



80% A.F.U.E.† UPFLOW/ HORIZONTAL GAS FURNACES

The Rheem Value Series line of upflow/horizontal gas furnaces are designed for utility rooms, closets, alcoves, or attics. **Because of the model's low-profile 34 inch [864 mm] height, the upflow model can also be used to satisfy most applications that traditionally call for a horizontal furnace.**

The design is certified by CSA International.

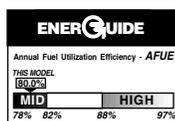
Features

- Unique solid door design leads to quiet operation.
- Patented heat exchanger, constructed of both stainless and aluminized steel for the maximum in corrosion resistance.
- Low profile "34 inch" [864 mm] design is lighter and easier to handle, and leaves room for optional equipment.
- Convertible from upflow to horizontal left or right without field conversion.
- Left or right side gas and electric inlet connections allow quick and simple change.
- Direct spark ignition with remote sense, features a integrated board with an electronic air cleaner hookup.
- Prepainted galvanized steel cabinet.
- A slow-open gas valve and a specially designed draft inducer motor make it one of the quietest furnaces on the market today.
- Grab-holes in doors to aid in easy door removal and replacement.

A variety of cooling coils and plenums designed to use with Rheem Value Series gas furnaces are available as optional accessories.

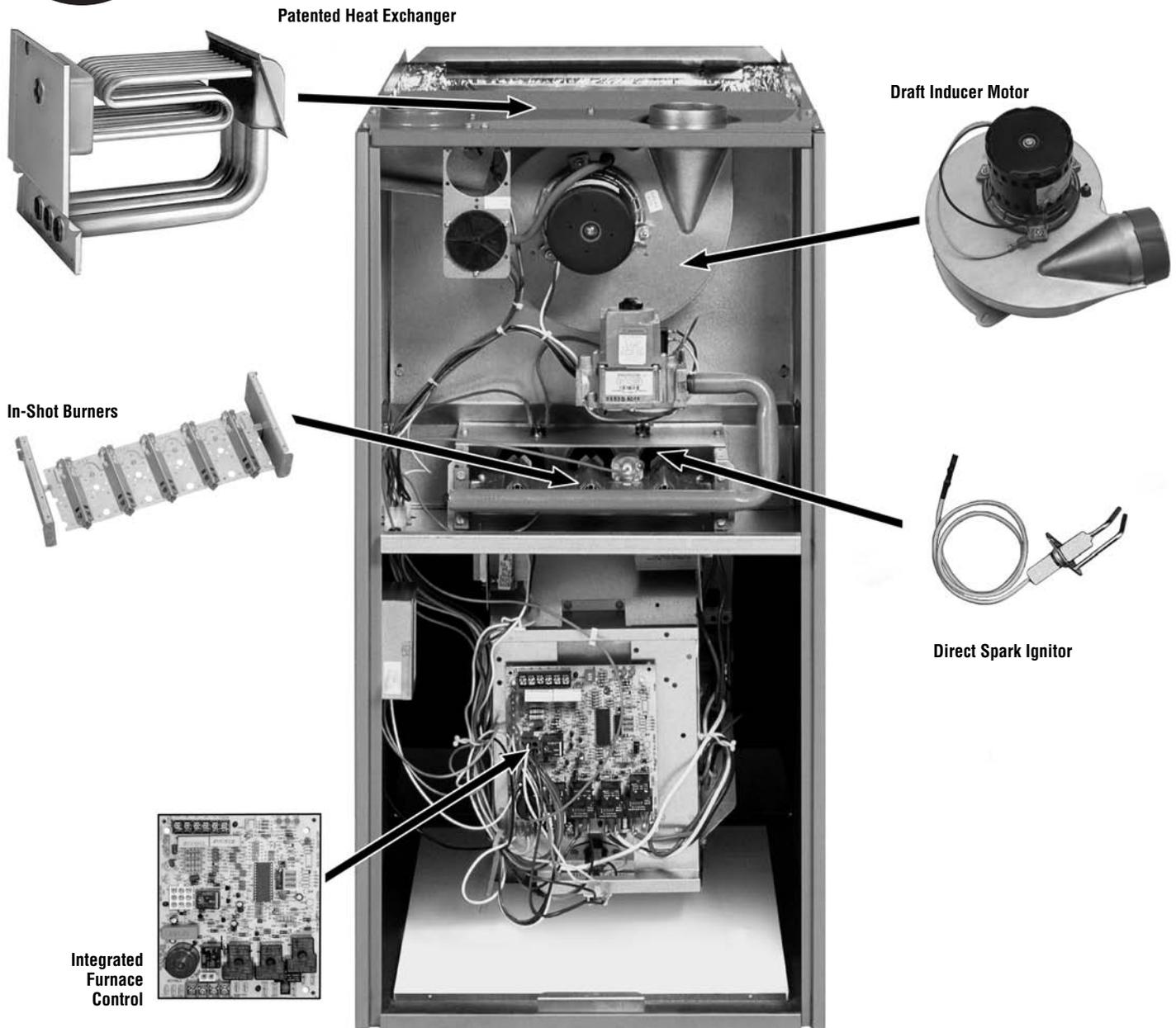
†A.F.U.E. (Annual Fuel Utilization Efficiency) calculated in accordance with Department of Energy test procedures.

80PS- SERIES
Models with Input Rates from
50,000 to 150,000 BTU/HR
[15 to 44 kW]





RHEEM 80% UPFLOW/HORIZONTAL GAS FURNACE



STANDARD EQUIPMENT

Completely assembled and wired; induced draft; pressure switch; redundant main gas control; blower compartment door safety switch; solid state time on/time off blower control; limit control; manual shut-off valve, pressure regulator for natural and L.P. (propane) gas; transformer; direct drive multi-speed blower motor. Furnaces are equipped with cooling/heating relay and transformer (40VA) ready for air conditioning applications. (Please note: a thermostat is not included as standard equipment.) Flame sensor diagnostics.

OPTIONAL EQUIPMENT

Twinning Kit

Side and bottom filter frame assembly. Return air cabinet for all sizes.

NOTE: Furnace is not listed for use with fuels other than natural or L.P. (propane) gas.

The complete terms of limited and other warranties are available at our sales office, or through local installer.

All models can be converted by a qualified Rheem 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 Rheem parts distributor.

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

NOTE: For natural and L.P. (propane) gas models, standard hot surface ignition is 100% safety lockout type.

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

MODEL NUMBERS 80PS- SERIES	05EAR** 05NAR**	07EBR** 07NBR**	07EER** 07NER**	10EBR**	10ECR**	10EDR** 10NDR**	12EDR**	15EDR**
Input-BTU/Hr [kW] ②	50,000 [15]	75,000 [22]	75,000 [22]	100,000 [29]	100,000 [29]	100,000 [29]	125,000 [37]	150,000 [44]
Heating Capacity BTU/Hr [kW] ①	41,000 [12]	60,000 [18]	60,000 [18]	80,000 [23]	80,000 [23]	80,000 [23]	99,000 [29]	119,000 [35]
Heat Ext. Static Pressure [kPa]	.10 [.025]	.12 [.029]	.12 [.029]	.15 [.037]	.15 [.037]	.15 [.037]	.20 [.05]	.20 [.05]
Blower (D x W) [mm]	11 x 6 [279 x 152]	11 x 7 [279 x 178]	11 x 7 [279 x 178]	11 x 7 [279 x 178]	11 x 10 [279 x 254]			
Motor H.P.–Speed– PSC Type [W]	1/2-4-PSC [373]	1/2-3-PSC [373]	1/2-3-PSC [373]	1/2-3-PSC [373]	1/2-3-PSC [373]	3/4-3-PSC [560]	3/4-3-PSC [560]	3/4-3-PSC [560]
Motor Full Load Amps	6.8	5.8	7.9	7.1	7.9	9.5	9.5	9.5
Heating Speed	Med-Low	Med	Med	Med	Med	Low	Low	Low
Cooling Speed	High	High	High	High	High	Med	Med	Med
Cooling CFM @ .5" E.S.P. (Nominal) [L/s]	1200 [566]	1200 [566]	1600 [755]	1200 [566]	1845 [871]	2060 [922]	2115 [998]	2080 [982]
Max. E.S.P. (In. W.C.) [kPa]	0.5 [.12]	0.5 [.12]	0.5 [.12]	0.5 [.12]	0.5 [.12]	0.5 [.12]	0.5 [.12]	0.5 [.12]
Temperature Rise Range °F [°C]	25-55 [13.9-30.6]	35-65 [19.4-36.1]	25-55 [13.9-30.6]	45-75 [25.0-41.7]	30-60 [16.7-33.3]	30-60 [16.7-33.3]	35-65 [19.4-36.1]	50-80 [27.8-44.4]
Max. Outlet Air Temp. °F [°C]	155 [68.3]	165 [73.8]	155 [68.3]	190 [87.7]	170 [76.6]	170 [76.6]	180 [82.2]	190 [87.7]
Approx. Shipping Weight (Lbs.) [kg]	85 [39]	105 [48]	105 [48]	115 [52]	120 [54]	120 [54]	140 [63]	150 [68]
Standard Filter (In.) [mm]	15 ³ / ₄ x 25 [400 x 635]	15 ³ / ₄ x 25 [400 x 635]	15 ³ / ₄ x 25 [400 x 635]	15 ³ / ₄ x 25 [400 x 635]	19 ¹ / ₄ x 25 [489 x 635]	19 ¹ / ₄ x 25 [489 x 635]	22 ³ / ₄ x 25 [578 x 635]	22 ³ / ₄ x 25 [578 x 635]
Return Air Cabinets (Opt.) RXGR- Filter Size [mm]	C14B (2) 12 x 16 [305 x 406]	C17B (2) 12 x 16 [305 x 406]	C17B (2) 12 x 16 [305 x 406]	C17B (2) 12 x 16 [305 x 406]	C21B (2) 20 x 16 [508 x 406]	C21B (2) 20 x 16 [508 x 406]	C24B (2) 24 x 16 [610 x 406]	C24B (2) 24 x 16 [610 x 406]
AFUE–H.S.I. Models ①	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%	80.0%

NOTES: All models are 115V, 60HZ, 1 Ph. Gas connection size for all models is 1/2" [12 mm] N.P.T.

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

② See Conversion Kit Index Form for high altitude derate.

MODEL IDENTIFICATION—UPFLOW/HORIZONTAL MODELS

80	P	S	05E	A	R	01
Efficiency	P = Upflow Non-Condensing	Design Series S = 3rd Design Series	Heating Input Designation Electric Ignition	Blower Designation [mm]	Fuel Designation	Rheem Value Series
			Input BTU/HR [kW]	A = Standard Cabinet 11 x 6 [279 x 152] 1/2 H.P. PSC	R = Natural Gas - CSA - United States & Canada (North American)	
			05E/05N 50,000 [15] 073/07N 75,000 [22] 10E/10N 100,000 [28] 12E 125,000 [37] 15E 150,000 [44]	B = Standard Cabinet 11 x 7 [279 x 178] 1/2 H.P. PSC/1200 CFM		
				C = Wide Cabinet 11 x 10 [279 x 254] 1/2 H.P. PSC		
				D = Standard Cabinet 11 x 10 [279 x 254] 3/4 H.P. PSC		
				E = Standard Cabinet 11 x 7 [279 x 178] 1/2 H.P. PSC/1600 CFM		

[] Designates Metric Conversions

GENERAL TERMS OF LIMITED WARRANTY

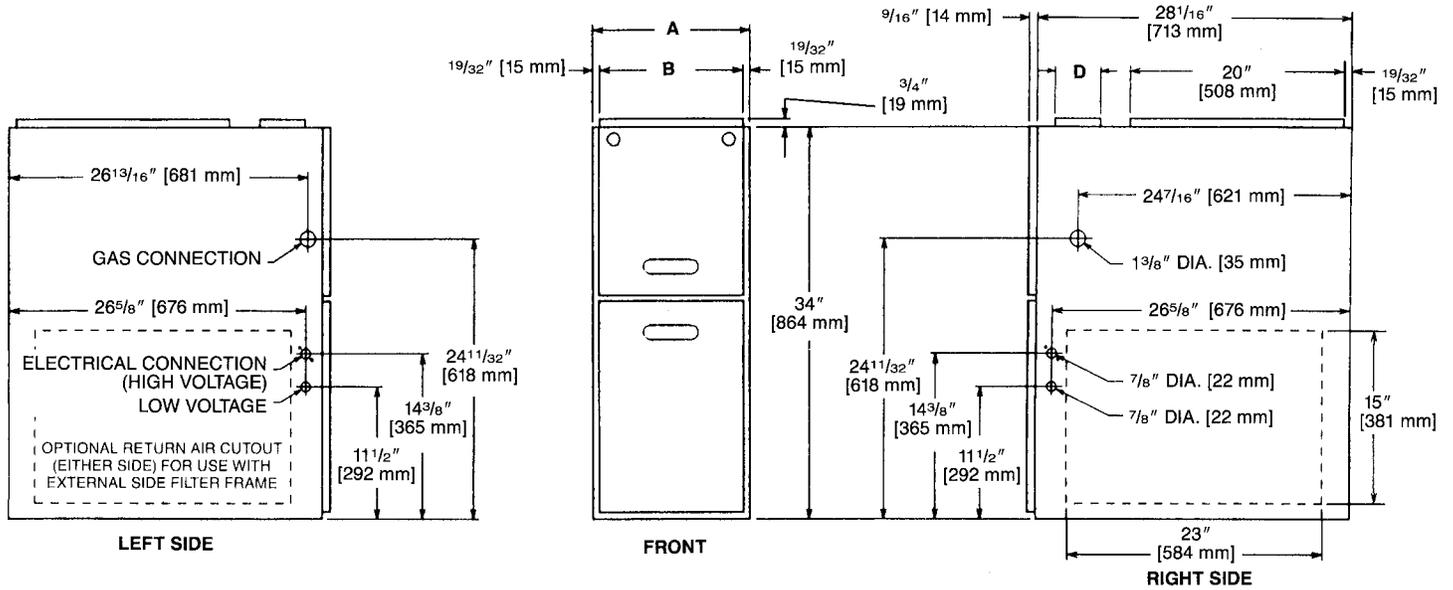
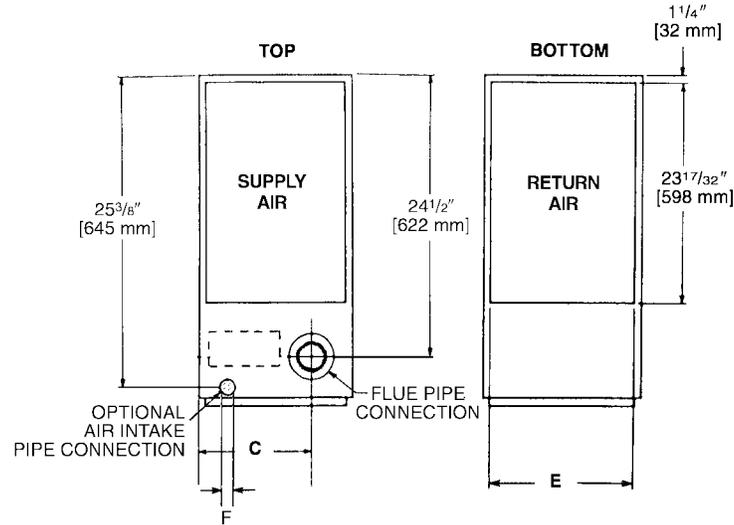
ICECOSM will furnish a replacement for any part of this product which fails in normal use and service within the applicable period stated, in accordance with the terms of the limited warranty.

