



Commercial Split *Classic*® Series A/C Air Handler



RHCYA Series

Nominal Sizes: 7.5, 10 Small, 10 Large, 12.5, 15 & 20 Tons

[26.4, 35.2, 35.2, 44.0, 52.8 & 70.3 kW]

Cooling Capacities: 72.2k Btu/h to 240.0k Btu/h [21.2 kW to 70.3 kW]

Refrigerant Type: R-454B

Designed for use with matching RACY models



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RHCYA STANDARD FEATURES INCLUDE:

- Designed for R-454B refrigerant
- Wired and run tested
- Convertible airflow – vertical up flow or horizontal sideflow
- Cooling operation up to 125°F ambient
- TXV refrigerant metering system
- Field-adjustable TXVs
- Solid-core liquid line filter drier
- Insulation encapsulated throughout entire unit
- Galvanized steel drain pan
- Standard Variable Frequency Drives (VFDs)
- Unit cabinet design shall be separable to facilitate mobilization during installation
- MERV 8 & MERV 13 filters are available as an accessory



Designing for Sustainability with Low GWP: For 2025, the Environmental Protection Agency (EPA) has set a global warming potential (GWP) limit of 700 for refrigerant used in heating and cooling systems. This new requirement will result in a 78%¹ lower GWP than previous-generation refrigerants - with only minimal changes to system installation. For us, this is another step toward our continued sustainability goal of reducing greenhouse gas emissions, while still delivering an exceptional level of energy efficient, dependable comfort.

¹When comparing the GWP of R-454B to R-410A refrigerant.

ACCESSORIES

ACCESSORY DESCRIPTION	MODEL NUMBER	SIZE USED ON	DIMENSIONS D x L x W (INCHES)
MERV 13 Filter	RXMF-M13A11625	090, 120	1X16X25
	RXMF-M13A12025	121, 150, 180, 240	1X20X25
	RXMF-M13A21625	090, 120	2X16X25
	RXMF-M13A22520	121, 150, 180, 240	2X20X25
MERV 8 Filter	RXMF-M08A11625	090, 120	1X16X25
	RXMF-M08A12025	121, 150, 180, 240	1X20X25
	RXMF-M08A21625	090, 120	2X16X25
	RXMF-M08A22520	121, 150, 180, 240	2X20X25
Electric Heat (* = C, D, or Y Voltage)	RXHE-AG005CA	090, 120	N/A
	RXHE-AG005DA	090, 120	N/A
	RXHE-AG010*A	090, 120	N/A
	RXHE-AG015*A	090, 120	N/A
	RXHE-AG020*A	090, 120	N/A
	RXHE-AG025*A	090, 120	N/A
	RXHE-AG030*A	090, 120	N/A
	RXHE-AG035*A	090, 120	N/A
	RXHE-AG010*C	121, 150, 180, 240	N/A
	RXHE-AG020*C	121, 150, 180, 240	N/A
	RXHE-AG030*C	121, 150, 180, 240	N/A
	RXHE-AG040*C	121, 150, 180, 240	N/A
	RXHE-AG050DC	121, 150, 180, 240	N/A
	RXHE-AG050YC	121, 150, 180, 240	N/A
Economizers for Commercial Air Handler	RXHM-71SA	090, 120	N/A
	RXHM-71LA	121, 150, 180, 240	N/A

R
1

H
2

C
3

Y
4

A
5

2
6

090
789

C
10

A
11

R
12

1—Brand

R = Rheem

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 (Small)

121 = 10 Ton (Large)

150 = 12.5 Ton

180 = 15 Ton

240 = 20 Ton

10—Electrical Designation

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

COMMERCIAL SPLIT AIR CONDITIONER MODEL MATCH-UPS

OUTDOOR UNIT MODEL NUMBER	INDOOR AIR HANDLER MODEL NUMBER
RACY2078	RHCYA2090
RACY2090	RHCYA2090
RACY2119	RHCYA2121
RACY2120	RHCYA2120
RACY2150	RHCYA2150
RACY2180	RHCYA2180
RACY2240	RHCYA2240

GENERAL DATA

Model RHCYA2 Series	090C	090D	090Y
			CONTINUED ➡
Indoor Coil—Fin Type	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	10.2 [0.9]	10.2 [0.9]	10.2 [0.9]
Rows / FPI [FPcm]	4 / 15 [10 / 38]	4 / 15 [10 / 38]	4 / 15 [10 / 38]
Refrigerant Control	TX Valves	TX Valves	TX Valves
Indoor Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal
Diameter in. [mm]	12x12 [305 x 305]	12x12 [305 x 305]	12x12 [305 x 305]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds (Standard / VFD)	Single / Multiple	Single / Multiple	Single / Multiple
No. Motors	1	1	1
Motor HP			
R - Low Static Drive	2	2	2
S - Medium Static Drive	2	2	2
T - High Static Drive	3	3	3
Motor RPM	1725	1725	1725
Weights			
Net Weight lbs. [kg]			
R - Low Static Drive	409 [186]	409 [186]	409 [186]
S - Medium Static Drive	409 [186]	409 [186]	409 [186]
T - High Static Drive	419 [190]	419 [190]	419 [190]
Shipping Weight lbs. [kg]			
R - Low Static Drive	429 [195]	429 [195]	429 [195]
S - Medium Static Drive	429 [195]	429 [195]	429 [195]
T - High Static Drive	439 [199]	439 [199]	439 [199]

[] Designates Metric Conversions

GENERAL DATA (CONTINUED)

Model RHCYA2 Series	120C	120D	120Y
			CONTINUED →
Indoor Coil—Fin Type	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	10.2 [0.9]	10.2 [0.9]	10.2 [0.9]
Rows / FPI [FPcm]	4 / 15 [10 / 38]	4 / 15 [10 / 38]	4 / 15 [10 / 38]
Refrigerant Control	TX Valves	TX Valves	TX Valves
Indoor Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal
Diameter in. [mm]	12x12 [305 x 305]	12x12 [305 x 305]	12x12 [305 x 305]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds (Standard / VFD)	Single / Multiple	Single / Multiple	Single / Multiple
No. Motors	1	1	1
Motor HP			
R - Low Static Drive	2	2	2
S - Medium Static Drive	2	2	2
T - High Static Drive	3	3	3
Motor RPM	1725	1725	1725
Weights			
Net Weight lbs. [kg]			
R - Low Static Drive	409 [186]	409 [186]	409 [186]
S - Medium Static Drive	409 [186]	409 [186]	409 [186]
T - High Static Drive	419 [190]	419 [190]	419 [190]
Shipping Weight lbs. [kg]			
R - Low Static Drive	429 [195]	429 [195]	429 [195]
S - Medium Static Drive	429 [195]	429 [195]	429 [195]
T - High Static Drive	439 [199]	439 [199]	439 [199]

[] Designates Metric Conversions

GENERAL DATA (CONTINUED)

Model RHCYA2 Series	121C	121D
CONTINUED →		
Indoor Coil—Fin Type	Louvered	Louvered
Tube Type	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	16.5 [1.5]	16.5 [1.5]
Rows / FPI [FPcm]	3 / 15 [8 / 46]	3 / 15 [8 / 46]
Refrigerant Control	TX Valves	TX Valves
Indoor Fan—Type	FC Centrifugal	FC Centrifugal
Diameter in. [mm]	18x15 [457x381]	18x15 [457x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)
No. Speeds (Standard / VFD)	Single / Multiple	Single / Multiple
No. Motors	1	1
Motor HP		
R - Low Static Drive	2	2
S - Medium Static Drive	2	2
T - High Static Drive	3	3
Motor RPM	1725	1725
Weights		
Net Weight lbs. [kg]		
R - Low Static Drive	575 [261]	575 [261]
S - Medium Static Drive	585 [265]	585 [265]
T - High Static Drive	595 [270]	595 [270]
Shipping Weight lbs. [kg]		
R - Low Static Drive	595 [270]	595 [270]
S - Medium Static Drive	605 [274]	605 [274]
T - High Static Drive	615 [279]	615 [279]

[] Designates Metric Conversions

GENERAL DATA (CONTINUED)

Model RHCYA2 Series	150C	150D	150Y
			CONTINUED →
Indoor Coil—Fin Type	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	16.5 [1.5]	16.5 [1.5]	16.5 [1.5]
Rows / FPI [FPcm]	3 / 15 [8 / 38]	3 / 15 [8 / 38]	3 / 15 [8 / 38]
Refrigerant Control	TX Valves	TX Valves	TX Valves
Indoor Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal
Diameter in. [mm]	18x15 [457x381]	18x15 [457x381]	18x15 [457x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds (Standard / VFD)	Single / Multiple	Single / Multiple	Single / Multiple
No. Motors	1	1	1
Motor HP			
R - Low Static Drive	2	2	2
S - Medium Static Drive	3	3	3
T - High Static Drive	5	5	5
Motor RPM	1725	1725	1725
Weights			
Net Weight lbs. [kg]			
R - Low Static Drive	575 [261]	575 [261]	575 [261]
S - Medium Static Drive	585 [265]	585 [265]	585 [265]
T - High Static Drive	595 [270]	595 [270]	595 [270]
Shipping Weight lbs. [kg]			
R - Low Static Drive	595 [270]	595 [270]	595 [270]
S - Medium Static Drive	605 [274]	605 [274]	605 [274]
T - High Static Drive	615 [279]	615 [279]	615 [279]

[] Designates Metric Conversions

GENERAL DATA (CONTINUED)

Model RHCYA2 Series	180C	180D	180Y
			CONTINUED ➔
Indoor Coil—Fin Type	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	16.5 [1.5]	16.5 [1.5]	16.5 [1.5]
Rows / FPI [FPcm]	4 / 15 [10 / 38]	4 / 15 [10 / 38]	4 / 15 [10 / 38]
Refrigerant Control	TX Valves	TX Valves	TX Valves
Indoor Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal
Diameter in. [mm]	18x15 [457x381]	18x15 [457x381]	18x15 [457x381]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds (Standard / VFD)	Single / Multiple	Single / Multiple	Single / Multiple
No. Motors	1	1	1
Motor HP			
R - Low Static Drive	2	2	2
S - Medium Static Drive	3	3	3
T - High Static Drive	5	5	5
Motor RPM	1725	1725	1725
Weights			
Net Weight lbs. [kg]			
R - Low Static Drive	690 [313]	690 [313]	690 [313]
S - Medium Static Drive	700 [318]	700 [318]	700 [318]
T - High Static Drive	710 [322]	710 [322]	710 [322]
Shipping Weight lbs. [kg]			
R - Low Static Drive	710 [322]	710 [322]	710 [322]
S - Medium Static Drive	720 [327]	720 [327]	720 [327]
T - High Static Drive	730 [331]	730 [331]	730 [331]

[] Designates Metric Conversions

GENERAL DATA (CONTINUED)

Model RHCYA2 Series	240C	240D	240Y
Indoor Coil—Fin Type	Louvered	Louvered	Louvered
Tube Type	Rifled	Rifled	Rifled
Tube Size in. [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face Area sq. ft. [sq. m]	16.5 [1.5]	16.5 [1.5]	16.5 [1.5]
Rows / FPI [FPcm]	4 / 15 [10 / 38]	4 / 15 [10 / 38]	4 / 15 [10 / 38]
Refrigerant Control	TX Valves	TX Valves	TX Valves
Indoor Fan—Type	FC Centrifugal	FC Centrifugal	FC Centrifugal
Diameter in. [mm]	18x18 [457x457]	18x18 [457x457]	18x18 [457x457]
Drive Type	Belt (Adjustable)	Belt (Adjustable)	Belt (Adjustable)
No. Speeds (Standard / VFD)	Single / Multiple	Single / Multiple	Single / Multiple
No. Motors	1	1	1
Motor HP			
R - Low Static Drive	5	5	5
S - Medium Static Drive	7.5	7.5	7.5
T - High Static Drive	7.5	7.5	7.5
Motor RPM	1725	1725	1725
Weights			
Net Weight lbs. [kg]			
R - Low Static Drive	700 [318]	700 [318]	700 [318]
S - Medium Static Drive	710 [322]	710 [322]	710 [322]
T - High Static Drive	710 [322]	710 [322]	710 [322]
Shipping Weight lbs. [kg]			
R - Low Static Drive	720 [327]	720 [327]	720 [327]
S - Medium Static Drive	730 [331]	730 [331]	730 [331]
T - High Static Drive	730 [331]	730 [331]	730 [331]

[] Designates Metric Conversions

UNIT DIMENSIONS

Model Number	CONNECTIONS				UNIT					
	Liquid		Vapor		W (Width)		H (Height)		L (Length)	
	Inches	mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm
RHCYA2090	1/2	12.70	1-1/8	28.58	54-1/2	1384.30	27-43/50	707.52	57-17/20	1469.39
RHCYA2120	5/8	15.88	1-3/8	34.93	54-1/2	1384.30	27-43/50	707.52	57-17/20	1469.39
RHCYA2121	5/8	15.88	1-3/8	34.93	61-47/50	1573.28	35-1/10	891.54	78-25/61	1991.59
RHCYA2150	5/8	15.88	1-3/8	34.93	61-47/50	1573.28	35-1/10	891.54	78-25/61	1991.59
RHCYA2180	7/8	22.23	1-5/8	41.28	61-47/50	1573.28	35-1/10	891.54	78-25/61	1991.59
RHCYA2240	7/8	22.23	1-5/8	41.28	61-47/50	1573.28	35-1/10	891.54	78-25/61	1991.59

ELECTRICAL DATA – RHCYA2 SERIES				
		090C	090D	090Y
Unit Information	Unit Operating Voltage Range	187-253	414-506	541-610
	Volts	208/230	460	575
	Minimum Circuit Ampacity			
	R - Low Static Drive	8	4	3
	S - Medium Static Drive	8	4	3
	T - High Static Drive	12	6	5
	Maximum Overcurrent Protection Device Size			
	R - Low Static Drive	15/15	15/15	15/15
	S - Medium Static Drive	15/15	15/15	15/15
	T - High Static Drive	15/20	15/15	15/15
Motor Information	No.	1	1	1
	Volts	208/230	460	575
	Phase	3	3	3
	Rating Plate Amps			
	R - Low Static Drive	6.2	3	2.4
	S - Medium Static Drive	6.2	3	2.4
	T - High Static Drive	9.2	4.6	3.5
	LRA (Amps)			
	R - Low Static Drive	47	24	22.72
	S - Medium Static Drive	47	24	22.72
	T - High Static Drive	74.5	38.1	30

