F-Series™ Commercial Split

RACY Air Conditioners
RHCYA Air Handlers

FRIEDRICH
Commercial Air

Capacities *Tons*	6.5, 7.5, 10, 12.5, 15, 20
Power Options *V, ø*	208/230 V, 3 ø 460 V, 3 ø 575 V, 3 ø

Base Models

RACY2***CAZ	RHCYA2***CAR RHCYA2***CAS RHCYA2***CAT
RACY2***DAZ	RHCYA2***DAR RHCYA2***DAS RHCYA2***DAT

*** Tonages matching between Outdoor and Air Handler. 078 Outdoor goes with 090 Air Handler

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

Standard Features

- Scroll compressors
- Indoor and outdoor copper tube / aluminum fin coil
- Standard indoor blower VFD
- Seperable air handler for easier installation
- Air Handlers with convertible airflow
- Shipped with a nitrogen holding charge
- RACY models for use with matching RHCYA models
- Designed for A2L refrigerant R-454B

Preliminary Information and Accessories

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

Specification	Unit	RACY2078	RACY2090	RACY2120	RACY2150	RACY2180	RACY2240
Matching Air Handler	Model	RHCYA2090	RHCYA2090	RHCYA2120	RHCYA2150	RHCYA2180	RHCYA2240
Gross Cooling Capacity	Btu/h [kW]	78,000 [22.8]	85,500 [25.1]	114,000 [33.4]	142,500 [41.8]	171,000 [50.1]	240,000 [70.6]
Net Sensible Capacity	Btu/h [kW]	54,400 [15.9]	59,850 [17.5]	79,800 [23.4]	99,750 [29.2]	119,700 [35.1]	168,000 [49.2]
Net Latent Capacity	Btu/h [kW]	23,600 [6.1]	25,650 [7.5]	34,200 [10.0]	42,750 [12.5]	51,300 [15.0]	72,000 [21.1]
EER		11.2	11.2	11.2	11.0	11.0	10.0
IEER		14.8	14.8	14.8	14.2	14.2	13.2
Rated Indoor Airflow	CFM	2,600	2,600	3,800	4,350	5,200	6,650
Estimated Weight — RACY	lbs. [kg]	383 [174]	383 [174]	395 [179]	647 [293]	832 [377]	926 [420]
Estimated Weight — RHCYA	lbs. [kg]	330 [150]	330 [150]	446 [202]	446 [202]	486 [220]	545 [247]

Accessories		
MERV 13 Filter (For Air Handlers)	RXMF-M13A11625 (1x16x25)	RXMF-M13A12025 (1x20x25)
	RXMF-M13A21625 (2x16x25)	RXMF-M13A22520 (2x20x25)
MERV 8 Filter (For Air Handlers)	RXMF-M08A11625 (1x16x25)	RXMF-M08A12025 (1x20x25)
	RXMF-M08A21625 (2x16x25)	RXMF-M08A22520 (1x20x25)
Low Ambient Control	RXAD-A08	

F-Series™ Commercial Split | Air Conditioner

Model Number Nomenclature
Air Conditioners

R	A	C	Y	2	078	C	A	Z
1	2	3	4	5	678	9	10	11

1 - Brand
R = Friedrich

2 - Unit Type
A = Remote Condensing Unit

3 - Cabinet Type
C = Commercial

4 - Refrigerant
Y = R-454B

5 - Cooling Configuration
2 = 2-stage compressor

6,7,8 - Capacity
078 = 6.5 Ton
090 = 7.5 Ton
120 = 10 Ton
150 = 12.5 Ton
180 = 15 Ton
240 = 20 Ton

9 - Voltage
C = 208/230 V, 3PH, 60Hz
D = 460 V, 3PH, 60Hz
Y = 575 V, 3 PH, 60 Hz

10 - Minor Series
A = 1st Design

11 - Compressor
Z = Scroll compressor

Model Number Nomenclature
Air Handlers

R	H	C	Y	A	2	090	C	A	R
1	2	3	4	5	6	789	10	11	12

1 - Brand
R = Friedrich

2 - Unit Type
H = Air Handler

3 - Cabinet Type
C = Commercial

4 - Refrigerant
Y = R-454B

5 - Heat Type
A = Air Conditioner

6- Airflow Configuration
2 = 2-Stage

7,8,9 - Capacity
090 = 7.5 Ton
120 = 10 Ton
150 = 12.5 Ton
180 = 15 Ton
240 = 20 Ton

