AIR HANDLERS



Equipped with Comfort Control² System[™]

- · Serial communication enabled
- · Increased system reliability and efficiency
- 13 on-board diagnostic and operating codes
- Homeowner "Call for Service" alert





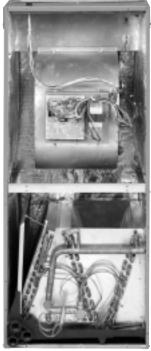
RHPL-SERIES

Communicating Air Handler featuring Earth-Friendly R-410A Refrigerant

Features

- Includes an energy efficient GE® 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.
- Advanced controls provide more comfort and diagnostic options.
- Blower automatically self-configures and no dip switch settings are required when installed with a communicating outdoor unit and a 500-Series Rheem thermostat.













Engineering Features

RHPL-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.
- Advanced controls provide more comfort and diagnostic options.

- 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

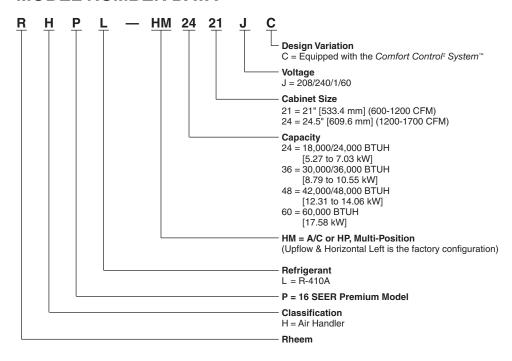
Rheem will furnish a replacement for any part of this product which fails in normal use and service within the applicable periods stated, in accordance with the terms of the limited warranty.

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

Rheem RHPL equipment features a 10-year limited parts warranty.*

*This 10-year limited parts warranty is applicable only to single-phase products installed in residential applications.

