Resolute™ *Commercial F-Series™*
RHPHYB Packaged Heat Pump | 15 & 20 Tons

FRIEDRICH
Commercial Air

Standard Features

- Convertible Airflow
- Factory Installed VFD
- Factory Installed ClearControl™ (DDC)
- Fin and Tube Indoor and Outdoor Coils
- Factory Standard Hinged Access Panels
- Qwik-Clean Drain Pan
- Removable Indoor Blower Assembly
- Factory Installed Refrigerant Leak Detection System
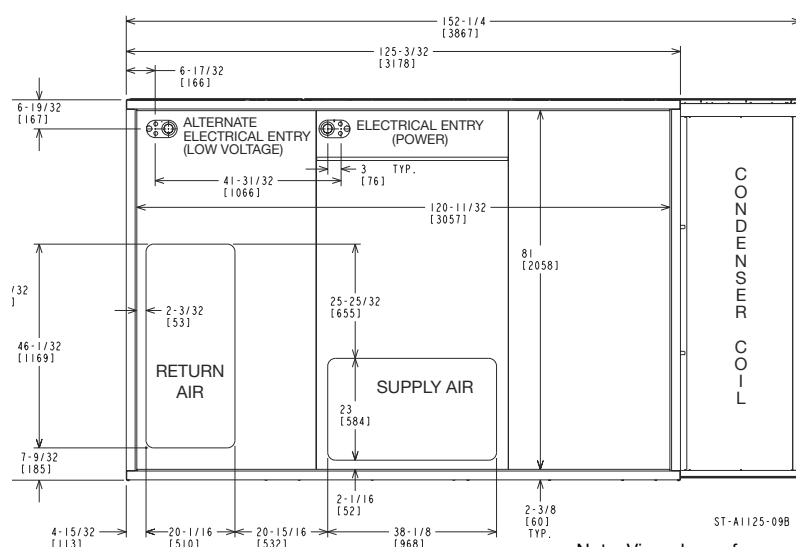- Designed for Low-GWP Refrigerant R-454B

Capacities *Tons*	15 & 20
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.
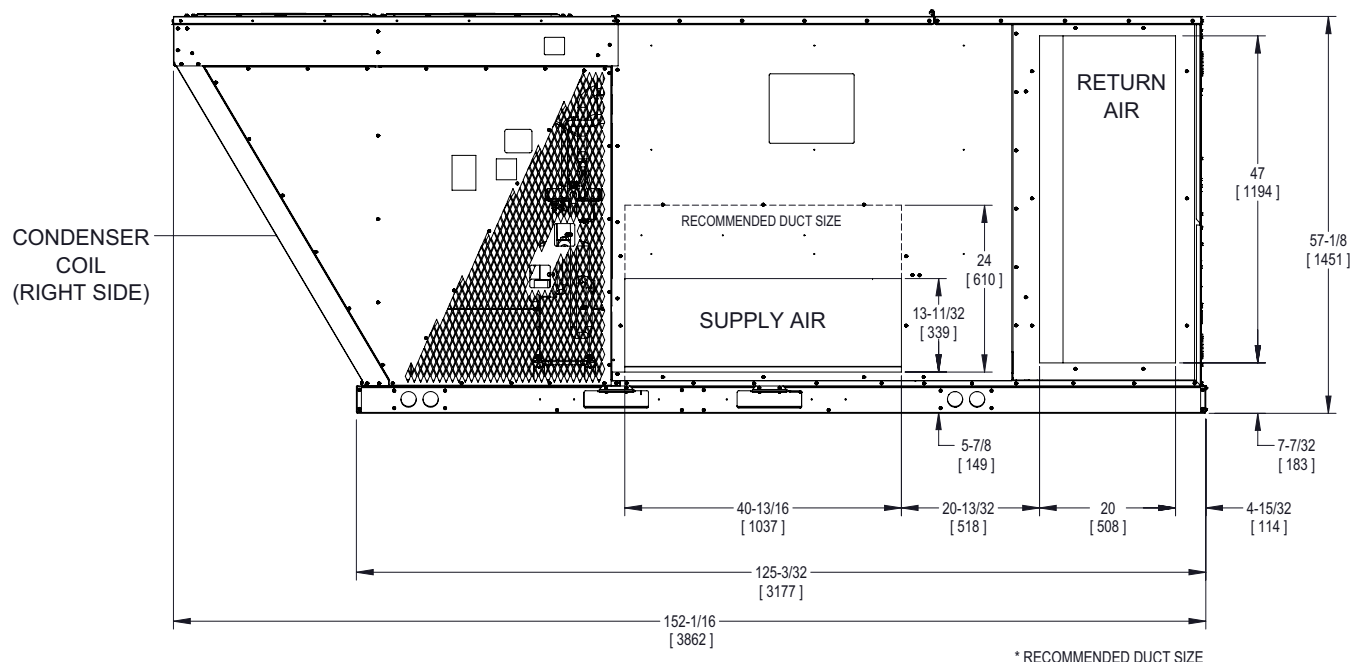
Specifications and Diagrams

LOW GWP Refrigerant

ALTERNATE ELECTRICAL ENTRY (LOW VOLTAGE)
ELECTRICAL ENTRY (POWER)

