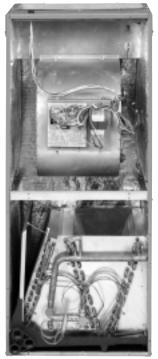
AIR HANDLERS







AIR HANDLERS
RHPN- SERIES – 18 SEER
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.
- External filter required.









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.
- Compact unit design.
- 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

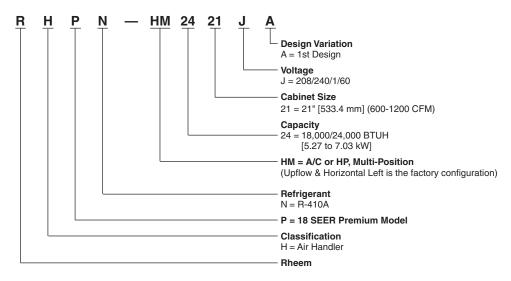
Rheem will furnish a replacement for any part of this product which fails in normal use and service within the applicable periods stated, in accordance with the terms of the limited warranty.

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

Rheem *Prestige Series®* 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



	Electrical Designation & Airflow Performance Information								
INDUNI	Cabinet	J = 208/240V, 1 PH, 60 Hz	1) Motor H.P. [W] 2) Blower CFM [L/s] 1st/2nd Stage						
	Size	Control Designation S = Circuit Breaker(s)	3) Blower Wheel Dia./Width [mm] 4) Tonnage						
2421	21 = 21.0"	05 07 10	1) 1/3 H.P. [249] 2) 600/800 CFM [283/378] 3) 10 x 8 [254 x 203] 4) 2 Ton						

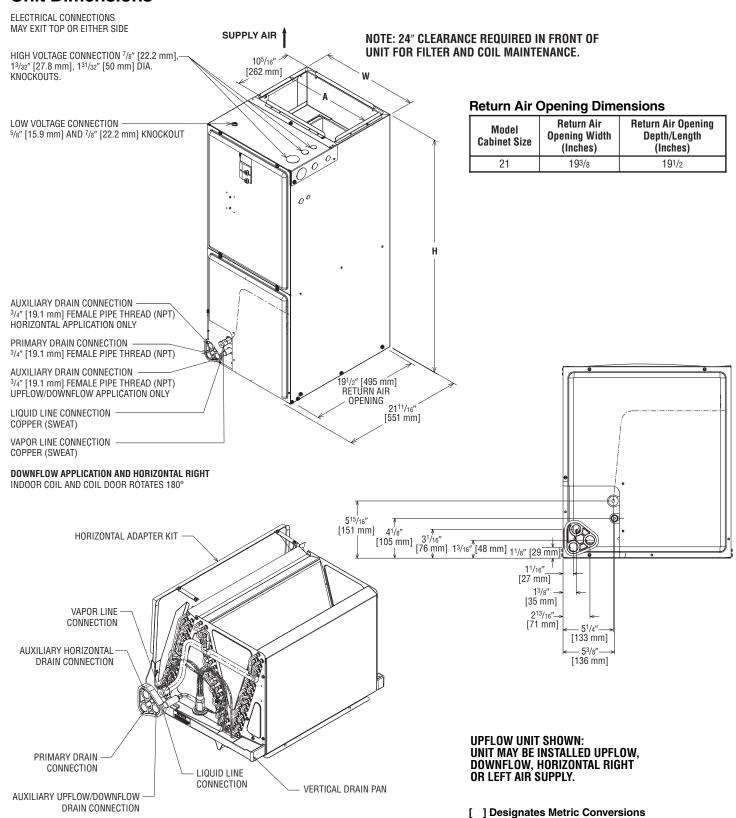
NOTES:

- ① Electrical Heat Designation: See electrical heat electrical data for actual heater kW represented by number above.
- © 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.

