

Ruud High Efficiency Air Handler





RHPN- Series

High Efficiency ECM Motor Efficiencies up to 18 SEER









- Includes an energy efficient ECM Motor, that 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 when wired in 24V conventional configurations.
- On-demand dehumidification terminal that adjusts airflow to help control humidity for unsurpassed comfort in cooling mode.
- External filter required.

TABLE OF CONTENTS



Engineering Features	3
Model Number Identification	4
Dimensional Data	5
Airflow Directional Data	6
Airflow Performance Data	7
Electrical Data	8-9
Electrical Wiring	10
Accessories	10
Limited Warranty	11

Engineering Features

RHPN-Series

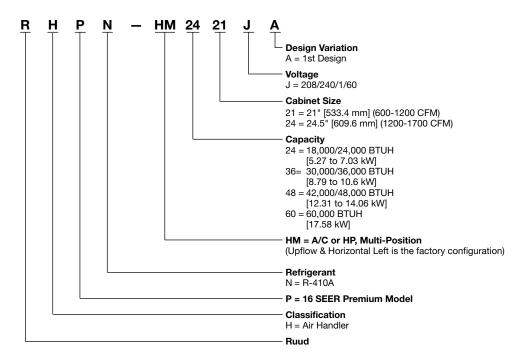
- Quiet, efficient ECM motor technology providing nominal airflow up to 1.0 inch [25 kPa] of external static pressure.
- Interface board with dip switches conveniently located in the blower compartment allows for precise, field selectable airflow to meet the requirements of particular applications.
- 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

