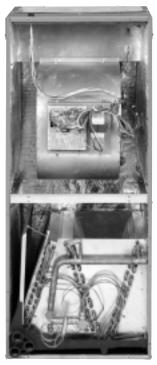
AIR HANDLERS







AIR HANDLERS

RHKA- SERIES
featuring R-22 Refrigerant
RHKL- SERIES
featuring Earth-Friendly
R-410A Refrigerant

Features

- Includes an energy efficient GE® ECM® Motor, which in most applications, enhances the SEER rating of the outdoor unit. It also slowly ramps its speed up for quiet operation and enhanced customer satisfaction.
- Versatile 4-way convertible design for upflow, downflow, horizontal left and horizontal right applications.
- Nominal airflow up to 1.0" external static pressure.
- Factory-installed high efficiency indoor coil.
- Sturdy cabinet construction with 1.0 inch [25.4 mm] of foil faced insulation for excellent sound and insulating characteristics.
- Field-installed auxiliary electric heater kits provide exact heat for indoor comfort. Kits include circuit breakers which meet U.L. and cUL requirements for service disconnect.
- Dip switch settings for selectable, customized cooling airflow over a wide variety of applications.
- On-demand dehumidification terminal that adjusts airflow to help control humidity for unsurpassed comfort in cooling mode.









"CERTIFIED UNDER THE A.R.I. CERTIFICATION PROGRAM—A.R.I. STANDARDS 210/240-84"

Engineering Features

RHKA- AND RHKL- Series

- Quiet, efficient ECM motor technology providing nominal airflow up to 1.0 inch [25 kPa] of external static pressure.
- Interface board with dip switches conveniently located in the blower compartment allows for precise, field selectable airflow to meet the requirements of particular applications.
- Selectable continuous fan "on" options.
- The most compact unit design available.
- Attractive pre-painted cabinet exterior.
- Rugged steel cabinet construction, designed for added strength and versatility.
- ■1.0" foil faced insulation mechanically retained in blower compartment.
- Four leg rubber insulated motor mount.
- Field-installed auxiliary heater kit includes circuit breakers that meet UL and cUL requirements as a service disconnect switch.
- Blower housing with integrated controls, motor and blower. Slide out design for service and maintenance convenience.
- Field convertible for vertical upflow, vertical downflow, horizontal left hand or right hand air supply.
- Combustible floor base accessory available when required for downflow installations on combustible floors.

- Indoor coil design provides low air side pressure drop, high performance and extremely compact size. All coils come with PVC condensate elbow standard.
- Coils are constructed of aluminum fins bonded to internally grooved copper tubing.
- Molded polymer corrosion resistant condensate drain pan is provided on all indoor coils.
- Supply duct flanges provided as standard on air handler cabinet.
- Provisions for field electrical connections available from either side or top of the air handler cabinet.
- Connection point for high voltage wiring is inside the air handler cabinet. Low voltage connection is made on the outside of the air handler cabinet.
- Concentric knockouts are provided for power connection to cabinet. Installer may pull desired hole size up to 2 inches [51 mm] for 11/2 inch [38 mm] conduit.
- Internal checked TX valves are used on the Heat Pump indoor coil for more quiet refrigerant metering.
- Front refrigerant and drain connections.

[] Designates Metric Conversions

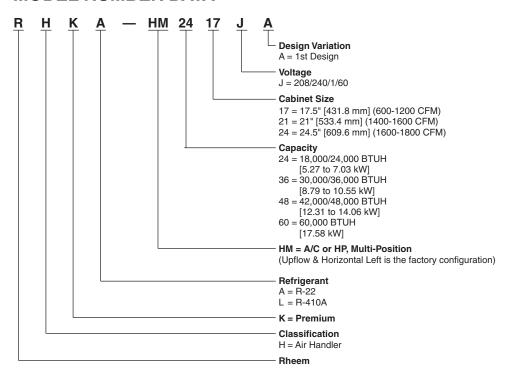
GENERAL TERMS OF LIMITED WARRANTY

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.