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

Gas Heat Exchanger Limited WarrantyTwenty (20) Years
*Any Other Part.....Five (5) Years

*This five year limited warranty is applicable only to single-phase products installed in residential applications on or after January 1, 2001.

UPFLOW DIMENSIONS



UPFLOW DIMENSIONS AND CLEARANCE TO COMBUSTIBLE MATERIAL (INCHES) [mm]

MODEL 80PS-	A	B	C	D	E	F	REDUCED CLEARANCE (IN.) [mm]						
							LEFT SIDE	RIGHT SIDE	BACK	TOP	FRONT	VENT	SHIP. WGTS. (LBS.) [Kg]
05	14 [356]	12 ²⁷ / ₃₂ [326]	10 ⁵ / ₈ [270]	①	11 ¹ / ₂ [292]	17 ⁷ / ₈ [48]	0	4 [102] ②	0	1 [25]	3 [76]	6 [152] ③	85 [38.6]
07	17 ¹ / ₂ [445]	16 ¹¹ / ₃₂ [415]	12 ³ / ₈ [314]	①	15 [381]	21 ¹ / ₂ [64]	0	3 [76] ②	0	1 [25]	3 [76]	6 [152] ③	105 [47.6]
10EB	17 ¹ / ₂ [445]	16 ¹¹ / ₃₂ [415]	12 ³ / ₈ [314]	①	15 [381]	21 ¹ / ₂ [64]	0	3 [76] ②	0	1 [25]	3 [76]	6 [152] ③	115 [52.2]
10EC & 10ED	21 [533]	19 ²⁷ / ₃₂ [504]	14 ¹ / ₈ [359]	①	18 ¹ / ₂ [470]	21 ¹ / ₂ [64]	0	0	0	1 [25]	3 [76]	6 [152] ③	120 [54.4]
12	24 ¹ / ₂ [622]	23 ¹¹ / ₃₂ [593]	15 ⁷ / ₈ [403]	①	22 [559]	21 ¹ / ₂ [64]	0	0	0	1 [25]	3 [76]	6 [152] ③	140 [63.5]
15	24 ¹ / ₂ [622]	23 ¹¹ / ₃₂ [593]	15 ⁷ / ₈ [403]	①	22 [559]	21 ¹ / ₂ [64]	0	0	0	1 [25]	3 [76]	6 [152] ③	150 [68]

NOTES: ① May require a 3" [76 mm] to 4" [102 mm] or 3" [76 mm] to 5" [127 mm] adapter.

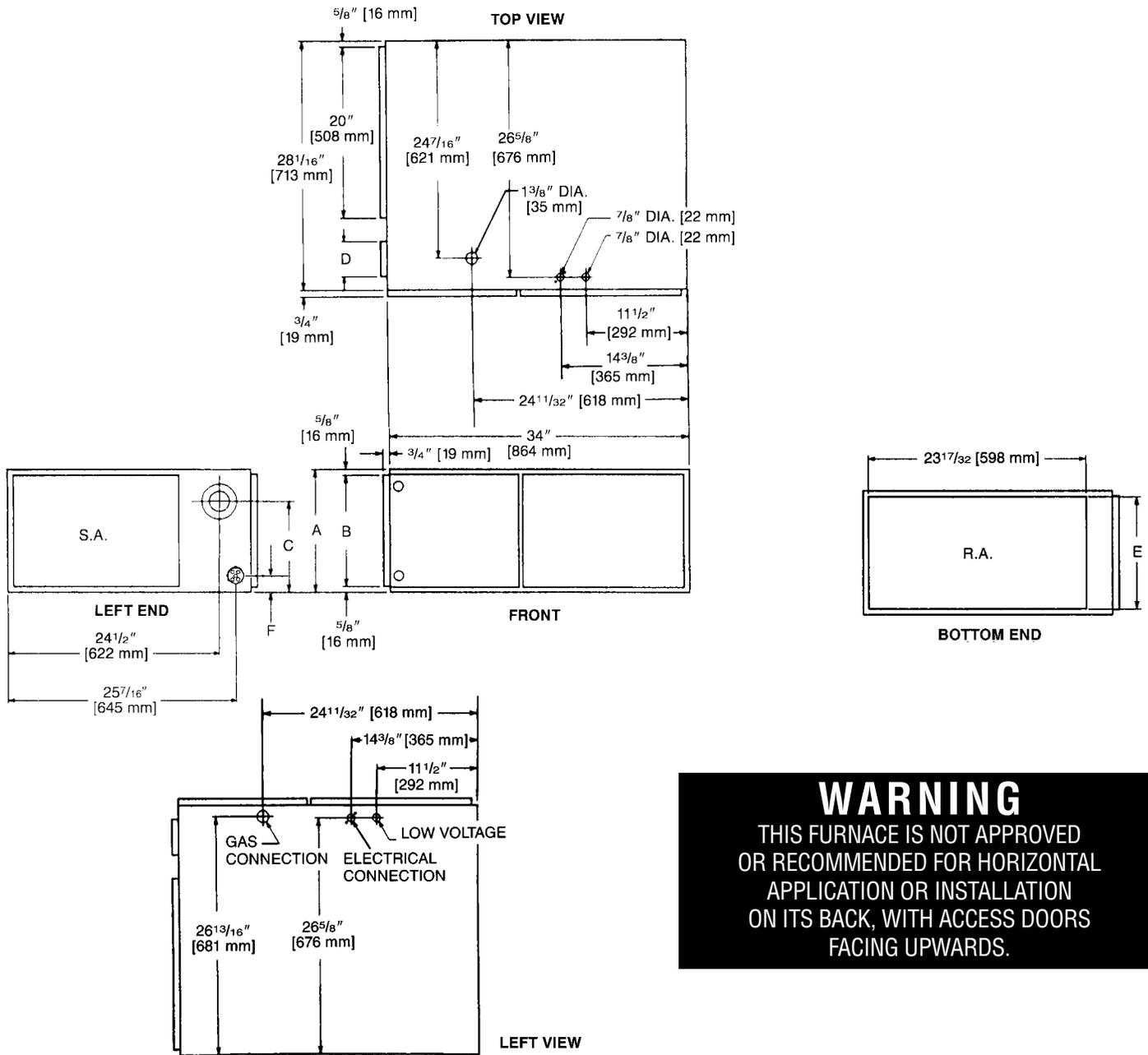
② May be 0" [0 mm] with type B vent.

③ May be 1" [25 mm] with type B vent.

Furnaces must be vented in accordance with the National Fuel Gas Code, ANSI Z223.1 and/or Can/CGA-B149 Installation Codes and in accordance with local codes.

[] Designates Metric Conversions

HORIZONTAL DIMENSIONS



WARNING
 THIS FURNACE IS NOT APPROVED OR RECOMMENDED FOR HORIZONTAL APPLICATION OR INSTALLATION ON ITS BACK, WITH ACCESS DOORS FACING UPWARDS.

HORIZONTAL DIMENSIONS AND CLEARANCE TO COMBUSTIBLE MATERIAL (INCHES) [mm]

MODEL 80PS-	A	B	C	D	E	F	REDUCED CLEARANCE (IN.) [mm]						SHIP. WGTS. (LBS.) [Kg]
							LEFT SIDE	RIGHT SIDE	BACK	TOP	FRONT	VENT	
05	14 [356]	12 27/32 [326]	10 5/8 [270]	Ⓚ	11 1/2 [292]	1 7/8 [48]	0	4 [102] ②	0	1 [25]	3 [76]	6 [152] ③	85 [38.6]
07	17 1/2 [445]	16 11/32 [415]	12 3/8 [314]	Ⓚ	15 [381]	2 1/2 [64]	0	3 [76] ②	0	1 [25]	3 [76]	6 [152] ③	105 [47.6]
10EB	17 1/2 [445]	16 11/32 [415]	12 3/8 [314]	Ⓚ	15 [381]	2 1/2 [64]	0	3 [76] ②	0	1 [25]	3 [76]	6 [152] ③	115 [52.2]
10EC & 10ED	21 [533]	19 27/32 [504]	14 1/8 [359]	Ⓚ	18 1/2 [470]	2 1/2 [64]	0	0	0	1 [25]	3 [76]	6 [152] ③	120 [54.4]
12	24 1/2 [622]	23 11/32 [593]	15 7/8 [403]	Ⓚ	22 [559]	2 1/2 [64]	0	0	0	1 [25]	3 [76]	6 [152] ③	140 [63.5]
15	24 1/2 [622]	23 11/32 [593]	15 7/8 [403]	Ⓚ	22 [559]	2 1/2 [64]	0	0	0	1 [25]	3 [76]	6 [152] ③	150 [68]

NOTES: ① May require a 3" [76 mm] to 4" [102 mm] or 3" [76 mm] to 5" [127 mm] adapter.

② May be 0" [0 mm] with type B vent.

③ May be 1" [25 mm] with type B vent.

Furnaces must be vented in accordance with the National Fuel Gas Code, ANSI Z223.1 and/or Can/CGA-B149 Installation Codes and in accordance with local codes.

ACCESSORIES—UPFLOW

INTERNAL FILTER RACK FOR BOTTOM OR SIDE RETURN: RXGF-DA*

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

*Filters available through PROSTOCK®.

SIDE RETURN FILTER RACK: RXGF-CA

BOTTOM RETURN FILTER RACK FOR UPFLOW APPLICATION: RXGF-CB

FILTER RACK FILTER SIZES† INCHES [mm]	
MODEL 80PS-	RXGF-CA (SIDE)
05, 07, 10EB (3 Ton)	15 ³ / ₄ x 25 [400 x 635]
10EC & 10ED	15 ³ / ₄ x 25 [400 x 635]
12, 15	15 ³ / ₄ x 25 [400 x 635]

†Filter racks are shipped without filters.

A 1" [25.4 mm] filter may be used.

*Designates "E" or "N".

RXPF-F01 and F02

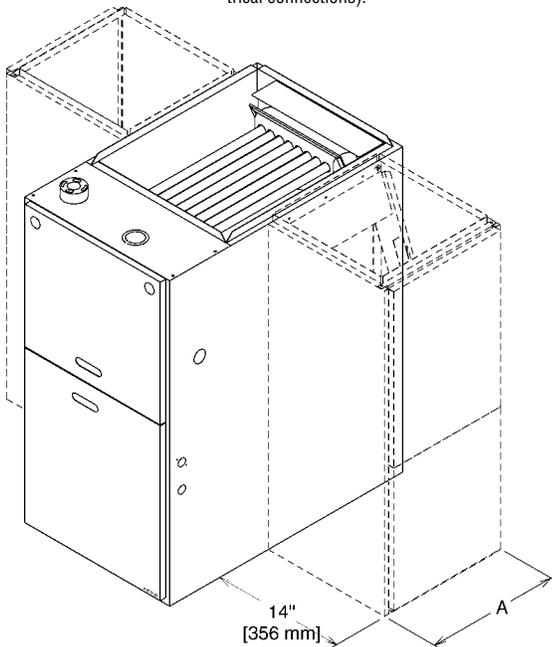
FOSSIL FUEL KIT—is for use with Rheem Value Series Heat Pumps and air furnaces. RXPF-F02 meets TVA requirements.

RXGP-F03

TWINNING KIT—is for parallel operation requirements.

ACCESSORY RETURN AIR CABINETS

Return Air Cabinets may be installed on either side application except RXGR-C24B (side application must be on side opposite gas and electrical connections).



THE RXGR-C24B MUST ONLY BE INSTALLED ON THE SIDE OPPOSITE THE GAS AND ELECTRICAL CONNECTIONS.

