

# OIL FURNACES



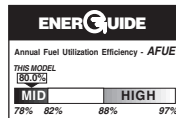
## CLASSIC® PREMIUM CLASS UPFLOW OIL FURNACES

### ROBD- SERIES

Heating Capacities  
56,000 to 151,200 BTU/HR  
[16.41 to 44.30 kW]

The Rheem® Classic Premium Class upflow oil furnace is for installation in utility rooms, closets, or alcoves.

- Direct drive blower assemblies for heating and air conditioning applications.
- A crimped design stainless steel heat exchanger for efficient heat transfer.
- Low profile design is lighter, easier to handle, and replaces the old style highboy and lowboy models.
- Removable flue box to easily clean secondary heat exchanger.
- Blower/motor combinations, cooling coil plenums, return air cabinets, and other air conditioning accessories are available for air conditioning applications.
- Factory tested prior to shipment, each furnace is operated and checked by factory quality control to reduce problems at installation.
- Rheem Classic oil furnaces offer a wide selection of models and types for almost any installation.
- All oil furnace models are completely factory assembled with burner mounted ready for operation.
- All models are UL listed and ULC listed.
- Adjustable solid state fan cycle control.





# CLASSIC PREMIUM CLASS UPFLOW OIL FURNACE

## STANDARD EQUIPMENT

Completely assembled and wired; front concealed controls and flue box; pressure atomizing oil burner with single stage fuel pump; continuous duty ignition with lockout feature; removable flue collector box for easy cleaning; direct drive, multi-speed, circulating air blower; adjustable solid state fan timer; limit controls; permanent cleanable filter and frame for left or right side of casing or bottom return; barometric draft control; all models are equipped with controls for air conditioning; solid metal base plate installed standard on all models when bottom return not utilized.

**WARNING**  
THIS FURNACE IS NOT APPROVED  
OR RECOMMENDED  
FOR USE IN MOBILE HOMES

## MODEL IDENTIFICATION—UPFLOW MODELS

R	O	B	D—	067	L	B	E	A
Rheem	Oil	Upflow	Design	Heating Capacity	Blower	Variations	Heating & Cooling	Fuel Pump
Furnace			Series	Output	Designation	B = 1st	Designation	A—Single Stage
				Output	L = 10 x 7DD [254 x 178 mm]	Variation		(U.S.)
				BTU/HR	Q = 10 x 10DD [254 x 254 mm]		E—1100-1330 CFM [519-628 L/s]	C—Single Stage
					R = 11 x 10DD [279 x 254 mm]		G—1450-1750 CFM [684-826 L/s]	(Canadian)
							J—1800-2075 CFM [850-979 L/s]	
				067 {				
				56,000 [16.41 kW]				
				67,200 [19.69 kW]				
				112 {				
				84,000 [24.62 kW]				
				95,200 [27.90 kW]				
				112,000 [32.83 kW]				
				150 {				
				134,400 [39.38 kW]				
				151,200 [44.30 kW]				

**THIS FURNACE USES NO. 2 FUEL OIL.  
FUEL OILS ARE RATED BY THE AMERICAN  
PETROLEUM INSTITUTE (API).**

**BEFORE PURCHASING THIS APPLIANCE, READ IMPORTANT ENERGY COST AND EFFICIENCY INFORMATION AVAILABLE FROM YOUR RETAILER.**