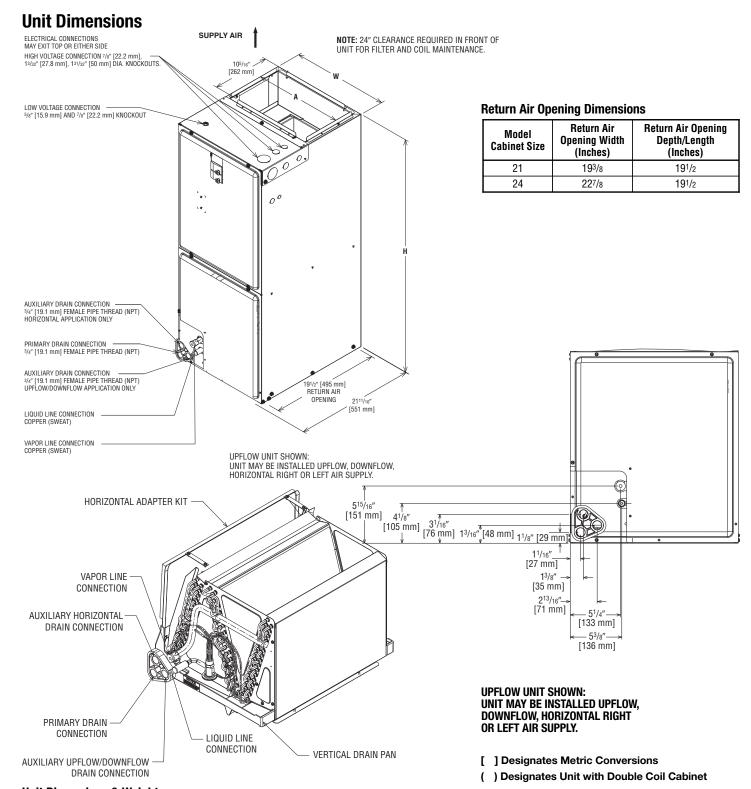


Model Number Identification



[] Designates Metric Conversions

Available Models
RHPN-HM2421JA
RHPN-HM3624JA
RHPN-HM4824JA
RHPN-HM6024JA

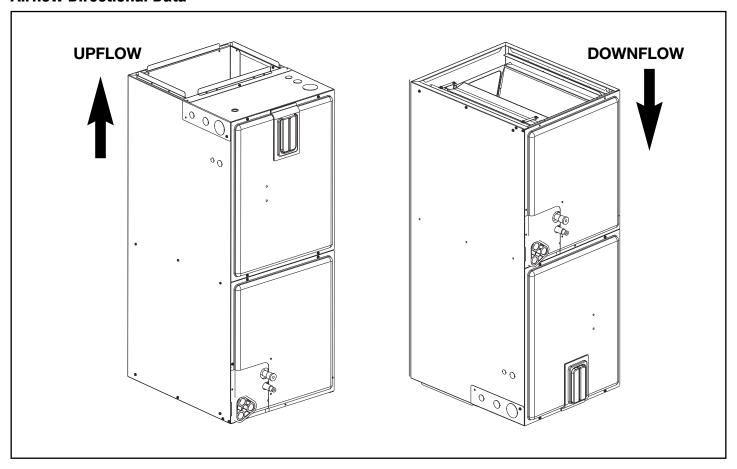


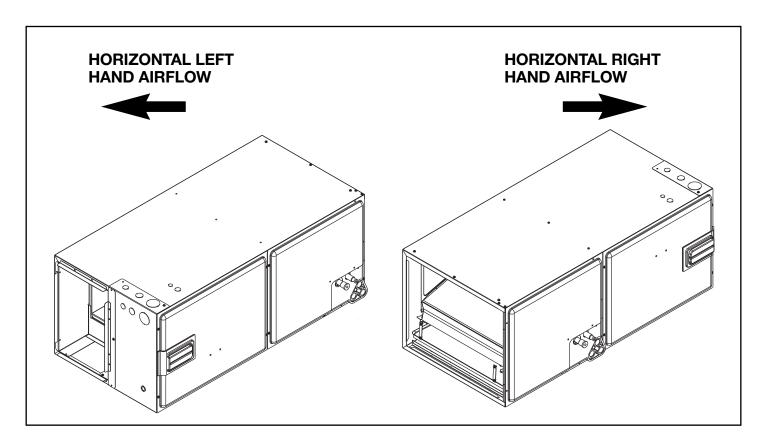
Unit Dimensions & Weights

Model	Refrigera	nt Connections	Unit	Unit	Supply		Nominal Coi	Airflow [L/s]	Unit Weight/Shipping Weight (Lbs.) [kg]
Size	Sweat ((in.) [mm] ID	Width "W" In.	Height	Duct "A" In.	1st S	Stage	2nd S	Stage	Unit With
RHPN	Liquid	Vapor	[mm]	"H" In. [mm]	[mm]	ODD*	Normal	ODD*	Normal	Coil (Max. KW)
2421	3/8 [9.53]	³ /4 [19.05]	21 [533]	421/2 [1080]	19 ¹ / ₂ [495]	480 [227]	625 [295]	640 [302]	775 [366]	92/106 [42/48]
3624	3/8 [9.53]	⁷ /8 [22.23]	241/2 [622]	55 ¹ / ₂ [1410]	23 [584]	725 [342]	825 [389]	975 [460]	1175 [555]	181/198 [82/90]
3024	90 [9.55]	·/6 [22.23]	24./2 [022]	33.72 [1410]	23 [584]	825 [389]	950 [448]	1000 [472]	1175 [555]	101/130 [02/30]
4824	3/8 [9.53]	⁷ /8 [22.23]	241/2 [622]	55 ¹ / ₂ [1410]	23 [584]	960 [453]	1200 [566]	1280 [804]	1625 [767]	162/180 [73/81]
6024	3/8 [9.53]	7/8 [22.23]	241/2 [622]	551/2 [1410]	23 [584]	1040 [491]	1375 [649]	1360 [642]	1675 [791]	181/198 [82/90]

^{*}Maximum dehumidification airflow.

Airflow Directional Data





Airflow Performance

Airflow performance data is based on cooling performance with a coil and no 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 .3 [8 mm] to .7 inches [18 mm] W.C. external static range. Units with coils should be applied with a minimum of .1 inch [3 mm] W.C. external static range.