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

Indoor Coil leaks caused by	
factory defects	Five (5) Years
Electric Heating Element	Five (5) Years
Any Other Part	Five (5) Years

MODEL NUMBER DATA

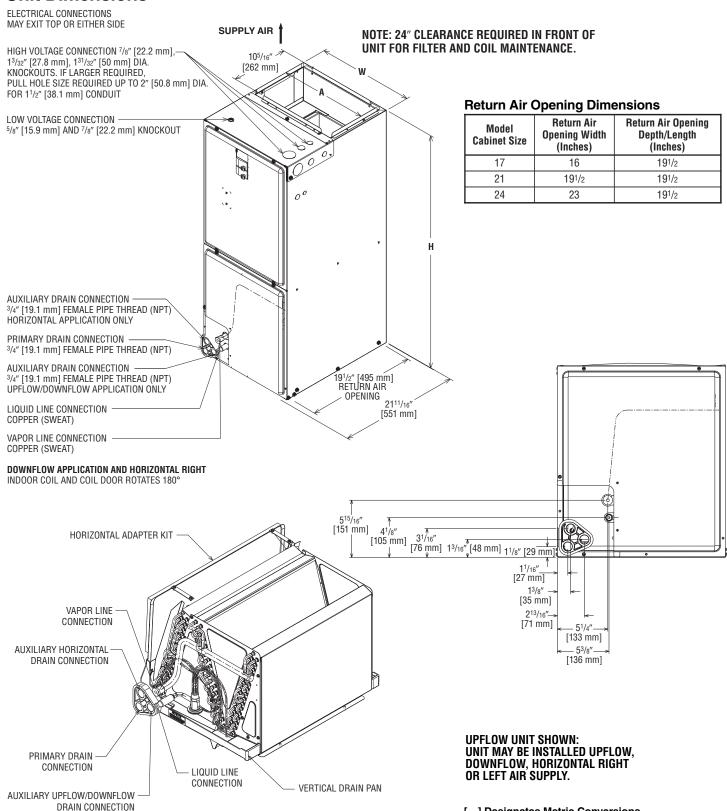


	Electrical Designation	on & Airflow Performance Information			
Cabinet	J = 208/240V, 1 PH, 60 Hz	C = 208/240V, 3 PH, 60 Hz	1) Motor H.P. [W] 2) Blower CFM [L/s] Lo/Hi Speed		
Size	Control Designation	Control Designation	3) Blower Wheel Dia./Width [mm]		
	S = Circuit Breaker(s)	S = Circuit Breaker(s)	4) Tonnage		
17 = 17.5"	03 05 07	07 10	1) 1/3 H.P. [249] 2) LO-600 CFM [142] HI-800 CFM [378] 3) 10 x 6 [254 x 152]		
	10		4) 1 ¹ / ₂ & 2 Tonnage		
17 = 17.5"	03 05 07 10 15	07 10 15	1) 1/2 H.P. [373] 2) LO-1000 CFM [472] HI-1200 CFM [566] 3) 10 x 8 [254 x 203] 4) 2 ¹ / ₂ & 3 Tonnage		
21 = 21.0°	03 05 10 15 17 20	07 10 15 17 20	1) 3/4 H.P. [559] 2) LO-1400 CFM [661] HI-1600 CFM [755] 3) 10 x 10 [254 x 254] 4) 3½ & 4 Tonnage		
24 = 24.5°	05 07 10 15 17 20 25 (5 TON ONLY)	07 10 15 17 20 25 (5 TON ONLY)	1) 3/4 H.P. [559] 2) LO-1600 CFM [755] (4 TON) HI-1800 CFM [850] (5 TON) 3) 11 x 11 [279 x 279] 4) 4 & 5 Tonnage		

NOTES:

- ① Electrical Heat Designation: See electrical heat electrical data for actual heater kW represented by number above.
- 2 Electric Heater: BTUH (heater watts + motor watts) x 3.412 (see airflow table for motor watts).
- The air handlers are shipped from the factory with the proper indoor coil installed, and cannot be ordered without a coil.
- 4 Electric heat elements are field-installed items.
- ⑤ The air handlers do not have an internal filter rack. An external filter rack or other means of filtration is required.