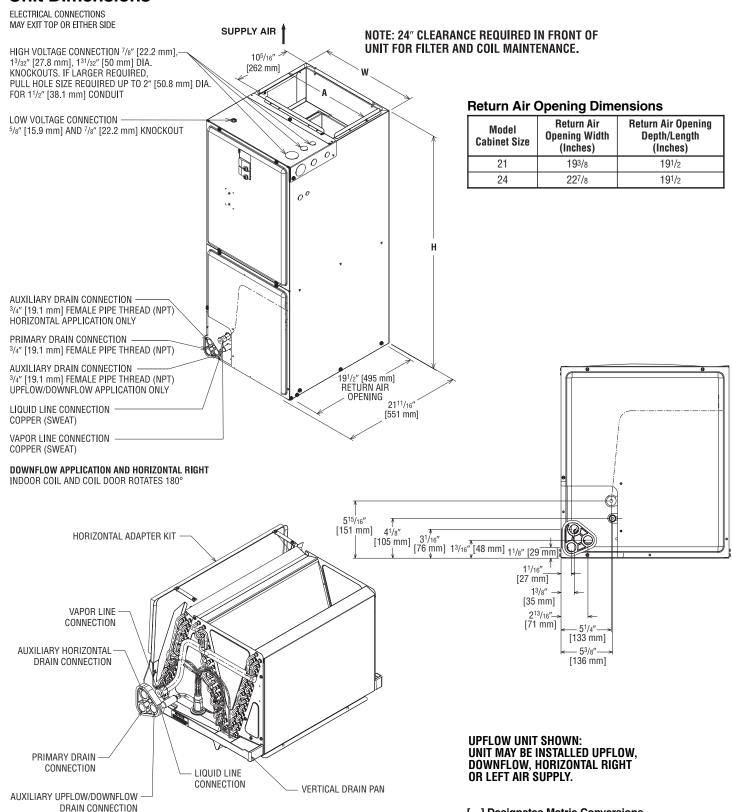
MODEL NUMBER DATA



[] Designates Metric Conversions

Available Models
RHPL-HM2421JC
RHPL-HM3621JC
RHPL-HM4824JC
RHPL-HM6024JC

Unit Dimensions



Unit Dimensions & Weights

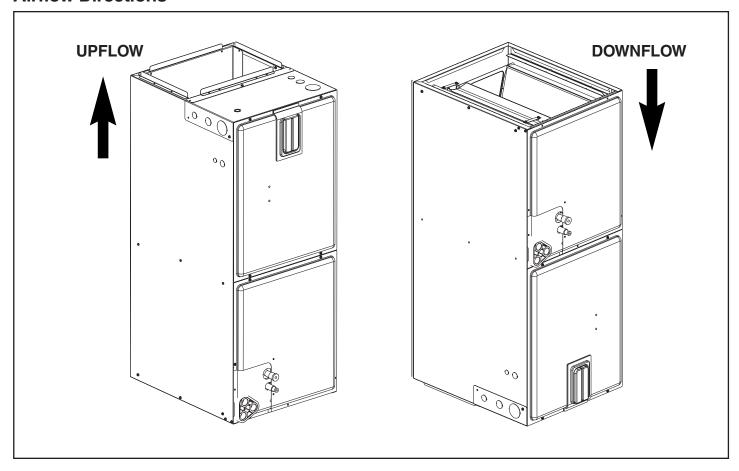
	Unit	Unit	Supply		Nominal Coil	Airflow [L/s]		Unit Weight/Shipping Weight (Lbs.) [kg]		
Model Width						1st Stage		2nd Stage		Unit With
	"W" In. [mm] "H" In. [mm]		"H" In. [mm] "A" In. [mm]		Normal	ODD*	Normal	Coil (Max. KW)		
2421	21 [533]	42 ¹ / ₂ [1080]	19 ¹ / ₂ [495]	480 [227]	625 [295]	640 [302]	775 [366]	92/106 [42/48]		
3621	21 [533]	421/2 [1080]	191/2 [495]	720 [340]	900 [425]	960 [453]	1200 [565]	92/106 [42/48]		
4824	241/2 [622]	551/2 [1410]	23 [584]	960 [453]	1200 [566]	1280 [804]	1625 [767]	162/180 [73/81]		
6024	241/2 [622]	55 ¹ / ₂ [1410]	23 [584]	1040 [491]	1375 [649]	1360 [642]	1675 [791]	181/198 [82/90]		

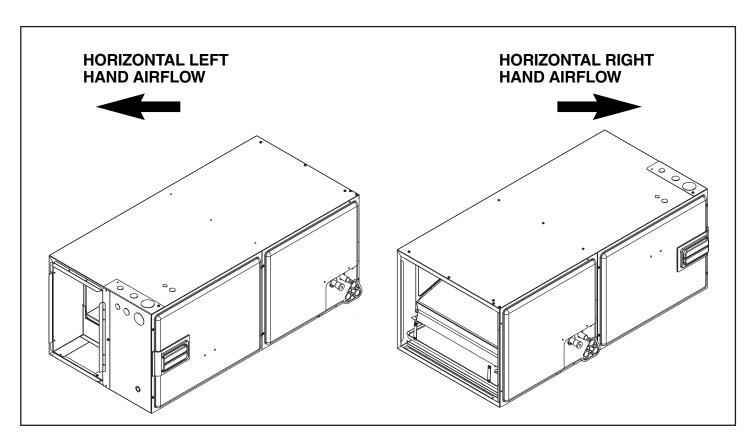
[] Designates Metric Conversions

) Designates Unit with Double Coil Cabinet

^{*}Maximum dehumidification airflow.

