FORM NO. G66-498 REV. 5
Supersedes Form No. G66-498 Rev. 4



90 HIGH EFFICIENCY DOWNFLOW/ HORIZONTAL GAS FURNACES

The WeatherKing® 90 High Efficiency line of downflow/ horizontal gas furnaces are designed for utility rooms, closets, alcoves, attics or crawl spaces. The RGTS is shipped in the downflow configuration and is easily converted for horizontal **left-hand** airflow applications.

The design is certified by CSA.

Features

- Low profile “34 inch” design is lighter and easier to handle and leaves room for optional accessories.
- Top electrical connections, left or right gas and condensate drainage connections on downflow models.
- Condensate drain for horizontal application provided standard.
- Integrated control board manages all operational functions and provides hookups for an electronic air cleaner.
- A slow-opening gas valve and a specially designed inducer system make it one of the quietest furnaces on the market today.
- Galvanized steel cabinet.
- Optional indoor or outdoor combustion air.
- Control board diagnostics.

A variety of cooling coils and plenums designed to use with the WeatherKing 90 gas furnaces are available as optional accessories for air conditioning models.

†A.F.U.E. (Annual Fuel Utilization Efficiency) calculated in accordance with Department of Energy test procedures.

RGTS- SERIES

Models with Input Rates from 45,000 to 120,000 BTU/HR [13.19 to 35.17 kW]

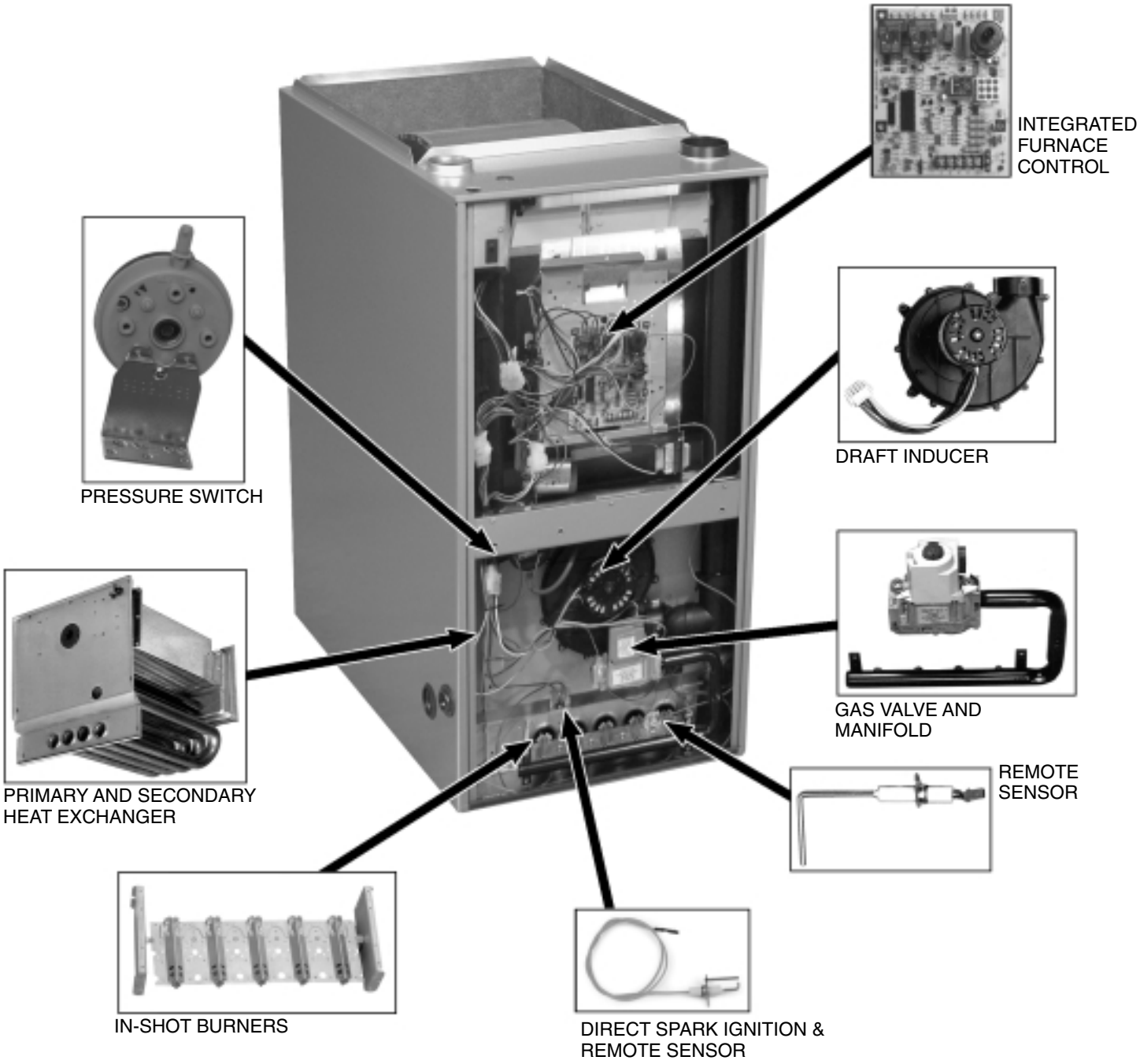
(All Models 90% A.F.U.E.† or Above)