10 - Voltage
C = 208/230 V, 3 PH, 60 Hz
D = 460 V, 3 PH, 60 Hz
Y = 575 V, 3 PH, 60 Hz

11 - Minor Series
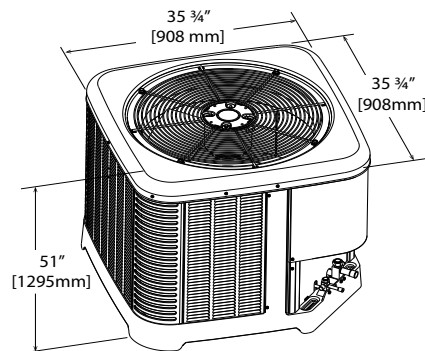A = 1st Design

12 - Drive
R = Belt Drive - VFD low static
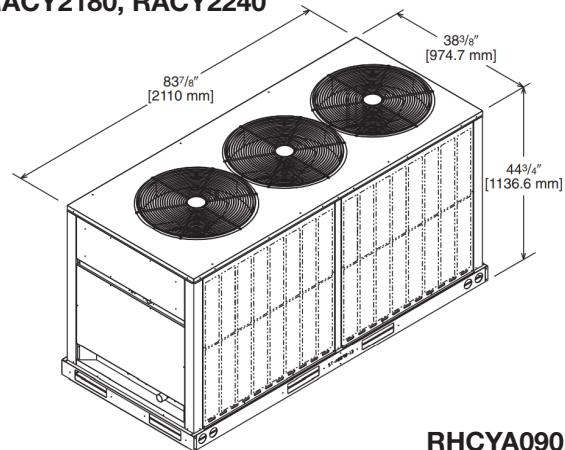S = Belt Drive - VFD medium static
T = Belt Drive - VFD high static

Diagrams

RACY2078, RACY2090

RACY2180, RACY2240

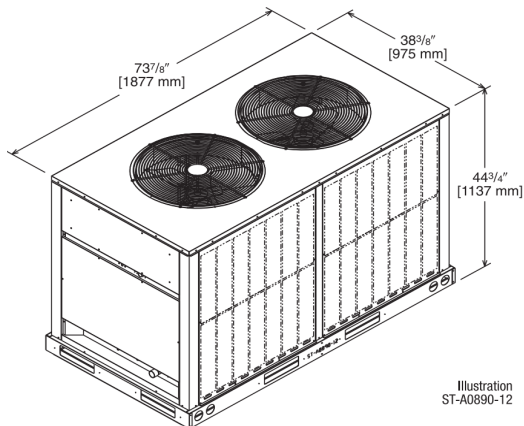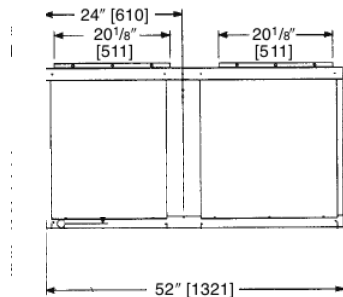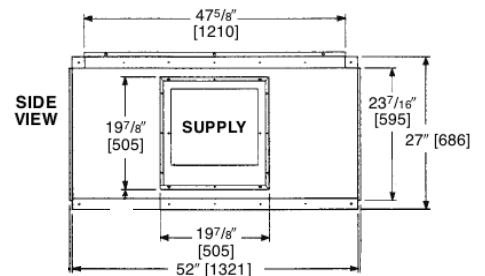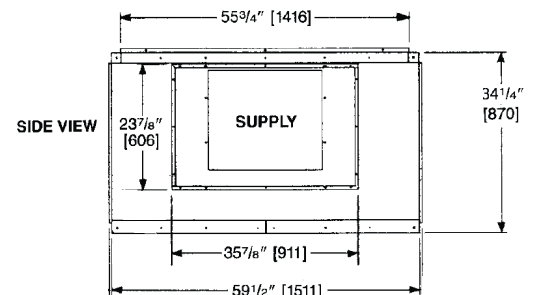### RACY2120, RACY2150

Illustration ST-A0890-12

RHCYA090, RHCYA120

RHCYA150, RHCYA180, RHCYA240

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