Airflow Directions





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 .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

Nominal	Cabinet	Blower		Nominal		ECM CFM [L/s] Air Delivery/RPM/Watts-230 Volts														
Cooling Capacity	Size	Size	Thermostat	Airflow CFM			External Static Pressure – Inches W.C. [kPa]													
cupacity		Motor HP	Input			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]					
			Y1	625	RPM	455	540	620	695	760	825	885	940	985	1030					
2 Ton	21	10 x 8			Watts	40	55	70	85	105	120	135	150	170	185					
2 1011	21	1/3			CFM	775 [366]	775 [366]	775 [366]	800 [378]	800 [378]	825 [389]	825 [389]	825 [389]	825 [389]	825 [389]					
			Y2	775	RPM	540	615	685	750	810	870	925	975	1020	1065					
					Watts	70	90	115	135	160	180	205	225	250	270					
		10 x 8						CFM	875 [413]	900 [425]	900 [425]	900 [425]	900 [425]	900 [425]	900 [425]	900 [425]	900 [425]	875 [413]		
			Y1	900	RPM	570	645	715	775	835	890	945	990	1030	1070					
3 Ton	21				Watts	90	110	135	155	180	200	220	240	265	285					
3 1011	21	1/2	2 Y2	1200	CFM	1175 [555]	1200 [566]	1200 [566]	1200 [566]	1225 [578]	1225 [578]	1200 [566]	1200 [566]	1200 [566]	1200 [566]					
					RPM	700	760	820	875	925	970	1015	1055	1095	1125					
					Watts	180	205	235	265	290	320	345	370	400	425					
		11 x 11								CFM	1200 [566]	1175 [555]	1175 [555]	1200 [566]	1225 [578]	1225 [578]	1200 [566]	1200 [566]	1200 [566]	1200 [566]
			Y1	1200	RPM	535	595	650	700	750	800	840	880	915	950					
4 Ton	24				Watts	130	160	190	220	250	280	305	335	365	390					
4 1011	24	3/4			CFM	1625 [767]	1650 [779]	1650 [779]	1650 [779]	1675 [791]	1675 [791]	1675 [791]	1650 [779]	1650 [779]	1625 [767]					
			Y2	1625	RPM	635	690	745	795	840	880	915	950	980	1005					
					Watts	245	295	340	385	425	465	500	535	565	590					
					CFM	1375 [649]	1375 [649]	1375 [649]	1375 [649]	1375 [649]	1375 [649]	1375 [649]	1350 [637]	1350 [637]	1350 [637]					
				1375	RPM	575	630	685	735	780	825	865	905	945	980					
5 Ton	24	11 x 11			Watts	160	185	215	245	275	305	335	365	395	430					
0 1011	2 1	3/4		2 1675	CFM	1650 [779]	1675 [791]	. ,					1700 [802]	1700 [802]	1700 [802]					
					RPM	690	740	790	835	875	915	955	985	1015	1045					
					Watts	290	335	375	415	455	495	530	560	595	625					

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

[] Designates Metric Conversions

Blower Motor Electrical Data

Nominal Cooling Capacity Tons	HP [W]	Voltage	Phase	Hertz	RPM	Circuit Amps.	Minimum Circuit Ampacity	Maximum Circuit Protector
2	1/3 [249]	208/230	1	60	300-1100	1.7	4.0	15
3	1/2 [373]	208/230	1	60	300-1100	3.4	6.0	15
4	3/4 [559]	208/230	1	60	300-1100	4.9	9.0	15
5	3/4 [559]	208/230	1	60	300-1100	4.9	9.0	15

Electric Heat Electrical DataInstallation of the UL Listed original equipment manufacturer provided heater kits listed in the table below is recommended for all auxiliary heating requirements.