ELECTRICAL DATA – RHCYA2 SERIES						
		120C	120D	120Y	121C	121D
Unit Information	Unit Operating Voltage Range	187-253	414-506	541-610	187-253	414-506
	Volts	208/230	460	575	208/230	460
	Minimum Circuit Ampacity					
	R - Low Static Drive	8	4	3	8	4
	S - Medium Static Drive	8	4	3	8	4
	T - High Static Drive	12	6	5	12	6
	Maximum Overcurrent Protection Device Size					
	R - Low Static Drive	15/15	15/15	15/15	15/15	15/15
	S - Medium Static Drive	15/15	15/15	15/15	15/15	15/15
	T - High Static Drive	15/20	15/15	15/15	15/15	15/15
Motor Information	No.	1	1	1	1	1
	Volts	208/230	460	575	208/230	460
	Phase	3	3	3	3	3
	Rating Plate Amps					
	R - Low Static Drive	6.2	3	2.4	6.2	3
	S - Medium Static Drive	6.2	3	2.4	6.2	3
	T - High Static Drive	9.2	4.6	3.5	9.2	4.6
	LRA (Amps)					
	R - Low Static Drive	47	24	22.72	47	24
	S - Medium Static Drive	47	24	22.72	47	24
	T - High Static Drive	74.5	38.1	30	74.5	38.1

ELECTRICAL DATA – RHCYA2 SERIES				
		150C	150D	150Y
Unit Information	Unit Operating Voltage Range	187-253	414-506	541-610
	Volts	208/230	460	575
	Minimum Circuit Ampacity			
	R - Low Static Drive	8	4	3
	S - Medium Static Drive	12	6	5
	T - High Static Drive	16	8	7
	Maximum Overcurrent Protection Device Size			
	R - Low Static Drive	15/15	15/15	15/15
	S - Medium Static Drive	15/15	15/15	15/15
	T - High Static Drive	20/25	15/15	15/15
Motor Information	No.	1	1	1
	Volts	208/230	460	575
	Phase	3	3	3
	Rating Plate Amps			
	R - Low Static Drive	6.2	3	2.4
	S - Medium Static Drive	9.2	4.6	3.5
	T - High Static Drive	12.6	6.3	5.1
	LRA (Amps)			
	R - Low Static Drive	47	24	22.72
	S - Medium Static Drive	74.5	38.1	30
	T - High Static Drive	95	47.5	38

ELECTRICAL DATA – RHCYA2 SERIES

		180C	180D	180Y
Unit Information	Unit Operating Voltage Range	187-253	414-506	541-610
	Volts	208/230	460	575
	Minimum Circuit Ampacity			
	R - Low Static Drive	8	4	3
	S - Medium Static Drive	12	6	5
	T - High Static Drive	16	8	7
	Maximum Overcurrent Protection Device Size			
	R - Low Static Drive	15/15	15/15	15/15
	S - Medium Static Drive	15/15	15/15	15/15
	T - High Static Drive	20/25	15/15	15/15
Motor Information	No.	1	1	1
	Volts	208/230	460	575
	Phase	3	3	3
	Rating Plate Amps			
	R - Low Static Drive	6.2	3	2.4
	S - Medium Static Drive	9.2	4.6	3.5
	T - High Static Drive	12.6	6.3	5.1
	LRA (Amps)			
	R - Low Static Drive	47	24	22.72
	S - Medium Static Drive	74.5	38.1	30
	T - High Static Drive	95	47.5	38

ELECTRICAL DATA – RHCYA2 SERIES				
		240C	240D	240Y
Unit Information	Unit Operating Voltage Range	187-253	414-506	541-610
	Volts	208/230	460	575
	Minimum Circuit Ampacity			
	R - Low Static Drive	16	8	7
	S - Medium Static Drive	24	12	10
	T - High Static Drive	24	12	10
	Maximum Overcurrent Protection Device Size			
	R - Low Static Drive	20/25	15/15	15/15
	S - Medium Static Drive	30/40	15/20	15/15
	T - High Static Drive	30/40	15/20	15/15
Motor Information	No.	1	1	1
	Volts	208/230	460	575
	Phase	3	3	3
	Rating Plate Amps			
	R - Low Static Drive	12.6	6.3	5.1
	S - Medium Static Drive	19.2	9.6	7.7
	T - High Static Drive	19.2	9.6	7.7
	LRA (Amps)			
	R - Low Static Drive	95	47.5	38
	S - Medium Static Drive	127	63.5	58
	T - High Static Drive	127	63.5	58

208/230V THREE PHASE, 60 HZ, AUXILIARY ELECTRIC HEATER KIT CHARACTERISTICS AND APPLICATION

Single Power Supply for Both Unit and Heater Kit						Separate Power Supply for Both Unit and Heater Kit			
Unit Model Number RHCYA2	Heater Kit			Air Conditioner		Heater Kit		Air Conditioner	
	Model No. RXHE-	Rated Heater kW @ 208/230V	FLA	Unit Min. Ckt. Ampacity	Max. Fuse or Ckt. Bkr. Size	Heater Kit Min. Ckt. Ampacity	Heater Kit Max. Fuse or Ckt. Bkr. Size	Air Cond. Min. Ckt. Ampacity	Air Cond. Max. Fuse or Ckt. Bkr. Size
090CAR 090CAS	AG005CA	3.76/5.00	10.44/12.03	21/23	25/25	14/16	15/20	8/8	15/15
	AG010CA	7.75/9.98	20.82/24.01	34/38	35/40	27/31	30/35	8/8	15/15
	AG015CA	11.27/15.0	31.28/36.08	47/53	50/60	92/106	100/110	8/8	15/15
	AG020CA	15.6/20.2	43.1/48.9	62/69	70/70	54/62	60/70	8/8	15/15
	AG025CA	18.78/25.0	52.13/60.14	73/83	80/90	66/76	70/80	8/8	15/15
	AG030CA	22.0/29.6	60.8/70.2	84/96	90/100	76/88	80/90	8/8	15/15
	AG035CA	26.29/35.0	72.97/84.20	99/113	100/125	92/106	100/110	8/8	15/15
090CAT	AG005CA	3.76/5.00	10.44/12.03	25/27	30/30	14/16	15/20	12/12	20/20
	AG010CA	7.75/9.98	20.82/24.01	38/42	40/45	27/31	30/35	12/12	20/20
	AG015CA	11.27/15.0	31.28/36.08	51/57	60/60	40/46	40/50	12/12	20/20
	AG020CA	15.6/20.2	43.1/48.9	66/73	70/80	54/62	60/70	12/12	20/20
	AG025CA	18.78/25.0	52.13/60.14	77/87	80/900	66/76	70/80	12/12	20/20
	AG030CA	22.0/29.6	60.8/70.2	88/100	90/100	76/88	80/90	12/12	20/20
	AG035CA	26.29/35.0	72.97/84.20	103/117	110/125	92/106	100/110	12/12	20/20
120CAR 120CAS	AG005CA	3.76/5.00	10.44/12.03	21/23	25/25	14/16	15/20	8/8	15/15
	AG010CA	7.75/9.98	20.82/24.01	34/38	35/40	27/31	30/35	8/8	15/15
	AG015CA	11.27/15.0	31.28/36.08	47/53	50/60	40/46	40/50	8/8	15/15
	AG020CA	15.6/20.2	43.1/48.9	62/69	70/70	54/62	60/70	8/8	15/15
	AG025CA	18.78/25.0	52.13/60.14	73/83	80/90	66/76	70/80	8/8	15/15
	AG030CA	22.0/29.6	60.8/70.2	84/96	90/100	76/88	80/90	8/8	15/15
	AG035CA	26.29/35.0	72.97/84.20	99/113	100/125	92/106	100/110	8/8	15/15
120CAT	AG005CA	3.76/5.00	10.44/12.03	25/27	30/30	14/16	15/20	12/12	20/20
	AG010CA	7.75/9.98	20.82/24.01	38/42	40/45	27/31	30/35	12/12	20/20
	AG015CA	11.27/15.0	31.28/36.08	51/57	60/60	40/46	40/50	12/12	20/20
	AG020CA	15.6/20.2	43.1/48.9	66/73	70/80	54/62	60/70	12/12	20/20
	AG025CA	18.78/25.0	52.13/60.14	77/87	80/90	66/76	70/80	12/12	20/20
	AG030CA	22.0/29.6	60.8/70.2	88/100	90/100	76/88	80/90	12/12	20/20
	AG035CA	26.29/35.0	72.97/84.20	103/117	110/125	92/106	100/110	12/12	20/20
121CAR 121CAS	AG010CC	7.50/9.98	20.82/24.01	34/38	35/40	27/31	30/35	8/8	15/15
	AG020CC	14.98/19.95	41.58/47.99	60/68	60/70	52/60	60/60	8/8	15/15
	AG030CC	21.6/28.8	60/70	83/96	90/100	75/88	80/90	8/8	15/15
	AG040CC	30/40	83/96	112/128	125/150	104/120	110/125	8/8	15/15
121CAT	AG010CC	7.50/9.98	20.82/24.01	38/42	40/45	27/31	30/35	12/12	20/20
	AG020CC	14.98/19.95	41.58/47.99	64/72	70/80	52/60	60/60	12/12	20/20
	AG030CC	21.6/28.8	60/70	87/99	90/100	75/88	80/90	12/12	20/20
	AG040CC	30/40	83/96	116/132	125/150	104/120	110/125	12/12	20/20
150CAR	AG010CC	7.50/9.98	20.82/24.01	34/38	35/40	27/31	30/35	8/8	15/15
	AG020CC	14.98/19.95	41.58/47.99	60/68	60/70	52/60	60/60	8/8	15/15
	AG030CC	21.6/28.8	60/70	83/96	90/100	75/88	80/90	8/8	15/15
	AG040CC	30/40	83/96	112/128	125/150	104/120	110/125	8/8	15/15
150CAS	AG010CC	7.50/9.98	20.82/24.01	38/42	40/45	27/31	30/35	12/12	20/20
	AG020CC	14.98/19.95	41.58/47.99	64/72	70/80	52/60	60/60	12/12	20/20
	AG030CC	21.6/28.8	60/70	87/99	90/100	75/88	80/90	12/12	20/20
	AG040CC	30/40	83/96	116/132	125/150	104/120	110/125	12/12	20/20
150CAT	AG010CC	7.50/9.98	20.82/24.01	42/46	45/50	27/31	30/35	16/16	25/25
	AG020CC	14.98/19.95	41.58/47.99	68/76	70/80	52/60	60/60	16/16	25/25
	AG030CC	21.6/28.8	60/70	91/104	100/110	75/88	80/90	16/16	25/25
	AG040CC	30/40	83/96	120/136	125/150	104/120	110/125	16/16	25/25
180CAR	AG010CC	7.50/9.98	20.82/24.01	34/38	35/40	27/31	30/35	8/8	15/15
	AG020CC	14.98/19.95	41.58/47.99	60/68	60/70	52/60	60/60	8/8	15/15
	AG030CC	21.6/28.8	60/70	83/96	90/100	75/88	80/90	8/8	15/15
	AG040CC	30/40	83/96	112/128	125/150	104/120	110/120	8/8	15/15
180CAS	AG010CC	7.50/9.98	20.82/24.01	38/42	40/45	27/31	30/35	12/12	20/20
	AG020CC	14.98/19.95	41.58/47.99	64/72	70/80	52/60	60/60	12/12	20/20
	AG030CC	21.6/28.8	60/70	87/99	90/100	75/88	80/90	12/12	20/20
	AG040CC	30/40	83/96	116/132	125/150	104/120	110/125	12/12	20/20
180CAT	AG010CC	7.50/9.98	20.82/24.01	42/46	45/50	27/31	30/35	16/16	25/25
	AG020CC	14.98/19.95	41.58/47.99	68/76	70/80	52/60	60/60	16/16	25/25
	AG030CC	21.6/28.8	60/70	91/104	100/110	75/88	80/90	16/16	25/25
	AG040CC	30/40	83/96	120/136	125/150	104/120	110/125	16/16	25/25
240CAR 240CAS	AG010CC	7.50/9.98	20.82/24.01	42/46	45/50	27/31	30/35	16/16	25/25
	AG020CC	14.98/19.95	41.58/47.99	68/76	70/80	52/60	60/60	16/16	25/25
	AG030CC	21.6/28.8	60/70	91/104	100/110	75/88	80/90	16/16	25/25
	AG040CC	30/40	83/96	120/136	125/150	104/120	110/125	16/16	25/25
240CAT	AG010CC	7.50/9.98	20.82/24.01	51/55	60/60	27/31	30/35	24/24	40/40
	AG020CC	14.98/19.95	41.58/47.99	76/84	80/90	52/60	60/60	24/24	40/40
	AG030CC	21.6/28.8	60/70	99/112	100/125	75/88	80/90	24/24	40/40
	AG040CC	30/40	83/96	128/144	150/150	104/120	110/125	24/24	40/40

460V THREE PHASE, 60 HZ, AUXILIARY ELECTRIC HEATER KIT CHARACTERISTICS AND APPLICATION

Unit Model Number RHCYA2	Single Power Supply for Both Unit and Heater Kit					Separate Power Supply for Both Unit and Heater Kit			
	Heater Kit			Air Conditioner		Heater Kit		Air Conditioner	
	Model No. RXHE-	Rated Heater kW @ 460V	FLA	Unit Min. Ckt. Ampacity	Max. Fuse or Ckt. Bkr. Size	Heater Kit Min. Ckt. Ampacity	Heater Kit Max. Fuse or Ckt. Bkr. Size	Air Cond. Min. Ckt. Ampacity	Air Cond. Max. Fuse or Ckt. Bkr. Size
090DAR 090DAS	AG005DA	5	6.01	12	15	8	15	4	15
	AG010DA	9.98	12	19	20	15	15	4	15
	AG015DA	15	18.04	27	30	23	25	4	15
	AG020DA	20.2	24.7	35	35	31	35	4	15
	AG025DA	25	30.07	42	45	38	40	4	15
	AG030DA	29.7	35	48	50	44	45	4	15
	AG035DA	35	42.1	57	60	53	60	4	15
090DAT	AG005DA	5	6.01	14	15	8	15	6	15
	AG010DA	9.98	12	21	25	15	15	6	15
	AG015DA	15	18.04	29	30	23	25	6	15
	AG020DA	20.2	24.7	37	40	31	35	6	15
	AG025DA	25	30.07	44	45	38	40	6	15
	AG030DA	29.7	35	50	50	44	45	6	15
	AG035DA	35	42.1	59	60	53	60	6	15
120DAR 120DAS	AG005DA	5	6.01	12	15	8	15	4	15
	AG010DA	9.98	12	19	20	15	15	4	15
	AG015DA	15	18.04	27	30	23	25	4	15
	AG020DA	20.2	24.7	35	35	31	35	4	15
	AG025DA	25	30.07	42	45	38	40	4	15
	AG030DA	29.7	35	48	50	44	45	4	15
	AG035DA	35	42.1	57	60	53	60	4	15
120DAT	AG005DA	5	6.01	14	15	8	15	6	15
	AG010DA	9.98	12	21	25	15	15	6	15
	AG015DA	15	18.04	29	30	23	25	6	15
	AG020DA	20.2	24.7	37	40	31	35	6	15
	AG025DA	25	30.07	44	45	38	40	6	15
	AG030DA	29.7	35	50	50	44	45	6	15
	AG035DA	35	42.1	59	60	53	60	6	15
121DAR 121DAS	AG010DC	9.98	12	19	20	15	15	4	15
	AG020DC	20	24.06	34	35	31	35	4	15
	AG030DC	28.8	35	48	50	44	45	4	15
	AG040DC	40	48	64	70	60	60	4	15
	AG050DC	50	60.14	79	80	76	80	4	15
121DAT	AG010DC	9.98	12	21	25	15	15	6	15
	AG020DC	20	24.06	36	40	31	35	6	15
	AG030DC	28.8	35	50	50	44	45	6	15
	AG040DC	40	48	66	70	60	60	6	15
	AG050DC	50	60.14	81	90	76	80	6	15
150DAR	AG010DC	9.98	12	19	20	15	15	4	15
	AG020DC	20	24.06	34	35	31	35	4	15
	AG030DC	28.8	35	48	50	44	45	4	15
	AG040DC	40	48	64	70	60	60	4	15
	AG050DC	50	60.14	79	80	76	80	4	15
150DAS	AG010DC	9.98	12	21	25	15	15	6	15
	AG020DC	20	24.06	36	40	31	35	6	15
	AG030DC	28.8	35	50	50	44	45	6	15
	AG040DC	40	48	66	70	60	60	6	15
	AG050DC	50	60.14	81	90	76	80	6	15
150DAT	AG010DC	9.98	12	23	25	15	15	8	15
	AG020DC	20	24.06	38	40	31	35	8	15
	AG030DC	28.8	35	52	60	44	45	8	15
	AG040DC	40	48	68	70	60	60	8	15
	AG050DC	50	60.14	84	90	76	80	8	15