Airflow Performance Data

Air	Outdoor	Cabinet	Blo	wer	Nominal						nal Static Pi Air Delivery							
Handler	Unit	Size	Size	Unit	Airflow CFM					External S	tatic Pressu	re – Inches	W.C. [kPa]					
			Motor HP	Operation	•		0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00		
						CFM	550 [260]	575 [271]	600 [283]	600 [283]	625 [295]	625 [295]	625 [295]	600 [283]	575 [271]	550 [260]		
				First Stage	600	RPM	455	540	620	695	760	825	885	940	985	1030		
RHPN-	RARL-024 or	21	10 x 8	Olago		Watts	40	55	70	85	105	120	135	150	170	185		
HM2421	RASL-024	21	1/3	0		CFM	775 [366]	775 [366]	775 [366]	800 [378]	800 [378]	825 [389]	825 [389]	825 [389]	825 [389]	825 [389]		
				Second Stage	775	RPM	540	615	685	750	810	870	925	975	1020	1065		
				Ů		Watts	70	90	115	135	160	180	205	225	250	270		
				Finat		CFM	950 [448]	950 [448]	1000 [472]	975 [460]	975 [460]	975 [460]	925 [437]	925 [437]	925 [437]	925 [437]		
	RARL-036			First Stage	950	RPM	495	555	610	665	720	770	820	865	910	955		
	or RASL-036					Watts	95	115	140	165	185	210	240	265	290	320		
	18.02 000			Cocond		CFM	1150 [543]	1150 [543]	1175 [555]	1175 [555]	1175 [555]	1150 [543]	1150 [543]	1150 [543]	1125 [531]	1125 [531]		
				Second Stage	1175	RPM	550	600	650	700	750	800	850	900	925	975		
RHPN-		24	11 x 11			Watts	125	175	200	225	250	275	300	325	375	400		
HM3624			3/4	First		CFM	825 [389]	825 [389]	875 [413]	875 [413]	850 [401]	850 [401]	825 [389]	825 [389]	800 [378]	800 [378]		
				Stage	825	RPM	455	515	575	630	680	730	780	830	875	915		
	RASL-039					Watts	70	90	115	135	155	180	205	230	255	280		
	18.02 000					Second		CFM	1150 [543]	1150 [543]	1175 [555]	1175 [555]	1175 [555]	1150 [543]	1150 [543]	1150 [543]	1125 [531]	1125 [531]
				Stage	1175	RPM	550	600	650	700	750	800	850	900	925	975		
				Ů		Watts	125	175	200	225	250	275	300	325	375	400		
					Firet		CFM	1275 [602]	1275 [602]	1250 [590]	1250 [590]	1275 [602]	1250 [590]	1250 [590]	1225 [578]	1225 [578]	1225 [578]	
				First Stage	1200	RPM	533	593	649	702	752	798	841	881	917	950		
	RARL-048					Watts	131	161	191	221	250	279	307	335	363	390		
	101112 010					Cocond		CFM	1650 [779]	1650 [779]	1675 [791]	1700 [802]	1700 [802]	1700 [802]	1675 [791]	1675 [791]	1675 [791]	1675 [791]
				Second Stage	1600	RPM	635	698	761	824	887	950	1013	1075	1120	1006		
RHPN-		24	11 x 11			Watts	244	293	340	384	425	464	500	533	564	592		
HM4824			3/4	Firet		CFM	1000 [472]	1000 [472]	1025 [484]	1025 [484]	1000 [472]	1000 [472]	975 [460]	975 [460]	975 [460]	975 [460]		
				First Stage		RPM	500	575	625	675	725	775	825	875	925	950		
	RASL-048					Watts	100	125	150	175	200	225	250	275	300	325		
	10.02 0 10			Cocond		CFM	1650 [779]	1650 [779]	1675 [791]	1700 [802]	1700 [802]	1700 [802]	1675 [791]	1675 [791]	1675 [791]	1675 [791]		
				Second Stage	1600	RPM	635	698	761	824	887	950	1013	1075	1120	1006		
						Watts	244	293	340	384	425	464	500	533	564	592		
				First		CFM	1275 [602]	1275 [602]	1275 [602]	1275 [602]	1275 [602]	1275 [602]	1275 [602]	1250 [590]	1250 [590]	1250 [590]		
				Stage	1275	RPM	577	633	687	738	786	831	874	914	951	986		
	RARL-060			,		Watts	159	189	218	248	279	310	341	372	404	436		
	101112 000			Cocond		CFM	1625 [767]	1625 [767]	1650 [779]	1675 [791]	1675 [791]	1650 [779]	1650 [779]	1625 [767]	1625 [767]	1625 [767]		
				Second Stage	1700	RPM	691	742	790	835	877	916	953	986	1016	1044		
RHPN-		24	11 x 11			Watts	289	334	377	417	456	493	529	562	593	623		
HM6024		3/4	Fire		CFM	1050 [496]	1050 [496]	1075 [507]	1075 [507]	1050 [496]	1025 [484]	1025 [484]	1025 [484]	1025 [484]	1000 [472]			
				First Stage	1050	RPM	525	575	625	675	750	800	825	875	925	975		
	RASL-060			3-		Watts	100	125	150	175	225	250	275	300	325	350		
	11A0L-000					CFM	1625 [767]	1625 [767]	1650 [779]	1675 [791]	1675 [791]	1650 [779]	1650 [779]	1625 [767]	1625 [767]	1625 [767]		
				Second Stage	1700	RPM	691	742	790	835	877	916	953	986	1016	1044		
				Jago		Watts	289	334	377	417	456	493	529	562	593	623		