Accredited by the RvA
ISO 9001:2008
Certificate Number: 30164

ENERGY STAR

member gama

90 HIGH EFFICIENCY DOWNFLOW/HORIZONTAL GAS FURNACE



STANDARD EQUIPMENT

Completely assembled and wired; heat exchanger; primary: aluminized steel, secondary: 29-4C stainless steel; induced draft; pressure switch; redundant main gas control; blower compartment door safety switch; solid state time on/off blower control; limit controls; manual shut-off valve; 100% safety lock out; cool fan off delay; field selectable heat fan off delay; one hour automatic retry; self-test diagnostics; control diagnostics; electronic air cleaner connections; pressure regulator for natural and L.P. (propane) gases; transformer; direct drive, multi-speed blower motor.
(Please note: a thermostat is not included as standard equipment.)

OPTIONAL EQUIPMENT

(See Accessory Page)

All models can be converted by a qualified distributor or local service dealer to use L.P. (propane) gas without changing burners. Factory approved kits must be used to convert from natural to L.P. (propane) gas and may be ordered as optional accessories from a parts distributor.

For L.P. (propane) operation, refer to Conversion Kit Index Form.

WARNING

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

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

PHYSICAL DATA AND SPECIFICATIONS
DOWNFLOW/HORIZONTAL MODELS U.S. and Canadian Models