460V THREE PHASE, 60 HZ, AUXILIARY ELECTRIC HEATER KIT CHARACTERISTICS AND APPLICATION (CONTINUED)

Unit Model Number RHCYA2	Single Power Supply for Both Unit and Heater Kit					Separate Power Supply for Both Unit and Heater Kit			
	Heater Kit			Air Conditioner		Heater Kit		Air Conditioner	
	Model No. RXHE-	Rated Heater kW @ 460V	FLA	Unit Min. Ckt. Ampacity	Max. Fuse or Ckt. Bkr. Size	Heater Kit Min. Ckt. Ampacity	Heater Kit Max. Fuse or Ckt. Bkr. Size	Air Cond. Min. Ckt. Ampacity	Air Cond. Max. Fuse or Ckt. Bkr. Size
180DAR	AG010DC	9.98	12	19	20	15	15	4	15
	AG020DC	20	24.06	34	35	31	35	4	15
	AG030DC	28.8	35	48	50	44	45	4	15
	AG040DC	40	48	64	70	60	60	4	15
	AG050DC	50	60.14	79	80	76	80	4	15
180DAS	AG010DC	9.98	12	21	25	15	15	6	15
	AG020DC	20	24.06	36	40	31	35	6	15
	AG030DC	28.8	35	50	50	44	45	6	15
	AG040DC	40	48	66	70	60	60	6	15
	AG050DC	50	60.14	81	90	76	80	6	15
180DAT	AG010DC	9.98	12	23	25	15	15	8	15
	AG020DC	20	24.06	38	40	31	35	8	15
	AG030DC	28.8	35	52	60	44	45	8	15
	AG040DC	40	48	68	70	60	60	8	15
	AG050DC	50	60.14	84	90	76	80	8	15
240DAR 240DAS	AG010DC	9.98	12	23	25	15	15	8	15
	AG020DC	20	24.06	38	40	31	35	8	15
	AG030DC	28.8	35	52	60	44	45	8	15
	AG040DC	40	48	68	70	60	60	8	15
	AG050DC	50	60.14	84	90	76	80	8	15
240DAT	AG010DC	9.98	12	27	30	15	15	12	20
	AG020DC	20	24.06	43	45	31	35	12	20
	AG030DC	28.8	35	56	60	44	45	12	20
	AG040DC	40	48	72	80	60	60	12	20
	AG050DC	50	60.14	88	90	76	80	12	20

575V THREE PHASE, 60 HZ, AUXILIARY ELECTRIC HEATER KIT CHARACTERISTICS AND APPLICATION

Unit Model Number RHCYA2	Single Power Supply for Both Unit and Heater Kit					Separate Power Supply for Both Unit and Heater Kit			
	Heater Kit			Air Conditioner		Heater Kit		Air Conditioner	
	Model No. RXHE-	Rated Heater kW @ 575V	FLA	Unit Min. Ckt. Ampacity	Max. Fuse or Ckt. Bkr. Size	Heater Kit Min. Ckt. Ampacity	Heater Kit Max. Fuse or Ckt. Bkr. Size	Air Cond. Min. Ckt. Ampacity	Air Cond. Max. Fuse or Ckt. Bkr. Size
090YAR 090YAS	AG010YA	9.98	10.02	16	20	13	15	3	15
	AG015YA	15	15.06	22	25	19	20	3	15
	AG020YA	20	20.08	29	30	26	30	3	15
	AG025YA	25	25.1	35	35	32	35	3	15
	AG030YA	28.8	28.92	40	40	37	40	3	15
	AG035YA	35	35.14	47	50	44	45	3	15
090YAT	AG010YA	9.98	10.02	17	20	13	15	5	15
	AG015YA	15	15.06	24	25	19	20	5	15
	AG020YA	20	20.08	30	30	26	30	5	15
	AG025YA	25	25.1	36	40	32	35	5	15
	AG030YA	28.8	28.92	41	45	37	40	5	15
	AG035YA	35	35.14	49	50	44	45	5	15
120YAR 120YAS	AG010YA	9.98	10.02	16	20	13	15	3	15
	AG015YA	15	15.06	22	25	19	20	3	15
	AG020YA	20	20.08	29	30	26	30	3	15
	AG025YA	25	25.1	35	35	32	35	3	15
	AG030YA	28.8	28.92	40	40	37	40	3	15
	AG035YA	35	35.14	47	50	44	45	3	15
120YAT	AG010YA	9.98	10.02	17	20	13	15	5	15
	AG015YA	15	15.06	24	25	19	20	5	15
	AG020YA	20	20.08	30	30	26	30	5	15
	AG025YA	25	25.1	36	40	32	35	5	15
	AG030YA	28.8	28.92	41	45	37	40	5	15
	AG035YA	35	35.14	49	50	44	45	5	15
150YAR	AG010YC	9.98	10.02	16	20	13	15	3	15
	AG020YC	20	20.08	29	30	26	30	3	15
	AG030YC	28.8	28.92	40	40	37	40	3	15
	AG040YC	40	40.16	54	60	51	60	3	15
	AG050YC	49.99	50.19	66	70	63	70	3	15
150YAS	AG010YC	9.98	10.02	17	20	13	15	5	15
	AG020YC	20	20.08	30	30	26	30	5	15
	AG030YC	28.8	28.92	41	45	37	40	5	15
	AG040YC	40	40.16	55	60	51	60	5	15
	AG050YC	49.99	50.19	68	70	63	70	5	15
150YAT	AG010YC	9.98	10.02	19	20	13	15	7	15
	AG020YC	20	20.08	32	35	26	30	7	15
	AG030YC	28.8	28.92	43	45	37	40	7	15
	AG040YC	40	40.16	57	60	51	60	7	15
	AG050YC	49.99	50.19	70	70	63	70	7	15
180YAR	AG010YC	9.98	10.02	16	20	13	15	3	15
	AG020YC	20	20.08	29	30	26	30	3	15
	AG030YC	28.8	28.92	40	40	37	40	3	15
	AG040YC	40	40.16	54	60	51	60	3	15
	AG050YC	49.99	50.19	66	70	63	70	3	15
180YAS	AG010YC	9.98	10.02	17	20	13	15	5	15
	AG020YC	20	20.08	30	30	26	30	5	15
	AG030YC	28.8	28.92	41	45	37	40	5	15
	AG040YC	40	40.16	55	60	51	60	5	15
	AG050YC	49.99	50.19	68	70	63	70	5	15
180YAT	AG010YC	9.98	10.02	19	20	13	15	7	15
	AG020YC	20	20.08	32	35	26	30	7	15
	AG030YC	28.8	28.92	43	45	37	40	7	15
	AG040YC	40	40.16	57	60	51	60	7	15
	AG050YC	49.99	50.19	70	70	63	70	7	15
240YAR 240YAS	AG010YC	9.98	10.02	19	20	13	15	7	15
	AG020YC	20	20.08	32	35	26	30	7	15
	AG030YC	28.8	28.92	43	45	37	40	7	15
	AG040YC	40	40.16	57	60	51	60	7	15
	AG050YC	49.99	50.19	70	70	63	70	7	15
240YAT	AG010YC	9.98	10.02	19	20	13	15	10	15
	AG020YC	20	20.08	32	35	26	30	10	15
	AG030YC	28.8	28.92	43	45	37	40	10	15
	AG040YC	40	40.16	57	60	51	60	10	15
	AG050YC	49.99	50.19	70	70	63	70	10	15

A2L REFRIGERANT INSTALLATION SAFETY DATA

Qmin at Rating Plate Charge Weight [0'-200' 1/2" Line Set]						
RHCYA2		090 [0']	090 [50']	090 [100']	090 [150']	090 [200']
Refrigerant Charge weight (oz)		338.0	388.0	438.0	488.0	538.0
Minimum Total Room Area, TAmin (ft²)		623.0	715.0	807.0	900.0	992.0
Minimum circulation airflow, Qmin (CFM)		1124.0	1291.0	1457.0	1623.0	1789.0
Installed Altitude (ft above sea level)	Altitude Adjustment Factor	Minimum Total Conditioned Room Area, TAmin (sq ft)				
0	1.000	623	715	807	900	992
1000	1.025	638	733	827	922	1017
2000	1.051	655	751	848	946	1042
3000	1.078	672	771	870	970	1070
4000	1.107	690	792	893	996	1098
5000	1.138	709	813	918	1024	1129
6000	1.170	729	836	944	1053	1161
6500	1.187	739	848	958	1068	1177

Qmin at Rating Plate Charge Weight [0'-200' 5/8" Line Set]						
RHCYA2		120 [0']	120 [50']	120 [100']	120 [150']	120 [200']
Refrigerant Charge weight (oz)		373.5	448.5	523.5	598.5	673.5
Minimum Total Room Area, TAmin (ft²)		688.0	781.0	873.0	965.0	1057.0
Minimum circulation airflow, Qmin (CFM)		1242.0	1409.0	1575.0	1741.0	1908.0
Installed Altitude (ft above sea level)	Altitude Adjustment Factor	Minimum Total Conditioned Room Area, TAmin (sq ft)				
0	1.000	688	781	873	965	1057
1000	1.025	706	800	894	989	1083
2000	1.051	723	820	917	1014	1111
3000	1.078	742	842	941	1040	1140
4000	1.107	762	864	966	1068	1170
5000	1.138	783	888	993	1098	1203
6000	1.170	805	913	1021	1129	1237
6500	1.187	817	926	1036	1145	1254

A2L REFRIGERANT INSTALLATION SAFETY DATA (CONTINUED)

Qmin at Rating Plate Charge Weight [0'–200' 1/2" Line Set]						
RHCYA2		121 [0']	121 [50']	121 [100']	121 [150']	121 [200']
Refrigerant Charge weight (oz)		328.0	378.0	428.0	478.0	528.0
Minimum Total Room Area, TAmin (ft²)		605.0	697.0	789.0	881.0	973.0
Minimum circulation airflow, Qmin (CFM)		1091.0	1257.0	1424.0	1590.0	1756.0
Installed Altitude (ft above sea level)	Altitude Adjustment Factor	Minimum Total Conditioned Room Area, TAmin (sq ft)				
0	1.000	605	697	789	881	973
1000	1.025	620	714	808	903	997
2000	1.051	635	732	829	926	1023
3000	1.078	652	751	851	950	1049
4000	1.107	669	771	873	976	1078
5000	1.138	688	793	898	1002	1107
6000	1.170	707	815	923	1031	1139
6500	1.187	717	827	936	1046	1155

Qmin at Rating Plate Charge Weight [0'–200' 5/8" Line Set]						
RHCYA2		150 [0']	150 [50']	150 [100']	150 [150']	150 [200']
Refrigerant Charge weight (oz)		381.5	456.5	531.5	606.5	681.5
Minimum Total Room Area, TAmin (ft²)		703.2	795.4	887.5	979.7	1071.9
Minimum circulation airflow, Qmin (CFM)		1269.0	1435.0	1602.0	1768.0	1934.0
Installed Altitude (ft above sea level)	Altitude Adjustment Factor	Minimum Total Conditioned Room Area, TAmin (sq ft)				
0	1.000	703	795	888	980	1072
1000	1.025	721	733	827	922	1017
2000	1.051	739	751	848	946	1042
3000	1.078	758	771	870	970	1070
4000	1.107	779	792	893	996	1098
5000	1.138	800	813	918	1024	1129
6000	1.170	823	836	944	1053	1161
6500	1.187	834	848	958	1068	1177

A2L REFRIGERANT INSTALLATION SAFETY DATA (CONTINUED)

Qmin at Rating Plate Charge Weight [0'–200' 5/8" Line Set]						
RHCYA2		180 [0']	180 [50']	180 [100']	180 [150']	180 [200']
Refrigerant Charge weight (oz)		681.5	756.5	831.5	906.5	981.5
Minimum Total Room Area, TAmin (ft²)		1256.2	1348.3	1440.5	1532.7	1624.8
Minimum circulation airflow, Qmin (CFM)		2267.0	2433.0	2599.0	2766.0	2932.0
Installed Altitude (ft above sea level)	Altitude Adjustment Factor	Minimum Total Conditioned Room Area, TAmin (sq ft)				
0	1.000	1256	1348	1441	1533	1625
1000	1.025	1287	1382	1476	1571	1665
2000	1.051	1320	1417	1514	1611	1707
3000	1.078	1355	1454	1553	1653	1752
4000	1.107	1391	1493	1595	1697	1799
5000	1.138	1429	1534	1639	1744	1849
6000	1.170	1470	1577	1685	1793	1901
6500	1.187	1491	1600	1709	1819	1928

Qmin at Rating Plate Charge Weight [0'–200' 7/8" Line Set]						
RHCYA2		240 [0']	240 [50']	240 [100']	240 [150']	240 [200']
Refrigerant Charge weight (oz)		537.5	692.5	847.5	1002.5	1157.5
Minimum Total Room Area, TAmin (ft²)		990.8	1082.9	1175.1	1267.2	1359.4
Minimum circulation airflow, Qmin (CFM)		1788.0	1954.0	2120.0	2287.0	2453.0
Installed Altitude (ft above sea level)	Altitude Adjustment Factor	Minimum Total Conditioned Room Area, TAmin (sq ft)				
0	1.000	991	1083	1175	1267	1359
1000	1.025	1015	1110	1204	1299	1393
2000	1.051	1041	1138	1235	1332	1429
3000	1.078	1068	1168	1267	1366	1466
4000	1.107	1097	1199	1301	1403	1505
5000	1.138	1127	1232	1337	1442	1547
6000	1.170	1159	1267	1375	1483	1590
6500	1.187	1176	1285	1394	1504	1613