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

Electrical Data

Model	HP [W]	Voltage	Phase	Hertz	RPM	Circuit Amps.	Minimum Circuit Ampacity	Maximum Circuit Protector
HM2421	1/3 [249]	208/230	1	60	300-1100	1.7	4.0	15
HM3624	3/4 [559]	208/230	1	60	300-1100	4.9	9.0	15
HM4824	3/4 [559]	208/230	1	60	300-1100	4.9	9.0	15
HM6024	3/4 [559]	208/230	1	60	300-1100	4.9	9.0	15

Electrical Data – With Electric Heat

Installation of the U.L. Listed original equipment manufacturer provided heater kits listed in the following table is recommended for all auxiliary heating requirements.

Air Handler Model RHPN-	Heater Model No.	Heater kW (208/240V)	PH/HZ	No. Elements kW Per	Type Supply Circuit Single Circuit Multiple	Circuit Amps.	Motor Ampacity	Minimum Circuit Ampacity	Maximum Circuit Protection
	RXBH-1724?05J	3.6/4.8	1/60	1 - 4.8	SINGLE	17.3/20.0	1.7	24/28	25/30
21" /HM2421	RXBH-1724?07J	5.4/7.2	1/60	2 - 3.6	SINGLE	26.0/30.0	1.7	35/40	35/40
	RXBH-1724?10J	7.2/9.6	1/60	2 - 4.8	SINGLE	34.6/40.0	1.7	46/53	50/60
	RXBH-1724?05J	3.6/4.8	1/60	1 - 4.8	SINGLE	17.3/20.0	4.9	28/32	30/35
	RXBH-1724?07J	5.4/7.2	1/60	2 - 3.6	SINGLE	26.0/30.0	4.9	39/44	40/45
	RXBH-1724?10J	7.2/9.6	1/60	2 - 4.8	SINGLE	34.6/40.0	4.9	50/57	50/60
	RXBH-1724A13J	9.4/12.5	1/60	3-4.17	SINGLE	45.1/52.1	4.9	63/72	70/80
	DVDI 47044401	3.1/4.2	1/60	1-4.17	MULTIPLE CKT 1	15.0/17.4	4.9	25/28	25/30
	RXBH-1724A13J	6.3/8.3	1/60	2-4.17	MULTIPLE CKT 2	30.1/34.7	0.0	38/44	40/45
	RXBH-1724A15J	10.8/14.4	1/60	3-4.8	SINGLE	51.9/60.0	4.9	71/82	80/90
24" /HM3624	DVDI 1704415 I	3.6/4.8	1/60	1 - 4.8	MULTIPLE CKT 1	17.3/20.0	4.9	28/32	30/35
	RXBH-1724A15J	7.2/9.6	1/60	2 - 4.8	MULTIPLE CKT 2	34.6/40.0	0.0	44/50	45/50
	RXBH-1724A18J	12.8/17	1/60	3-5.68	SINGLE	61.6/70.8	4.9	84/95	90/100
	RXBH-1724A18J	4.3/5.7	1/60	1 - 5.68	MULTIPLE CKT 1	20.5/23.6	4.9	32/36	35/40