## **SPECIFICATIONS AND DIMENSIONS—U.S. & CANADA**

<b>Models</b>	<b>067</b>		<b>112</b>			<b>150</b>	
<b>HEATING CAPACITY [BTU/H] [kW]</b>	<b>56,000 [16.41]</b>	<b>67,200 [19.69]</b>	<b>84,000 [24.62]</b>	<b>95,200 [27.90]</b>	<b>112,000 [32.83]</b>	<b>134,400 [39.38]</b>	<b>151,200 [44.30]</b>
INPUT—BTU/H [kW]	70,000 [20.51]	84,000 [24.62]	105,000 [30.77]	119,000 [34.88]	140,000 [41.03]	168,000 [49.24]	189,000 [55.40]
FIRING RATE—GPH [Liters/HR]	.50 [1.9]	.65 [2.5]	.75 [2.8]	.85 [3.2]	1.00 [3.8]	1.20 [4.5]	1.35 [5.1]
STD. NOZZLE SIZE	70° x SOLID	70° x SOLID	70° x SOLID	70° x SOLID	70° x SOLID	70° x SOLID	70° x SOLID
BLOWER MOTOR DRIVE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT
BLOWER—DIA. x WIDTH [mm]	10 x 7 [254 x 178]	10 x 7 [254 x 178]	10 x 10 [254 x 254]	10 x 10 [254 x 254]	10 x 10 [254 x 254]	11 x 10 [279 x 254]	11 x 10 [279 x 254]
MOTOR H.P. [W] (NO. OF SPEEDS)	1/4 [186] (4)	1/4 [186] (4)	1/2 [373] (4)	1/2 [373] (4)	1/2 [373] (4)	3/4 [559] (4)	3/4 [559] (4)
HEATING/COOLING SPEED TAPS	MED-LO/HIGH	MED-HI/HIGH	LOW/MED-HI	MED-LO/MED-HI	MED-HI/HIGH	MED-HI/HIGH	MED-HI/HIGH
WIDTH IN. [mm]	21 [533]	21 [533]	24 1/2 [622]	24 1/2 [622]	24 1/2 [622]	28 [711]	28 [711]
DEPTH IN. [mm]	28 3/4 [730]	28 3/4 [730]	28 3/4 [730]	28 3/4 [730]	28 3/4 [730]	28 3/4 [730]	28 3/4 [730]
HEIGHT IN. [mm]	46 [1168]	46 [1168]	46 [1168]	46 [1168]	46 [1168]	49 [1245]	49 [1245]
HEIGHT OF RETURN CONN. IN. [mm]	15 [381]	15 [381]	15 [381]	15 [381]	15 [381]	15 [381]	15 [381]
WIDTH OF RETURN CONN. IN. [mm]	23 [584]	23 [584]	23 [584]	23 [584]	23 [584]	23 [584]	23 [584]
WIDTH OF SUPPLY CONN. IN. [mm]	19 1/2 [495]	19 1/2 [495]	23 [584]	23 [584]	23 [584]	26 1/2 [673]	26 1/2 [673]
LENGTH OF SUPPLY CONN. IN. [mm]	20 [508]	20 [508]	20 [508]	20 [508]	20 [508]	20 [508]	20 [508]
FILTER RACK RXGF-	Z16B	Z16B	Z16B	Z16B	Z16B	Z16B	Z16B
HEATING EXT. STATIC PRESSURE IN. [kPa]	.2 [.05]	.2 [.05]	.2 [.05]	.2 [.05]	.2 [.05]	.2 [.05]	.2 [.05]
MAX. EXTERNAL STATIC PRESSURE IN. [kPa]	.5 [.12]	.5 [.12]	.5 [.12]	.5 [.12]	.5 [.12]	.5 [.12]	.5 [.12]
TEMPERATURE RISE RANGE °F [°C]	40-70 [22-39]	40-70 [22-39]	50-80 [28-44]	50-80 [28-44]	50-80 [28-44]	60-90 [33-50]	60-90 [33-50]
BLOWER MOTOR FULL LOAD AMPS	5.7	5.7	8.7	8.7	8.7	11.0	11.0
TOTAL CURRENT	7.5	7.5	10.8	10.8	14.1	16.1	16.1
MINIMUM CIRCUIT AMPACITY	11.6	11.6	12.2	12.2	16.3	18.8	18.8
FLUE SIZE—DIA. IN. [mm]	5 [127]	5 [127]	5 [127]	5 [127]	5 [127]	7 [178]	7 [178]
AIR DELIVERY (HEATING/COOLING) ③	795/1140	915/1140	1040/1375	1230/1375	1375/1500	1715/2070	1715/2070
AIR FILTER SIZE (QTY.) IN. [mm]	(1) 16 x 25 x 1 ② [406 x 635 x 25]	(1) 16 x 25 x 1 ② [406 x 635 x 25]	(1) 16 x 25 x 1 ② [406 x 635 x 25]	(1) 16 x 25 x 1 ② [406 x 635 x 25]	(1) 16 x 25 x 1 ② [406 x 635 x 25]	(1) 16 x 25 x 1 ② [406 x 635 x 25]	(1) 16 x 25 x 1 ② [406 x 635 x 25]
APPROX. SHIP WT. (LBS.) [kg]	160 [72.6]	160 [72.6]	198 [89.8]	198 [89.8]	198 [89.8]	207 [93.9]	207 [93.9]
AFUE (ISOLATED COMBUSTION) ①	<b>82.9%</b>	<b>80.8%</b>	<b>82.0%</b>	<b>81.4%</b>	<b>80.0%</b>	<b>82.1%</b>	<b>81.5%</b>

① In accordance with D.O.E. test procedures

② Permanent cleanable filter (Rated @ 600 F.P.M. [3 m/s])

③ Heating/cooling C.F.M. @ .5" [.12 kPa] W.C.