MODEL NUMBERS RGTS- SERIES	04EMAES	06EMAES	07EMAES	07EYBGS	09EZAGS	09EZAJS	10EZAJS	12ERAJS
INPUT-BTU/HR [kW] ①	45,000 [13.19]	60,000 [17.58]	75,000 [21.98]	75,000 [21.98]	90,000 [26.37]	90,000 [26.37]	105,000 [30.77]	120,000 [35.17]
HEATING CAPACITY BTU/HR [kW]	42,000 [12.31]	56,000 [16.41]	70,000 [20.51]	70,000 [20.51]	84,000 [24.61]	84,000 [24.61]	97,000 [28.43]	113,000 [33.12]
HIGH ALTITUDE INPUT [kW] ②	40,500 [11.87]	54,000 [15.83]	67,500 [19.78]	67,500 [19.78]	81,000 [23.73]	81,000 [23.73]	94,500 [27.70]	108,000 [31.65]
HIGH ALTITUDE OUTPUT CAPACITY [kW] ②	37,800 [11.07]	50,400 [14.77]	63,000 [18.46]	63,000 [18.46]	76,000 [22.27]	76,000 [22.27]	87,500 [25.64]	100,000 [29.31]
BLOWER (D x W) [mm]	11 x 7 [279 x 178]	11 x 7 [279 x 178]	11 x 7 [279 x 178]	12 x 7 [305 x 178]	12 x 11 [305 x 279]	12 x 11 [305 x 279]	12 x 11 [305 x 279]	11 x 10 [279 x 254]
MOTOR H.P. [W] SPEEDS-TYPE	1/2 [373] 4-PSC	1/2 [373] 3-PSC	1/2 [373] 3-PSC	3/4 [559] 3-PSC	1/2 [373] 3-PSC	3/4 [559] 3-PSC	3/4 [559] 3-PSC	3/4 [559] 3-PSC
MOTOR FULL LOAD AMPS	6.8	6.8	6.8	9.5	8.0	9.5	9.5	9.5
HEATING SPEED	Med-Low	Low	Med	Low	Med	Low	Low	Low
COOLING SPEED	High	High	High	High	High	High	High	High
HEAT EXT. STATIC PRESSURE (IN. W.C.) [kPA]	.10 [.025]	.12 [.029]	.12 [.029]	.12 [.029]	.15 [.037]	.15 [.037]	.20 [.049]	.20 [.049]
RATED EXT. STATIC PRESSURE (IN. W.C.) [kPA]	.50 [.12]	.50 [.12]	.50 [.12]	.50 [.12]	.50 [.12]	.50 [.12]	.50 [.12]	.50 [.12]
HEATING C.F.M. @ .2" W.C. E.S.P. [L/s]	890 [420]	885 [418]	1060 [500]	1275 [602]	1400 [661]	1400 [661]	1425 [673]	1565 [739]
COOLING C.F.M. @ .5" W.C. E.S.P. [L/s]	1220 [576]	1180 [557]	1150 [543]	1625 [767]	1570 [740]	1850 [873]	1820 [859]	2040 [963]
TEMPERATURE RISE RANGE °F [°C]	30-60 [16.7-33.3]	40-70 [22.2-38.9]	45-75 [25-41.7]	35-65 [19.4-36.1]	35-65 [19.4-36.1]	35-65 [19.4-36.1]	50-80 [27.8-44.4]	50-80 [27.8-44.4]
STANDARD FILTER [mm]	(2) 12" x 20" [305 x 508]	(2) 12" x 20" [305 x 508]	(2) 12" x 20" [305 x 508]	(2) 12" x 20" [305 x 508]	(2) 12" x 20" [305 x 508]	(2) 12" x 20" [305 x 508]	(2) 12" x 20" [305 x 508]	(2) 14" x 20" [609 x 508]
APPROX. SHIPPING WEIGHT (LBS.) [kG]	111 [50.3]	117 [53.1]	123 [55.8]	123 [55.8]	148 [67.1]	148 [67.1]	152 [68.9]	160 [72.6]
AFUE ③	92.0%	92.4%	92.0%	92.3%	92.4%	92.4%	92.0%	92.1%
CALIFORNIA SEASONAL EFFICIENCY ③	84.35%	86.46%	89.96%	85.00%	86.40%	86.40%	87.02%	87.37%

NOTES: All models are 115V, 60HZ, 1Ø. Gas connection size for all models is 1/2" [13 mm] N.P.T.
① See Conversion Kit Index Form for high altitude derate.
② Canadian installations only.
③ In accordance with D.O.E. test procedures.

MODEL IDENTIFICATION

R G T S — 04E M A E S

WEATHERKING

R Gas Furnace

G

T = Downflow/ Condensing

S Design Series
S = 3rd Design Series

Heating Input Designation

Electric Ignition	Input BTU/HR [kW]
04E	45,000 [13.1]
06E	60,000 [17.6]
07E	75,000 [21.9]
09E	90,000 [26.4]
10E	105,000 [30.7]
12E	120,000 [35.2]

M Blower Designation [mm]
M = 11 x 7 [279 x 178]
R = 11 x 10 [279 x 254]
Y = 12 x 7 [305 x 178]
Z = 12 x 11 [305 x 279]