[] Designates Metric Conversions

Unit Dimensions



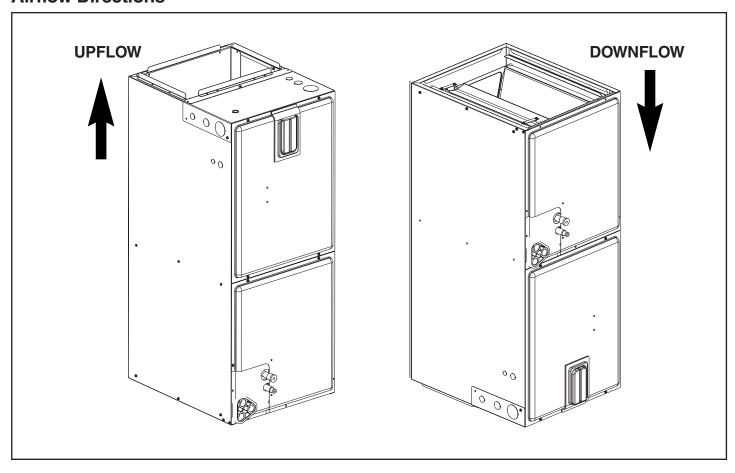
Unit Dimensions & Weights

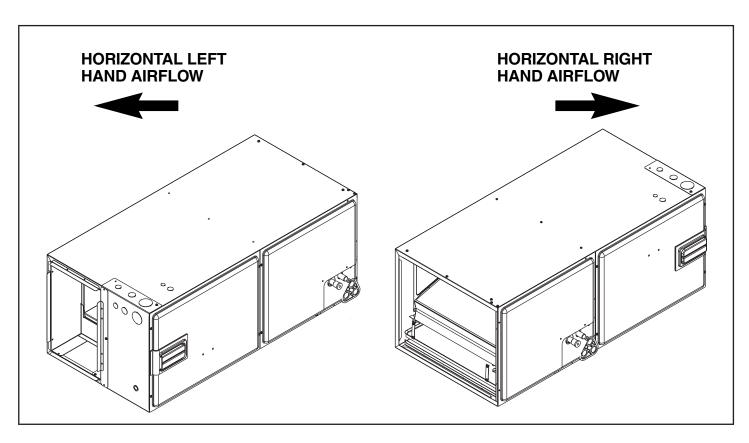
	Unit	Unit	Supply Duct "A" In. [mm]		Nominal Coil	Airflow [L/s]	Unit Weight/Shipping Weight (Lbs.) [kg]		
Model	Width "W" In. [mm]	Height		1st Stage		2nd Stage		Unit With	
		"H" In. [mm]		ODD*	Normal	ODD*	Normal	Coil (Max. KW)	
2421	21 [533]	421/2 [1080]	191/2 [495]	480 [227]	575 [271]	640 [302]	775 [366]	92/106 [42/48]	

) 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 Cabin	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]								
Capacity		Motor HP	Input			0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00
		10 x 8 1/3	Y1 10 x 8	575	CFM	570 [269]	571 [269]	572 [270]	573 [270]	574 [271]	575 [271]	576 [272]	577 [272]	578 [273]	579 [273]
					RPM	459	525	591	657	724	790	856	722	988	1054
2 Ton	21				Watts	37	54	71	88	105	123	140	157	174	191
2 1011	21			775	CFM	772 [364]	778 [367]	783 [370]	788 [372]	794 [375]	799 [377]	805 [380]	810 [382]	816 [385]	821 [387]
			Y2		RPM	486	550	615	679	744	809	873	938	1003	1061
					Watts	56	80	104	128	151	175	199	228	247	271

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

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

Electric Heat Electrical Data

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	1.7	25/30	24/28
21" / 2 Ton	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

- $\bullet \ \text{Supply circuit protective devices may be fuses or "HACR" type circuit breakers.}$
- 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 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		

- 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-

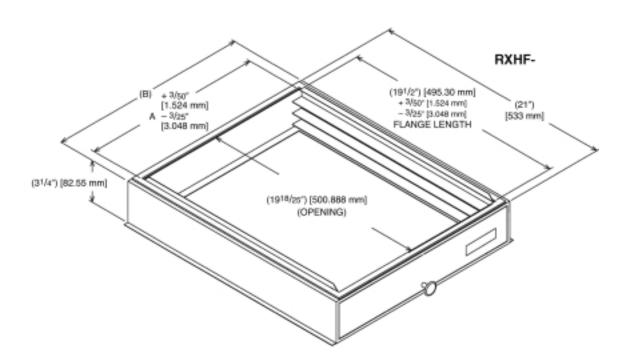
Model Cabinet Size	Filter Size In. [mm]	Part Number	A	В
21	20 x 20 [508 x 508]	RXHF-21	19.20	21.00

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

• 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.

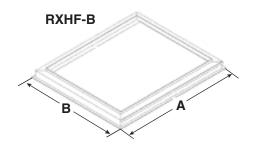
[] Designates Metric Conversions



• External Filter Base RXHF-B

Model Cabinet Size	Filter Size In. [mm]	Part Number*	Α	В	
21	20 x 20 [508 x 508]	RXHF-B21	20.40	20.77	

^{*}Accommodates 1" filter



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

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