RETURN AIR CABINETS	A IN. [mm]	FILTER SIZE IN. [mm]
RXGR-C14B	14 [356]	(2) 12 x 16 [305 x 406]
RXGR-C17B	17 ¹ / ₂ [445]	(2) 12 x 16 [305 x 406]
RXGR-C21B	21 [533]	(2) 20 x 16 [508 x 406]
RXGR-C24B	24 ¹ / ₂ [622]	(2) 24 x 16 [610 x 406]

WARNING: IMPORTANT NOTICE

A SOLID METAL BASE PLATE (SEE TABLE) MUST BE IN PLACE WHEN THE FURNACE IS INSTALLED WITH SIDE AIR RETURN DUCTS. FAILURE TO INSTALL A BASE PLATE COULD CAUSE PRODUCTS OF COMBUSTION TO BE CIRCULATED INTO THE LIVING SPACE AND CREATE POTENTIALLY HAZARDOUS CONDITIONS.

FURNACE WIDTH IN. [mm]	SOLID BOTTOM KIT NO.	BASE PLATE NO.	BASE PLATE SIZE IN. [mm]
14 [356]	RXGB-D14	AE-61874-01	11 ⁵ / ₈ x 23 ⁹ / ₁₆ [295 x 598]
17 ¹ / ₂ [445]	RXGB-D17	AE-61874-02	15 ¹ / ₈ x 23 ⁹ / ₁₆ [384 x 598]
21 [533]	RXGB-D21	AE-61874-03	18 ⁵ / ₈ x 23 ⁹ / ₁₆ [473 x 598]
24 ¹ / ₂ [622]	RXGB-D24	AE-61874-04	25 ⁵ / ₈ x 23 ⁹ / ₁₆ [651 x 598]

FOR HIGH ALTITUDES:

HIGH ALTITUDE OPTION CODE: U.S. & Canada – None required for high altitudes.

HIGH ALTITUDE CONVERSION KITS: U.S. & Canada – None required for high altitudes.

80+ HIGH ALTITUDE INSTRUCTIONS

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

High altitude option codes are not required for these models. However, the burner orifice size needs to be recalculated and verified at elevations above 2000 ft. 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

BLOWER PERFORMANCE DATA—UPFLOW MODELS

MODEL NUMBER 80PS-SERIES	BLOWER SIZE [mm]	MOTOR H.P. [W]	BLOWER SPEED	CFM [L/s] AIR DELIVERY EXTERNAL STATIC PRESSURE INCHES [kPa] WATER COLUMN						
				.1 [.02]	.2 [.05]	.3 [.07]	.4 [.10]	.5 [.12]	.6 [.15]	.7 [.17]
				05EAR** 05NAR**	11 x 6 [279 x 152]	1/2 [373]	LOW MED-LO MED-HI HIGH	675 [319] 950 [448] 1115 [526] 1270 [599]	655 [309] 930 [439] 1090 [514] 1250 [590]	635 [300] 905 [427] 1070 [505] 1225 [578]
07EBR** 07NBR**	11 x 7 [279 x 178]	1/2 [373]	LOW MED HIGH	1093 [563] 1241 [586] 1393 [657]	1066 [503] 1212 [572] 1359 [642]	1039 [490] 1183 [558] 1326 [626]	1008 [476] 1150 [543] 1293 [610]	977 [461] 1118 [528] 1259 [594]	941 [444] 1076 [508] 1214 [573]	905 [427] 1033 [487] 1169 [552]
07EER** 07NER**	11 x 7 [279 x 178]	1/2 [373]	LOW MED HIGH	1245 [588] 1555 [734] 1810 [854]	1220 [576] 1515 [715] 1755 [828]	1195 [564] 1475 [696] 1705 [805]	1165 [550] 1435 [677] 1645 [776]	1135 [536] 1395 [658] 1585 [748]	1105 [522] 1350 [637] 1530 [722]	1065 [503] 1300 [614] 1470 [694]
10EBR**	11 x 7 [279 x 178]	1/2 [373]	LOW MED HIGH	1050 [496] 1220 [576] 1410 [665]	1040 [491] 1195 [564] 1380 [651]	1030 [486] 1160 [547] 1345 [635]	990 [467] 1140 [538] 1300 [614]	960 [453] 1105 [522] 1255 [592]	920 [434] 1065 [503] 1205 [569]	890 [420] 1020 [481] 1150 [543]
10ECR**	11 x 10 [279 x 254]	1/2 [373]	LOW MED HIGH	1295 [611] 1645 [776] 2045 [965]	1275 [602] 1615 [762] 2000 [944]	1250 [590] 1580 [746] 1955 [923]	1225 [578] 1550 [732] 1905 [899]	1195 [564] 1510 [713] 1845 [871]	1165 [550] 1465 [691] 1785 [842]	1135 [536] 1425 [673] 1720 [812]
10EDR** 10NDR**	11 x 10 [279 x 254]	3/4 [559]	LOW MED HIGH	1645 [776] 2045 [965] 2320 [1095]	1615 [762] 2000 [944] 2260 [1067]	1580 [746] 1955 [923] 2200 [1038]	1550 [732] 1905 [899] 2130 [1005]	1510 [713] 1845 [871] 2060 [972]	1465 [691] 1785 [842] 1985 [937]	1425 [673] 1720 [812] 1910 [901]
12EDR**	11 x 10 [279 x 254]	3/4 [559]	LOW MED HIGH	1645 [776] 2050 [967] 2365 [1116]	1635 [772] 2015 [951] 2310 [1090]	1615 [762] 1980 [934] 2250 [1062]	1590 [750] 1935 [913] 2185 [1031]	1560 [736] 1885 [890] 2115 [998]	1520 [717] 1835 [866] 2035 [960]	1470 [694] 1775 [838] 1950 [920]
15EDR**	11 x 10 [279 x 254]	3/4 [559]	LOW MED HIGH	1620 [765] 2010 [949] 2340 [1104]	1595 [753] 1985 [937] 2275 [1074]	1570 [741] 1960 [925] 2215 [1045]	1545 [729] 1915 [904] 2145 [1012]	1515 [715] 1850 [873] 2080 [982]	1480 [698] 1800 [850] 2010 [949]	1440 [680] 1730 [816] 1940 [916]

Note: Recommended blower speeds are in bold.

[] 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, ICECO reserves the right to make changes without notice."

Mobile Home Gas Furnaces

The Great Indoors has never felt this good

DGAA-BDTB & DGAH-BBSB Series



Coleman Mobile Home Gas Furnaces are available in different configurations as follows:

DGAA-BDTB - Series features auto hot surface ignition in "tall" cabinet (with coil cavity), up to 4-ton air conditioning ready - two speed blower operation.

DGAH-BBSB - Series features auto hot surface ignition in "shorty" cabinet (without coil cavity) up to 3 ton air conditioning ready - single speed blower operation.

Additional Features:

- Available in two height sizes: the "Shorty" is 59 1/2 inches high and "Tall" is 76 inches high.
- Aluminized steel "Tubular" Heat Exchanger design, for more even heat distribution and longer life.
- Attractive white stylish contoured doors are very durable and scratch resistant.
- Universal disposal filters clean the air and are easy to replace.
- Adjustable, one step wedgeless roof jack accessory.
- 2 year parts and 10 year heat exchanger limited warranties.



*Natural Gas to Propane
Gas Convertible*

The Indoor Outfitters™



Heating • Air Conditioning

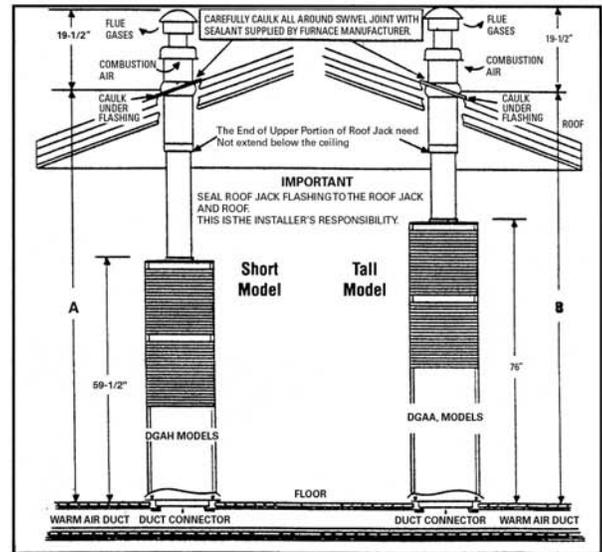
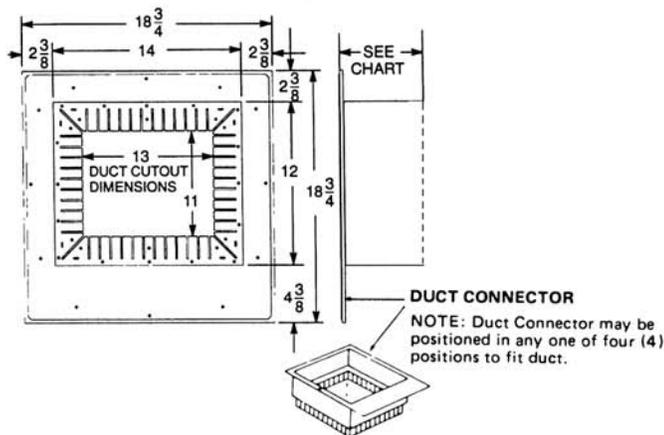
Duct Connector Dimensions

Duct Connector Part Number	Duct Connector Depth
7990-6211	1"
7990-6221	2"
7990-6241	4-1/2"
7990-6261	6-1/2"
7990-6271	7-1/2"
7990-6281	8-1/2"
7990-6301	10-1/4"
7990-6321	12-1/4"

Roof Jack Table

Swivel Flashing Adjusts from 0/12 TO 5/12 Pitch	"Shorty" Model DGAH Furnaces Installation Dimensions "A" Adjustable Height	"Tall" Model DGAA Furnaces Installation Dimensions "B" Adjustable Height
4000-7101/C	70" to 79"	86 to 95"
4000-7121 /C	75" to 86"	91" to 102"
4000-7141/C	83" to 104"	99" to 120"
4000-7151/C	90" to 116"	106" to 132"
4000-7171/C	127" to 157"	143" to 173"

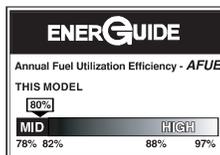
Duct Connectors for Tab Attachment



System Specifications

MODEL NO.	DGAH056BBSB	DGAH077BBSB	DGAA056BDTB	DGAA070BDTB	DGAA077BDTB	DGAA090BDTB
Input-BTUH	56,000	77,000	56,000	70,000	77,000	90,000
Output - BTUH	45,000	62,000	45,000	56,000	62,000	72,000
AFUE	80%	80%	80%	80%	80%	80%
SPEED	1	1	2	2	2	2
H.P.	1/6	1/6	1/3	1/3	1/3	1/3
Fuse or Circuit Breaker	15 AMP Maximum					
E.S.P.	0.3	0.3	0.3	0.3	0.3	0.3
Air Del-CFM	1055	1055	1145/1305	1145/1305	1145/1305	1145/1305
Filters	Two 16" x 20" x 1"					
Cabinet cm	146.02 H x 49.53W x 60.96D			193.04H x 49.53 W x 60.96 D		
Dimensions ins.	59.5 H x 19.5W x 24.0 D			76.0 H x 19.5 W x 24.0 D		
Weight	66.2 kg. (146 lbs.)	66.2 kg. (146 lbs.)	73.9 kg. (163 lbs.)	73.9 kg. (163 lbs.)	73.9 kg. (163 lbs.)	73.9 kg. (163 lbs.)

AUTHORIZED COLEMAN DEALER



Heating • Air Conditioning

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CMGF - November, 06

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Phone: (905) 829-1411

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Calgary, Alberta T2E 0A9
Phone: (403) 235-5454



COLEMAN/EVCON MOBILE HOME FURNACES

COLEMAN/EVCON MOBILE HOME FURNACES FOR MANUFACTURED HOMES

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**Technical Data on CD is included with our catalogue. This information is also located on our ECCO website.*



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COLEMAN/EVCON MOBILE HOME FURNACES

MOBILE HOME GAS FURNACE

THE COLEMAN MOBILE HOME GAS FURNACE INCORPORATES
A SOLID DESIGN THAT ENSURES RELIABLE, ECONOMICAL
OPERATION YEAR AFTER YEAR.

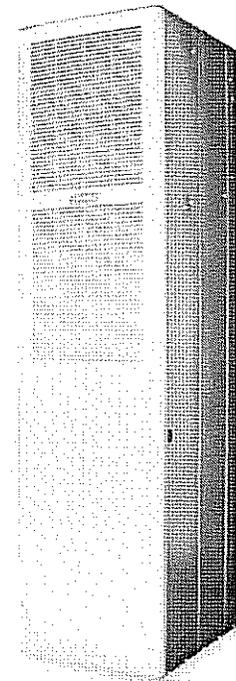
White stylish contoured doors give this unit an attractive modern appearance, as well as offering a scratch resistant durable finish. The heart of the system is a long-life, straight-tubular heat exchanger. It is corrosion resistant, aluminized steel "wrap-around" using round corner construction, resulting in superior resistance to stress and more even heat distribution.

Features:

- Available in two height sizes: the "Shorty" is 59-1/2 inches high and "Tall" is 76 inches high.
- Zero clearance allows these furnaces to be installed when space is at a premium.
- Air conditioner ready up to 4 tons on DGAA model and up to 3 tons on DGPA/DGAH models.
- Available in auto ignition or standing pilot models.
- Universal disposal filters clean the air and are easy to replace.
- Adjustable, one step wedgeless roof jack accessory.
- Conversion from natural gas to propane gas is fast and easy.
- 2 year limited parts warranty.

The Coleman Mobile Home Gas Furnaces are available in different configurations as follows:

- DGAA-BDTB** — Series features auto hot surface ignition in "tall" cabinet (with coil cavity), up to 4 ton air conditioning ready — two speed blower operation.
- DGAH-BBSB** — Series features auto hot surface ignition in "shorty" cabinet (without coil cavity), up to 3 ton air conditioning ready — single speed blower operation.
- DGPA-ABTB** — Series features standing pilot ignition in "tall" cabinet (with built-in coil cavity), up to 3 ton air conditioning ready — single speed blower operation.