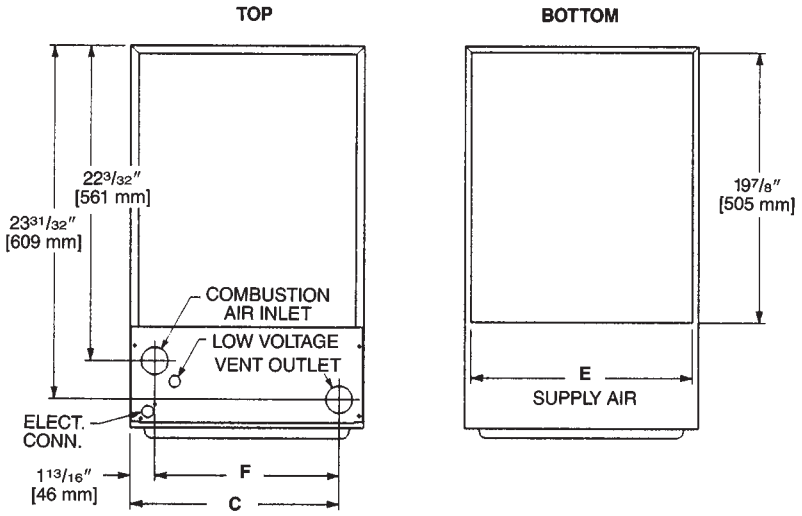
A Variations
A = Std.
B = Wide Cabinet

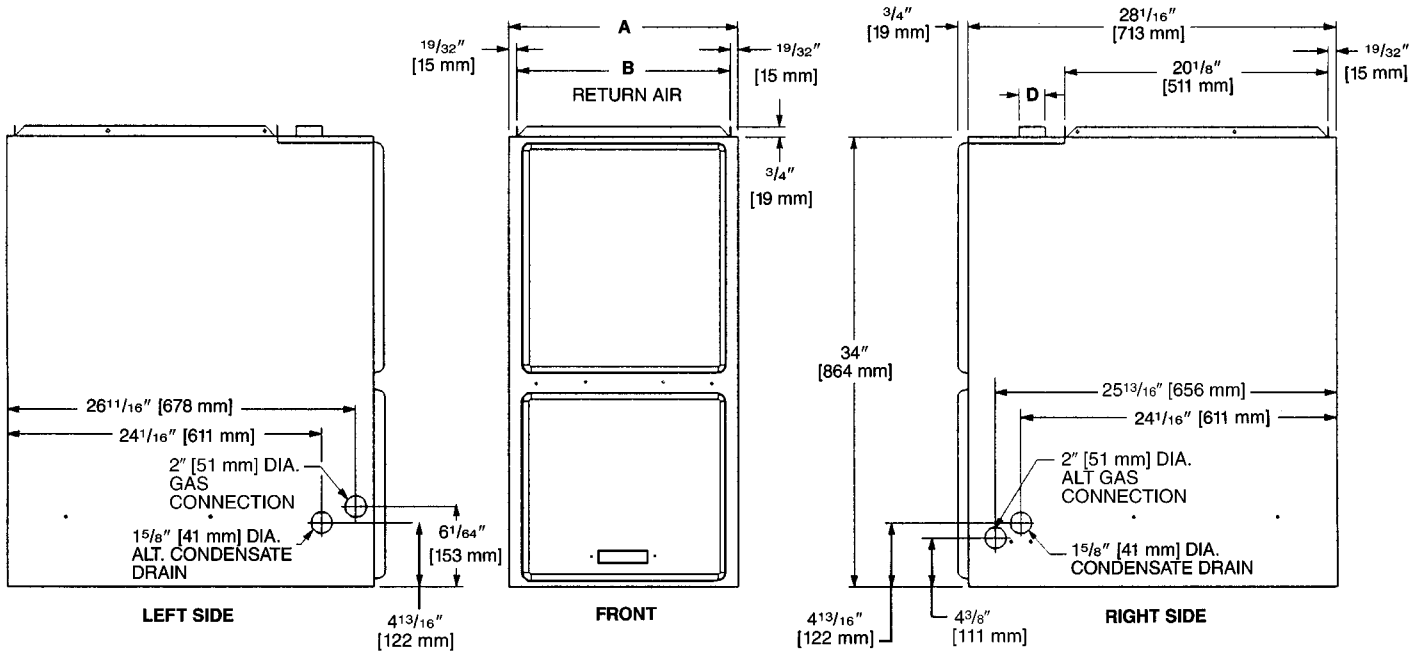
E Heating & Cooling Designation
E = 1100-1300(3R)
G = 1500-1700(4R)
J = 1900-2100(5R)

S Fuel Designation
S = Natural Gas - CSA - United States & Canada (North American)