Unit Dimensions



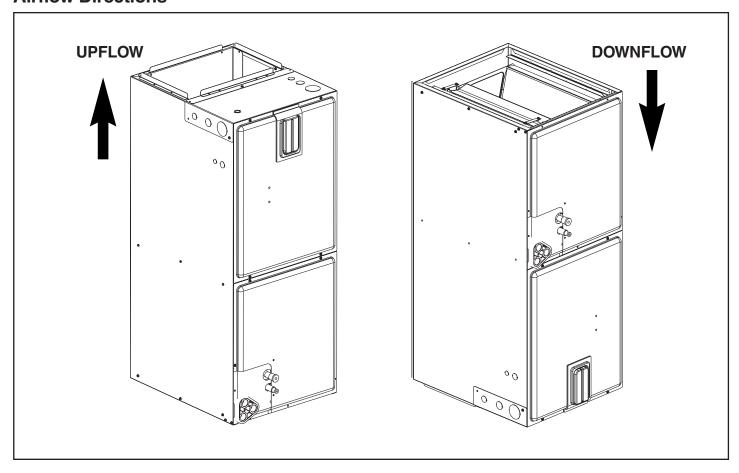
Unit Dimensions & Weights

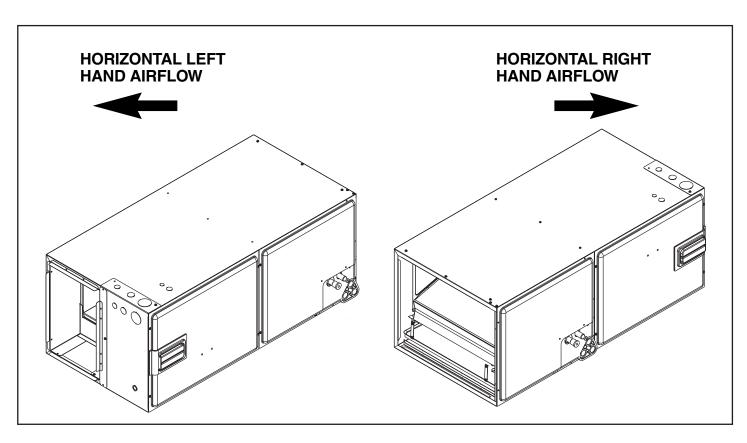
	is a weig	iits					
Nominal Cooling	Nominal Cooling Model Unit		Unit	Supply		Flow	Unit Weight/Shipping Weight (Lbs.) [kg]
Capacity	Cabinet	Width	Height	Duct	CFM (No	m.) [L/s]	Unit With
Tons	Size	"W" In. [mm]	"H" In. [mm]	"A" In. [mm]	Lo	Hi	Coil (Max. KW)
11/2 & 2	17	171/2 [445]	42 ¹ / ₂ [1080]	16 [406]	600 [283]	800 [378]	82/96 [37/44]
21/2 & 3	17	171/2 [445]	42 ¹ / ₂ [1080]	16 [406]	1000 [472]	1200 [566]	92/106 [37/48]
31/2 & 4	21	21 [533]	501/2 [1282]	191/2 [495]	1400 [661]	1600 [755]	150/166 [68/75]
4	24	241/2 [622]	551/2 [1410]	23 [584]	1600 [755]	_	162/180 [73/81]
5	24	241/2 [622]	551/2 [1410]	23 [584]	_	1800 [850]	181/198 [82/90]

[] Designates Metric Conversions

) Designates Unit with Double Coil Cabinet

Airflow Directions





Airflow Performance

Airflow performance data is based on cooling performance with dry coil and filter in place. Select performance table for appropriate unit size, voltage and number of electric heaters to be used. Make sure external static applied to unit allows operation within the minimum and maximum limits shown in table

below for both cooling and electric heat operation. For optimum blower performance, operate the unit in the .1 [2.54 mm] to 1.00 inches [25.4 mm] W.C. external static range. Units with coils should be applied with a minimum of .1 inch [2.54 mm] W.C., external static.