AIRFLOW PERFORMANCE RHCYA2090 — 7.5 TON [26.4 kW] — 60 Hz — SIDEFLOW

Air Flow CFM [L/s]		RHCYA2090 Voltage 208/230, 460, 575 — 3 phase 60 Hz																			
		External Static Pressure—Inches of Water [kPa]																			
		0.1 [.02]	0.2 [.05]	0.3 [.07]	0.4 [.10]	0.5 [.12]	0.6 [.15]	0.7 [.17]	0.8 [.20]	0.9 [.22]	1.0 [.25]	1.1 [.27]	1.2 [.30]	1.3 [.32]	1.4 [.35]	1.5 [.37]	1.6 [.40]	1.7 [.42]	1.8 [.45]	1.9 [.47]	2.0 [.50]
RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W
2400 [1133]	526 487	581 537	631 581	678 619	720 650	803 788	844 849	884 909	922 967	960 1024	997 1080	1033 1135	1066 1212	1096 1268	1126 1327	1156 1387	1185 1449	1214 1513	1242 1579		
2450 [1156]	533 505	587 555	637 599	683 724	724 668	809 810	850 871	889 932	927 991	965 1049	1001 1106	1036 1162	1070 1244	1101 1302	1131 1362	1160 1424	1189 1488	1218 1553	1246 1620		
2500 [1180]	540 523	594 574	643 618	688 656	728 688	816 833	855 895	894 957	932 1017	969 1075	1005 1133	1040 1189	1074 1219	1105 1277	1135 1399	1164 1463	1193 1528	1222 1595	1250 1664		
2550 [1203]	547 542	600 593	649 637	693 675	732 707	822 857	861 921	899 983	937 1043	973 1103	1009 1161	1018 1193	1049 1252	1080 1312	1110 1373	1139 1437	1169 1502	1197 1568	1226 1637	1254 1708	
2600 [1227]	555 561	607 612	654 657	698 695	737 728	828 883	867 947	905 1010	942 1071	978 1131	1013 1190	1023 1226	1054 1286	1084 1347	1114 1411	1144 1476	1173 1542	1202 1611	1230 1681	1258 1753	
2650 [1250]	562 581	613 632	660 677	708 717	748 834	910 873	947 910	1038 942	1101 983	1161 1017	1223 1028	1259 1059	1321 1089	1384 1149	1449 1158	1516 1177	1584 1206	1654 1234	1728 1282	1800	
2700 [1274]	569 601	620 653	666 698	708 737	746 770	840 938	878 1003	916 1068	952 1131	987 1192	1022 1251	1038 1324	1063 1357	1094 1422	1124 1459	1153 1557	1182 1627	1210 1699	1238 1772	1266 1847	
2750 [1298]	577 622	627 674	672 719	714 759	808 900	847 967	884 1034	921 1099	957 1162	992 1225	1026 1266	1038 1330	1068 1395	1098 1461	1128 1529	1158 1599	1186 1671	1215 1744	1243 1819		
2800 [1321]	584 643	634 695	678 741	719 781	815 930	863 998	890 1065	927 1131	962 1195	997 1258	1030 1320	1043 1367	1073 1433	1103 1501	1133 1571	1162 1643	1191 1716	1219 1791	1247 1868		
2850 [1345]	592 665	640 718	684 764	724 804	822 961	859 1030	896 1098	932 1164	967 1229	1001 1293	1034 1356	1048 1405	1078 1473	1108 1545	1138 1614	1167 1687	1195 1762	1224 1839	1251 1917		
2900 [1368]	600 687	647 740	691 787	730 827	828 994	866 1063	902 1132	938 1199	973 1265	1006 1329	1039 1393	1053 1444	1083 1514	1113 1585	1142 1658	1172 1733	1200 1810	1228 1888	1256 1968		
2950 [1392]	607 710	654 763	697 810	735 850	835 1027	872 1098	908 1167	944 1235	978 1301	1017 1367	1027 1415	1058 1485	1088 1556	1112 1629	1147 1704	1176 1780	1200 1858	1233 1938	1260 2020		
3000 [1416]	615 734	661 787	703 834	741 875	842 1062	879 1133	915 1203	949 1272	983 1339	1016 1405	1032 1455	1063 1526	1093 1599	1123 1674	1152 1750	1181 1828	1209 1908	1237 1990	1265 2073		
3050 [1439]	623 758	668 811	710 859	746 899	849 1098	886 1170	921 1241	955 1310	989 1378	1021 1445	1038 1496	1068 1569	1098 1644	1128 1720	1157 1798	1186 1878	1214 1959	1242 2042	1269 2127		
3100 [1463]	631 782	675 836	716 884	820 1062	856 1136	892 1208	927 1280	961 1350	994 1419	1026 1486	1043 1539	1074 1613	1104 1689	1133 1767	1162 1847	1191 1928	1219 2011	1247 2096			
3150 [1486]	638 807	683 861	722 909	827 1100	864 1174	899 1248	933 1320	967 1391	999 1460	1031 1528	1049 1582	1079 1658	1109 1736	1138 1816	1167 1897	1196 1980	1224 2065	1251 2151			
3200 [1510]	646 833	690 887	729 935	835 1139	871 1214	906 1288	940 1361	973 1433	1005 1503	1036 1572	1054 1627	1084 1705	1114 1784	1143 1865	1172 1948	1201 2033	1229 2119	1256 2207			
3250 [1534]	654 859	697 914	735 962	842 1179	878 1255	913 1330	946 1404	979 1476	1011 1547	1029 1595	1059 1673	1090 1752	1119 1833	1149 1916	1177 2000	1206 2087	1233 2175	1261 2264			
3300 [1557]	662 886	704 941	742 989	850 1221	885 1298	919 1373	953 1443	985 1521	1016 1592	1035 1640	1065 1720	1095 1801	1125 1883	1154 1968	1182 2054	1211 2142	1238 2231	1266 2323			
3350 [1581]	671 913	712 968	749 1017	858 1264	892 1341	926 1418	959 1493	991 1566	1022 1639	1040 1687	1071 1768	1100 1850	1130 1935	1159 2021	1188 2108	1216 2198	1243 2289	—	—		
3400 [1604]	679 940	719 996	830 1229	866 1308	900 1386	933 1463	966 1539	997 1614	1027 1687	1046 1735	1076 1817	1106 1901	1135 1987	1164 2075	1193 2164	1221 2255	1248 2348	—	—		

Drive Package	R					S					T								
Motor H.P. [W]	2 [3728.5]					2 [1491.4]					3 [2237.1]								
Blower Sheave	AK104-3/4					AK71H					AK59								
Motor Sheave	IVL44					IVL44					IVL44								
Belt	A50					A44					A42								
Turns Open	0	1	2	3	4	5	0	1	2	3	4	5	0	1	2	3	4	5	6
RPM	696	661	627	593	558	646	998	939	906	874	840	806	1230	1160	1105	990	927	892	892

NOTES: 1. Factory sheave settings are shown in bold type.
2. Do not set motor sheave below minimum or maximum turns open shown.
3. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum External Static Pressure
4. Drive data shown is for horizontal airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.

1 Designates Metric Conversions

AIRFLOW PERFORMANCE RHCYA2090 — 7.5 TON [26.4 kW] — 60 Hz — SIDEFLOW (CONTINUED)

Airflow CFM [L/s]	AIRFLOW CORRECTION FACTORS *			COMPONENT AIRFLOW RESISTANCE		
	Total kBtu/h	Sensible kBtu/h	Power kW	Wet Coil	MERV 8 Filter	MERV 13 Filter
				Resistance Inches of Water [kPa]	Resistance Inches of Water	Resistance Inches of Water
2400 [1133]	0.93	0.73	0.96	0.04 [.01]	0.153	0.157
2500 [1180]	0.93	0.74	0.96	0.05 [.01]	0.164	0.168
2600 [1227]	0.94	0.76	0.97	0.05 [.01]	0.175	0.179
2700 [1274]	0.94	0.78	0.97	0.05 [.01]	0.186	0.189
2800 [1321]	0.95	0.80	0.97	0.05 [.01]	0.198	0.200
2900 [1368]	0.95	0.81	0.97	0.06 [.01]	0.209	0.211
3000 [1416]	0.95	0.83	0.98	0.06 [.01]	0.220	0.221
3100 [1463]	0.96	0.85	0.98	0.06 [.01]	0.231	0.232
3200 [1510]	0.96	0.87	0.98	0.06 [.01]	0.242	0.243
3300 [1557]	0.97	0.88	0.99	0.07 [.02]	0.253	0.254
3400 [1604]	0.97	0.90	0.99	0.07 [.02]	0.264	0.264
3500 [1652]	0.98	0.92	0.99	0.07 [.02]	0.276	0.275
3600 [1711]	0.98	0.93	0.99	0.08 [.02]	0.287	0.286
3700 [1746]	0.99	0.95	1.00	0.08 [.02]	0.298	0.296
3800 [1793]	0.99	0.97	1.00	0.08 [.02]	0.309	0.307
3900 [1840]	1.00	0.99	1.00	0.08 [.02]	0.320	0.318
4000 [1888]	1.00	1.00	1.01	0.09 [.02]	0.331	0.329

*Multiply correction factor times gross performance data — resulting sensible capacity cannot exceed total capacity.

[] Designates Metric Conversions

Air Flow CFM [L/s]	RHCA2120										Voltage 208/230, 460, 575 — 3 phase 60 Hz										External Static Pressure—Inches of Water [kPa]																			
	0.1 [0.02]		0.2 [0.05]		0.3 [0.07]		0.4 [0.10]		0.5 [0.12]		0.6 [0.15]		0.7 [0.17]		0.8 [0.20]		0.9 [0.22]		1.0 [0.25]		1.1 [0.27]		1.2 [0.30]		1.3 [0.32]		1.4 [0.35]		1.5 [0.37]		1.6 [0.40]		1.7 [0.42]		1.8 [0.45]		1.9 [0.47]		2.0 [0.50]	
	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W
3100 [1463]	—	—	—	—	—	—	756	915	793	984	830	1055	866	1129	901	1207	945	1317	980	1376	1012	1436	1042	1498	1070	1561	1096	1625	1119	1690	1140	1756	1183	1828	1213	1895	1238	1959	1259	2021
3200 [1510]	—	—	—	—	731	911	768	979	805	1050	841	1124	876	1202	911	1283	959	1382	993	1445	1024	1509	1053	1574	1080	1640	1104	1708	1126	1777	1146	1847	1193	1921	1220	1989	1243	2055	1262	2118
3300 [1557]	—	—	744	975	781	1046	817	1121	852	1198	887	1279	921	1362	973	1452	1005	1519	1035	1586	1063	1655	1089	1725	1112	1797	1133	1869	1172	1944	1202	2018	1227	2088	1248	2155	1255	2220		
3400 [1604]	—	—	757	1044	794	1118	829	1195	864	1276	898	1360	953	1459	986	1528	1017	1598	1046	1669	1073	1742	1097	1816	1119	1891	1139	1967	1182	2044	1210	2119	1233	2191	1253	2260	1268	2326		
3500 [1652]	—	734	1042	771	1116	807	1124	842	1274	876	1358	909	1448	967	1536	999	1609	1029	1683	1057	1758	1082	1834	1105	1911	1126	1990	1145	2069	1192	2148	1218	2242	1239	2298	1259	2368	1269	2436	
3600 [1699]	—	749	1116	785	1193	820	1194	854	1357	888	1444	921	1533	980	1619	1011	1695	1040	1773	1067	1851	1091	1931	1113	2012	1133	2094	1173	2175	1210	2256	1244	2334	1244	2409	1259	2481	1269	2436	
3700 [1746]	—	764	1193	799	1274	834	1357	867	1444	900	1534	961	1628	993	1707	1023	1787	1051	1868	1076	1950	1099	2034	1120	2118	1139	2204	1173	2286	1209	2369	1231	2448	1244	2525	1261	2598	1269	2436	
3800 [1793]	743	1195	779	1275	813	1359	847	1445	880	1535	913	1628	975	1718	1006	1800	1034	1884	1061	1968	1085	2054	1107	2141	1127	2229	1145	2319	1193	2402	1216	2486	1236	2567	1251	2645	1263	2720	1270	2792
3900 [1840]	759	1278	794	1361	828	1448	861	1537	894	1630	956	1728	988	1813	1018	1898	1045	1986	1071	2074	1094	2164	1115	2254	1134	2346	1175	2433	1201	2521	1223	2607	1241	2689	1254	2769	1263	2846	1268	2919
4000 [1888]	775	1365	809	1451	843	1541	876	1634	908	1729	997	1824	1013	1913	1029	2002	1056	2093	1080	2185	1102	2278	1122	2372	1154	2468	1186	2555	1210	2645	1259	2732	1245	2816	1256	2897	1264	2975	1266	3031
4100 [1935]	791	1456	825	1545	858	1638	890	1734	921	1833	983	1926	1013	2018	1041	2111	1066	2206	1089	2320	1110	2398	1129	2496	1145	2595	1185	2681	1217	2773	1235	2862	1249	2947	1258	3030	1263	3131	1264	3186
4200 [1982]	808	1551	841	1643	873	1739	905	1838	966	1938	996	2033	1025	2128	1051	2225	1076	2323	1098	2423	1117	2523	1135	2625	1180	2716	1204	2812	1224	2905	1240	2996	1251	3083	1259	3167	1262	3248	1261	3326
4300 [2029]	825	1650	857	1746	889	1844	920	1946	979	2047	1009	2145	1037	2244	1062	2345	1085	2447	1106	2549	1124	2653	1141	2759	1190	2850	1212	2947	1230	3042	1244	3134	1253	3222	1259	3308	1260	3391	1257	3471
4400 [2076]	842	1753	873	1852	905	1954	962	2060	993	2161	1021	2262	1048	2365	1072	2470	1094	2575	1113	2681	1131	2789	1146	2898	1199	2987	1220	3087	1236	3183	1247	3276	1255	3366	1258	3454	1257	3538	1252	3619
4500 [2123]	859	1860	890	1962	921	2067	976	2176	1005	2280	1033	2385	1058	2492	1081	2600	1102	2709	1120	2819	1137	2930	1186	3026	1208	3129	1226	3230	1240	3328	1250	3423	1256	3515	1257	3603	1254	3689	1247	3772
4600 [2171]	876	1972	907	2077	959	2190	989	2296	1018	2404	1044	2513	1068	2623	1090	2735	1110	2847	1127	2961	1142	3076	1196	3170	1216	3276	1232	3378	1244	3477	1252	3574	1256	3667	1255	3757	1250	3845	1241	3929
4700 [2218]	894	2087	924	2195	973	2312	1003	2422	1030	2534	1055	2646	1085	2760	1099	2875	1117	2992	1134	3109	1148	3228	1205	3319	1224	3426	1238	3530	1248	3631	1254	3729	1255	3824	1252	3916	1245	4004	1234	4090
4800 [2265]	912	2207	956	2327	987	2440	1015	2554	1041	2669	1066	2785	1087	2903	1107	3021	1124	3141	1139	3262	1193	3361	1214	3473	1230	3581	1243	3686	1251	3789	1254	3888	1254	3985	1249	4078	1240	4168	1227	4256
4900 [2312]	939	2341	971	2456	1000	2572	1027	2690	1053	2809	1075	2929	1096	3050	1115	3172	1131	3296	1145	3420	1203	3517	1222	3630	1236	3740	1247	3847	1253	3951	1254	4052	1252	4150	1245	4245	1234	4337	1219	4426
5000 [2359]	954	2472	985	2591	1013	2711	1039	2832	1063	2954	1085	3078	1105	3203	1122	3329	1137	3456	1150	3584	1213	3678	1229	3792	1242	3903	1250	4012	1254	4117	1254	4220	1249	4319	1240	4416	1228	4509	1210	4600
5100 [2407]	969	2608	998	2730	1026	2854	1051	2979	1074	3105	1094	3232	1113	3361	1129	3490	1143	3621	1203	3723	1222	3842	1236	3958	1247	4071	1253	4181	1255	4288	1252	4392	1246	4493	1235	4591	1220	4686	1149	5137

Drive Package	R					S					T							
Motor H.P. [W]	2 [1491.4]					2 [1491.4]					3 [2237.1]							
Blower Sheave	AK104x3/4					AK84x3/4					AK94x3/4							
Motor Sheave	1VP56x7/8					1VP56x7/8					1VP75x7/8							
Belt	A52					A49					A52							
Turns Open	0	1	2	3	4	5	0	1	2	3	4	5	0	1	2	3	4	5
RPM	894	862	829	797	765	732	1159	1206	1163	1124	1082	998	1254	1267	1230	1194	1158	1120

NOTES: 1. Factory sheave settings are shown in bold type.
2. Do not set motor sheave below minimum or maximum turns open shown.
3. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum External Static Pressure
4. Drive data shown is for horizontal airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.