	KXBN-1/24A18J	8.7/11.3	1/60	2 - 5.86	MULTIPLE CKT 2	41.1/47.2	0.0	52/59	60/60
	RXBH-24A20J	14.4/19.2	1/60	4-4.8	SINGLE	69.2/80	4.9	93/107	100/110
	RXBH-24A20J	7.2/9.6	1/60	2 - 4.8	MULTIPLE CKT 1	34.6/40.0	4.9	50/57	50/60
	NADII-24A2UJ	7.2/9.6	1/60	2 - 4.8	MULTIPLE CKT 2	34.6/40.0	0.0	44/50	45/50
	RXBH-1724?05J	3.6/4.8	1/60	1 - 4.8	SINGLE	17.3/20.0	4.9	28/32	30/35
	RXBH-1724?07J	5.4/7.2	1/60	2 - 3.6	SINGLE	26.0/30.0	4.9	39/44	40/45
	RXBH-1724?10J	7.2/9.6	1/60	2 - 4.8	SINGLE	34.6/40.0	4.9	50/57	50/60
	RXBH-1724A13J	9.4/12.5	1/60	3-4.17	SINGLE	45.1/52.1	4.9	63/72	70/80
	RXBH-1724A13J	3.1/4.2	1/60	1-4.17	MULTIPLE CKT 1	15.0/17.4	4.9	25/28	25/30
	NADII-1724A133	6.3/8.3	1/60	2-4.17	MULTIPLE CKT 2	30.1/34.7	0.0	38/44	40/45
	RXBH-1724A15J	10.8/14.4	1/60	3-4.8	SINGLE	51.9/60.0	4.9	71/82	80/90
	RXBH-1724A15J	3.6/4.8	1/60	1 - 4.8	MULTIPLE CKT 1	17.3/20.0	4.9	28/32	30/35
	11724A133	7.2/9.6	1/60	2 - 4.8	MULTIPLE CKT 2	34.6/40.0	0.0	44/50	45/50
24" /HM4824	RXBH-1724A18J	12.8/17	1/60	3-5.68	SINGLE	61.6/70.8	4.9	84/95	90/100
	RXBH-1724A18J	4.3/5.7	1/60	1 - 5.68	MULTIPLE CKT 1	20.5/23.6	4.9	32/36	35/40
	117D11-1724A100	8.7/11.3	1/60	2 - 5.86	MULTIPLE CKT 2	41.1/47.2	0.0	52/59	60/60
	RXBH-24A20J	14.4/19.2	1/60	4-4.8	SINGLE	69.2/80	4.9	93/107	100/110
	RXBH-24A20J	7.2/9.6	1/60	2 - 4.8	MULTIPLE CKT 1	34.6/40.0	4.9	50/57	50/60
	IINDII-ZANZUU	7.2/9.6	1/60	2 - 4.8	MULTIPLE CKT 2	34.6/40.0	0.0	44/50	45/50
	RXBH-24A25J (4-ton only)	18.0/24.0	1/60	6-4.0	SINGLE	86.4/99.9	5.2	115/132	125/150
		6.0/8.0	1/60	2-4.0	MULTIPLE CKT 1	28.8/33.3	5.2	43/49	45/50
	RXBH-24A25J (4-ton only)	6.0/8.0	1/60	2-4.0	MULTIPLE CKT 2	28.8/33.3	0.0	36/42	40/45
		6.0/8.0	1/60	2-4.0	MULTIPLE CKT 3	28.8/33.3	0.0	36/42	40/45

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.

