/230 V, 3 PH 460 V, 3 PH 575 V, 3 PH

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Specifications and Diagrams

SIDEFLOW SUPPLY COVER
SIDEFLOW RETURN COVER
UPPER LEFT-END ACCESS PANEL
LOWER LEFT-END ACCESS PANEL
SUPPLY OPENING
INNER RETURN OPENING
OUTER RETURN OPENING

*View from bottom-up. Only one return opening should be used.

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

Specification	Unit	RACGYB180	RACGYB210	RACGYB240	RACGYB300
Nominal Cooling Capacity	Btu/h [kW]	180,000 [52.75]	210,000 [61.55]	240,000 [70.34]	300,000 [87.92]
Net Cooling Capacity	Btu/h [kW]	172,000 [50.41]	200,000 [58.61]	228,000 [66.82]	284,000 [83.23]
Net Sensible Capacity	Btu/h [kW]	129,000 [37.81]	150,000 [43.96]	171,000 [50.12]	213,000 [62.42]
Net Latent Capacity	Btu/h [kW]	43,000 [12.60]	50,000 [14.65]	57,000 [16.71]	71,000 [20.81]
Stages of Heating / Cooling		2 / 2	2 / 2	2 / 2	2 / 2
EER / IEER up to		11.0 / 14.2	11.0 / 14.2	11.0 / 14.2	10.0 / 13.2
Nominal Airflow	CFM [L/s]	6,000 [2,832]	7,000 [3,304]	8,000 [3,776]	10,000 [4,719]
Estimated Net Weight	lbs. [kg]	1,940 [879]	2,010 [911]	2,030 [920]	2,100 [952]
Estimated Shipping Weight	lbs. [kg]	2,040 [925]	2,110 [957]	2,130 [970]	2,200 [997]

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

Model Number Nomenclature

R	AC	G	Y	B	180	A	C	F	00	0	B	A	****
1	23	4	5	6	789	10	11	12	13 14	15	16	17	18 19 20 21

1 - Brand
R = Friedrich

2, 3 - Unit Type
AC = Packaged AC

4 - Cabinet Type
G = Large Commercial

5 - Refrigerant
Y = R-454B

6 - Efficiency Tier
B = Standard Efficiency

7, 8, 9 - Capacity
180 = 15 Ton
210 = 17.5 Ton
240 = 20 Ton
300 = 25 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, 60Hz

12 - Drive
F = Belt Drive - VFD Low
G = Belt Drive - VFD Medium
H = Belt Drive - VFD High

13, 14 - Heat Capacity
00 = No Heat
18 = 18 kW
36 = 36 kW
54 = 54 kW
72 = 72 kW

15 - Heat Configuration
0 = No Heat
1 = Single-Stage
2 = 2-Stage

16 - Control
B = CoreCommand™ & Phase Monitor
C = ClearControl™ & Phase Monitor
D = ClearControl & Comfort Alert®

17 - Minor Series
A = 1st Design

18, 19, 20, 21 - Option Code
AA0A

18	19	20	21
LV = Louver Protection HA = Hinged Access CC = Condenser Coil Coating	NP = Non-Powered Convenience Outlet LF = Low Ambient & Freeze Stat	EC = Economizer SS = Supply & Return Smoke RS = Return Smoke	M8 = MERV 8 Filter M13 = MERV 13 Filter

Option Code Character Highlighted

	18				19			20			21	
A	None			A	None		0	None		A	Standard	
B	LV			B	LF		1	EC		D	M8	
C	HA			C	NP		2	RS		G	M13	
D	LV	HA		D	LF	NP	3	EC	RS			
E	LV	CC					4	SS				
F	LV	HA	CC				5	EC	SS			

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
BACnet® Communication Card	RXRX-AY01
Carbon Dioxide Sensor (Wall Mount)	RXRX-AR02
Comfort Alert (3 Phase) DDC	RXRX-AZG2
Comfort Alert (3 Phase) Non-DDC	RXRX-AZG1
Dual Enthalpy Kit (for Honeywell® JADE™)	RXRX-BV01
Dual Enthalpy Kit DDC (for Honeywell DDC)	RXRX-BV02
Economizer Universal DDC Interface Kit	RXRX-DDC01

Economizers, Single Enthalpy

		Model Number
Downflow	MicroMetl Economizer, Siemens® Controls	RXRD-11MGDAM3
Downflow	RRS Rooftop Systems® Economizer	RXRD-41MGDAM3
Horizontal	MicroMetl Economizer, Siemens Controls	RXRD-11MGHAM3
Horizontal	RRS Rooftop Systems Economizer	RXRD-41MGHAM3

Economizer, No Control

			Model Number
(Downflow/Vertical) Economizer, No Controls, MicroMetl Economizer, Belimo® Actuator			RXRD-31MDDAM3
Electric Heater Kits (with Single Point Wiring)	208 - 230 V	18kW	RXJJ-G18KWC
		36 kW	RXJJ-G36KWC
		54 kW	RXJJ-G54KWC
		72 kW	RXJJ-G72KWC
	460 V	18kW	RXJJ-G18KWD
		36 kW	RXJJ-G36KWD
		54 kW	RXJJ-G54KWD
		72 kW	RXJJ-G72KWD
	575 V	18 kW	RXJJ-G18KWY
		36 kW	RXJJ-G36KWY
		54 kW	RXJJ-G54KWY
		72 kW	RXJJ-G72KWY

Accessory	Model Number
Freeze Stat Kit (DDC)	RXRX-AM05
Freeze Stat Kit (Non-DDC)	RXRX-AM06
LonWorks® Communication Card	RXRX-AY02
Low-Ambient Control Kit	RXRZ-G01
Manual Fresh Air Damper	RXRF-AGA1
MERV 8 Filter	RXMF-M08A22420
MERV 13 Filter	RXMF-M13A22420
Motorized Fresh Air Damper	RXRF-AGB1
Motorized Fresh Air Damper DDC	RXRF-AGC1
Non-Powered Convenience Outlet	RXRX-BN01
Outdoor Coil Louver Kit	RXRX-LKG01
Power Exhaust (230V)	RXRX-CGF01C
Power Exhaust (460V)	RXRX-CGF01D
Power Exhaust (575V)	RXRX-CGF01Y
Room Temperature and Humidity Sensor	RHC-ZNS5
Return Smoke Detector (Downflow/Vertical)	RXRX-BSG1
Return Smoke Detector (Horizontal)	RXRX-BSG2
Return/Supply Smoke Detector (Downflow/Vertical)	RXRX-BSG3
Return/Supply Smoke Detector (Horizontal)	RXRX-BSG4
Roofcurb, 14"	RXRX-DGC14
Roofcurb, 18"	RXRX-DGC18
Roofcurb, 24"	RXRX-DGC24
Roofcurb - Restraint Clips	RXRX-DGCRC
Roofcurb Adapter (Previous Generation)	RXRX-DCGCAE
Roofcurb Adapter Z-Bracket	RXRX-DGCAZ
Unfused Service Disconnect	RXRX-BPG1

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