[] Designates Metric Conversions

AIRFLOW PERFORMANCE RHCYA2120 — 10 TON [26.4 kW] — 60 Hz — SIDEFLOW (CONTINUED)

Airflow CFM [L/s]	AIRFLOW CORRECTION FACTORS *			COMPONENT AIRFLOW RESISTANCE		
	Total kBtu/h	Sensible kBtu/h	Power kW	Wet Coil	MERV 8 Filter	MERV 13 Filter
				Resistance Inches of Water [kPa]	Resistance Inches of Water	Resistance Inches of Water
3500 [1652]	0.98	0.92	0.99	0.07 [.02]	0.091	0.098
3600 [1699]	0.98	0.93	0.99	0.08 [.02]	0.097	0.103
3700 [1746]	0.99	0.95	1.00	0.08 [.02]	0.103	0.109
3800 [1793]	0.99	0.97	1.00	0.08 [.02]	0.109	0.115
3900 [1840]	1.00	0.99	1.00	0.08 [.02]	0.115	0.121
4000 [1888]	1.00	1.00	1.01	0.09 [.02]	0.121	0.127
4100 [1935]	1.00	1.02	1.01	0.09 [.02]	0.127	0.132
4200 [1982]	1.01	1.04	1.01	0.09 [.02]	0.133	0.138
4300 [2029]	1.01	1.06	1.01	0.10 [.02]	0.139	0.144
4400 [2076]	1.02	1.07	1.02	0.10 [.02]	0.145	0.150
4500 [2123]	1.02	1.09	1.02	0.10 [.02]	0.151	0.156
4600 [2171]	1.03	1.11	1.02	0.10 [.02]	0.157	0.161
4700 [2218]	1.03	1.12	1.03	0.11 [.03]	0.163	0.167
4800 [2265]	1.04	1.14	1.03	0.11 [.03]	0.169	0.173
4900 [2312]	1.04	1.16	1.03	0.11 [.03]	0.175	0.179
5000 [2359]	1.05	1.18	1.03	0.12 [.03]	0.181	0.185
5100 [2407]	1.05	1.19	1.04	0.12 [.03]	0.188	0.190

*Multiply correction factor times gross performance data — resulting sensible capacity cannot exceed total capacity.

[] Designates Metric Conversions

AIRFLOW PERFORMANCE RHCYA2121 — 10 TON [26.4 kW] — 60 Hz — SIDEFLOW

Air Flow CFM [L/s]		RHCYA21210 Voltage 208/230, 460 — 3 phase 60 Hz																																								
		External Static Pressure—Inches of Water [kPa]																																								
0.1 [.02]		0.2 [.05]		0.3 [.07]		0.4 [.10]		0.5 [.12]		0.6 [.15]		0.7 [.17]		0.8 [.20]		0.9 [.22]		1.0 [.25]		1.1 [.27]		1.2 [.30]		1.3 [.32]		1.4 [.35]		1.5 [.37]		1.6 [.40]		1.7 [.42]		1.8 [.45]		1.9 [.47]		2.0 [.50]				
RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W			
3200 [1510]	—	—	—	—	425	596	459	668	494	738	528	805	561	870	589	2285	618	2458	646	2700	673	3009	699	3386	724	3832	748	4345	766	4086	788	4450	810	4917	832	5487	853	6160	873	6936		
3300 [1557]	—	—	—	—	—	429	622	463	695	497	766	531	835	564	902	592	2317	621	2503	649	2757	676	3079	701	3469	726	3927	750	4453	768	4172	790	4554	812	5040	834	5628	854	6319	875	7114	
3400 [1604]	—	—	—	—	—	433	649	467	724	501	796	535	867	568	935	595	2355	624	2554	651	2820	678	3155	704	3557	728	4028	752	4566	770	4262	792	4662	814	5166	836	5772	856	6482	876	7295	
3500 [1652]	—	—	—	—	—	437	678	471	754	505	828	538	899	571	969	598	2397	627	2608	654	2887	680	3235	706	3650	730	4133	749	4039	772	4355	795	4773	816	5295	837	5920	858	6649	878	7480	
3600 [1699]	—	—	—	—	407	628	442	707	476	785	509	860	542	933	575	1004	601	2444	630	2668	657	2960	683	3319	708	3747	732	4242	752	4117	775	4451	797	4888	818	5429	839	6072	860	6819	880	7668
3700 [1746]	—	—	—	—	412	657	446	738	480	817	513	893	546	968	578	1040	605	2496	633	2732	660	3036	686	3409	711	3849	735	4357	754	4199	777	4551	799	5007	821	5566	841	6227	862	6992	882	7860
3800 [1793]	—	—	—	—	417	688	451	770	484	850	517	928	550	1004	582	1077	608	2553	636	2801	662	3118	688	3503	713	3955	737	4476	757	4285	779	4655	801	5129	823	5706	844	6386	864	7169	884	8056
3900 [1840]	—	—	—	—	422	720	455	803	489	885	521	964	554	1041	583	2421	611	2614	639	2875	665	3204	691	3602	716	4067	739	4600	759	4374	782	4763	804	5255	825	5850	846	6548	866	7350	886	8255
4000 [1888]	—	—	—	—	427	753	460	838	493	920	526	1001	558	1079	586	2474	615	2680	642	2954	668	3296	694	3705	718	4183	741	4729	762	4466	784	4873	806	5384	828	5998	848	6714	868	7534	888	8458
4100 [1935]	—	—	—	—	432	787	465	873	498	957	530	1039	562	1119	590	2533	618	2751	645	3037	671	3391	697	3814	721	4304	744	4862	765	4562	787	4988	809	5517	830	6149	851	6884	870	7722	890	8664
4200 [1982]	—	—	—	—	437	822	470	910	503	995	535	1079	566	1160	594	2596	622	2827	649	3125	675	3492	700	3927	724	4430	746	5000	768	4662	790	5106	812	5653	833	6304	853	7057	873	7914		
4300 [2029]	409	767	442	859	475	948	507	1034	539	1119	571	1201	598	2664	625	2907	652	3218	678	3597	703	4045	726	4560	749	5143	771	4765	793	5228	814	5793	835	6462	856	7234	875	8109	—	—		
4400 [2076]	415	804	448	896	480	987	512	1075	544	1161	575	1244	601	2736	629	2992	656	3316	681	3707	706	4167	729	4695	752	5291	774	4872	796	5353	817	5937	838	6624	858	7414	878	8308	—	—		
4500 [2123]	421	841	453	935	486	1027	517	1116	549	1204	580	1289	605	2813	633	3082	659	3418	685	3822	709	4295	732	4835	754	4587	777	4983	799	5482	820	6084	6790	861	7598	880	8510	—	—			

Drive Package	R				S				T			
Motor H.P. [W]	2 [3728.5]				2 [3728.5]				3 [3728.5]			
Blower Sheave	BK130H				BK120H				BK105H			
Motor Sheave	1VL40 7/8"				IVP50 7/8"				IVP50 7/8"			
Belt	B52				B52				B50			
Turns Open	0	1	2	3	4	5	0	1	2	3	4	5
RPM	563	541	517	490	463	646	746	939	906	874	840	892

NOTES: 1. Factory sheave settings are shown in bold type.
2. Do not set motor sheave below minimum or maximum turns open shown.
3. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum External Static Pressure
4. Drive data shown is for horizontal airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.

[] Designates Metric Conversions

AIRFLOW PERFORMANCE RHCYA2121 — 10 TON [26.4 kW] — 60 Hz — SIDEFLOW (CONTINUED)

Airflow CFM [L/s]	AIRFLOW CORRECTION FACTORS *			COMPONENT AIRFLOW RESISTANCE		
	Total kBtu/h	Sensible kBtu/h	Power kW	Wet Coil	MERV 8 Filter	MERV 13 Filter
				Resistance Inches of Water [kPa]	Resistance Inches of Water	Resistance Inches of Water
3500 [1652]	0.98	0.92	0.99	0.07 [.02]	0.091	0.098
3600 [1699]	0.98	0.93	0.99	0.08 [.02]	0.097	0.103
3700 [1746]	0.99	0.95	1.00	0.08 [.02]	0.103	0.109
3800 [1793]	0.99	0.97	1.00	0.08 [.02]	0.109	0.115
3900 [1840]	1.00	0.99	1.00	0.08 [.02]	0.115	0.121
4000 [1888]	1.00	1.00	1.01	0.09 [.02]	0.121	0.127
4100 [1935]	1.00	1.02	1.01	0.09 [.02]	0.127	0.132
4200 [1982]	1.01	1.04	1.01	0.09 [.02]	0.133	0.138
4300 [2029]	1.01	1.06	1.01	0.10 [.02]	0.139	0.144
4400 [2076]	1.02	1.07	1.02	0.10 [.02]	0.145	0.150
4500 [2123]	1.02	1.09	1.02	0.10 [.02]	0.151	0.156
4600 [2171]	1.03	1.11	1.02	0.10 [.02]	0.157	0.161
4700 [2218]	1.03	1.12	1.03	0.11 [.03]	0.163	0.167
4800 [2265]	1.04	1.14	1.03	0.11 [.03]	0.169	0.173
4900 [2312]	1.04	1.16	1.03	0.11 [.03]	0.175	0.179
5000 [2359]	1.05	1.18	1.03	0.12 [.03]	0.181	0.185
5100 [2407]	1.05	1.19	1.04	0.12 [.03]	0.188	0.190

*Multiply correction factor times gross performance data — resulting sensible capacity cannot exceed total capacity.

[] Designates Metric Conversions

AIRFLOW PERFORMANCE RHCYA2150 — 12.5 TON [44 kW] — 60 Hz — SIDEFLOW

RHCYA2150		Voltage 208/230, 460, 575 — 3 phase 60 Hz																								
Air Flow CFM [L/s]		External Static Pressure—Inches of Water [kPa]																								
		0.1 [.02]												0.2 [.05]												
		RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	
4200 [1982]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
4300 [2029]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
4400 [2076]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
4500 [2123]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
4600 [2171]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
4700 [2218]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
4800 [2265]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
4900 [2312]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
5000 [2359]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
5100 [2407]	484	1259	506	1317	528	1384	551	1458	574	1542	598	1633	622	1733	646	1841	668	1925	690	2022	713	2123	737	2228	755	2151
5200 [2454]	491	1311	513	1372	534	1441	557	1518	579	1604	603	1697	627	1800	651	1910	672	1990	694	2088	717	2189	740	2295	758	2217
5300 [2501]	498	1365	519	1428	541	1500	563	1580	585	1668	608	1764	632	1869	656	1982	676	2058	698	2156	721	2258	744	2365	761	2286
5400 [2548]	505	1422	526	1488	547	1562	569	1644	591	1735	614	1834	637	1941	660	2033	681	2128	702	2226	724	2329	747	2437	765	2357
5500 [2595]	513	1481	533	1550	554	1626	575	1711	597	1804	619	1906	642	2015	665	2105	685	2200	706	2299	728	2403	751	2511	768	2431
5600 [2643]	520	1543	540	1614	560	1693	581	1780	603	1876	625	1980	647	2092	670	2179	690	2275	711	2375	732	2479	752	2397	772	2508
5700 [2690]	527	1607	547	1681	567	1762	588	1852	609	1950	630	2057	652	2171	674	2255	694	2352	715	2452	737	2557	756	2474	775	2588
5800 [2737]	535	1674	554	1750	574	1834	594	1926	615	2027	636	2136	658	2253	679	2334	699	2431	720	2532	741	2638	759	2555	779	2670

Drive Package	R												S												T											
Motor H.P. [W]	2 [1491.4]												3 [2237.1]												5 [2237.1]											
Blower Sheave	BK120SP 1.0"												BK120SP 1.0"												BK100SP											
Motor Sheave	1VL44 7/8												1VL50 7/8												1VP50 1 1/8											
Belt	B52												B52												B46											
Turns Open	0	1	2	3	4	5	0	1	2	3	4	5	0	1	2	3	4	5	0	1	2	3	4	5	0	1	2	3	4	5	0	1	2	3	4	5
RPM	650	630	606	579	551	522	746	723	699	644	617	597	644	623	600	577	554	531	508	485	462	439	416	393	644	623	600	577	554	531	508	485	462	439	416	393

- NOTES: 1. Factory sheave settings are shown in bold type.
2. Do not set motor sheave below minimum or maximum turns open shown.
3. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum External Static Pressure
4. Drive data shown is for horizontal airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.