RETURN AIR

SUPPLY AIR

CONDENSER COIL

ST-A1125-09B

Note: View shown from bottom-up

Specification	Unit	RHPHYB180	RHPHYB240
Nominal Cooling Capacity	Btu/h [kW]	180,000 [52.4]	240,000 [70.34]
Net Cooling Capacity	Btu/h [kW]	172,000 [50.4]	240,000 [70.34]
Net Sensible Capacity	Btu/h [kW]	129,000 [37.81]	180,000 [52.75]
Net Latent Capacity	Btu/h [kW]	43,000 [12.6]	60,000 [17.58]
Stages of Heating / Cooling		2 / 2	2 / 2
EER / IEER		10.6 / 13.5	9.5 / 12.5
COP @ 47°F / 17°F		3.3 / 2.05	3.3 / 2.05
Nominal Airflow	CFM [L/s]	6,000 [2,832]	8,000 [3,776]
Estimated Net Weight	lbs. [kg]	1,881 [853.2]	1,894 [859]
Estimated Shipping Weight	lbs. [kg]	1,981 [898.6]	1,994 [904]

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

CONDENSER COIL (RIGHT SIDE)

RETURN AIR

RECOMMENDED DUCT SIZE

SUPPLY AIR

* RECOMMENDED DUCT SIZE

Resolute™ *Commercial F-Series™* | Packaged HP

Model Number Nomenclature

R	HP	H	Y	B	180	A	C	F	00	2	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
HP = Packaged Heat Pump

4 - Cabinet Type
H = Large Commercial

5 - Refrigerant
Y = R-454B

6 - Efficiency Tier
B = Standard Efficiency

7, 8, 9 - Capacity
180 = 15 Ton
240 = 20 Ton

10 - Major Series
A = 21st 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 Standard
G = Belt Drive - VFD Medium

13, 14 - Heat Capacity
00 = No Heat
20 = 20 kW
40 = 40 kW
60 = 60 kW
75 = 75 kW

15 - Number of Stages
0 = No Heat
1 = 1-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
See below

18	19	20	21
LV = Louver Protection HA = Hinged Access	NP = Non-Powered Convenience Outlet LF = Low Ambient & Freeze Stat	EC = Single Enthalpy Economizer with Barometric Relief (Downflow Only) SS = Supply & Return Smoke RS = Return Smoke	M8 = MERV 8 Filter M13 = MERV 13 Filter

Option Code Character Highlighted

	18			19			20			21	
C	HA		A	None		0	None		A	Standard	
D	LV	HA	B	LF		1	EC		D	M8	
			C	NP		2	RS		G	M13	
			D	LF	NP	3	EC	RS			
						4	SS				
						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
Comfort Alert (1 Per Compressor) (DDC)	RXRX-AZ01
Communication Card, BACnet	RXRX-AY01
Communication Card, LonWorks	RXRX-AY02
Concentric Diffuser (Flush, 18" x 36")	RXRN-AD80
Concentric Diffuser (Step-Down, 18" x 36")	RXRN-AD81
Concentric Diffuser (Step-Down, 24" x 48")	RXRN-AD86
Concentric Diffuser (Step-Down, 28" x 60")	RXRN-AD88
Concentric Diffuser Downflow Transition (Rect. to Rect., 18" x 36")	RXMC-CJ07
Concentric Diffuser Downflow Transition (Rect. to Rect., 24" x 48")	RXMC-CK08
Concentric Diffuser Downflow Transition (Rect. To Rect., 28" x 60")	RXMC-CL09
Convenience Outlet, Unwired	RXRX-AN01
Dual Enthalpy Kit	RXRX-AV02
DDC Economizer with Smoke Detector (Downflow) *Ruskin Rooftop Systems Economizer with Honeywell Controller*	AXRD-01RMDCM3
DDC Economizer with Smoke Detector (Horizontal) *Ruskin Rooftop Systems Economizer with Honeywell Controller*	AXRD-01RMHCM3
Non-DDC Economizer with Single Enthalpy (Downflow) *Ruskin Rooftop Systems Economizer with Honeywell Controller*	AXRD-01RGDAM3
Non-DDC Economizer with Single Enthalpy (Horizontal) *Ruskin Rooftop Systems Economizer with Honeywell Controller*	AXRD-01RGHAM3
Electric Heaters (*=C, D, or Y Voltage)	RXJJ-CE20* RXJJ-CE40* RXJJ-CE60* RXJJ-CE75*

Accessory	Model Number
Fresh Air Damper*, 2-Position Motorized Kit for	RXRX-AW03
Fresh Air Damper*, Manual	AXRF-KFA1
Freeze Stat Kit	RXRX-AM05
Hail Guard Louvers	AXRX-AAD01L
Low-Ambient Control Kit DDC (1 Per Compressor)	RXRZ-C02
Low-Ambient Control Kit Non-DDC (1 Per Compressor)	RXRZ-A05
MERV 8 Filter	RXMF-M08A22520
MERV 13 Filter	RXMF-M13A22520
Modulating Motor Kit for AXRF-KFA1	RXRF-AW05
Power Exhaust (208/230V)	RXRX-BGF05C
Power Exhaust (460V)	RXRX-BGF05D
Power Exhaust (575V)	RXRX-BGF05Y
Roofcurb, 14"	RXKG-CBH14
Sensor, Carbon Dioxide (Wall Mount)	RXRX-AR02
Smoke Detector, Return (Downflow/Vertical)	RXRX-BSH1
Smoke Detector, Return (Horizontal)	RXRX-BSH2
Smoke Detector, Return/Supply (Downflow/Vertical)	RXRX-BSH3
Smoke Detector, Return/Supply (Horizontal)	RXRX-BSH4

*Motorized Kit and Manual Fresh Air Damper must be combined for a complete Motorized Outside Air Damper Selection.

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