[ ] Designates Metric Conversions

# BLOWER PERFORMANCE DATA—UPFLOW MODELS

MODEL NUMBER	CONFIGURATION INPUT BONNET CAP [btu]	BLOWER SIZE (IN.) [mm]	MOTOR HP [W]	BLOWER SPEED	CFM [L/s] AIR DELIVERY E.S.P. INCHES [kPa] WATER COLUMN			
					0.5 [.12]	0.4 [.10]	0.3 [.07]	0.2 [.05]
ROBD-067LBE	70,000 [56,000]	10 x 7 [254 x 178]	1/4 [186]	LOW MED-LO* MED-HI HIGH +	600 [283] 795 [375] 915 [432] 1140 [538]	620 [293] 835 [394] 940 [444] 1190 [562]	635 [300] 870 [411] 955 [451] 1230 [580]	645 [304] 885 [418] 970 [458] 1260 [595]
	84,000 [67,200]	10 x 7 [254 x 178]	1/4 [186]	LOW MED-LO MED-HI* HIGH +	600 [283] 795 [375] 915 [432] 1140 [538]	620 [293] 835 [394] 940 [444] 1190 [562]	635 [300] 870 [411] 955 [451] 1230 [580]	645 [304] 885 [418] 970 [458] 1260 [595]
ROBD-112QBG	105,000 [84,000]	10 x 10 [254 x 254]	1/2 [373]	LOW* MED-LO MED-HI + HIGH	1040 [491] 1230 [580] 1375 [649] 1500 [708]	1065 [503] 1260 [595] 1430 [675] 1575 [743]	1080 [510] 1285 [606] 1480 [698] 1645 [776]	1090 [514] 1300 [614] 1530 [722] 1705 [805]
	119,000 [95,200]	10 x 10 [254 x 254]	1/2 [373]	LOW MED-LO* MED-HI + HIGH	1040 [491] 1230 [580] 1375 [649] 1500 [708]	1065 [503] 1260 [595] 1430 [675] 1575 [743]	1080 [510] 1285 [606] 1480 [698] 1645 [776]	1090 [514] 1300 [614] 1530 [722] 1705 [805]
	140,000 [112,000]	10 x 10 [254 x 254]	1/2 [373]	LOW MED-LO MED-HI* HIGH +	1040 [491] 1230 [580] 1375 [649] 1500 [708]	1065 [503] 1260 [595] 1430 [675] 1575 [743]	1080 [510] 1285 [606] 1480 [698] 1645 [776]	1090 [514] 1300 [614] 1530 [722] 1705 [805]
ROBD-150RBJ	168,000 [134,400]	11 x 10 [279 x 254]	3/4 [559]	LOW MED-LO MED-HI* HIGH +	1045 [493] 1375 [649] 1715 [809] 2070 [977]	1055 [498] 1400 [661] 1745 [824] 2110 [996]	1070 [505] 1435 [677] 1760 [831] 2145 [1012]	1090 [514] 1450 [684] 1770 [835] 2175 [1026]
	189,000 [151,200]	11 x 10 [279 x 254]	3/4 [559]	LOW MED-LO MED-HI* HIGH +	1045 [493] 1375 [649] 1715 [809] 2070 [977]	1055 [498] 1400 [661] 1745 [824] 2110 [996]	1070 [505] 1435 [677] 1760 [831] 2145 [1012]	1090 [514] 1450 [684] 1770 [835] 2175 [1026]