[] Designates Metric Conversions

AIRFLOW PERFORMANCE RHCYA2150 — 12.5 TON [44 kW] — 60 Hz — SIDEFLOW (CONTINUED)

Airflow CFM [L/s]	AIRFLOW CORRECTION FACTORS *			COMPONENT AIRFLOW RESISTANCE		
	Total kBtu/h	Sensible kBtu/h	Power kW	Wet Coil	MERV 8 Filter	MERV 13 Filter
				Resistance Inches of Water [kPa]	Resistance Inches of Water	Resistance Inches of Water
3500 [1652]	0.98	0.92	0.99	0.07 [02]	0.091	0.098
3600 [1699]	0.98	0.93	0.99	0.08 [02]	0.097	0.103
3700 [1746]	0.99	0.95	1.00	0.08 [02]	0.103	0.109
3800 [1793]	0.99	0.97	1.00	0.08 [02]	0.109	0.115
3900 [1840]	1.00	0.99	1.00	0.08 [02]	0.115	0.121
4000 [1888]	1.00	1.00	1.01	0.09 [02]	0.121	0.127
4100 [1935]	1.00	1.02	1.01	0.09 [02]	0.127	0.132
4200 [1982]	1.01	1.04	1.01	0.09 [02]	0.133	0.138
4300 [2029]	1.01	1.06	1.01	0.10 [02]	0.139	0.144
4400 [2076]	1.02	1.07	1.02	0.10 [02]	0.145	0.150
4500 [2123]	1.02	1.09	1.02	0.10 [02]	0.151	0.156
4600 [2171]	1.03	1.11	1.02	0.10 [02]	0.157	0.161
4700 [2218]	1.03	1.12	1.03	0.11 [03]	0.163	0.167
4800 [2265]	1.04	1.14	1.03	0.11 [03]	0.169	0.173
4900 [2312]	1.04	1.16	1.03	0.11 [03]	0.175	0.179
5000 [2359]	1.05	1.18	1.03	0.12 [03]	0.181	0.185
5100 [2407]	1.05	1.19	1.04	0.12 [03]	0.188	0.190

*Multiply correction factor times gross performance data — resulting sensible capacity cannot exceed total capacity.

[] Designates Metric Conversions

AIRFLOW PERFORMANCE RHCYA2180 — 15 TON [52.7 kW] — 60 Hz — SIDEFLOW

RHCYA2180		Voltage 208/230, 460, 575 — 3 phase 60 Hz																							
Air Flow CFM [L/s]		External Static Pressure—Inches of Water [kPa]																							
		0.1 [0.02]												0.2 [0.05]											
		RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W
4750 [2241]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4850 [2289]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4950 [2336]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5050 [2383]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5150 [2430]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5250 [2477]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5350 [2525]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5450 [2572]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5550 [2619]	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5650 [2666]	526	1605	547	1673	569	1753	590	1845	613	1949	636	2064	659	2191	677	2233	697	2334	718	2440	737	2550	763	2576	783
5750 [2713]	533	1664	554	1736	575	1820	597	1916	619	2023	642	2142	661	2208	682	2307	702	2410	722	2519	742	2632	768	2654	787
5850 [2760]	541	1726	561	1802	582	1890	604	1989	626	2100	648	2222	666	2282	687	2383	707	2489	727	2600	746	2715	772	2736	791
5950 [2808]	548	1791	568	1870	589	1961	611	2064	633	2179	655	2305	671	2357	692	2461	712	2569	732	2683	751	2801	776	2819	796
6050 [2855]	556	1857	576	1940	596	2035	618	2142	639	2260	662	2390	677	2435	697	2541	717	2652	736	2768	755	2889	781	2906	800
6150 [2902]	563	1926	583	2013	604	2111	625	2221	646	2343	661	2411	682	2514	702	2623	722	2737	741	2855	766	2889	785	2995	804
6250 [2949]	571	1997	591	2088	611	2190	632	2303	653	2429	667	2490	688	2596	708	2707	727	2823	746	2944	771	2979	790	3087	809
6350 [2996]	579	2070	599	2165	619	2270	639	2388	661	2517	673	2571	693	2680	713	2794	732	2912	751	3036	776	3071	795	3181	813

Drive Package	R						S						T					
Motor H.P. [W]	2 [1491.4]						3 [2237.1]						5 [2237.1]					
Blower Sheave	BK120SP 1.0"						BK120SP 1.0"						BK100SP					
Motor Sheave	1VL44 7/8"						1VL50 7/8"						1VP50 1-1/8"					
Belt	B52						B52						B45					
Turns Open	0	1	2	3	4	5	0	1	2	3	4	5	0	1	2	3	4	5
RPM	654	632	609	581	555	527	751	729	705	678	650	622	903	874	840	804	768	731

- NOTES: 1. Factory sheave settings are shown in bold type.
2. Do not set motor sheave below minimum or maximum turns open shown.
3. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum External Static Pressure
4. Drive data shown is for horizontal airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.

[] Designates Metric Conversions

AIRFLOW PERFORMANCE RHCYA2180 — 15 TON [52.7 kW] — 60 Hz — SIDEFLOW (CONTINUED)

Airflow CFM [L/s]	AIRFLOW CORRECTION FACTORS *			COMPONENT AIRFLOW RESISTANCE		
	Total kBtu/h	Sensible kBtu/h	Power kW	Wet Coil Resistance Inches of Water [kPa]	MERV 8 Filter Resistance Inches of Water	MERV 13 Filter Resistance Inches of Water
4750 [2241]	1.03	1.13	1.03	0.11 [.03]	0.166	0.170
4850 [2289]	1.04	1.15	1.03	0.11 [.03]	0.172	0.176
4950 [2336]	1.04	1.17	1.03	0.11 [.03]	0.178	0.182
5050 [2383]	1.05	1.19	1.03	0.12 [.03]	0.185	0.188
5150 [2430]	1.05	1.20	1.04	0.12 [.03]	0.191	0.193
5250 [2477]	1.06	1.22	1.04	0.12 [.03]	0.197	0.199
5350 [2525]	1.06	1.24	1.04	0.13 [.03]	0.203	0.205
5450 [2572]	1.07	1.25	1.05	0.13 [.03]	0.209	0.211
5550 [2619]	1.07	1.27	1.05	0.13 [.03]	0.215	0.217
5650 [2666]	1.08	1.29	1.05	0.13 [.03]	0.221	0.222
5750 [2713]	1.08	1.31	1.05	0.14 [.03]	0.227	0.228
5850 [2760]	1.08	1.32	1.06	0.14 [.03]	0.233	0.234
5950 [2808]	1.09	1.34	1.06	0.14 [.03]	0.239	0.240
6050 [2855]	1.09	1.36	1.06	0.15 [.04]	0.245	0.246
6150 [2902]	1.10	1.38	1.07	0.15 [.04]	0.251	0.251
6250 [2949]	1.10	1.39	1.07	0.15 [.04]	0.257	0.257
6350 [2996]	1.11	1.41	1.07	0.15 [.04]	0.263	0.263

*Multiply correction factor times gross performance data — resulting sensible capacity cannot exceed total capacity.

[] Designates Metric Conversions

AIRFLOW PERFORMANCE RHCYA2240 — 20 TON [52.7 kW] — 60 Hz — SIDEFLOW

Air Flow CFM [L/s]		RHCYA2090 Voltage 208/230, 460, 575 — 3 phase 60 Hz																																						
		External Static Pressure—Inches of Water [kPa]																																						
		0.1 [0.02]	0.2 [0.05]	0.3 [0.07]	0.4 [0.10]	0.5 [0.12]	0.6 [0.15]	0.7 [0.17]	0.8 [0.20]	0.9 [0.22]	1.0 [0.25]	1.1 [0.27]	1.2 [0.30]	1.3 [0.32]	1.4 [0.35]	1.5 [0.37]	1.6 [0.40]	1.7 [0.42]	1.8 [0.45]	1.9 [0.47]	2.0 [0.50]																			
RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W			
6400 [3020]	575	1734	602	1845	628	1960	653	2078	677	2199	700	2325	722	2453	744	2585	764	2721	783	2860	783	3175	799	3249	816	3335	834	3434	852	3544	872	3667	892	3802	913	3949	935	4108	958	4280
6550 [3091]	585	1834	611	1950	637	2068	662	2190	686	2316	708	2445	730	2578	751	2714	770	2854	789	2997	790	3296	806	3378	823	3473	841	3579	859	3697	879	3828	899	3970	921	4125	943	4292	966	4471
6700 [3162]	595	1941	621	2060	646	2182	671	2309	694	2438	716	2571	737	2708	758	2848	777	2992	795	3139	797	3426	813	3516	830	3618	848	3732	867	3858	887	3996	907	4147	929	4309	951	4484	975	4879
6850 [3232]	605	2052	631	2175	656	2302	679	2432	702	2566	724	2703	745	2844	765	2988	784	3136	788	3479	804	3564	820	3662	837	3771	856	3893	875	4027	895	4173	915	4331	937	4502	959	4684	981	5050
7000 [3303]	615	2169	640	2296	665	2427	688	2561	711	2699	732	2840	752	2985	772	3133	790	3285	795	3617	811	3710	828	3815	845	3933	864	4062	883	4204	903	4358	924	4524	946	4702	968	4892	987	5230
7150 [3374]	625	2291	650	2422	674	2557	697	2695	719	2837	740	2982	760	3131	779	3283	797	3439	803	3763	819	3864	836	3977	853	4102	872	4239	891	4389	912	4550	933	4724	955	4910	975	5275	993	5419
7300 [3445]	635	2419	660	2554	683	2693	706	2835	727	2981	748	3130	767	3283	786	3439	795	3821	811	3917	827	4026	844	4147	862	4280	880	4425	900	4582	920	4751	942	4933	964	5126	982	5471	999	5617
7450 [3515]	645	2552	669	2691	692	2834	715	2980	736	3130	756	3284	775	3440	793	3601	803	3975	819	4080	835	4196	852	4324	870	4465	889	4618	909	4783	930	4960	951	5149	971	5325	988	5676	1005	5824
7600 [3586]	655	2691	679	2834	702	2981	723	3131	744	3285	764	3442	783	3603	797	4038	812	4138	827	4250	844	4374	861	4510	879	4659	899	4819	919	4992	939	5177	961	5374	978	5738	995	5890	1012	6040
7750 [3657]	665	2835	688	2982	711	3133	732	3287	752	3445	772	3606	790	3771	805	4201	820	4308	836	4428	853	4560	870	4704	889	4860	908	5028	928	5209	949	5402	971	5606	986	5960	1002	6113	1018	6264
7900 [3728]	675	2984	698	3135	720	3290	741	3449	761	3610	780	3776	798	3945	814	4371	829	4487	845	4614	862	4754	880	4906	898	5070	918	5246	938	5434	959	5634	977	6032	993	6190	1009	6345	1025	6497
8050 [3799]	685	3139	708	3294	729	3453	750	3615	769	3781	788	3951	809	4439	823	4550	838	4673	855	4809	872	4956	890	5116	908	5287	928	5471	949	5667	970	5875	985	6269	1001	6429	1017	6586	1032	6739
8200 [3869]	695	3299	717	3458	739	3621	759	3788	778	3958	796	4131	818	4618	832	4737	848	4868	864	5011	882	5166	900	5333	919	5513	939	5704	959	5908	977	6351	993	6516	1009	6677	1024	6835	1039	6990
8350 [3940]	705	3465	727	3628	748	3795	767	3965	786	4139	813	4691	827	4805	842	4932	858	5070	874	5221	892	5384	910	5559	929	5746	949	5946	970	6157	985	6605	1001	6771	1017	6934	1032	7093	1047	7250
8500 [4011]	716	3636	737	3803	757	3974	776	4149	794	4326	823	4878	837	5000	852	5135	868	5281	885	5440	903	5610	921	5793	940	5988	961	6195	978	6698	994	6868	1010	7035	1025	7199	1040	7360	1054	7518
8650 [4082]	726	3812	747	3994	766	4159	785	4337	819	4956	833	5074	847	5204	863	5346	879	5500	896	5666	913	5844	932	6035	952	6238	972	6453	988	6968	1003	7140	1018	7308	1033	7474	1048	7636	1062	7795
8800 [4153]	736	3994	756	4169	776	4348	794	4531	830	5151	843	5277	858	5415	873	5564	890	5726	907	5900	925	6087	944	6285	963	6495	982	7070	997	7247	1012	7420	1027	7590	1042	7757	1056	7921	—	—
8950 [4223]	746	4181	766	4361	785	4544	827	5234	840	5355	854	5488	869	5634	884	5791	901	5961	918	6143	936	6337	955	6543	976	7175	992	7357	1007	7534	1022	7709	1036	7881	1051	8049	—	—	—	—
9100 [4294]	756	4374	776	4558	794	4745	838	5438	851	5567	865	5708	880	5861	896	6026	912	6204	930	6393	948	6595	967	6809	987	7469	1002	7652	1017	7831	1031	8007	1046	8180	1059	8350	—	—	—	—
9250 [4365]	766	4572	785	4760	836	5525	848	5650	862	5786	876	5935	891	6096	907	6269	924	6454	942	6652	960	6861	982	7585	997	7772	1012	7956	1027	8136	1041	8314	1055	8488	—	—	—	—	—	—
9400 [4436]	776	4776	795	4967	847	5738	860	5870	873	6014	888	6171	903	6339	919	6520	936	6713	954	6918	978	7703	994	7894	1008	8083	1023	8268	1037	8451	1051	8630	—	—	—	—	—	—	—	—

Drive Package	R					S					T							
Motor H.P. [W]	5 [3728.5]					7.5 [2237.1]					7.5 [2237.1]							
Blower Sheave	BK130H					2BK110 2SS 1.0"					2BK100 2SS 1.0"							
Motor Sheave	1VP56-1 1/8					2VL60 1-3/8					2VL60 1-3/8							
Belt	B51					B48					B46							
Turns Open	0	1	2	3	4	5	0	1	2	3	4	5	0	1	2	3	4	5
RPM	563	541	517	699	673	646	970	939	906	874	840	806	1063	1032	997	963	927	892

NOTES: 1. Factory sheave settings are shown in bold type.
2. Do not set motor sheave below minimum or maximum turns open shown.
3. Re-adjustment of sheave required to achieve rated airflow at AHRl minimum External Static Pressure
4. Drive data shown is for horizontal airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.