Airflow Performance and Electrical Data

Cabinet Size	Nominal Cooling Capacity	Motor Speed From	Nominal Air-Flow	Blower Size Motor H.P.	Motor Speed							/RPM/W	atts-240 ' es W.C. I								
3126	Tons	Factory	CFM	WIOLUI II.F.	Sheen		0.40	0.00							0.00	4.00					
							0.10 613	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00					
	11/2	Lliab	Hiah 600	10x6	Law	CFM	[289]	613 [289]	656 [310]	656 [310]	658 [311]	656 [310]	656 [310]	653 [308]	651 [307]	647 [305]					
	1 1/2	High	600	1/3	Low	RPM	525	626	728	778	823	871	935	987	1025	1079					
						Watts	56	68	95	120	138	152	168	191	202	222					
			000	10x6		CFM	832 [393]	832 [393]	835 [394]	849 [401]	851 [402]	852 [402]	861 [406]	862 [407]	862 [407]	862 [407]					
	2	High 800	1/3	High	RPM	649	718	775	835	886	947	999	1043	1080	1131						
17	17			Watts	114	132	157	183	202	232	263	290	306	339							
''			1000	10x8		CFM	1001 [472]	1030 [486]	1030 [486]	1035 [488]	1035 [488]	1029 [486]	1029 [486]	1029 [486]	1029 [486]	1023 [483]					
	21/2	High 1000	1/2	Low	RPM	652	752	812	845	923	945	1007	1065	1090	1118						
				Watts	134	166	193	212	244	266	280	320	341	357							
				10x8 1/2	High	CFM	1220 [576]	1229 [580]	1229 [580]	1229 [580]	1229 [580]	1229 [580]	1238 [584]	1238 [584]	1233 [582]	1228 [580]					
	3	High	1200			RPM	732	831	875	930	981	1005	1077	1108	1156	1194					
						Watts	215	253	282	314	348	362	409	426	472	496					
	01/		4.400	10x10		CFM	1395 [658]	1404 [663]	1413 [667]	1413 [667]	1411 [666]	1411 [666]	1402 [662]	1391 [656]	1380 [651]	1371 [647]					
	31/2	High	1400	3/4						Low	RPM	731	807	859	910	968	1016	1057	1100	1128	1158
21						Watts	240	273	308	349	383	411	436	468	496	513					
21				10x10		CFM	1583 [747]	1583 [747]	1583 [747]	1590 [750]	1582 [747]	1566 [739]	1572 [742]	1556 [734]	1547 [730]	1539 [726]					
	4	High	1600	3/4	High	RPM	826	879	933	984	1025	1067	1119	1148	1176	1219					
						Watts	342	375	410	454	486	523	552	585	614	616					
			1000	11x11		CFM	1607 [758]	1615 [762]	1622 [765]	1630 [769]	1637 [773]	1629 [769]	1621 [765]	1614 [762]	1606 [758]	1583 [747]					
	4 High 1600	1600	3/4	Low	RPM	612	698	747	788	835	870	914	950	981	1018						
24					Watts	225	297	334	359	410	439	469	502	532	568						
	_		1000	11x11	111.1	CFM	1794 [847]	1808 [853]	1808 [853]	1807 [853]	1807 [853]	1807 [853]	1807 [853]	1800 [850]	1786 [843]	1772 [836]					
	5 High 1800	3/4	High	RPM	676	739	787	840	871	923	950	994	1028	1050							
			ing limits. Do not one			Watts	330	376	416	465	504	554	576	624	662	694					

WARNING: Observe airflow operating limits. Do not operate above 1.0 in. W.C. system external static.

Blower Motor Electrical Data

Nominal Cooling Capacity Tons	Voltage	Phase	Hertz	HP [W]	RPM	Speeds	Circuit Amps.	Minimum Circuit Ampacity	Maximum Circuit Protector
11/2 & 2	208/240	1	60	1/3 [249]	300-1100	2	2.8	3.5	15
21/2 & 3	208/240	1	60	1/2 [373]	300-1100	2	4.3	5.4	15
31/2, 4 & 5	208/240	1	60	3/4 [559]	300-1100	2	6.8	7.4	15