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COLEMAN/EVCON MOBILE HOME FURNACES

MOBILE HOME OIL GUN FURNACE

COLEMAN HOME COMFORT PRODUCTS...THE RELIABLE ONES

Assurance of a dependable heating system for your home and family is important. And nothing meets the need like the Coleman Furnace. No matter where you live, Coleman products provide the dependability and economy you have come to expect.

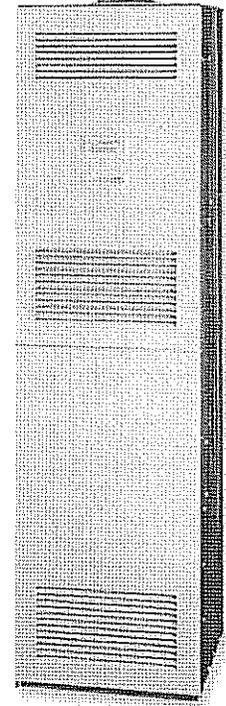
Standard Features

- Gun Burner (Oil Models)
- 4-Wire Thermostat (no Control Box required)
- Cylindrical Combustion Chamber
- Acoustic Insulation
- Rigid Mounting Brackets and Rubber Isolators to secure Blower Motor
- A/C Ready Blower up to 3 tons
- Easy Access Control Box
- Built-In Coil Cabinet (except Compacts)
- 15-Year Heat Exchanger Warranty
- Hot Surface Auto Ignition
- Sealed Combustion

Features:

- Available in two height sizes: a "Shorty" 59-1/2 inches and a "Tall" 76 inches.
- One of the highest efficiencies in the industry (Sealed Combustion).
- Slide-in motor with plug-in wiring.
- Adjustable, one step wedgeless roof jack.
- Zero wall clearance design.
- Fully air conditioning ready (on tall model).
- Beckett Series AFG oil burner assembly.
- Appliance white cabinet doors.
- Throw away return air filter included.
- Stainless steel burner box.
- Rigid construction for quiet operation.
- 2 year limited parts warranty (10 year part warranty on heat exchanger).
- Natural or propane gas convertible (with field replacement gas burner assembly).

Switching to natural gas or LP gas can be easily accomplished. Only the burner has to be changed.



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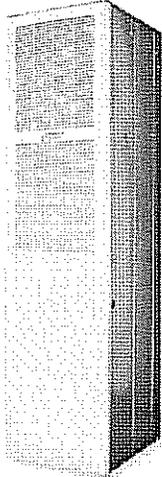


COLEMAN/EVCON MOBILE HOME FURNACES

GAS FURNACES — CONQUEST 80% EFFICIENCY ATMOSPHERIC SEALED COMBUSTION

Downflow Applications

Approved for mobile home applications. Auto hot surface ignition, tall models 76" high with 2-speed blower and air condition ready.



DGA Series

STOCK #	MODEL	BTU INPUT	MAX CFM	WEIGHT/ LBS.	PRICE
834505	DGAA056BDTB	56,000	1305	145	P.O.A.
834500	DGAA070BDTB	70,000	1305	145	P.O.A.
834507	DGAA077BDTB	77,000	1305	145	P.O.A.
834509	DGAA090BDTB	90,000	1305	145	P.O.A.

Note: The 4000 Series Roof Jacks must be used with these furnaces. Contact your local ECCO Sales Branch for DGAH/DGPA pricing. For Technical Data, refer to enclosed CD or our ECCO website.

Accessories

STOCK #	MODEL	DESCRIPTION	WEIGHT/ LBS.	PRICE
834520	4000-7141/C	Roof Jack 99" – 120"	26	P.O.A.
834523	4000-7151/C	Roof Jack 106" – 132"	30	P.O.A.
834521	4000-7171/C	Roof Jack 143" – 173"	47	P.O.A.
834522	7680B6541	External Roof Jack Extension 18"	7	P.O.A.
834516	4000-4241	Hydroment Sealant	1	P.O.A.
834569	7990-6211	Duct Connector 1"	3	P.O.A.
834570	7990-6221	Duct Connector 2"	6	P.O.A.

Note: For Technical Data, refer to enclosed CD or our ECCO website.

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COLEMAN/EVCON MOBILE HOME FURNACES

CONVERTIBLE™ OIL GUN FURNACES — 80%+ EFFICIENCY

Downflow (Tall) — Auto Ignition

Approved for Mobile Home Application A/C Ready to 3 tons.

STOCK #	MODEL	AFUE OIL	OUTPUT BTU	CFM @.3 ESP	WEIGHT/ LBS.	PRICE
834536	COAT066BDD	80.3	53,000	950	175	P.O.A.
834538	COAT084BDD	80.0	67,000	1175	175	P.O.A.

Note: For Technical Data, refer to enclosed CD or our ECCO website.

Downflow (Short) — Auto Ignition

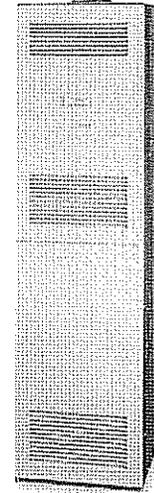
Approved for Mobile Home Application A/C Ready to 3 tons.

STOCK #	MODEL	AFUE OIL	OUTPUT BTU	CFM @.3 ESP	WEIGHT/ LBS.	PRICE
834500	COAS066BDD	80.3	53,000	950	168	P.O.A.
834500	COAS084BDD	80.0	67,000	1175	168	P.O.A.

Note: For Technical Data, refer to enclosed CD or our ECCO website.

Conversion Gas Burners

STOCK #	MODEL	AFUE NATURAL	OUTPUT BTU	WEIGHT/ LBS.	PRICE
834500	4066-6601/C	76.4	51,000	19	P.O.A.
834500	4084-6601/C	75.3	64,000	19	P.O.A.



COAT/COAS Series

Accessories

STOCK #	MODEL	DESCRIPTION	WEIGHT/ LBS.	PRICE
834520	4000-7141/C	Roof Jack 99" – 120"	26	P.O.A.
834523	4000-7151/C	Roof Jack 106" – 132"	30	P.O.A.
834521	4000-7171/C	Roof Jack 143" – 173"	47	P.O.A.
834522	7680B6541	External Roof Jack Extension 18"	7	P.O.A.
834516	4000-4241	Hydroment Sealant	1	P.O.A.
834569	7990-6211	Duct Connector 1"	3	P.O.A.
834570	7990-6221	Duct Connector 2"	3	P.O.A.

Note: For Technical Data, refer to enclosed CD or our ECCO website.

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NOTES

A large grid of 20 columns and 30 rows, intended for taking notes. The grid is composed of thin black lines forming a series of small squares.



COLEMAN/EVCON MOBILE HOME FURNACES

TECHNICAL DATA

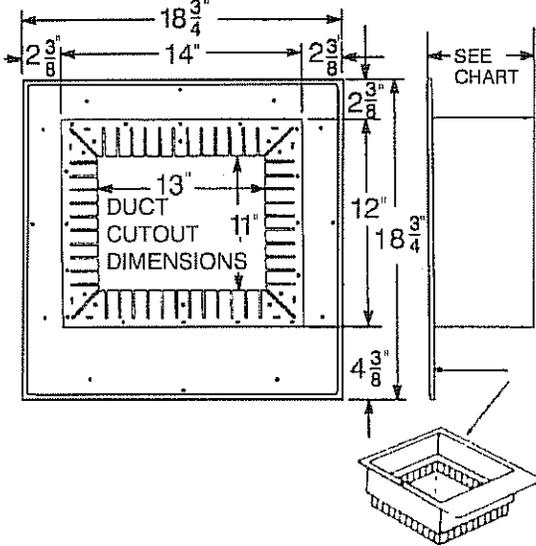
Gas Furnace Duct Connector Dimensions

DUCT CONNECTOR MODEL	DEPTH (IN.)
7990 - 6211	1
7990 - 6221	2
7990 - 6241	4-1/2
7990 - 6261	6-1/2
7990 - 6271	7-1/2
7990 - 6281	8-1/2
7990 - 6301	10-1/4
7990 - 6321	12-1/4

Installation Dimensions — Roof Jack Table — Tall Model — DGPA, DGAA Furnaces

ROOF JACK MODEL #	"B" ADJUSTABLE HEIGHT (IN.)	NOTE:
4000-7101/C	86 to 95	Swivel Flashing
4000-7121/C	91 to 102	adjusts from
4000-7141/C	99 to 120	0/12 to 5/12 Pitch
4000-7151/C	106 to 132	
4000-7171/C	143 to 173	

Duct Connectors for Tab Attachment

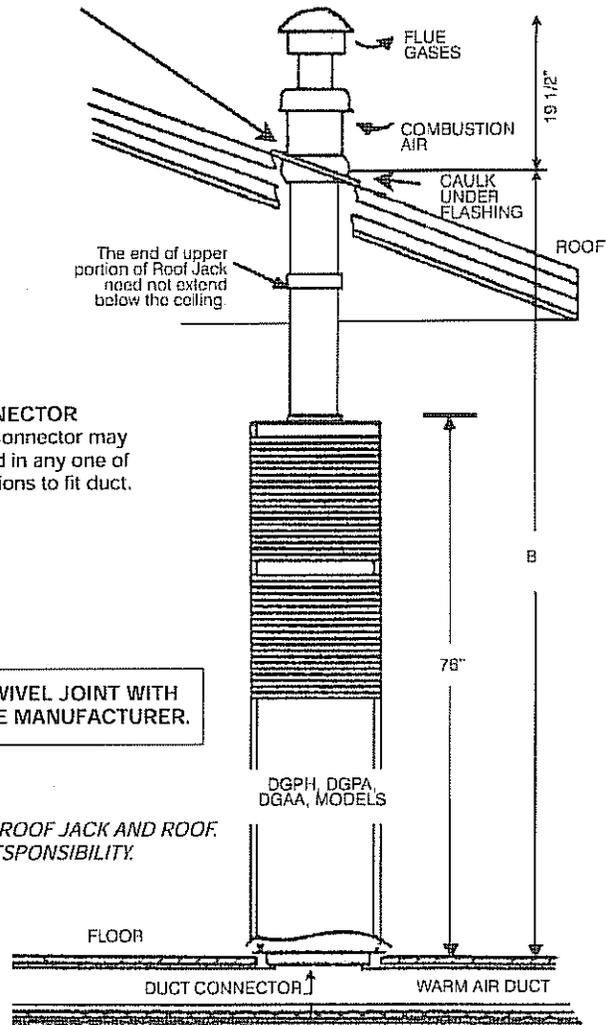


DUCT CONNECTOR
Note: Duct Connector may be positioned in any one of four (4) positions to fit duct.

CAREFULLY CAULK AROUND SWIVEL JOINT WITH SEALANT SUPPLIED BY FURNACE MANUFACTURER.

IMPORTANT
SEAL ROOF JACK FLASHING TO THE ROOF JACK AND ROOF.
THIS IS THE INSTALLER'S RESPONSIBILITY.

Tall Model



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TECHNICAL DATA (cont'd)

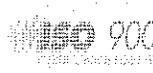
Gas Furnace (cont'd)

System Specifications

MODEL NO.	DGAA056BDTB/ DGPA056ABTB	DGAA070BDTB/ DGPA070ABTB	DGAA077BDTB/ DGPA077ABTB	DGAA090BDTB/ DGPA090ABTB
Input – BTUH	56,000	70,000	77,000	90,000
Output – BTUH	45,000	56,000	62,000	72,000
AFUE	80/75	80/75	80/75	80/75
SPEED	2/1	2/1	2/1	2/1
H.P.	1/3 / 1/6	1/3 / 1/6	1/3 / 1/6	1/3 / 1/4
Fuse or Circuit Breaker	15 AMP Maximum	15 AMP Maximum	15 AMP Maximum	15 AMP Maximum
Air Del-CFM	<u>1145/1305</u> 1050	<u>1145/1305</u> 1050	<u>1145/1305</u> 1050	<u>1145/1305</u> 1245
Filters	Two 16" × 20" × 1"	Two 16" × 20" × 1"	Two 16" × 20" × 1"	Two 16" × 20" × 1"
Cabinet Dimensions (cm) (in.)	193.04 H × 49.53 W × 60.96 D 76.0 H × 19.5 W × 24.0 D			
Weight	73.9 kg (163 lbs.)	73.9 kg (163 lbs.)	73.9 kg (163 lbs.)	73.9 kg (163 lbs.)



c



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COLEMAN/EVCON MOBILE HOME FURNACES

TECHNICAL DATA (cont'd)

Oil Furnace

Duct Connector Dimensions

DUCT CONNECTOR MODEL	DEPTH (IN.)
7990 - 6211	1
7990 - 6221	2
7990 - 6241	4-1/2
7990 - 6261	6-1/2
7990 - 6271	7-1/2
7990 - 6281	8-1/2
7990 - 6301	10-1/4
7990 - 6321	12-1/4

Installation Dimensions — Roof Jack Table —

Installation Dimensions — Roof Jack Table — "Short" Model

These dimensions are from the floor to the top side of the roof. See Figure 6.

ROOF JACK MODEL #	Ⓐ ADJUSTABLE HEIGHT (IN.)
4000-7141/C	83 to 104
4000-7151/C	90 to 116
4000-7171/C	127 to 157
4000-8161Ⓢ	85 to 101
4000-8181Ⓢ	99 to 129

Ⓢ These jacks have removable crowns.