Air Handler Cabinet Size/ Cooling Capacity	Manufacturer Model Number	Type Supply Circuit	Voltage	PH/HZ	Heater kW	Heater AMPS	Motor Ampacity	Maximum Circuit Protection	Minimum Circuit Ampacity
21" / 2 Ton	RXBH-24A05J	Single	208/240	1/60	3.6/4.8	17.3/20.0	1.7	25/30	24/28
	RXBH-24A07J	Single	208/240	1/60	5.4/7.2	26.0/30.0	1.7	35/40	35/40
	RXBH-24A10J	Single	208/240	1/60	7.2/9.6	34.6/40.0	1.7	50/60	46/53
	RXBH-24A05J	Single	208/240	1/60	3.6/4.8	17.3/20.0	3.4	30/30	26/30
	RXBH-24A07J	Single	208/240	1/60	5.4/7.2	26.0/30.0	3.4	40/45	37/42
	RXBH-24A10J	Single	208/240	1/60	7.2/9.6	34.6/40.0	3.4	50/60	48/55
		Single	208/240	1/60	10.8/14.4	51.9/60.0	3.4	70/80	70/80
21" / 3 Ton	RXBH-24A15J	MULTI.CKT 1	208/240	1/60	3.6/4.8	17.3/20.0	3.4	30/30	26/30
		MULTI.CKT 2	208/240	1/60	7.2/9.6	34.6/40.0	0.0	45/50	44/50
	RXBH-24A18J	Single	208/240	1/60	12.8/17	61.6/70.8	3.4	90/100	82/93
		MULTI.CKT 1	208/240	1/60	6.4/8.5	30.8/35.4	3.4	45/50	43/49
		MULTI.CKT 2	208/240	1/60	6.4/8.5	30.8/35.4	0.0	40/45	39/45
	RXBH-24A05J	Single	208/240	1/60	3.6/4.8	17.3/20.0	4.9	30/35	28/32
	RXBH-24A07J	Single	208/240	1/60	5.4/7.2	26.0/30.0	4.9	40/45	39/44
	RXBH-24A10J	Single	208/240	1/60	7.2/9.6	34.6/40.0	4.9	50/60	50/57
	RXBH-24A15J	Single	208/240	1/60	10.8/14.4	51.9/60.0	4.9	80/90	72/82
		MULTI.CKT 1	208/240	1/60	3.6/4.8	17.3/20.0	4.9	30/35	28/32
		MULTI.CKT 2	208/240	1/60	7.2/9.6	34.6/40.0	0	45/50	44/50
		Single	208/240	1/60	12.8/17	61.6/70.8	4.9	90/100	84/95
0.411 / 4. Taur	RXBH-24A18J	MULTI.CKT 1	208/240	1/60	6.4/8.5	30.8/35.4	4.9	45/60	45/51
24" / 4 Ton		MULTI.CKT 2	208/240	1/60	6.4/8.5	30.8/35.4	0	40/45	39/45
		Single	208/240	1/60	14.4/19.2	69.2/80.0	4.9	100/110	93/107
	RXBH-24A20J	MULTI.CKT 1	208/240	1/60	7.2/9.6	34.6/40.0	4.9	50/60	50/57
		MULTI.CKT 2	208/240	1/60	7.2/9.6	34.6/40.0	0	45/50	44/50
		Single	208/240	1/60	18.0/24.0	87.0/99.9	4.9	125/150	115/132
	RXBH-24A25J	MULTI.CKT 1	208/240	1/60	6.0/8.0	29.0/33.3	4.9	45/50	43/48
	(4 ton only)	MULTI.CKT 2	208/240	1/60	6.0/8.0	29.0/33.3	0	40/45	37/42
		MULTI.CKT 3	208/240	1/60	6.0/8.0	29.0/33.3	0	40/45	37/42

[] 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>

Electric Heat Electrical Data (Cont.)
Installation of the UL Listed original equipment manufacturer provided heater kits listed in the table below is recommended for all auxiliary heating requirements.