[ ] Designates Metric Conversions

DOWNFLOW MODELS

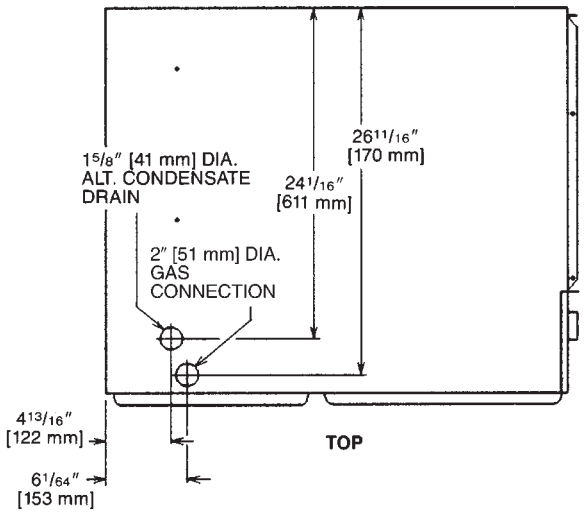


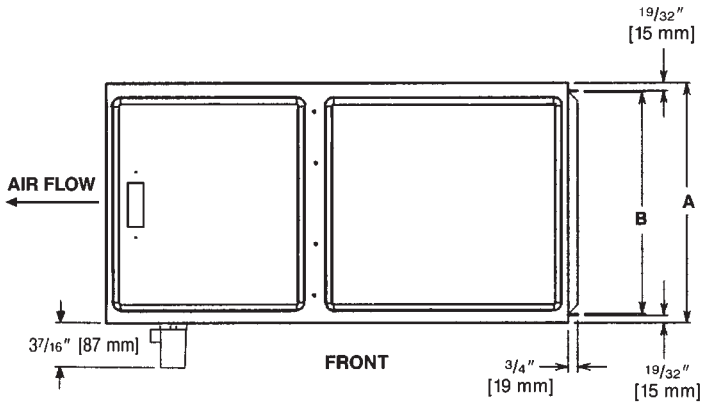


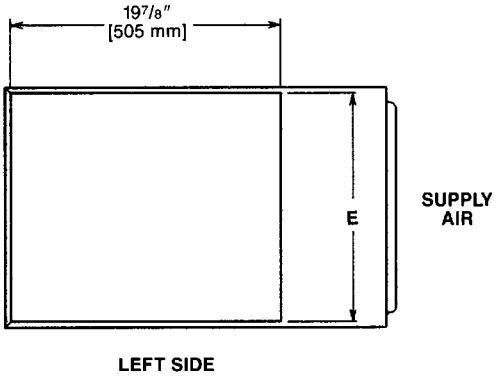
MODEL RGTS-	A	B	C	D	E	F	LEFT SIDE	MINIMUM CLEARANCE (IN.) [mm]					SHIP WGTS. [kg]
								RIGHT SIDE	BACK	TOP	FRONT	VENT	
04	17 1/2 [445]	16 11/32 [415]	15 5/8 [397]	2 [51]	16 5/8 [422]	13 7/8 [352]	0	0	0	1 [25]	2 [51]	0	111 [50]
06	17 1/2 [445]	16 11/32 [415]	15 5/8 [397]	2 [51]	16 5/8 [422]	13 7/8 [352]	0	0	0	1 [25]	2 [51]	0	117 [53]
07EM	17 1/2 [445]	16 11/32 [415]	15 5/8 [397]	2 [51]	16 5/8 [422]	13 7/8 [352]	0	0	0	1 [25]	2 [51]	0	123 [56]
07EY	21 [533]	19 27/32 [504]	19 3/16 [486]	2 [51]	20 1/8 [511]	17 3/8 [441]	0	0	0	1 [25]	2 [51]	0	123 [56]
09	21 [533]	19 27/32 [504]	19 3/16 [486]	2 [51]	20 1/8 [511]	17 3/8 [441]	0	0	0	1 [25]	2 [51]	0	148 [67]
10	21 [533]	19 27/32 [504]	19 3/16 [486]	2 [51]	20 1/8 [511]	17 3/8 [441]	0	0	0	1 [25]	2 [51]	0	152 [69]
12	24 1/2 [622]	23 11/32 [593]	22 5/8 [575]	2 [51]	23 5/8 [600]	20 7/8 [530]	0	0	0	1 [25]	2 [51]	0	160 [73]

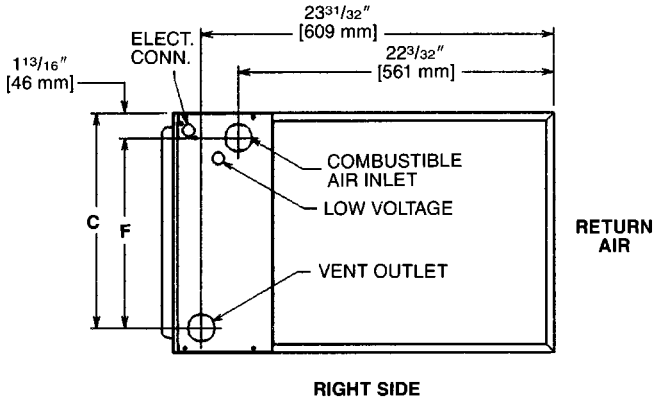
IMPORTANT NOTE: Horizontal furnace maybe installed for horizontal left hand air supply **ONLY.** The condensate trap provided for horizontal application must be installed in the field beneath the unit as directed in the furnace Installation & Operating Instructions.