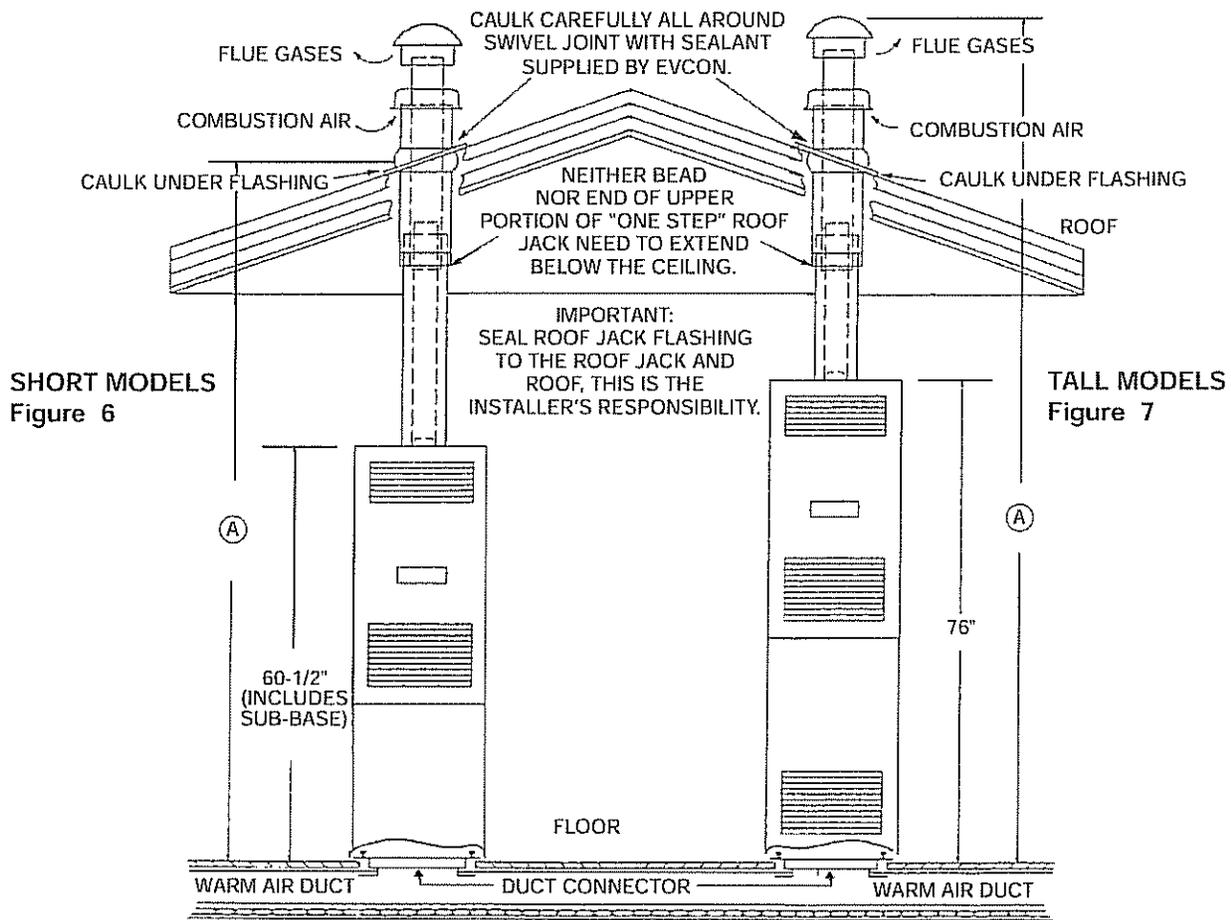
"Tall" Model

These dimensions are from the floor to the top side of the roof. See Figure 7.

ROOF JACK MODEL #	Ⓐ ADJUSTABLE HEIGHT (IN.)
4000-7141/C	99 to 120
4000-7151/C	106 to 132
4000-7171/C	143 to 173
4000-8161Ⓢ	101 to 117
4000-8181Ⓢ	115 to 145

Ⓢ These jacks have removable crowns.

Note: Roof Flange is adjustable up to 23" (5-12 pitch)



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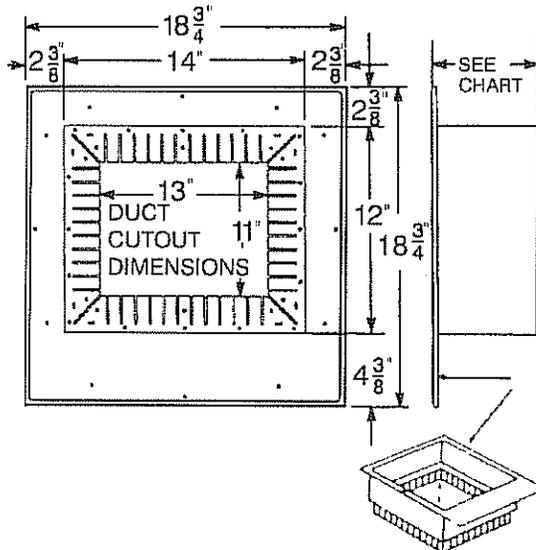


COLEMAN/EVCON MOBILE HOME FURNACES

TECHNICAL DATA (cont'd)

Gas Furnace (cont'd)

MODEL NO.	SHORT MODELS		TALL MODELS	
	COAS066 (BDD)	COAS084 (BDD)	COAT066 (BDD)	COAT084 (BDD)
Input — BTUH	66,000	84,000	66,000	84,000
Output — BTUH	54,000	67,000	53,000	67,000
AFUE	80.3%	80%	80.3%	80%
Power Supply	120V/60 Hz/1 Ph	120V/60 Hz/1 Ph	120V/60Hz/1 Ph	120V/60Hz/1 Ph
Blower Assembly	7970-590	7995-591	7970-590	7995-591
Speed	Single	Single	Single	Single
RPM	1100	1050	1100	1050
Horsepower	1/6	1/4	1/6	1/4
Amps	8.2	10	8.2	10
Static Pressure	0.3	0.3	0.3	0.3
Air Delivery — CFM	950	1175	950	1175
Wheel Dimensions (cm) (in.)	27 × 18.1 10-5/8 × 7-1/8		27 × 18.1 10-5/8 × 7-1/8	
Cabinet Dimensions (cm) (in.)	146.02 H 49.53 W 60.96 D 59.5 H 19.5 W 24.0 D		193.04 H 49.53 W 60.96 D 76.0 H 19.5 W 24.0 D	
Shipping Weight	73 kg (168 lbs.)		78 kg (175 lbs.)	



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COLEMAN/EVCON MOBILE HOME FURNACES

TECHNICAL DATA (cont'd)

Accessories

Installation Dimensions — Table 4 — DLAS Roof Jacks

These dimensions are from the floor to the top side of the roof. See Figure 8.

ROOF JACK MODEL #	ADJUSTABLE HEIGHT (IN.)
4000-7141/C	75 to 86
4000-7141/C	83 to 104
4000-7151/C	90 to 116
4000-7171/C	127 to 157
4000-8161/C*	85 to 101
4000-8181/C*	99 to 129

* These jacks have removable crowns.

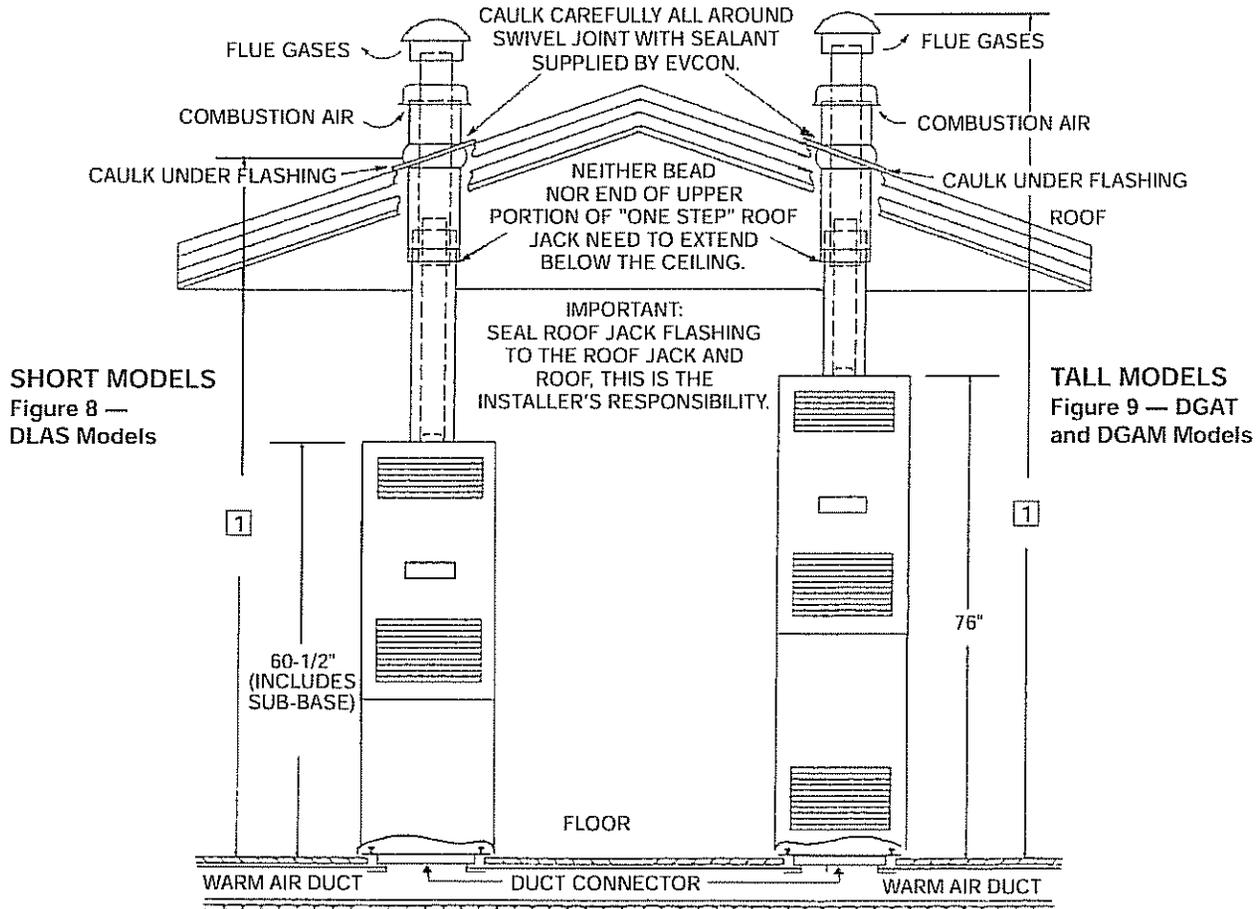
Note: It is recommended that the 7900 – 6171 (17") interior extension be used with these models. If used — Refer to Table 5 for sizing of roof jack.

Installation Dimensions — Table 5 — DGAT and DGAM Roof Jacks

ROOF JACK MODEL #	ADJUSTABLE HEIGHT (IN.)
4000-7101/C	86 to 95
4000-7121/C	91 to 102
4000-7141/C	99 to 120
4000-7151/C	106 to 132
4000-7171/C	143 to 173
4000-8161/C*	101 to 117
4000-8161/C*	115 to 145

* These jacks have removable crowns.

Note: Roof Flange is adjustable up to 23" (5-12 pitch)



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COLEMAN/EVCON MOBILE HOME FURNACES

TECHNICAL DATA (cont'd)

Accessories (cont'd)

Ceiling Rings

The ceiling ring is to meet fire stop requirements. Accessory Ceiling Ring (P/N 7660—2841) may be used, (see Figure 10) or the mobile home manufacturer or the installer may use other approved methods to stop fire.

If required, three (3) sections of Accessory Ring may be used as shown in Figure 10B to provide closer clearance around roof jack.

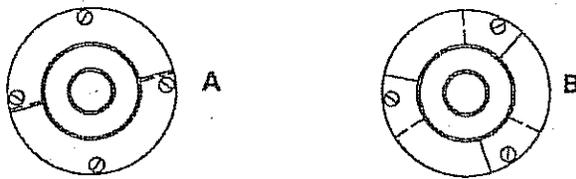


Figure 10 — Ceiling Rings

Duct Connectors

The duct connector is designed for use on ducts down to 12" in width. When using the connector on smaller width ducts, there will not be sufficient clearance to bend the tabs on two sides of the duct connector.

In such cases the tabs may be attached to the sides of the duct by using sheet metal screws or other suitable fasteners. Holes for sheet metal screws are provided in three (3) tabs on each side of the duct connector. If more than 3 tabs need to be used to provide a more secure and air tight connection, the remaining tabs can also be fastened to the duct with screws after drilling the required screw holes.

If tape is used to provide a better air seal, it should be a type approved by the applicable national or local codes.