Electric Heat Electrical Data

Nominal Cooling Capacity Tons/ Cabinet Size	Heater Kit Model No.	Heater KW 208/240V	PH/HZ	No. Elements - KW Per	Type Supply Circuit Single Circuit Multiple Circuit	Circuit Amps.	Motor Ampacity	Minimum Circuit Ampacity	Maximum Circuit Protection
	RXBH-17A03J	2.25/3.0	1/60	1 - 3.0	SINGLE	10.8/12.5	2.8	17/20	20/20
	RXBH-17A05J	3.6/4.8	1/60	1 - 4.8	SINGLE	17.3/20.0	2.8	26/29	30/30
11/2 & 2	RXBH-17A07J	5.4/7.2	1/60	2 - 3.6	SINGLE	26.0/30.0	2.8	36/41	40/45
17	RXBH-17A10J	7.2/9.6	1/60	2 - 4.8	SINGLE	34.6/40.0	2.8	47/54	50/60
İ	RXBH-17A07C	5.4/7.2	3/60	3 - 2.4	SINGLE	15.0/17.3	2.8	23/26	25/30
İ	RXBH-17A10C	7.2/9.6	3/60	3 - 3.2	SINGLE	20.0/23.1	2.8	29/33	30/35
	RXBH-17A03J	2.25/3.0	1/60	1 - 3.0	SINGLE	10.8/12.5	4.3	19/21	20/25
	RXBH-17A05J	3.6/4.8	1/60	1 - 4.8	SINGLE	17.3/20.0	4.3	27/31	30/35
ĺ	RXBH-17A07J	5.4/7.2	1/60	2 - 3.6	SINGLE	26.0/30.0	4.3	38/43	40/45
	RXBH-17A10J	7.2/9.6	1/60	2 - 4.8	SINGLE	34.6/40.0	4.3	49/55	50/60
21/2 & 3	RXBH-17A15J	10.8/14.4	1/60	3-4.8	SINGLE	51.9/60.0	4.3	71/81	80/90
17	RXBH-17A15J	3.6/4.8	1/60	1 - 4.8	MULTIPLE CKT 1	17.3/20.0	4.3	27/31	30/35
		7.2/9.6	1/60	2 - 4.8	MULTIPLE CKT 2	34.6/40.0	0.0	44/50	45/50
	RXBH-17A07C	5.4/7.2	3/60	3 - 2.4	SINGLE	15.0/17.3	4.3	25/27	25/30
	RXBH-17A10C	7.2/9.6	3/60	3 - 3.2	SINGLE	20.0/23.1	4.3	31/35	35/35
	RXBH-17A15C	10.8/14.4	3/60	3 - 4.8	SINGLE	30.0/34.6	4.3	43/49	45/50
	RXBH-24A05J	3.6/4.8	1/60	1 - 4.8	SINGLE	17.3/20.0	6.8	31/34	30/35
	RXBH-24A07J	5.4/7.2	1/60	2 - 3.6	SINGLE	26.0/30.0	6.8	41/46	45/50
	RXBH-24A10J	7.2/9.6	1/60	2 - 4.8	SINGLE	34.6/40.0	6.8	52/59	60/60
	RXBH-24A15J	10.8/14.4	1/60	3 - 4.8	SINGLE	51.9/60.0	6.8	74/84	80/90
	RXBH-24A15J	3.6/4.8	1/60	1 - 4.8	MULTIPLE CKT 1	17.3/20.0	6.8	31/34	35/35
	NADH-24A 10J	7.2/9.6	1/60	2 - 4.8	MULTIPLE CKT 2	34.6/40.0	0.0	44/50	45/50
	RXBH-24A18J	12.8/17	1/60	4 - 4.26	SINGLE	61.6/70.8	6.8	86/97	90/100
	RXBH-24A18J	6.4/8.5	1/60	2 - 4.26	MULTIPLE CKT 1	30.8/35.4	6.8	47/53	50/60
	NADIT-24A 10J	6.4/8.5	1/60	2 - 4.26	MULTIPLE CKT 2	30.8/35.4	0.0	39/45	40/45
31/2 & 4	RXBH-24A20J	14.4/19.2	1/60	4 - 4.8	SINGLE	69.2/80.0	6.8	95/109	100/110
21	RXBH-24A20J	7.2/9.6	1/60	2 - 4.8	MULTIPLE CKT 1	34.6/40.0	6.8	52/59	60/60
	INDIT-24A200	7.2/9.6	1/60	2 - 4.8	MULTIPLE CKT 2	34.6/40.0	0.0	44/50	45/50
	RXBH-24A07C	5.4/7.2	3/60	3 - 2.4	SINGLE	15.0/17.3	6.8	28/31	30/35
	RXBH-24A10C	7.2/9.6	3/60	3 - 3.2	SINGLE	20.0/23.1	6.8	34/38	35/40
	RXBH-24A15C	10.8/14.4	3/60	3 - 4.8	SINGLE	30.0/34.6	6.8	46/52	50/60
[12.8/17.0	3/60	6 - 2.84	SINGLE	35.6/41.0	6.8	53/60	60/60
	RXBH-24A18C	6.4/8.5	3/60	3 - 2.84	MULTIPLE CKT 1	17.8/20.5	6.8	31/35	35/35
		6.4/8.5	3/60	3 - 2.84	MULTIPLE CKT 2	17.8/20.5	0.0	23/26	25/30
		14.4/19.2	3/60	3 - 3.2	SINGLE	40.0/46.2	6.8	59/67	60/70
	RXBH-24A20C	7.2/9.6	3/60	3 - 3.2	MULTIPLE CKT 1	20.0/23.1	6.8	34/38	35/40
		7.2/9.6	3/60	3 - 3.2	MULTIPLE CKT 2	20.0/23.1	0.0	25/29	25/30