Air Handler Cabinet Size/ Cooling Capacity	Manufacturer Model Number	Type Supply Circuit	Voltage	PH/HZ	Heater kW	Heater AMPS	Motor Ampacity	Maximum Circuit Protection	Minimum Circuit Ampacity
	RXBH-24A05J	Single	208/240	1/60	3.6/4.8	17.3/20.0	4.9	30/35	28/32
	RXBH-24A07J	Single	208/240	1/60	5.4/7.2	26.0/30.0	4.9	40/45	39/44
	RXBH-24A10J	Single	208/240	1/60	7.2/9.6	34.6/40.0	4.9	50/60	50/57
		Single	208/240	1/60	10.8/14.4	51.9/60.0	4.9	80/90	72/82
	RXBH-24A15J	MULTI.CKT 1	208/240	1/60	3.6/4.8	17.3/20.0	4.9	30/35	28/32
		MULTI.CKT 2	208/240	1/60	7.2/9.6	34.6/40.0	0	45/50	44/50
		Single	208/240	1/60	12.8/17	61.6/70.8	4.9	90/100	84/95
	RXBH-24A18J	MULTI.CKT 1	208/240	1/60	6.4/8.5	30.8/35.4	4.9	45/60	45/51
		MULTI.CKT 2	208/240	1/60	6.4/8.5	30.8/35.4	0	40/45	39/45
24" / 5 Ton	RXBH-24A20J	Single	208/240	1/60	14.4/19.2	69.2/80.0	4.9	100/110	93/107
24 / 5 1011		MULTI.CKT 1	208/240	1/60	7.2/9.6	34.6/40.0	4.9	50/60	50/57
		MULTI.CKT 2	208/240	1/60	7.2/9.6	34.6/40.0	0	45/50	44/50
		Single	208/240	1/60	18.0/24.0	87.0/99.9	4.9	125/150	115/132
	RXBH-24A25J	MULTI.CKT 1	208/240	1/60	6.0/8.0	29.0/33.3	4.9	45/50	43/48
	NADIT-24A200	MULTI.CKT 2	208/240	1/60	6.0/8.0	29.0/33.3	0	40/45	37/42
		MULTI.CKT 3	208/240	1/60	6.0/8.0	29.0/33.3	0	40/45	37/42
		Single	208/240	1/60	21.8/28.8	103.8/120	4.9	135/168	150/175
	RXBH-24A30J	MULTI.CKT 1	208/240	1/60	7.2/9.6	34.8/40.0	4.9	49/56	50/60
	11/011-244303	MULTI.CKT 2	208/240	1/60	7.2/9.6	34.8/40.0	0	44/50	45/50
		MULTI.CKT 3	208/240	1/60	7.2/9.5	34.8/40.0	0	44/50	45/50

- Supply circuit protective devices may be fuses or "HACR" type circuit breakers.
- 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.
- 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.

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.

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.

Accessories-Kits—Parts

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.

• External Filter Base RXHF-

Model Cabinet Size	Filter Size In. [mm]	Part Number ①	A	В
21	20 x 20 [508 x 508]	RXHF-21	19.20	21.00
24	25 x 20 [635 x 508]	RXHF-24	22.70	25.50

① Accommodates 1" or 2" filter

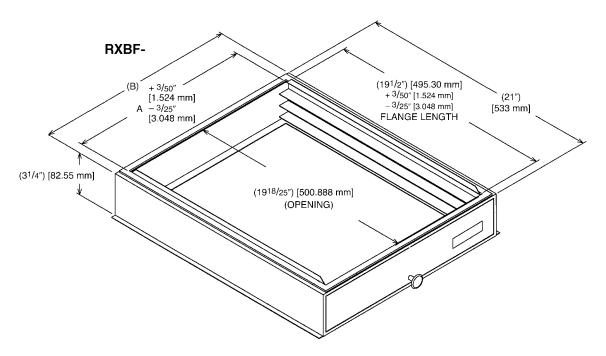
Nominal Cooling Capacity-Tons	Auxiliary Horizontal Overflow Pan Accessory Model Number
2 - 3	RXBM-AC48
4 - 5	RXBM-AC61

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.

 RXHT-A01 Thermistor Kit is used with the communicating air handler control to monitor the system return and supply air temperatures.

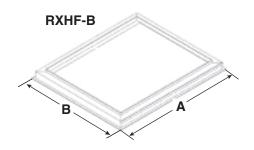
[] Designates Metric Conversions



• External Filter Base RXHF-B

Model Cabinet Size	Filter Size In. [mm]	Part Number ①	A	В
21	20 x 20 [508 x 508]	RXHF-B21	20.40	20.77
24	25 x 20 [635 x 508]	RXHF-B24	25.00	21.04

① Accommodates 1" filter



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 Heating, Cooling and Water Heating

P.O. Box 17010, Fort Smith, AR 72917