Table 6 — Duct Connectors

SALES PACKAGE	PART NO.	DEPTH
7681-6621	7681-602	2" Duct Connector — for ducts 1-1/8" below top of floor surface
7681-6631	7681-603	3" Duct Connector — for ducts 2-1/8" below top of floor surface
7681-6651	7681-605	5" Duct Connector — for ducts 4-1/8" below top of floor surface
7681-6661	7681-606	6" Duct Connector — for ducts 5-1/8" below top of floor surface
7681-6671	7681-607	7" Duct Connector — for ducts 6-1/8" below top of floor surface
7681-6681	7681-608	8" Duct Connector — for ducts 7-1/8" below top of floor surface
7681-6691	7681-609	9" Duct Connector — for ducts 8-1/8" below top of floor surface
7681-6611	7681-611	11" Duct Connector — for ducts 10-1/8" below top of floor surface
7681-6711	7681-612	12" Duct Connector — for ducts 11-1/8" below top of floor surface

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COLEMAN/EVCON MOBILE HOME FURNACES

TECHNICAL DATA (cont'd)

Accessories (cont'd)

Template and Cutout Dimensions

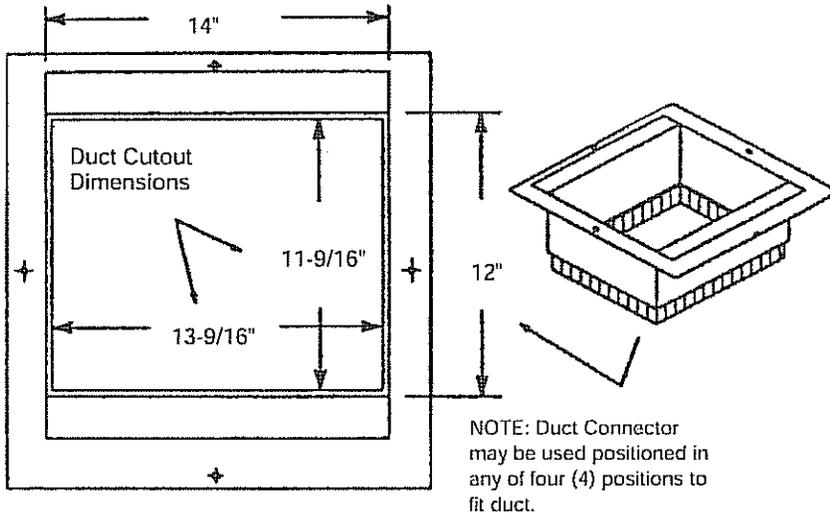


Figure 11 — Duct Connector Dimensions

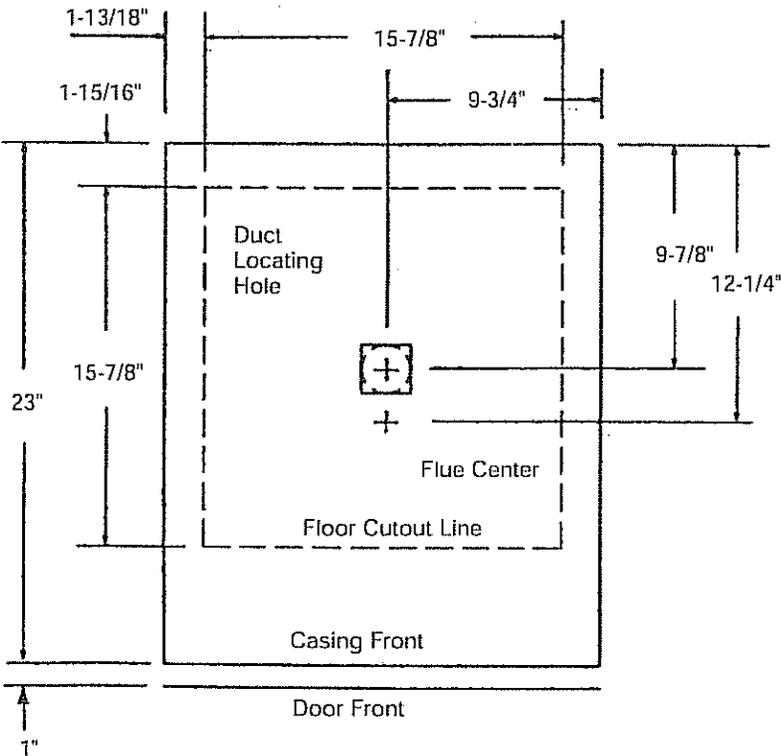


Figure 12 — Template

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TECHNICAL SPECIFICATIONS

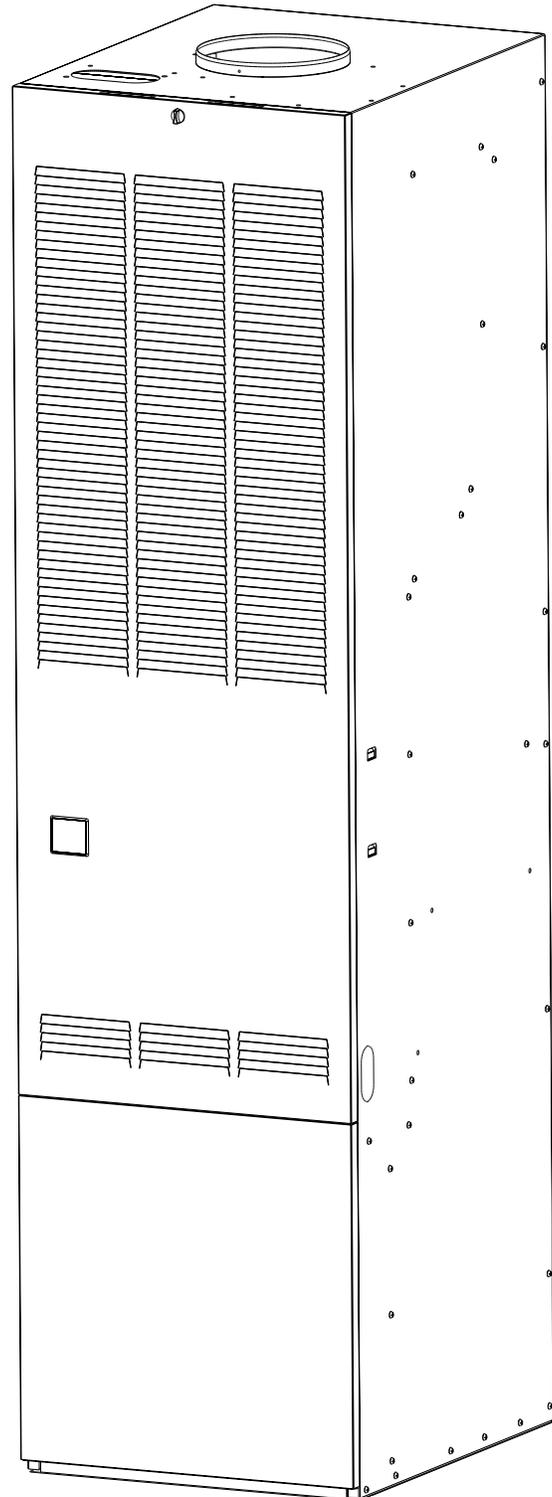
M1 Series Furnaces

- M1G*** Standing Pilot
- M1M*** Hot Surface Ignition
- M1S*** Oil Gun
- M1B*** Gas Gun

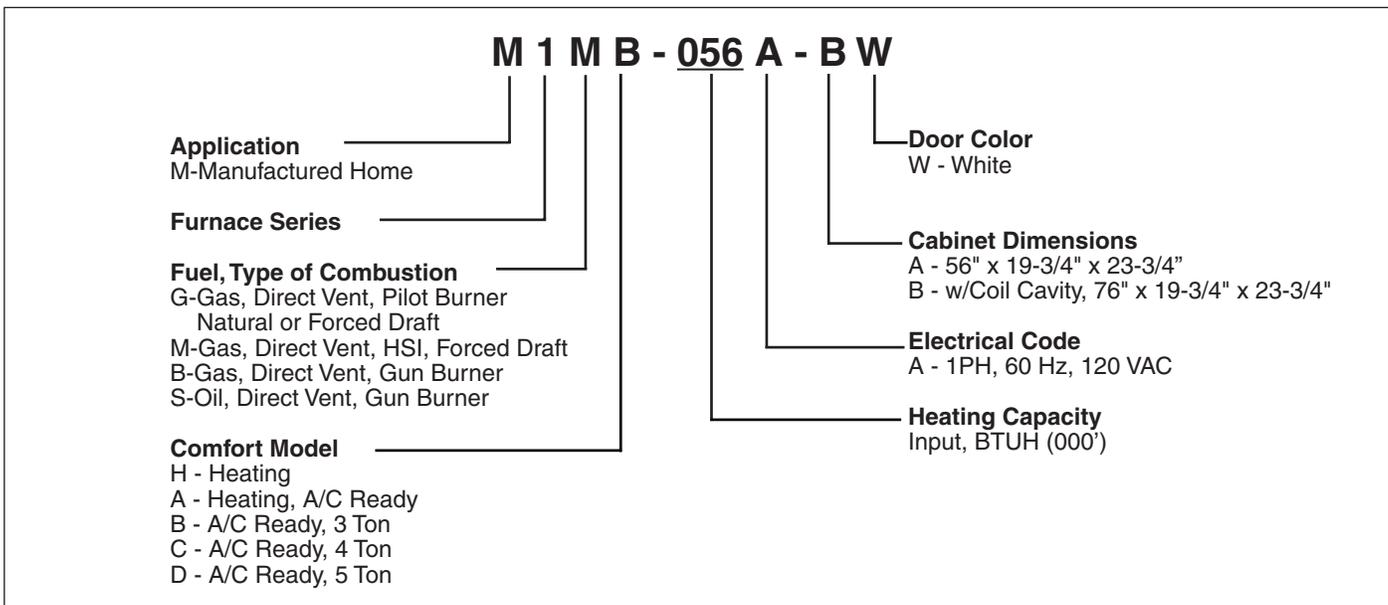
The M1 Series furnace is designed for all sizes of manufactured and modular homes. These units incorporate high efficiency, reliability, and low maintenance. Units may be installed free standing in a utility room or enclosed in an alcove or closet. M1 Series furnaces are available in A/C adaptable or A/C ready, with or without coil cavity box, multiple blower combinations for cooling requirements, and many burner options.

Features and Benefits

- **Sealed Combustion System**
Vents exhaust gas directly outdoors and draws in 100% outside air for the burner.
- **Easy Open Pawl Latch**
Secures the door firmly for transit, yet allows easy removal for access.
- **Choice of Air Conditioning Options**
From 2 to 5 tons A/C ready.
- **Large, Effective Air Filter**
Room air is cleaner with this permanent washable filter.
- **High Efficiency Drum Heat Exchanger**
Delivers optimum heat transfer with low air resistance.
- **Appliance Quality Door**
Protects against rust and other corrosion. Baked enamel finish allows for easy cleaning.
- **Fully Insulated Cabinet**
Insures minimized heat loss and quiet operation.
- **Reliable Burner**
With uniform flame pattern extends life of heat exchanger.
- **Ventilation Switch**
Conveniently located in the door (heat only models).



MODEL IDENTIFICATION



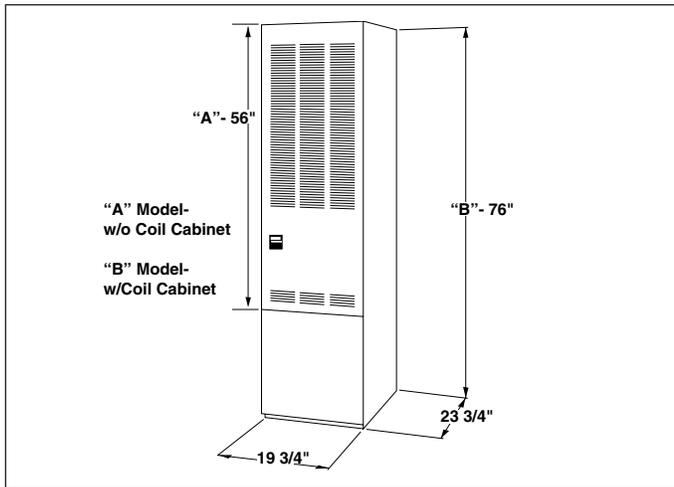
SPECIFICATIONS

Furnace Model No	Input MBtu/h	Output MBtu/h	Orifice No		E.S.P. In WC	Pilot Burner	Ignitor Direct	Comb. Blower	Motor Hp	FLA	A/C Ready Tons	AFUE % Nat / LP	Shipping Weight	
			Nat.	LP									A Cabinet	B Cabinet
M1GH 056	56	45	29	45	0.2	x			1/8	6.3	2*		146	161
M1GB 056	56	45	29	45	0.3	x			1/4	6	3	75	151	166
M1GC 056	56	45	29	45	0.3	x			1/2	7.9	4		155	170
M1GD 056	56	45	29	45	0.3	x			3/4	11	5		157	172
M1GH 070	70	57	24	42	0.3	x			1/5	5	2½*		148	163
M1GB 070	70	57	24	42	0.3	x			1/4	6	3	75	152	167
M1GC 070	70	57	24	42	0.3	x			1/2	7.9	4		156	171
M1GD 070	70	57	24	42	0.3	x			3/4	11	5		158	173
M1GH 077	77	60	21	40	0.3	x		x	1/4	6	3*		147	162
M1GB 077	77	60	21	40	0.3	x		x	1/4	6	3	75	148	163
M1GC 077	77	60	21	40	0.3	x		x	1/2	7.9	4		155	170
M1GD 077	77	60	21	40	0.3	x		x	3/4	11	5		157	172
M1GH 090	90	70	17	36	0.3	x		x	1/4	6	3*		149	164
M1GB 090	90	70	17	36	0.3	x		x	1/4	6	3	75	150	165
M1GC 090	90	70	17	36	0.3	x		x	1/2	7.9	4		155	170
M1GD 090	90	70	17	36	0.3	x		x	3/4	11	5		157	172
M1MA 056	56	46	29	45	0.2		x	x	1/8	6.3	2		147	162
M1MB 056	56	46	29	45	0.3		x	x	1/4	6	3	80	152	167
M1MC 056	56	46	29	45	0.3		x	x	1/2	7.9	4		156	171
M1MD 056	56	46	29	45	0.3		x	x	3/4	11	5		158	173
M1MA 070	70	57	24	42	0.3		x	x	1/5	5	2½		149	164
M1MB 070	70	57	24	42	0.3		x	x	1/4	6	3	80	153	168
M1MC 070	70	57	24	42	0.3		x	x	1/2	7.9	4		157	172
M1MD 070	70	57	24	42	0.3		x	x	3/4	11	5		158	173
M1MB 077	77	62	21	40	0.3		x	x	1/4	6	3		149	164
M1MC 077	77	62	21	40	0.3		x	x	1/2	7.9	4	80	156	171
M1MD 077	77	62	21	40	0.3		x	x	3/4	11	5		158	173
M1MB 090	90	72	17	36	0.3		x	x	1/4	6	3		151	166
M1MC 090	90	72	17	36	0.3		x	x	1/2	7.9	4	80	156	171
M1MD 090	90	72	17	36	0.3		x	x	3/4	11	5		158	173
M1SB 066	66	53	26	43	0.3		x	x	1/4	6	3		N/A	185
M1BC 066	66	53	26	43	0.3		x	x	1/2	7.9	4	80	172	187
M1BB 086	86	68	18	37	0.3		x	x	1/4	6	3		178	193
M1BC 086	86	68	18	37	0.3		x	x	1/2	7.9	4		179	194
M1BB 066	66	54	.50 Gph		0.3			x	1/4	6	3		N/A	165
M1SC 066	66	54	.50 Gph		0.3		Burner Model AF - 10 Nozzle	x	1/2	7.9	4	80	152	167
M1SB 086	86	71	.65 Gph		0.3		Spray Angle 80° A	x	1/4	6	3		158	173
M1SC 086	86	71	.65 Gph		0.3			x	1/2	7.9	4		159	174

Electrical Supply - 120 volts, 60HZ, 1 Ph.
 Fuse or Breaker - 15 amps
 Temperature Rise - 45° to 75°F
 Gas Connection - 1/2" NFPT
 High Altitude - See Table 11 in the Installation Instructions for elevations above 2,000 feet.