J Voltage (230V) single phase air handler is designed to be used with single or three phase 230 volt electric heaters. In the case of connecting 3-phase power to the air handler terminal block without the heater, bring only two leads to the terminal block cap, insulate and fully secure the third lead.

^[] Designates Metric Conversions

Electrical Data – With Electric Heat (con't.)

Installation of the U.L. Listed original equipment manufacturer provided heater kits listed in the following table is recommended for all auxiliary heating requirements.

Air Handler Model RHPN-	Heater Model No.	Heater kW (208/240V)	PH/HZ	No. Elements kW Per	Type Supply Circuit Single Circuit Multiple	Circuit Amps.	Motor Ampacity	Minimum Circuit Ampacity	Maximum Circuit Protection
	RXBH-1724?07J	5.4/7.2	1/60	2 - 3.6	SINGLE	26.0/30.0	4.9	39/44	40/45
	RXBH-1724?10J	7.2/9.6	1/60	2 - 4.8	SINGLE	34.6/40.0	4.9	50/57	50/60
	RXBH-1724A15J	10.8/14.4	1/60	3-4.8	SINGLE	51.9/60.0	4.9	71/82	80/90
	DVDII 1704415 I	3.6/4.8	1/60	1 - 4.8	MULTIPLE CKT 1	17.3/20.0	4.9	28/32	30/35
	RXBH-1724A15J	7.2/9.6	1/60	2 - 4.8	MULTIPLE CKT 2	34.6/40.0	0.0	44/50	45/50
	RXBH-1724A18J	12.8/17	1/60	3-5.68	SINGLE	61.6/70.8	4.9	84/95	90/100
	RXBH-1724A18J	4.3/5.7	1/60	1 - 5.68	MULTIPLE CKT 1	20.5/23.6	4.9	32/36	35/40
	NADH-1/24A10J	8.7/11.3	1/60	2 - 5.86	MULTIPLE CKT 2	41.1/47.2	0.0	52/59	60/60
	RXBH-24A20J	14.4/19.2	1/60	4-4.8	SINGLE	69.2/80	4.9	93/107	100/110
	DVDU 044001	7.2/9.6	1/60	2 - 4.8	MULTIPLE CKT 1	34.6/40.0	4.9	50/57	50/60
	RXBH-24A20J	7.2/9.6	1/60	2 - 4.8	MULTIPLE CKT 2	34.6/40.0	0.0	44/50	45/50
	RXBH-24A25J	18.0/24.0	1/60	6-4.0	SINGLE	86.4/99.9	4.9	115/131	125/150
24" /HM6024		6.0/8.0	1/60	2-4.0	MULTIPLE CKT 1	28.8/33.3	4.9	43/48	45/50
24 /HIVIOU24	RXBH-24A25J	6.0/8.0	1/60	2-4.0	MULTIPLE CKT 2	28.8/33.3	0.0	36/42	40/45
		6.0/8.0	1/60	2-4.0	MULTIPLE CKT 3	28.8/33.3	0.0	36/42	40/45
	RXBH-24A20J	14.4/19.2	1/60	4-4.8	SINGLE	69.2/80	4.9	93/107	100/110
	RXBH-24A20J	7.2/9.6	1/60	2 - 4.8	MULTIPLE CKT 1	34.6/40.0	4.9	50/57	50/60
	NADH-24AZUJ	7.2/9.6	1/60	2 - 4.8	MULTIPLE CKT 2	34.6/40.0	0.0	44/50	45/50
	RXBH-24A25J	18.0/24.0	1/60	6-4.0	SINGLE	86.4/99.9	4.9	115/131	125/150
		6.0/8.0	1/60	2-4.0	MULTIPLE CKT 1	28.8/33.3	4.9	43/48	45/50
	RXBH-24A25J	6.0/8.0	1/60	2-4.0	MULTIPLE CKT 2	28.8/33.3	0.0	36/42	40/45
		6.0/8.0	1/60	2-4.0	MULTIPLE CKT 3	28.8/33.3	0.0	36/42	40/45
	RXBH-24A30J	21.6/28.8	1/60	6-4.8	SINGLE	103.8/120	4.9	136/156	150/175
		7.2/9.6	1/60	2-4.8	MULTIPLE CKT 1	34.6/40.0	4.9	50/57	50/60
	RXBH-24A30J	7.2/9.6	1/60	2-4.8	MULTIPLE CKT 2	34.6/40.0	0.0	44/50	45/50
		7.2/9.6	1/60	2-4.8	MULTIPLE CKT 3	34.6/40.0	0.0	44/50	45/50