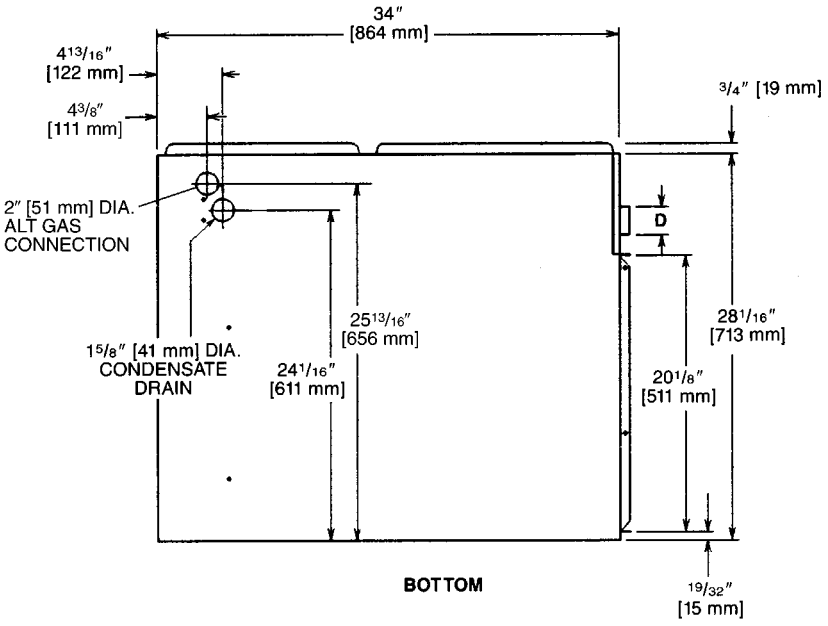
HORIZONTAL MODELS











IMPORTANT NOTE: Horizontal furnace may be installed for horizontal left hand air supply **ONLY.** The condensate trap provided for horizontal application must be installed in the field beneath the unit as directed in the furnace Installation & Operating Instructions.