Thermostat Circuit - 24 volts, 60HZ, 30 vac
 Normal Anticipator Setting - 0.4
 Manifold Pressure - Natural Gas: 3.5" w.c. LP Gas: 10" w.c.
 *Blower Capacity, relay box must be added for A/C

DIMENSIONS



CLEARANCES

ALL MODELS	CLOSET	ALCOVE
Front	6"	18"
Back	0"	0"
Sides	0"	0"
Roof Jack	0"	0"
Top	6"	6"
Top and Sides of Duct	0"	0"
Bottom of Duct		
B Cabinet	0"	0"
A Cabinet (w/coil box)	0"	0"
A Cabinet (w/o coil box)	1/4"	1/4"

BLOWER PERFORMANCE

Model No.	HP/wheel	Speed	ESP (" WC)	CFM WITHOUT COIL				CFM WITH COIL				
				Low	Med-Lo	Med-Hi	High	Low	Med-Lo	Med-Hi	High	
M1GH 056	1/8 HP	1	0.1				820				730	
M1MA 056	9 X 7.5		0.2				790				680	
			0.3				720				610	
			0.4				650				550	
			0.5				560				450	
			0.6				430				330	
M1GH 070	1/5 HP	1	0.1				950				850	
M1MA 070	9 X 7.5		0.2				910				810	
			0.3				850				730	
			0.4				780				670	
			0.5				680				580	
			0.6				570				480	
M1GH 077	1/4 HP	1	0.1				1210				1140	
M1MA 077	10 x 8		0.2				1190				1110	
M1GH 090			0.3				1140				1050	
M1MA 090			0.4				1090				990	
			0.5				1030				930	
			0.6				970				870	
M1GB 056	1/4 HP	3	0.1		740	950	1210		730	930	1140	
M1MB 056	10 x 8		0.2		730	940	1190		720	920	1110	
M1GB 070			0.3		700	920	1140		690	880	1050	
M1MB 070			0.4		670	880	1090		660	840	990	
M1GB 077			0.5		640	840	1030		620	790	930	
M1MB 077			0.6		610	780	970		580	740	870	
M1GB 090												
M1MB 090												
M1BB 066												
M1SB 066												
M1BB 086												
M1SB 086												
M1GC 056	1/2 HP		4	0.1	890	1070	1270	1480	880	1050	1220	1340
M1GC 070	11 X 8			0.2	880	1060	1260	1460	870	1040	1210	1330
M1GC 077		0.3		860	1020	1220	1400	850	1000	1160	1270	
M1GC 090		0.4		840	1000	1180	1350	820	980	1110	1210	
M1MC 056		0.5		810	960	1120	1280	800	940	1070	1160	
M1MC 070		0.6		760	920	1080	1220	750	890	1010	1090	
M1MC 077												
M1MC 090												
M1BC 066												
M1BC 086												
M1SC 066												
M1SC 086												
M1GD 056	3/4 HP	4		0.2	900	1110	1450	1850	870	1070	1420	1700
M1GD 070	10 x 8			0.3	860	1080	1410	1810	840	1050	1380	1650
M1GD 077			0.4	830	1040	1370	1760	820	1030	1350	1630	
M1GD 090			0.5	790	1020	1340	1730	780	1000	1320	1590	
M1MD 056			0.6	770	990	1320	1700	760	980	1290	1550	
M1MD 070												
M1MD 077												
M1MD 090												

ACCESSORIES

Description	Part Number
Blower, 2-3 ton	903773
Blower, 2-4 Ton	903413
Blower, 2-5 Ton	903414
Relay Kit, 2 wire	903092A
Relay Kit, 4-7 wire	902898A
Heating Thermostat (I)	903182 / 903188
Heating Thermostat (M)	903183 / 903189
Heating/Cooling Thermostat CM65 (I)	903184 / 903190
Heating/Cooling Thermostat CM65 (M)	903185 / 903191
Heating/Cooling Thermostat G.E. (I)	903186 / 903192
Heating/Cooling Thermostat G.E. (M)	903187 / 903193
Thermostat Sub-Base	914146
Automatic Cavity Damper	901083
New England Safety Kit	901855
Ceiling Rings (1 piece for flat ceilings)	901943
Ceiling Rings (2 piece adjustable)	902521
"VEE" Box Adapters (10") - 5 / carton	901985
Duct Connector 10" x 6" - 6 / carton	902926
"VEE" Box Adapters (12") - 5 / carton	902149
Single Wide Fitting Kit (12")	911468A
Double Wide Fitting Kit (12")	911469A
Single Wide Fitting Kit (14")	914957
Double Wide Fitting Kit (14")	914956
Y-Fitting (12")	911470
Y-Fitting (14")	917195

Sloped Roof Flashings	Part Number
2" in 12" - 5 / carton	901942
2.5" in 12" - 5 / carton	901941
3" in 12" - 5 / carton	901940
3.5" in 12" - 5 / carton	901939
4" in 12" - 5 / carton	901938

Roof Jack	Part Number
FAW1523-0A	903658
FAW2135-0A	903659
FAW2747-0A	903660
FAWT2747-0A	903661
SAW2135-2A	903662
SAW2747-2A	903663
SAW2135-2A	903664
SAW2135-2A	903680
SAWT2747-2A	903667
SAW3563-2A	903682
SAWT5195-2A	903679
SAW2747-4A	903678A
SAW3563-4A	903665A
SAW5195-4A	903666A
SAWT2747-4A	903668A
SAWT3563-4A	903683A
SAWT5195-4A	903669A

Vent Kits	Part Number
Soffit Air Inlet (f or VentilAire III only)	917201
Wall Vent Kit (side wall depressurization)	914115
Soffit Vent Kit (soffit depressurization)	914116
Roof Vent Kit (roof depressurization)	914117
Air Tube Kit M (high capacity M Series gas/oil furnaces)	914118
VentilAire III - Sloped 3/12	914098
VentilAire IV - Sloped 3/12	914229
VentilAire IV - A - Sloped 3/12 (w/alarm)	914750

Flue Extensions	Part Number
E110A-5	901935
E118A-5	903107
E116A-5	901937

Plenum Connectors	Part Number	
11.25 x 13.50 x 0.88	12 / carton	901987A
11.25 x 13.50 x 2.00	12 / carton	901988A
11.25 x 13.50 x 4.25	6 / carton	901989A
11.25 x 13.50 x 6.25	6 / carton	901990A
11.25 x 13.50 x 8.25	4 / carton	901991A
11.25 x 13.50 x 10.25	3 / carton	901992A
11.25 x 13.50 x 12.25	3 / carton	901993A
11.25 x 13.50 x 6.25	24 / carton	902681A



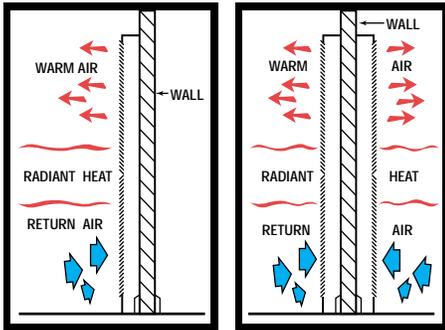
COZY

Gravity Wall Furnaces

Cozy Comfort...with our Warmest Regards!

Cozy Gravity Wall Furnaces mount on any inside or outside wall (single wall model only) with 16" center stud space and provide both circulated and radiated heat—a preferred combination! Available in either single wall or dual wall models, they provide economy and flexibility of operation and allow individual temperature control in "hard-to-heat" areas. Cozy is a perfect answer for either new construction or remodeling heating applications.

Single or Dual Wall Models Available



COZY VALUE FEATURES

- **Neutral Bone Baked Enamel Finish** - resists fading and cleans easily with a damp cloth.
- **Resettable Blocked Flue Safety Device** - automatically shuts the unit off in the event of flue blockage or incorrect vent installation.
- **"Unibody" Grill Construction** - of heavy gauge steel eliminates heat warpage.
- **Self Energizing Controls** - provide their own power, eliminating heat loss even during a power failure.
- **430 Stainless Steel, Ported Burner** - provides quiet ignition and extinction and excellent flame characteristics for Natural and L.P. gas.
- **Low BTU Pilot** - is durably constructed of stainless steel and provides maximum efficiency during standby.
- **Continuous Seam Welded Combustion Chamber** - constructed of heavy gauge steel, maximizes heat transfer and is warranted for ten (10) years.
- **Optional Thermostatically Controlled Fan** - is available for single and dual (uses two) wall furnaces to enhance air circulation and eliminate air stratification.
- **Wall Thermostat or Built-in Bulb Stat** - control options available.

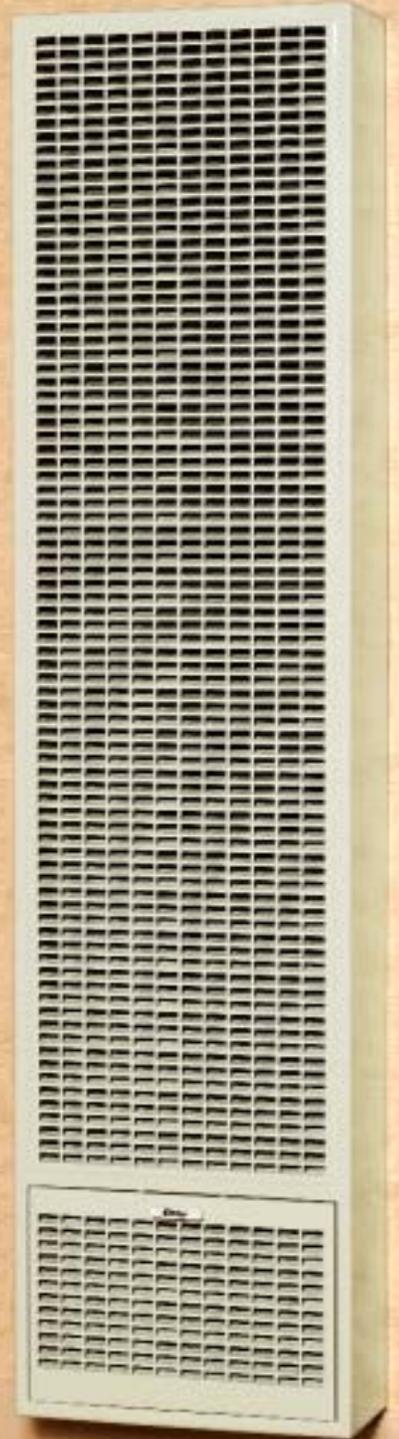


LTS

Manufacturers of Heating Equipment Since 1888

6 MODELS TO CHOOSE FROM . . . 25,000 TO 50,000 BTU

Mounts in the wall . . . features Comfort and Economy!



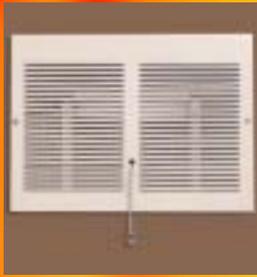
LIMITED WARRANTY ON COMBUSTION CHAMBER

www.cozyheaters.com

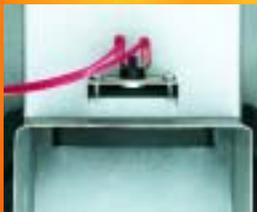


Gravity Wall Furnaces

*Engineered for years of efficient, trouble free service
Featuring 20 gauge aluminized combustion chambers, warranted for 10 years.*



Single Wall Furnace models may be equipped with a Rear Register Kit and Grille (40542) allowing warm air to circulate into the adjoining room. Adjustable vent controls air flow.



Resettable Blocked Flue Safety Device automatically shuts the unit off in the event of flue blockage or incorrect vent installation.



Continuous Seam-Welded Combustion Chamber constructed of heavy gauge aluminized steel, maximizes heat transfer. Warranted for ten (10) years.



Free Standing Kit (FSK) allows single wall furnaces to be surface mounted. Eliminates cutting holes in wall — ideal for masonry wall installation. For use with ceilings up to 8'6" tall; adds 4-3/4" to unit depth. (vent pipe not included). Weight: 16 lbs.