[] Designates Metric Conversions

AIRFLOW PERFORMANCE RHCYA2240 — 20 TON [52.7 kW] — 60 Hz — SIDEFLOW (CONTINUED)

Airflow CFM [L/s]	AIRFLOW CORRECTION FACTORS *			COMPONENT AIRFLOW RESISTANCE		
	Total kBtu/h	Sensible kBtu/h	Power kW	Wet Coil	MERV 8 Filter	MERV 13 Filter
				Resistance Inches of Water [kPa]	Resistance Inches of Water	Resistance Inches of Water
6200 [2926]	1.10	1.38	1.07	0.15 [.04]	0.254	0.254
6300 [2973]	1.11	1.40	1.07	0.15 [.04]	0.260	0.260
6400 [3020]	1.11	1.42	1.07	0.16 [.04]	0.266	0.266
6500 [3067]	1.11	1.44	1.08	0.16 [.04]	0.272	0.272
6600 [3114]	1.12	1.45	1.08	0.16 [.04]	0.278	0.277
6700 [3162]	1.12	1.47	1.08	0.16 [.04]	0.284	0.283
6800 [3209]	1.13	1.49	1.08	0.17 [.04]	0.290	0.289
6900 [3256]	1.13	1.51	1.09	0.17 [.04]	0.296	0.295
7000 [3303]	1.14	1.52	1.09	0.17 [.04]	0.302	0.301
7100 [3350]	1.14	1.54	1.09	0.18 [.04]	0.308	0.306
7200 [3398]	1.15	1.56	1.10	0.18 [.04]	0.314	0.312
7300 [3445]	1.15	1.57	1.10	0.18 [.04]	0.320	0.318
7400 [3492]	1.16	1.59	1.10	0.18 [.04]	0.326	0.324
7500 [3539]	1.16	1.61	1.10	0.19 [.05]	0.332	0.330
7600 [3586]	1.16	1.63	1.11	0.19 [.05]	0.339	0.335
7700 [3633]	1.17	1.64	1.11	0.19 [.05]	0.345	0.341
7800 [3681]	1.17	1.66	1.11	0.19 [.05]	0.351	0.347

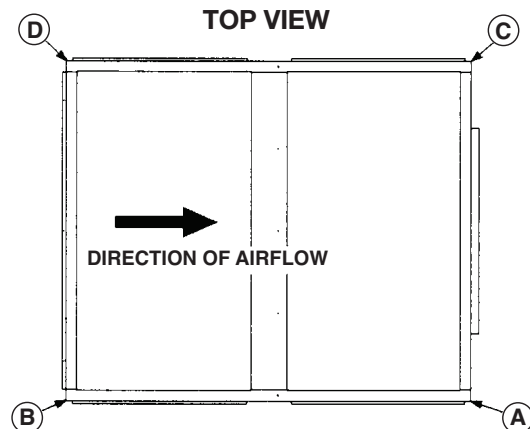
* Multiply correction factor times gross performance data — resulting sensible capacity cannot exceed total capacity.

[] Designates Metric Conversions

RHCYA2 DIMENSIONAL DATA 7.5 AND 10 NOMINAL TONS [26.4 AND 35.2 kW]

REFRIGERANT STUB SIZES, IN. [mm]				
MODEL	DUAL LIQ.	DUAL SUC.	SINGLE LIQ.	SINGLE SUC.
090	1/2, 1/2 [13, 13]	7/8, 7/8 [22, 22]	1/2 [13]	1 1/8 [29]
120	1/2, 1/2 [13, 13]	7/8, 7/8 [22, 22]	5/8 [16]	1 3/8 [35]

MODEL	CORNER WEIGHTS LBS. [kg]				OPERATING WEIGHT	SHIPPING WEIGHT
	A	B	C	D		
090	75.75 [34.36]	133.31 [60.49]	106.04 [48.10]	93.92 [42.60]	409 [185.52]	429 [194.60]
120	75.75 [34.36]	133.31 [60.49]	106.04 [48.10]	93.92 [42.60]	409 [185.52]	429 [194.60]

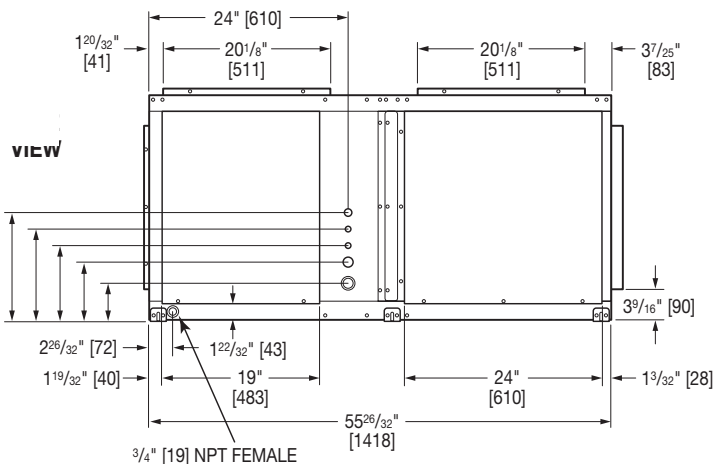


RETURN AIR OPENINGS = 47 3/8" [1203] x 19 7/8" [505] HEIGHT

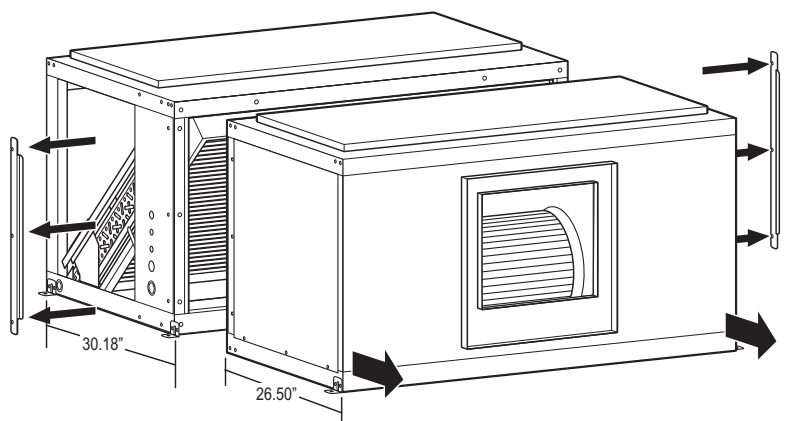
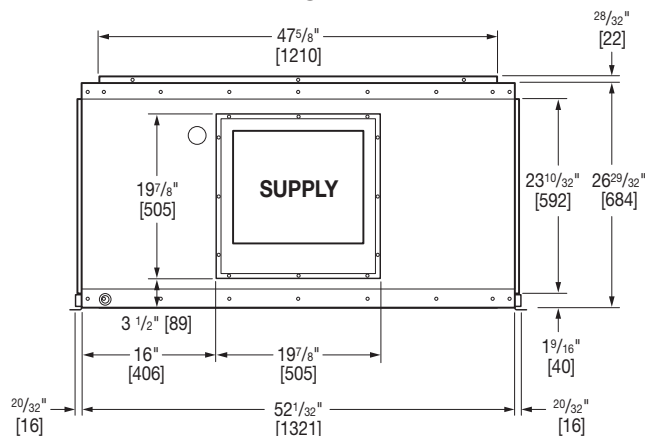
RETURN AIR OPENINGS = 47 5/8" [1203] WIDTH x 19 7/8" [505] HEIGHT

SIDE VIEW

KNOCK-OUTS BOTH SIDES	
7/8" [22]	12 13/16" [325]
5/8" [16]	10 13/16" [275]
5/8" [16]	8 13/16" [224]
1 1/4" [32]	6 13/16" [173]
1 1/4" x 1 3/4" [32 x 44]	4 9/16" [110]



FRONT VIEW



ST-A1372-29-01

ST-A1372-16-01

*Drain connections are provided on both sides of the drain pan. The drain can be connected to either side of the drain pan, but not both. The drain must be trapped.

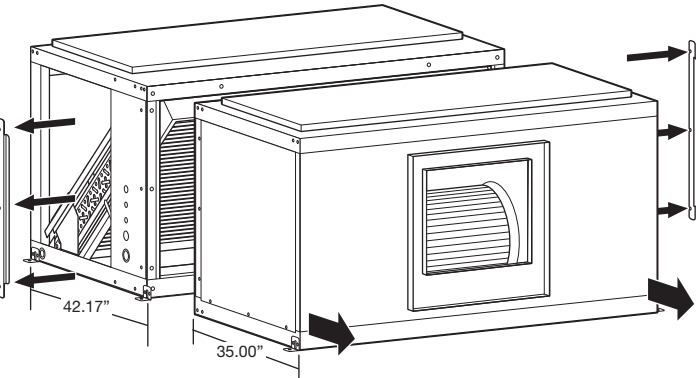
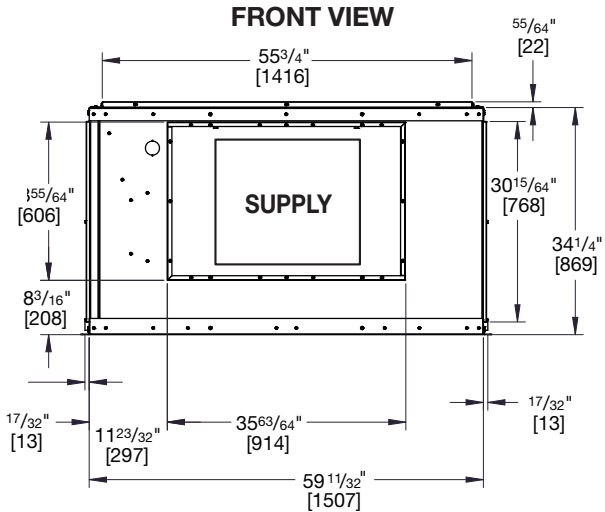
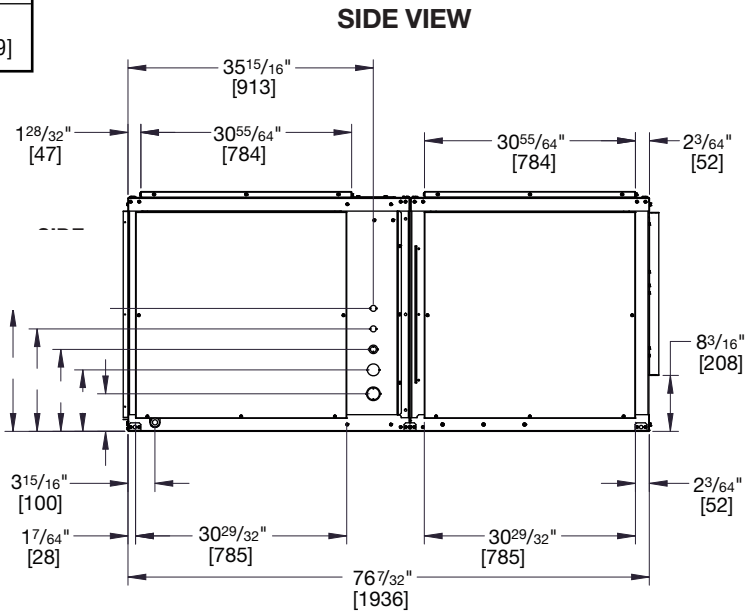
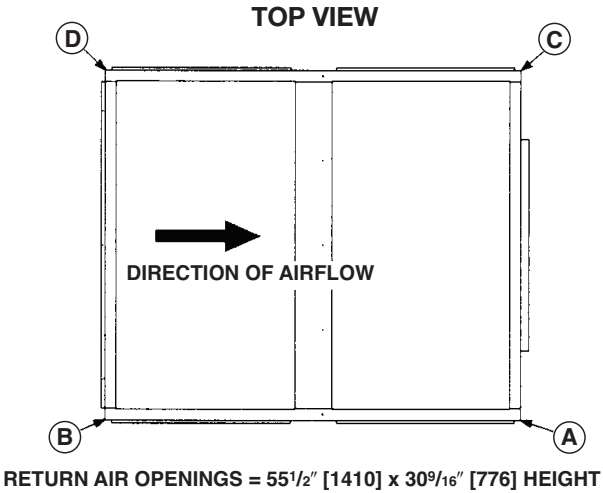
[] Designates Metric Conversions

RHCYA2 DIMENSIONAL DATA 10, 12.5, 15 & 20 NOMINAL TONS
[35.2, 44.0, 52.8 & 70.3 KW]

REFRIGERANT STUB SIZES, IN. [mm]				
MODEL	DUAL LIQ.	DUAL SUC.	SINGLE LIQ.	SINGLE SUC.
121	1/2, 1/2 [13, 13]	1 1/8, 1 1/8 [29, 29]	5/8 [16]	1 5/8 [41]
150	1/2, 1/2 [13, 13]	1 1/8, 1 1/8 [29, 29]	5/8 [16]	1 5/8 [41]
180	5/8, 5/8 [16, 16]	1 3/8, 1 3/8 [35, 35]	7/8 [22]	1 5/8 [41]
240	5/8, 5/8 [16, 16]	1 3/8, 1 3/8 [35, 35]	7/8 [22]	1 5/8 [41]

MODEL	CORNER WEIGHTS LBS. [kg]				OPERATING WEIGHT	SHIPPING WEIGHT
	A	B	C	D		
121	139.42 [63.24]	184.62 [83.74]	79.81 [36.20]	171.15 [77.63]	575 [260.82]	585 [265.35]
150	139.42 [63.24]	184.62 [83.74]	79.81 [36.20]	171.15 [77.63]	575 [260.82]	595 [269.89]
180	227.08 [103.0]	155.93 [70.73]	159.83 [72.50]	147.16 [66.75]	690 [312.98]	710 [322.05]
240	230.37 [104.49]	158.19 [71.75]	162.15 [73.55]	149.29 [67.72]	700 [317.52]	720 [326.59]

KNOCK-OUTS BOTH SIDES	
7/8" [22]	18" [457]
7/8" [22]	15" [381]
1 1/4" x 7/8" [32 x 22]	12" [305]
1 3/4" [44]	9" [229]
2" x 1 3/4" [51 x 44]	5 1/2" [140]



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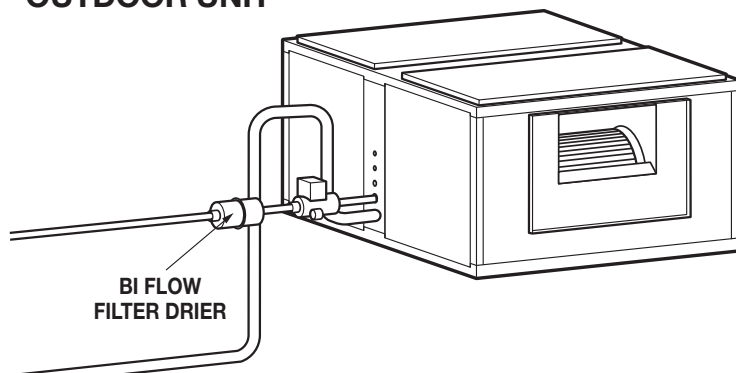
*Drain connections are provided on both sides of the drain pan. The drain can be connected to either side of the drain pan, but not both. The drain must be trapped.

ST-A1372-41-01

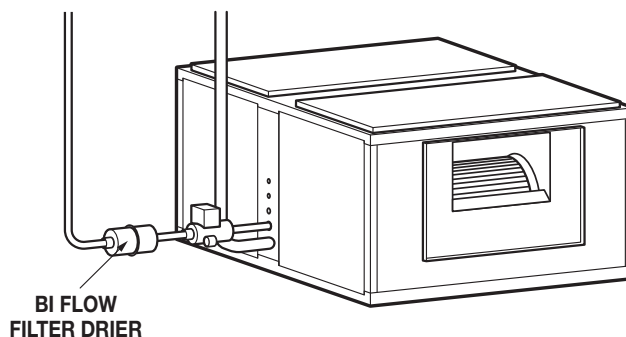
[] Designates Metric Conversions

TYPICAL PIPING RECOMMENDATIONS

INDOOR COIL ABOVE OUTDOOR UNIT



INDOOR COIL BELOW OUTDOOR UNIT



NOTE: PIPING ACCESSORIES SHOWN SHOULD BE MOUNTED AS CLOSE TO AIR HANDLER UNIT AS POSSIBLE

REFRIGERANT PIPING

1. Size liquid line for no more than 50 PSIG pressure drop.
2. Size suction lines for no more than 2°F loss, which corresponds to approximately 5 PSIG pressure drop.
3. When evaporator is installed below condensing unit, do not exceed the recommend-ed suction line O.D. This will insure adequate velocities for proper oil return.
4. Install strainer-drier and sight glass in liquid line.
5. Pitch all horizontal suction lines downward in the direction of flow.
6. When making up refrigerant piping, take every precaution to prevent dirt and moisture from entering the piping.
7. Locate the condensing unit and evaporator(s) as close together as possible to minimize piping runs.
8. A liquid line solenoid installed just ahead of the expansion valve is recommended.
9. See tables below for general refrigerant line sizing and equivalent length of valves and fittings.
10. Refer to the vapor and liquid line selection procedure and charts in the outdoor unit installation manual or literature for more specific refrigerant line sizing information. When dual outdoor units are matched with the air-handler using dual circuits, size the refrigerant lines for each system independently.