[ ] Designates Metric Conversions

BLOWER PERFORMANCE DATA—RGTS MODELS

MODEL RGTS-	BLOWER SIZE IN. [mm]	MOTOR H.P. [W]	BLOWER SPEED	CFM [L/s] AIR DELIVERY EXTERNAL STATIC PRESSURE INCHES WATER COLUMN [kPa]						
				0.1 [.02]	0.2 [.05]	0.3 [.07]	0.4 [.10]	0.5 [.12]	0.6 [.15]	0.7 [.17]
04EMAES	11 x 7 [279 x 178]	1/2 [373]	LOW	820 [387]	790 [373]	760 [359]	725 [342]	690 [326]	650 [306]	610 [288]
			MED-LO	**930 [439]**	**890 [420]**	**850 [401]**	**815 [384]**	**785 [370]**	**750 [354]**	**720 [340]**
			MED-HI	1150 [543]	1120 [528]	1090 [514]	1045 [493]	1002 [473]	950 [448]	900 [425]
			HIGH	1414 [667]	1365 [644]	1320 [622]	1270 [599]	1220 [576]	1165 [550]	1115 [526]
06EMAES	11 x 7 [279 x 178]	1/2 [373]	**LOW**	**910 [429]**	**885 [418]**	**860 [406]**	**815 [384]**	**770 [363]**	**725 [342]**	**680 [321]**
			MED	1115 [526]	1080 [510]	1045 [493]	1005 [474]	965 [455]	920 [434]	875 [413]
			HIGH	1365 [644]	1315 [620]	1270 [600]	1225 [578]	1180 [557]	1125 [491]	1070 [505]
07EMAES	11 x 7 [279 x 178]	1/2 [373]	LOW	890 [420]	860 [406]	835 [394]	790 [373]	750 [354]	705 [332]	660 [311]
			MED	**1100 [519]**	**1060 [500]**	**1025 [484]**	**980 [462]**	**940 [443]**	**890 [420]**	**845 [399]**
			HIGH	1340 [632]	1295 [611]	1250 [590]	1200 [566]	1150 [543]	1090 [514]	1025 [484]
07EYBGS	12 x 7 [305 x 178]	3/4 [559]	**LOW**	**1405 [668]**	**1375 [649]**	**1350 [637]**	**1310 [618]**	**1270 [599]**	**1235 [583]**	**1195 [564]**
			MED	1595 [753]	1560 [736]	1525 [720]	1480 [698]	1440 [679]	1380 [651]	1325 [625]
			HIGH	1835 [866]	1780 [840]	1730 [816]	1675 [791]	1625 [767]	1555 [734]	1480 [698]
09EZAGS	12 x 11 [305 x 279]	1/2 [373]	LOW	1155 [545]	1125 [531]	1100 [519]	1080 [510]	1060 [500]	1000 [472]	940 [443]
			MED	**1420 [670]**	**1400 [661]**	**1380 [651]**	**1365 [644]**	**1350 [637]**	**1260 [594]**	**1175 [554]**
			HIGH	1605 [757]	1575 [743]	1550 [732]	1560 [736]	1570 [740]	1480 [698]	1395 [656]
09EZAJS	12 x 11 [305 x 279]	3/4 [559]	**LOW**	**1420 [670]**	**1400 [661]**	**1380 [651]**	**1365 [644]**	**1350 [637]**	**1260 [594]**	**1175 [554]**
			MED	1605 [757]	1575 [743]	1550 [732]	1560 [736]	1570 [740]	1480 [698]	1395 [656]
			HIGH	2005 [946]	1965 [927]	1930 [910]	1890 [892]	1850 [873]	1765 [833]	1680 [793]
10EZAJS	12 x 11 [305 x 279]	3/4 [559]	**LOW**	**1460 [689]**	**1425 [672]**	**1390 [656]**	**1375 [649]**	**1360 [642]**	**1280 [604]**	**1200 [566]**
			MED	1680 [793]	1645 [776]	1615 [762]	1585 [748]	1560 [736]	1490 [703]	1420 [670]
			HIGH	2055 [970]	2000 [944]	1940 [915]	1880 [887]	1820 [859]	1745 [823]	1675 [790]
12ERAJS	11 x 10 [279 x 245]	3/4 [559]	**LOW**	**1590 [750]**	**1565 [738]**	**1540 [727]**	**1505 [710]**	**1475 [696]**	**1425 [672]**	**1375 [649]**
			MED	1840 [868]	1820 [860]	1800 [850]	1750 [826]	1700 [802]	1645 [776]	1590 [750]
			HIGH	2315 [1093]	2250 [1062]	2185 [1031]	2110 [996]	2040 [963]	1965 [927]	1890 [892]

NOTE: Recommended blower speeds are in bold.
NOTE: CFM values represent furnace-only airflow ratings.

[ ] Designates Metric Conversions

GENERAL TERMS OF LIMITED WARRANTY

WeatherKing will furnish a replacement for any part of this product which fails in normal use and service within the applicable period 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.**

Primary and Secondary Heat Exchanger ...Twenty (20) Years
Conditional Parts* (Registration Required).....Ten (10) Years

ACCESSORIES—DOWNFLOW

VENT TERMINATION KITS CONCENTRIC: HORIZONTAL/ VERTICAL =

RXGY-E03A (US & Canadian Installations)

HORIZONTAL TWO PIPE: RXGY-D02, RXGY-D03, RXGY-D04 (US Installations)

RXGY-D02A, RXGY-D03A, RXGY-D04A (Canadian Installations)

RXGY-G02 (US Only)