NOTES: \*HEATING SPEED  
+COOLING SPEED

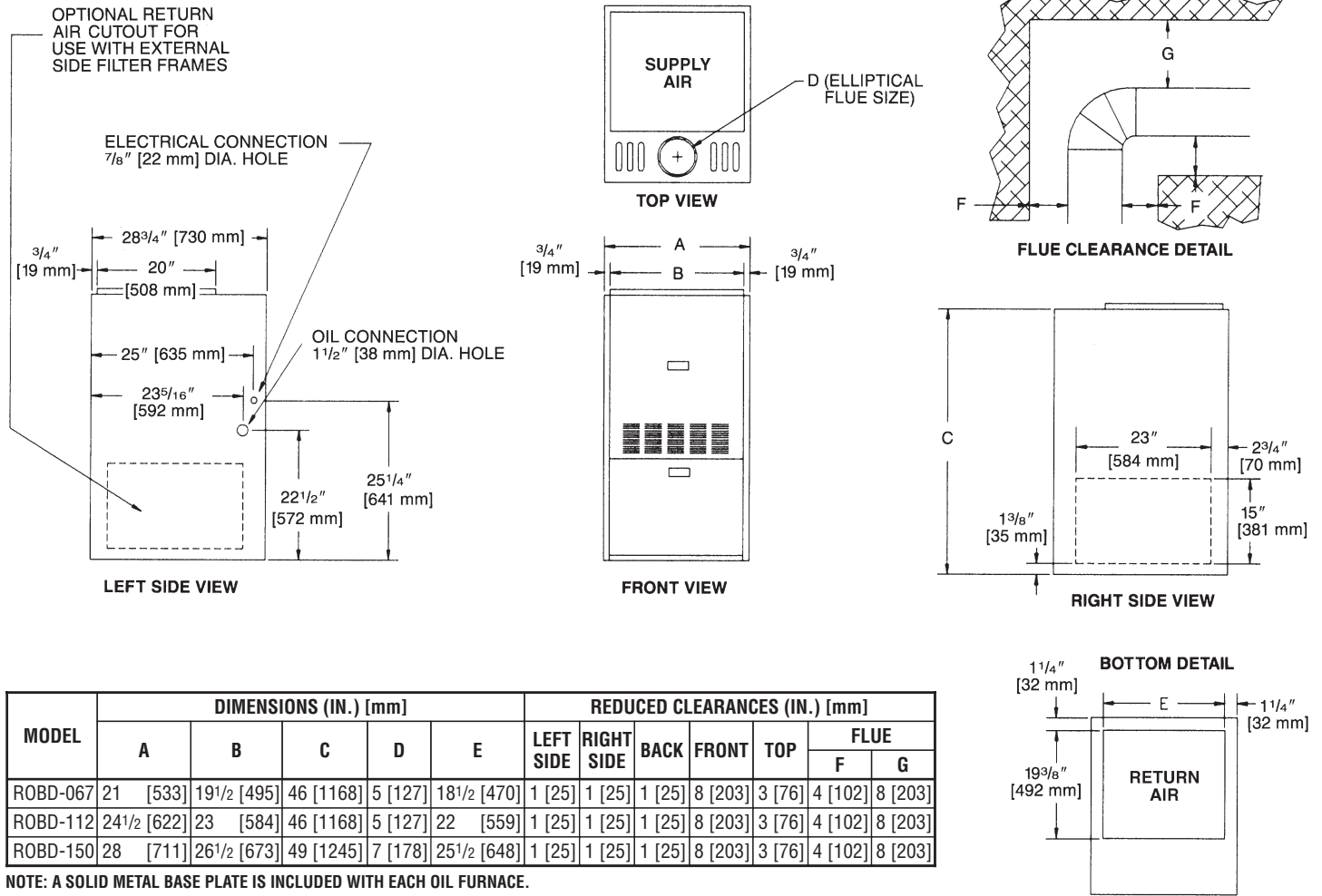
## GENERAL TERMS OF LIMITED WARRANTY

Rheem will furnish a replacement for any part of this product which fails in normal use and service within the applicable period stated here, 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.

Oil Heat Exchanger ..... Limited Lifetime  
Any Other Part ..... Five (5) Years

# DIMENSIONS AND CLEARANCES TO COMBUSTIBLES



# ACCESSORIES

## RXOP-D25 PARALLEL FURNACE KIT

For twinning two upflow oil furnaces.

### PLENUM DATA

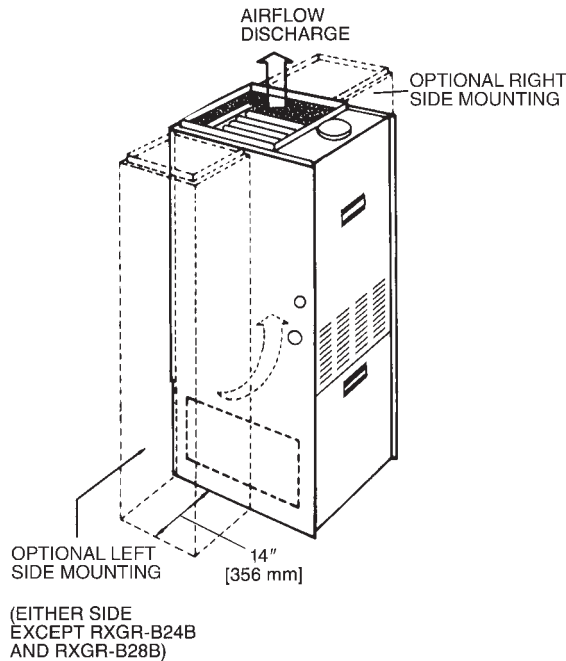
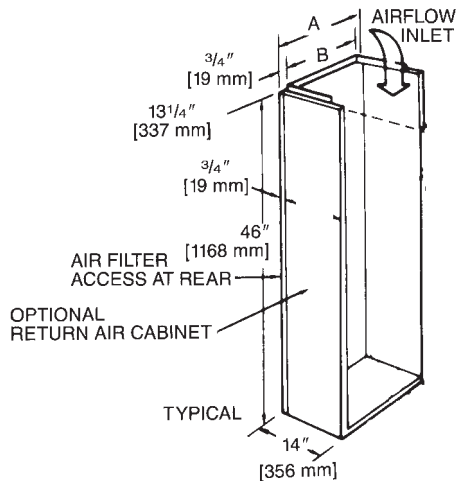
Plenum adapters are required in some instances for use on upflow applications when plenum and furnace size do not match.