CONDENSATE DRAIN PIPING

- Consult local codes or ordinances for specific requirements regarding condensate drain.
- Condensate drain is open to atmosphere and must be trapped. Trap must be at least 3 inches [76 mm] deep and made of flexible material or fabricated to prevent freeze-up.
- Pitch the drain line at least 1/4 inch [6 mm] per foot away from the drain pan.
- Do not reduce the drain line size from the connection size provided on the unit.
- Do not connect the drain line to a closed sewer line.

RECOMMENDED VAPOR AND LIQUID LINE SIZES FOR VARIOUS LENGTHS OF RUN				
LINEAR LENGTH (FT.) [m]	LIQUID LINE O.D. SIZES (IN.) [mm]		VAPOR LINE O.D. SIZES (IN.) [mm]	
	090	120	090	120
0-40 [0-12.19]	1/2 [12.7]	5/8 [15.88]	1 1/8 [28.58]	1 3/8 [34.93]
41-90 [12.5-27.43]	1/2 [12.7]	5/8 [15.88]	1 3/8 [34.93]*	1 3/8 [34.93]*

***NOTE:** With the outdoor unit located below the indoor air handler, all vertical vapor lines must not exceed 1 1/8" [28.58 mm] O.D.

[] Designates Metric Conversions

TYPICAL PIPING RECOMMENDATIONS

All models are provided with dual circuit coil manifolds that can be configured for dual condensing unit applications. The coil is circuited to provide full face coil operation for each system. Knock-outs are provided on both sides of the unit to allow the refrigerant tubing to enter from either side. Remove the rubber grommets from the parts bag and install them in the appropriate

holes prior to running the line set tubing into the cabinet to seal around and protect the tubing. Copper fittings are provided in the parts bag to allow the two refrigerant circuits to be tied together for single condensing unit applications. The fittings may be installed to allow the tubing to enter the unit from either side.

REQUIRED OUNCES OF R-454B CHARGE PER FOOT OF TUBING									
Tube Size		Liquid Tube		Vapor Tube		Total		Internal Volume	
OD (in)	OD (mm)	oz/ft	kg/m	oz/ft	kg/m	oz/ft	kg/m	ft ³ /ft	m ³ /m
3/8	9.5	0.5	0.05	0.0	0.00	0.5	0.05	0.000555	0.000048
1/2	12.7	1.0	0.09	0.0	0.00	1.0	0.09	0.001080	0.000093
5/8	15.9	1.5	0.14	0.1	0.00	1.6	0.15	0.001730	0.000149
3/4	19.1	2.2	0.21	0.1	0.01	2.3	0.21	0.002480	0.000214
7/8	22.2	3.1	0.29	0.1	0.01	3.2	0.30	0.003430	0.000296
1	25.4	4.0	0.37	0.1	0.01	4.2	0.39	0.004500	0.000389
1 1/8	28.6	5.2	0.49	0.2	0.02	5.4	0.50	0.005850	0.000503
1 1/4	31.8	6.5	0.60	0.2	0.02	6.7	0.62	0.007210	0.000623
1 3/8	34.9	7.3	0.68	0.2	0.02	7.6	0.70	0.008165	0.000759
1 1/2	38.1	9.4	0.87	0.3	0.03	9.7	0.90	0.010500	0.000910
1 5/8	41.3	11.2	1.04	0.4	0.03	11.6	1.08	0.012500	0.001080
2 1/8	54.0	19.5	1.82	0.6	0.06	20.2	1.88	0.021800	0.001880

SEPARABLE CABINET

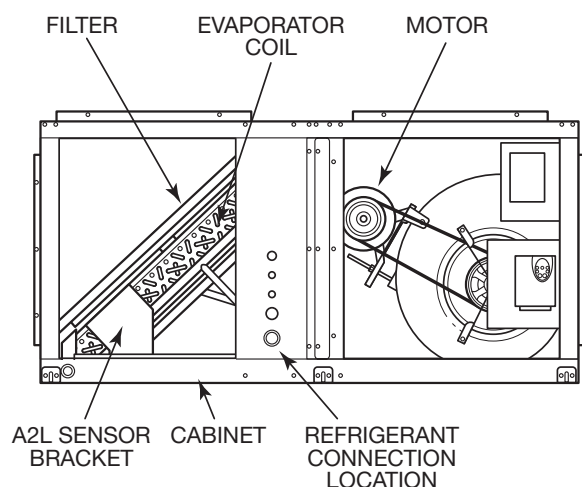
For ease of installation into the indoor space, the air handler unit is separable. If required to move into the space, follow the steps below to separate and reconnect the two halves of the air handler.

NOTE: Separation and reconnection should be completed on a flat, stable surface. Do not attempt while unit is suspended from the ceiling.

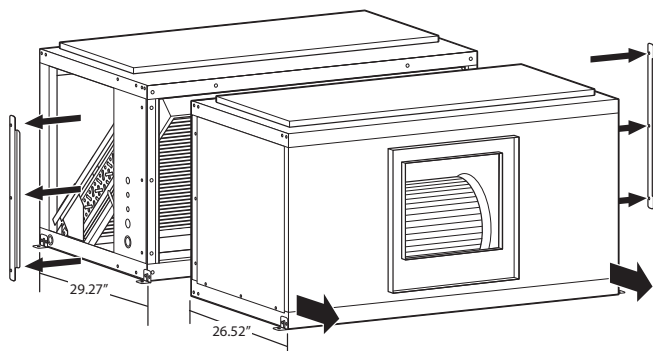
1. Unscrew and remove the two metal brackets on each side of the air handler.
2. Remove access panels.
3. Remove the 3/8 inch bolts from the frame. The unit can now be pulled apart.
4. Move the air handler into place.
5. If gasketing is damaged, use included replacement gasketing to repair the unit.
6. Align the two sides. Reattach the metal brackets and access panels—these brackets should help align the connecting holes—then insert and fasten the 3/8 inch bolts. The unit can now be reconnected and installation and set-up can commence.

REFRIGERANT LEAK DETECTION

In the event of a detected refrigerant leak, the refrigerant leak detection sensor will trigger a mitigation procedure that shuts off the compressor(s) and turns on the indoor blower motor.



UNIT SHOWN WITH SIDE PANELS REMOVED FOR COIL CONNECTIONS AND AIR FILTER ACCESS.



Guide Specifications RHCYA-090-240

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AC AIR HANDLER UNIT

HVAC Guide Specifications

Size Range: 7.5 to 20 Nominal Tons

1.01 Quality Assurance:

- A. Unit shall be rated in accordance with AHRI Standard 340/360.
- B. Unit construction shall comply with ANSI/ASHRAE 15 safety code latest revision and comply with NEC.
- C. Unit shall be constructed in accordance with UL 60335-2-40 standard and shall carry the UL label.
- D. Unit cabinet shall be capable of withstanding 500 hour salt spray exposure per ASTM B117 (scribed specimen).
- E. Unit shall be subjected to run test on the assembly line.
- F. Unit meets ASHRAE 90.1 2022 minimum efficiency requirements.
- G. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation.
- H. Unit shall be subjected to a completely automated run test on the assembly line. The data for each unit will be stored at the factory and must be available upon request.

1.02 Manufacturer Qualifications:

- A. Unit shall be manufactured in a facility registered to ISO 9001:2015 manufacturing quality standard.

1.03 Installer Qualifications:

- A. The installer shall be trained to install and service equipment with A2L refrigerants.

1.04 Delivery, Storage, and Handling:

Unit shall be shipped as single package only, and shall be stored and handled according to unit manufacturer's recommendations.

- A. Unit shall be stored and handled per manufacturer's recommendations.
- B. Refer to the manufacturer's installation and operation manual for guidance on how to properly lift the unit.
- C. Unit shall only be stored or positioned in the upright position.

1.05 Unit Cabinet:

- A. Unit cabinet shall be constructed of galvanized steel and coated with a pre-painted baked enamel finish.
- B. Cabinets shall be insulated with 1/2" [13 mm] by 1-1/2 lbs. [.68 kg] density fiberglass insulation coated with neoprene and bonded to the cabinet surface with a U.L. approved adhesive. Insulation shall have fire retarding characteristics in accordance with smoke developed rating not to exceed 50 and flame spread rating of 25 per UL testing procedures.
- C. Unit cabinet exterior paint shall be: pre-painted steel.
- D. Insulation:
 - i. Interior cabinet surfaces shall be insulated with a minimum of 1/2-in. thick, minimum 1.6 lbs. density, flexible fiberglass insulation bonded with foil face on the air side.
 - ii. Insulation and adhesive shall meet NFPA 90A requirements for flame spread and smoke generation.
 - iii. Insulation shall also be mechanically fastened with welded pin and retainer washer.
- E. Condensate Pan and Connections:
 - i. Shall be a sloped condensate drain pan made of a non-corrosive material and be removable for cleaning.
 - ii. Shall comply with ASHRAE Standard 62.
 - iii. Shall use a 3/4" NPT drain connection through either side of the drain pan. The connection shall be made per the manufacturer's recommendations.
 - iv. Shall have drain connections on each side of the unit in either horizontal or vertical type applications.
- F. Side Panel:
 - i. The separable unit shall have removable side panels on each side of the unit. Each side has two removable panels: four panels total.
- G. Electrical Connections:
 - i. All unit power wiring shall enter the unit cabinet through factory-prepared knockouts next to the unit access panels.
- H. Component Access Panels (Standard):
 - i. Cabinet panels shall be easily opened for servicing.
 - ii. Unit cabinet design shall be separable to facilitate mobilization during installation.

1.06 Refrigerant Components:

- A. The refrigerant circuit shall include the following control, safety, and maintenance features:
 - i. Refrigerant filter drier.
 - ii. Service gauge connections on suction and discharge lines.
 - iii. External pressure gauge ports allows pressures to be checked on the side, without removing access panel.

1.07 Evaporator Coils:

- A. The evaporator coil shall consist of copper tubes with aluminum fins bonded to the tubes by mechanical expansion. Suction and liquid line connections or supply and discharge connections shall be field-configurable to either side of the coil.
- B. Evaporator coil in 12.5 ton units shall be 3-row.
- C. Evaporator coil in 6.5, 7.5, 10, 15, and 20 ton units shall be 4-row.
- D. Direct expansion coils shall feature factory-installed thermostatic expansion valves (TXVs) for refrigerant control. The TXVs shall be R-454B compatible and capable of external adjustment.

1.08 Controls and Safeties:

- A. Components are not compatible between different refrigerants. Do not use R-410A service equipment or components on R-454B equipment. System or part failure could occur.

1.09 Operating Characteristics:

- A. When combined with matching RACY condensing unit, the system shall be capable of starting and running at ambient outdoor temperatures up to 125.6°F (52°C) in cooling mode.
- B. Unit shall be factory configured for horizontal supply & return configurations.
- C. Unit shall be field convertible from vertical to horizontal configuration.

1.10 Electrical Requirements:

- A. Unit shall operate at $\pm 10\%$ from rated voltage.
- B. Unit electrical power shall be single-point connection.
- C. Main power supply voltage, phase, and frequency must match those required by the manufacturer.

1.11 Thermostats:

- A. Thermostat shall:
 - i. Have the capability to energize 2 stages of cooling.
 - ii. The variable speed drive (VFD) must be powered continuously and controlled by the thermostat signals.
 - iii. Use a 3/4" NPT drain connection through either side of the drain pan.
- B. Thermostat Controls:
 - i. The appropriate thermostat control wires (C, G, Y2, W and R) must also be connected to the low voltage terminal block (TB2) located on the outside of the air-handler control box (No heat application).
 - ii. Electric Heat Application - The appropriate thermostat control wires must be connected to the thermostat pigtails on the heater kit and to the C, G, Y2, and W1 terminals on the low voltage terminal block located on the outside of the air handler control box.
 - iii. Low voltage terminal block (TB3) to be used for A2L sensor. Red wire to "24V VAC/VDC. Brown wire to "24V COM.

1.12 Motor:

- A. Fan motor of the size and electrical characteristics specified on the equipment schedule shall be factory supplied and installed.
- B. Motors shall have inherent thermal overload protection.
- C. Alternate Motor and Drive:
 - i. An alternate motor and/or medium-static or high-static drive shall be available to meet the airflow and external static pressure requirements specified on the equipment schedule.
- D. Variable Frequency Drive (VFD) Standard:
 - i. Unit shall be supplied with an electronic variable frequency drive for the supply air fan.
 - ii. Drive shall be factory installed in an enclosed cabinet.
 - iii. Drive shall meet UL Standard 95-5V.
 - iv. The completed unit assembly shall be UL listed.
 - v. Drives are to be accessible through a tooled access hinged door assembly.
 - vi. The unit manufacturer shall install all power and control wiring.
 - vii. The supply air fan drive output shall be controlled by the factory installed main unit control system and drive status and operating speed shall be monitored and displayed at the main unit control panel.
 - viii. Drive shall be programmed and factory run tested in the unit.

1.13 Special Features:

- A. Electric Heaters:
 - i. Heaters for nominal 240V, 480V, or 575V, 3-Phase, 60Hz shall be field-installed as shown on the equipment drawings. Electric heat assembly shall be UL agency approved and shall have single-point power wiring.
- B. A2L Sensor:
 - i. Sensor shall provide the ability to signal the blower, compressor, and electric heat to comply with the UL 60335-2-40 mitigation when a refrigerant leak is detected.
 - ii. Sensor shall be operable when the unit is installed in either vertical or horizontal configurations.



GENERAL TERMS OF LIMITED PARTS WARRANTY*

Rheem will furnish a replacement for any part of this product which fails in normal use and service within the applicable periods stated, in accordance with the terms of the limited warranty.

Parts

Commercial ApplicationsOne (1) Year

***For Complete Details of the Limited Warranty, Including Applicable Terms and Conditions, See Your Local Installer or Contact the Manufacturer for a Copy.**

Before proceeding with installation, refer to installation instructions packaged with each model, as well as complying with all Federal, State, Provincial, and Local codes, regulations, and practices.

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