Supply circuit protective devices may be fuses or "HACR" type circuit breakers.
 Largest motor load is included in single circuit and multiple circuit 1.
 If non-standard fuse size is specified, use next size larger standard fuse size.

Electric Heat Electrical Data (Cont.)

Nominal Cooling Capacity Tons/ Cabinet Size	Heater Kit Model No.	Heater KW 208/240V	PH/HZ	No. Elements - KW Per	Type Supply Circuit Single Circuit Multiple Circuit	Circuit Amps.	Motor Ampacity	Minimum Circuit Ampacity	Maximum Circuit Protection
	RXBH-24A07J	5.4/7.2	1/60	2 - 3.6	SINGLE	26.0/30.0	6.8	41/46	45/50
	RXBH-24A10J	7.2/9.6	1/60	2 - 4.8	SINGLE	34.6/40.0	6.8	52/59	60/60
	RXBH-24A15J	10.8/14.4	1/60	3 - 4.8	SINGLE	51.9/60.0	6.8	74/84	80/90
l	RXBH-24A15J	3.6/4.8	1/60	1 - 4.8	MULTIPLE CKT 1	17.3/20.0	6.8	31/34	35/35
	KXBH-24A10J	7.2/9.6	1/60	2 - 4.8	MULTIPLE CKT 2	34.6/40.0	0.0	44/50	45/50
	RXBH-24A18J	12.8/17	1/60	4 - 4.26	SINGLE	61.6/70.8	6.8	86/97	90/100
	RXBH-24A18J	6.4/8.5	1/60	2 - 4.26	MULTIPLE CKT 1	30.8/35.4	6.8	47/53	50/60
	NADH-24A IOJ	6.4/8.5	1/60	2 - 4.26	MULTIPLE CKT 2	30.8/35.4	0.0	39/45	40/45
	RXBH-24A20J	14.4/19.2	1/60	4 - 4.8	SINGLE	69.2/80.0	6.8	95/109	100/110
	RXBH-24A20J	7.2/9.6	1/60	2 - 4.8	MULTIPLE CKT 1	34.6/40.0	6.8	51/58	60/60
	NADIT-24A2UJ	7.2/9.6	1/60	2 - 4.8	MULTIPLE CKT 2	34.6/40.0	0.0	44/50	45/50
	RXBH-24A25J (5 Ton Only)	15.0/24.0	1/60	3 - 4.0	SINGLE	87.0/99.9	6.8	118/134	125/150
4 & 5	DVDII 0440E I	5.0/8.0	1/60	2 - 4.0	MULTIPLE CKT 1	29.0/33.3	6.8	45/51	45/60
24	RXBH-24A25J (5 Ton Only)	5.0/8.0	1/60	2 - 4.0	MULTIPLE CKT 2	29.0/33.3	0.0	37/42	40/45
	(3 foll Offig)	5.0/8.0	1/60	2 - 4.0	MULTIPLE CKT 3	29.0/33.3	0.0	37/42	40/45
	RXBH-24A07C	5.4/7.2	3/60	3 - 2.4	SINGLE	15.0/17.3	6.8	28/31	30/35
	RXBH-24A10C	7.2/9.6	3/60	3 - 3.2	SINGLE	20.0/23.1	6.8	34/38	35/40
	RXBH-24A15C	10.8/14.4	3/60	3 - 4.8	SINGLE	30.0/34.6	6.8	46/52	50/60
		12.8/17.0	3/60	6 - 2.84	SINGLE	35.6/41.0	6.8	53/60	60/60
	RXBH-24A18C	6.4/8.5	3/60	3 - 2.84	MULTIPLE CKT 1	17.8/20.5	6.8	31/35	35/35
		6.4/8.5	3/60	3 - 2.84	MULTIPLE CKT 2	17.8/20.5	0.0	23/26	25/30
		14.4/19.2	3/60	6 - 3.2	SINGLE	40.0/46.2	6.8	59/67	60/70
	RXBH-24A20C	7.2/9.6	3/60	3 - 3.2	MULTIPLE CKT 1	20.0/23.1	6.8	34/33	35/40
		7.2/9.6	3/60	3 - 3.2	MULTIPLE CKT 2	20.0/23.1	0.0	25/29	25/30
	DVDII 044050	18.0/24.0	3/60	6 - 4.0	SINGLE	50.0/57.8	6.8	71/81	80/90
	RXBH-24A25C (5 Ton Only)	9.0/12.0	3/60	3 - 4.0	MULTIPLE CKT 1	25.0/28.9	6.8	40/45	40/45
	(3 foir Offig)	9.0/12.0	3/60	3 - 4.0	MULTIPLE CKT 2	25.0/28.9	0.0	32/37	35/40