[] Designates Metric Conversions

<sup>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.
J Voltage (230V) single phase air handler is designed to be used with single or three phase 230 volt electric heaters. In the case of connecting 3-phase power to the air handler terminal block without the heater, bring only two leads to the terminal block cap, insulate and fully secure the third lead.</sup>

Electrical Wiring

Power Wiring

- Field wiring must comply with the National Electrical Code (C.E.C. in Canada) and any applicable local ordinance.
- Supply wiring must be 75°C minimum copper conductors only.
- See electrical data for product Ampacity rating and Circuit Protector requirement.

Accessories

• Combustible Floor Base RXHB-

Model Cabinet Size	Combustible Floor Base Model Number
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.

Auxiliary Horizontal Overflow Pan Accessory RXBM-

Nominal Cooling Capacity-Tons	Auxiliary Horizontal Overflow Pan Accessory Model Number
11/2 - 3	RXBM-AC48
31/2 - 5	RXBM-AC61

Grounding

- This product must be sufficiently grounded in accordance with National Electrical Code (C.E.C. in Canada) and any applicable local ordinance.
- A grounding lug is provided.

• 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.

• External Filter Base RXHF-

Model Cabinet Size	Filter Size In. [mm]	Part Number*	Α	В
21	20 x 20 [508 x 508]	RXHF-21	19.20	21.0
24	25 x 20 [635 x 508]	RXHF-24	22.70	25.5

^{*}Accommodates 1" or 2" filter

[] Designates Metric Conversions

• External Filter Rack RXHF-B17, B21, B24

Model Cabinet Size	Filter Size In. [mm]	Part Number*	Α	В
21	20 x 20 [508 x 508]	RXHF-B21	20.40	20.77
24	25 x 20 [635 x 508]	RXHF-R24	25.00	21 በ4

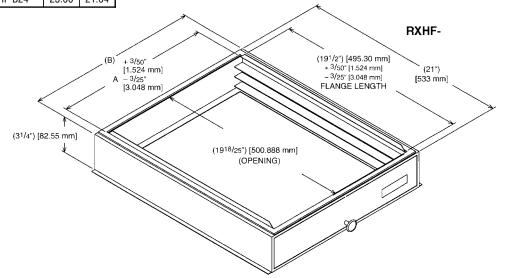
*Accommodates 1" filter

RXHF-B

11/2"
[38 mm]

B

A



GENERAL TERMS OF LIMITED WARRANTY*

Ruud 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.

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^{*}For complete details of the Limited and Conditional Warranties, including applicable terms and conditions, contact your local contractor or the Manufacturer for a copy of the product warranty certificate.



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

Ruud Heating, Cooling & Water Heating • P.O. Box 17010 Fort Smith, Arkansas 72917 • www.ruud.com Ruud Canada • 125 Edgeware Road, Unit 1 Brampton, Ontario • L6Y 0P5