CONDENSATE PUMP KIT: RXGY-B01

NEUTRALIZER KIT: RXGY-A01

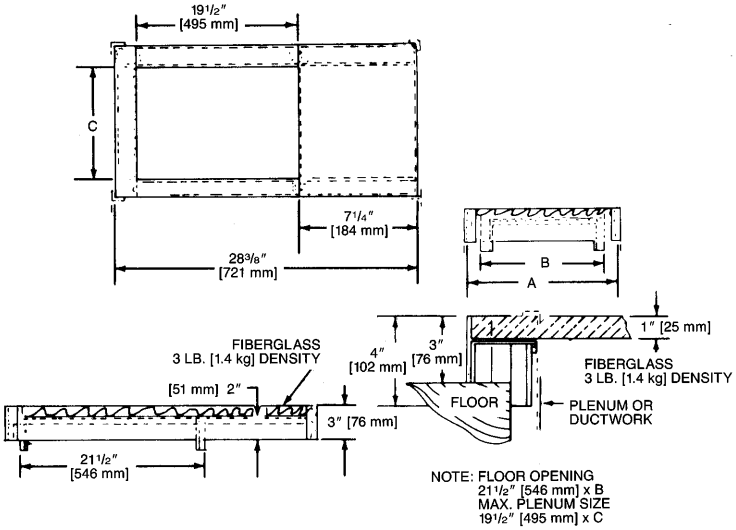
FOSSIL FUEL KIT: RXPF-F01, RXPF-F02 (TVA)

PLENUM DATA FOR "A" COILS

Plenum adapters are required in some applications when plenum and furnace size do not match.

FURNACE WIDTH IN. [mm]	PLENUM WIDTH IN. [mm]	PLENUM ADAPTER DOWNFLOW	COIL PLENUM
17 1/2 [445]	16 1/4 [413]	RXAA-C186	RXAL-B16BU
17 1/2 [445]	20 1/4 [514]	RXAA-C173	RXAL-B20BU
17 1/2 [445]	21 5/8 [549]	RXAA-C187	RXAL-B21BU
17 1/2 [445]	25 1/4 [641]	RXAA-C174	RXAL-B25BU
21 [533]	25 1/4 [641]	RXAA-C175	RXAL-B25BU
21 [533]	22 1/4 [565]	RXAA-C176	RXAL-B22BU
21 [533]	21 5/8 [549]	RXAA-C188	RXAL-B21BU
24 1/2 [622]	25 1/4 [641]	RXAA-C177	RXAL-B25BU
24 1/2 [622]	21 5/8 [549]	RXAA-C187	RXAL-B21BU

COMBUSTIBLE FLOOR BASE: RXGC-B17, RXGC-B21, RXGC-B24



EXTERNAL TOP MOUNT FILTER RACK: RXGF-CC

INTERNAL FILTER RACK FOR AIR RETURN DUCT: RXGF-DB*

Each order contains (1) one box of 10 filter racks supplied without filters.

*Filters available through PROSTOCK®.

FILTER RACK FILTER SIZES® INCHES [mm]	
MODEL RGTS-	RXGF-CC
04	(2) 12 x 20 [305 x 508]
06	(2) 12 x 20 [305 x 508]
07	(2) 12 x 20 [305 x 508]
09	(2) 12 x 20 [305 x 508]
10	(2) 12 x 20 [305 x 508]
12	(2) 14 x 20 [305 x 508]

*Filter racks are shipped without filters.

RXGP-F03

TWINNING KIT—is for use with WeatherKing Gas Furnaces for parallel operation requirements.

FOR HIGH ALTITUDES:

*HIGH ALTITUDE KIT:
F04-105 KBTU/H
F06-45/60/90 KBTU/H
F05-120 KBTU/H
F07-75 KBTU/H

***For installations over 5000 ft.**

OPTION CODE FOR HIGH ALTITUDE: U.S. & Canada – 278

NOTE: High altitude kits and options do **NOT** include additional burner orifices. If a burner orifice change is necessary, they must be ordered through PROSTOCK®. See Installation Instructions for more information.

Option – 278 furnaces are shipped with #51 DMS orifices installed. This is one drill size smaller than standard furnaces to account for expected average elevations and heating values typically seen in these areas.

CAUTION: Always follow National Fuel Gas Code (NFGC) guidelines when converting furnaces for high altitudes.

For all installations above 2000 ft. (including all option – 278 models), the burner orifice size needs to be recalculated and verified. A burner orifice change may still be required. See Installation Instructions for more information.

NOTE: For Canadian installations only, an optional derate (manifold gas pressure reduction) method may be used to adjust the furnace for altitude. See Installation Instructions for more information. This optional method may **NOT** be used for U.S. installations.

[ ] 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.

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

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