FURNACE WIDTH (IN.) [mm]	PLENUM WIDTH (IN.) [mm]	PLENUM ADAPTER UPFLOW	COIL PLENUM
21 [533]	21 [533]	—	RXBC-A21
24 1/2 [622]	24 1/4 [616]	—	RXBC-A24
28 [711]	24 1/2 [622]	RXBA-AD	RXBC-A24

## ACCESSORY RETURN AIR CABINETS

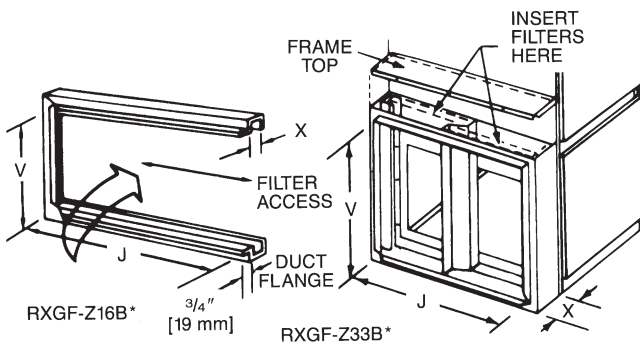
### RETURN AIR CABINETS

Return Air Cabinets may be installed on either side application except RXGR-B24B & RXGR-B28B. Side application must be on side opposite oil and electrical connections. 1800 CFM & over use side or bottom return only.



RETURN AIR CABINETS	A	B
RXGR-B21B	21 [533]	19 1/2 [495]
RXGR-B24B	24 1/2 [622]	23 [584]
RXGR-B28B	28 [711]	26 1/2 [673]

## EXTERNAL SIDE FILTER FRAMES



EXTERNAL SIDE FILTER FRAMES	J	V	X
RXGF-Z16B	23 [584]	14 [356]	1 1/4 [32]
RXGF-Z33B	26 1/2 [673]	23 1/2 [597]	6 [152]

NOTE: J and V are plenum dimensions.  
\*Filters Supplied With Filter Frame

# ACCESSORIES (cont.)

## SS1-R SIDEWALL VENT SYSTEM

This furnace is agency approved by UL, ULC and CSA for use with the Tjernlund SS1-R Sidewall Vent System (date code of 012204 or later) when installed in accordance with the installation instructions provided by Tjernlund. Common venting with another appliance is **NOT** an option when using the Tjernlund SS1-R. The use of any other type of power vent system is not approved or recommended by the manufacturer.

## TWO-STAGE PUMP

For applications requiring extra lifts, two-stage fuel pumps are available from PROSTOCK™ as part number 59-17047-04.

## FOSSIL FUEL KITS

RXPF-F01—Use for standard heat pump applications.

RXPF-F02—Use for TVA (Tennessee Valley Authority) applications.

# COIL SELECTION CHART

##—GG or GH.

X—Coils can be mounted to Upflow Oil Furnaces as listed in the table below, 21 & 24 (GG & GH) Coils have front & side connect drain fittings.

CASED COIL MODEL NUMBER	OIL FURNACE MODEL SIZE		
	-067	-112	-150
HEATING CAPACITY [BTU/H] [kW]	56,000 [16.41 kW] 67,200 [19.69 kW]	84,000 [24.62 kW] 95,200 [27.90 kW] 112,000 [32.83 kW]	134,400 [39.38 kW] 151,200 [44.30 kW]
RCBA-24**##21	X		
RCBA-36**##21	X		
RCBA-36**##24		X	
RCBA-48**##24		X	<input type="checkbox"/>
RCBA-60**##24			<input type="checkbox"/>
CABINET WIDTH IN. [mm]	21 [533]	24½ [622]	28 [711]

NOTES: \*\*—Indicates piston size.

—Requires plenum adapter accessory RXBA-AE (upflow applications only).

[ ] Designates Metric Conversions

**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."*