 $[\]bullet$ Supply circuit protective devices may be fuses or "HACR" type circuit breakers.

Copper Wire Size—AWG. (3% Voltage Drop)

W	F E		SUPPLY CIRCUIT AMPACITY																
Y	Н		15	20	25	30	35	40	45	50	60	70	80	90	100	110	125	150	175
L	T	50 [15]	14	12	10	10	8	8	8	6	6	4	4	3	3	2	1	0	00
l þ	G	100 [30]	14	12	10	10	8	8	8	6	6	4	4	3	3	2	1	0	00
U	E N	150 [46]	12	10	10	10	8	8	6	6	6	4	4	3	3	2	1	0	00
S	L	200 [61]	12	10	8	8	8	6	6	6	4	4	3	3	2	2	1	0	00

SUPPLY CIRCUIT AMPACITY

NOTE: Wire based on copper conductors 75°C minimum rating. For more than 3 conductors in a raceway or cable, see N.E.C. for derating the ampacity of each conductor.

[] Designates Metric Conversions

E T

[m]

Largest motor load is included in single circuit and 1 multiple circuit 1.
 If non-standard fuse size is specified, use next size larger standard fuse size.

Accessories-Kits—Parts

• Combustible Floor Base RXHB-

Model Cabinet Size	Combustible Floor Base Model Number
17	RXHB-17
21	RXHB-21
24	RXHB-24

- Jumper Bar Kit 3 Ckt. to 1 Ckt. RXBJ-A31 is used to convert single phase multiple three circuit units to a single supply circuit. Kit includes cover and screw for line side terminals.
- Jumper Bar Kit 2 Ckt. to 1 Ckt. RXBJ-A21 is used to convert single phase multiple two circuit units to a single supply circuit. Kit includes cover and screw for line side terminals.
- **Note:** No jumper bar kit is available to convert three phase multiple two circuit units to a single supply circuit.

• External Filter Base RXHF-

Model Cabinet Size	Filter Size In. [mm]	Part Number
17	16 x 20 [406 x 508]	RXHF-17
21	20 x 20 [508 x 508]	RXHF-21
24	25 x 20 [635 x 508]	RXHF-24

Auxiliary Horizontal Overflow Pan Accessory RXBM-

Nominal Cooling Capacity-Tons	Auxiliary Horizontal Overflow Pan Accessory Model Number
11/2 - 3	RXBM-AB48
31/2 - 5	RXBM-AB61

Auxiliary Electric Heater Kits RXBH-

Heater Kits include circuit breakers which meet UL and cUL requirements for service disconnect. See the Electric Heat Electrical Data in this specification sheet for specific Heater Kit Model numbers.

NOTES

NOTES

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.

RHEEM
AIR CONDITIONING
DIVISION

5600 Old Greenwood Road, Fort Smith, Arkansas 72908



"In keeping with its policy of continuous progress and product improvement, Rheem reserves the right to make changes without notice."

PRINTED IN U.S.A. 11-05 DC FORM NO. H11-523