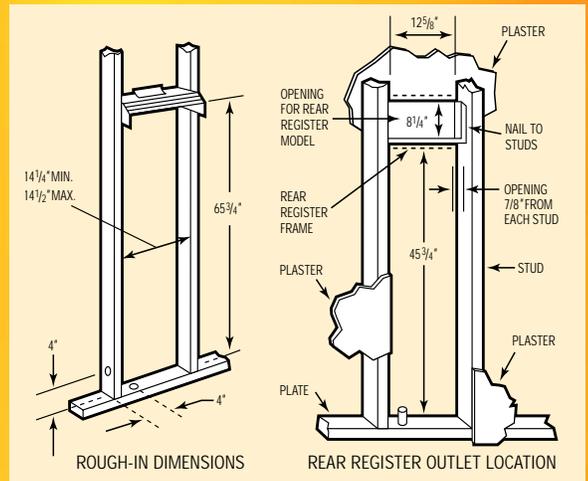
Fan accessory kit (WFF81) available for installation on top of furnace to increase circulation. Adds only 10 1/2" to height of casing. Fits flush against wall — not recessed. Operates at 50 CFM on 115V.



Optional Night Setback Thermostat (XL 110 / XL411) provides economic as well as convenient operation.

ROUGH IN

Easy installation method reduces installation time to minutes . . . only one man needed. New positive fastening tabs hold grille in place . . . makes installation a snap!



SPECIFICATIONS

	Model Number	Type Control	Type Gas	BTU/Hr. Input	Vent Size	Gas Inlet	Finished Dimensions	Shipping Weight	Rear Register Kit Model	Rear Register Kit Weight	Fan Kit Model	Fan Kit Weight
SINGLE WALL	W251	Bulb	Nat.	25,000	4"	1/2"	16 1/2" W x 68" H x 6 1/2" D	90 lbs.	40542	5 lbs.	WFF81	10 lbs.
	W255	M. Volt	Nat.	25,000	4"	1/2"	16 1/2" W x 68" H x 6 1/2" D	90 lbs.	40542	5 lbs.	WFF81	10 lbs.
	W252	Bulb	L.P.	25,000	4"	1/2"	16 1/2" W x 68" H x 6 1/2" D	90 lbs.	40542	5 lbs.	WFF81	10 lbs.
	W256	M. Volt	L.P.	25,000	4"	1/2"	16 1/2" W x 68" H x 6 1/2" D	90 lbs.	40542	5 lbs.	WFF81	10 lbs.
	W351	Bulb	Nat.	35,000	4"	1/2"	16 1/2" W x 68" H x 6 1/2" D	90 lbs.	40542	5 lbs.	WFF81	10 lbs.
	W355	M. Volt	Nat.	35,000	4"	1/2"	16 1/2" W x 68" H x 6 1/2" D	90 lbs.	40542	5 lbs.	WFF81	10 lbs.
	W352	Bulb	L.P.	35,000	4"	1/2"	16 1/2" W x 68" H x 6 1/2" D	90 lbs.	40542	5 lbs.	WFF81	10 lbs.
	W356	M. Volt	L.P.	35,000	4"	1/2"	16 1/2" W x 68" H x 6 1/2" D	90 lbs.	40542	5 lbs.	WFF81	10 lbs.
DUAL WALL	W501	Bulb	Nat.	50,000	4"	1/2"	16 1/2" W x 68" H x 6 1/2" D	134 lbs.	N/A	N/A	WFF81	10 lbs.
	W505	M. Volt	Nat.	50,000	4"	1/2"	16 1/2" W x 68" H x 6 1/2" D	134 lbs.	N/A	N/A	WFF81	10 lbs.
	W502	Bulb	L.P.	50,000	4"	1/2"	16 1/2" W x 68" H x 6 1/2" D	134 lbs.	N/A	N/A	WFF81	10 lbs.
	W506	M. Volt	L.P.	50,000	4"	1/2"	16 1/2" W x 68" H x 6 1/2" D	134 lbs.	N/A	N/A	WFF81	10 lbs.

One or two fan kits may be used on dual-wall furnace.

Louisville Tin & Stove Co.

INCORPORATED

P.O. BOX 2767 • LOUISVILLE, KENTUCKY 40201-2767
PHONE: (502)589-5380 • FAX: (502)589-5382

www.cozyheaters.com
cozyinfo@cozyheaters.com



Manufacturers of heating equipment

for over 118 years



Proud Member Of
HARDI
HEATING, AIR CONDITIONING
& REFRIGERATION CONTRACTORS ASSOCIATION



COZY

Counterflow and Direct Vent Counterflow Wall Furnaces

Cozy Comfort...with our Warmest Regards!



◀ Counterflow Wall Furnaces

5 Models to Choose From 35,000 to 65,000 BTU

COZY offers the answer to your remodeling or new construction heating needs, with the **Counterflow Wall Furnace** series. **COZY Counterflows** combine contemporary styling and forced air efficiency. A powerful, thermostatically controlled blower pulls cold air into the upper grill and delivers warm air at floor level where it's needed most.

Counterflow action provides uniform room temperatures and economic operation. Optional side or rear outlet kits are available to further disperse heat into adjacent rooms.

COZY Counterflows feature an attractive neutral bone, baked enamel finish, and casing of textured steel that enhances any room setting. **Counterflow Wall furnaces** vent straight up and can be mounted on inside or outside wall.



Direct Vent Counterflow Wall Furnaces ▶

4 Models to Choose From 40,000 to 62,500 BTU

COZY Direct Vent Counterflow Wall Furnaces incorporate three preferred concepts in heating – fan forced efficiency, counterflow heat delivery and sealed-combustion/direct venting. Cooler air is drawn into the top of the unit, heated and delivered at floor level where it is needed most. Sealed-combustion means the unit draws combustion air from outside and exhausts combustion products to the outside making safety a paramount consideration and allowing installation in sleeping quarters. Direct venting eliminates expensive ductwork and simplifies installation. **Cozy Direct Vent Counterflows** mount on any outside wall and are perfect for multi-story, room addition, garage apartment and vacation housing applications.

LTS 

Manufacturers of Heating Equipment Since 1888

www.cozyheaters.com

LIMITED WARRANTY

The Louisville Tin & Stove Co. warrants to the original user the accompanying product for the period specified herein, provided said product is installed, operated, maintained, serviced, and used according to the instructions and specifications accompanying the product. **AS OUTLINED IN OUR INSTRUCTIONS, ANY WARRANTY CONSIDERATIONS ARE CONTINGENT ON INSTALLATION BY A QUALIFIED INSTALLER (CONTRACTOR). SELF-INSTALLATION IS NOT RECOMMENDED AND MAY INVALIDATE YOUR WARRANTY.**

If within a period of one year from the date of installation of the product, any part supplied by the manufacturer proves to be defective due to workmanship or material, it will replace such part, provided parts have not been subjected to misuse, alteration, neglect, or accidents. The term of the warranty for the heat exchanger is covered in Table A below. Any claim not made within ten (10) days after the expiration of the warranty period shall be deemed waived by the user.

The manufacturer shall have no liability or be required to perform any obligation under this warranty unless, when requested, the user returns, at the user's expense, the component or product claimed defective, to the manufacturer for inspection, to enable the manufacturer to determine if the claimed defect is covered by this warranty.

No charges for freight, labor or other expenses incurred in the repair, removal, or replacement of any product or component claimed to be defective, will be paid by the manufacturer to the user, and the manufacturer will not be liable for any expenses incurred, by the user, in remedying any defect in the product.

Service under this warranty is the responsibility of the installer. In the event service under this warranty is needed, the user of the product shall request such service directly from the installer. If the user is unable to locate the installer, the user should write directly to the manufacturer, and the name of an alternative service source will be supplied.

The product safety registration card (packed inside the appliance) must be completed and returned to the factory.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED (WHETHER WRITTEN OR ORAL). ANY IMPLIED WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE IS EXPRESSLY LIMITED TO THE DURATION OF THE MANUFACTURER'S EXPRESS, WRITTEN WARRANTY.

UNDER NO CIRCUMSTANCES SHALL THE MANUFACTURER BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR EXPENSES ARISING DIRECTLY OR INDIRECTLY FROM ANY COMPONENT OR FROM THE USE THEREOF. THE REMEDIES SET FORTH HEREIN SHALL BE THE EXCLUSIVE REMEDIES AVAILABLE TO THE USER AND ARE IN LIEU OF ALL OTHER REMEDIES.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH VARY, FROM STATE TO STATE.

TABLE A

Warranty for gas appliance heat exchangers only.

<u>Product</u>	<u>Warranty Period</u>
Cozy Gas Fired Floor Furnace	10 Years
Cozy Gas Fired Wall Furnace	10 Years
Cozy Gas Fired Vented Console Heater	10 Years
Cozy Gas Fired Direct Vent Heater	10 Years
Cozy Gas Fired Counterflow Furnace	10 Years
Cozy Gas Fired Counterflow Direct Vent Furnace	10 Years
Cozy Gas Fired Mobile Home Direct Vent Furnace	10 Years
Cozy Gas Fired Hi-Efficient Direct Vent Wall Furnace	10 Years

LOUISVILLE TIN AND STOVE COMPANY

P.O. Box 2767 - Louisville, Kentucky 40201-2767

9- or 12-Year Limited Tank/Parts Warranty*

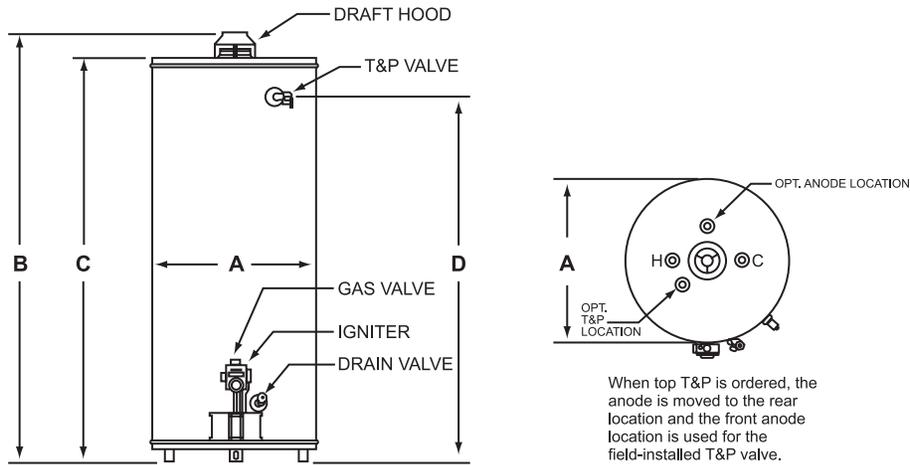
The Flame Guard® Safety System reduces the risk of accidental fires involving flammable vapors from products such as gasoline, paint thinner, and solvents. With a standard right-hand thread thermocouple, resettable thermal safety switch and larger sight-glass, the Flame Guard® Safety System is better than ever.

- **Combustion Safety Cut-off Switch**
Shuts down the water heater should combustion air be restricted.
- **Lint Resistant Design**
Main burner ignition forces air through the flame trap blowing lint off the trap. Proven design tested using four different lint test scenarios.
- **Dip Tube**
Carries cold inlet water deep into the tank to minimize temperature dilution of hot water. Diffuser Dip Tube minimizes sediment for long tank life.
- **T&P Valve**
Conveniently located on the side of the tank to facilitate piping to a drain or external to the building. Also available with top T&P opening for field installation.
- **3/4" Top Water Connections**
- **1/2" Gas Connection**
- **Aluminized Steel Multiport Low NOx Burner**
- **Combination Thermostat/ECO**
With factory-preset pressure regulator and built-in millivolt-powered energy cutoff for overheat protection.
- **Anode Rod**
Top-mounted, heavy-duty anode for added tank protection, extending the life of the tank.
- **Code Approvals**
CSA International (formerly AGA) ANSI Z21.10.1a-current edition/
CSA 4.1a-current edition
- **Drain Valve**
Child-resistant, corrosion-resistant drain valve.
- **Piezo Electric Igniter**
For lighting the pilot without matches.

All BFG prefixed models are equipped with the Flame Guard® Safety System



*For complete warranty information consult the written warranty of American Water Heaters found at www.americanwaterheater.com, or call (800) 999-9515.



WARRANTY	MODEL NUMBER	GAL. CAP.	INPUT BTU PER HR.		GPH RECOVERY 90° RISE		VENT DIAM.	E.F.	JACKET DIAM. A	HEIGHT			APPROX. SHIP WEIGHT
			NAT.	LP	NAT.	LP				TOP OF VENT B	TOP OF HEATER C	SIDE T&P D	
9-Year	BFG91-40S40-3NOV	40	40,000	36,000	40.5	36.5	3	0.59	20	52-1/4	49	42-1/4	132
9-Year	BFG91-40T40-3NOV	40	40,000	36,000	40.5	36.5	3	0.59	18	62	58-3/4	51-3/4	127
9-Year	BFG91-50T40-3NOV	50	40,000	40,000	40.5	40.5	3	0.58	20	60-3/4	57-1/2	50-1/2	148
12-Year	BFG122-40T40-3NOV	40	40,000	36,000	40.5	36.5	3	0.63	20	62	58-3/4	51-3/4	137
12-Year	BFG122-50T40-3NOV	50	40,000	40,000	40.5	40.5	3	0.62	22	60-3/4	57-1/2	50-1/2	155
12-Year	BFG122-50T50-4NOV	50	50,000	47,000	50.7	47.6	4	0.60	22	60-3/4	57-1/2	50-1/2	155

Dimensions and specifications subject to change without notice in accordance with our policy of continuous product improvement. Dimensions on all charts shown in inches. Inlet and outlet are on 8" centers. BFG122 models meet California Title 24 Requirements. To order propane models, change "NO" to suffix "P". Delete "V" in model number for top T&P option, T&P opening on top of the heater with the valve shipped in the box for field installation.

Specification

Residential gas water heater(s) shall be flammable vapor-resistant models _____ as manufactured by American Water Heaters, or an approved equal, and shall have a _____-year limited tank warranty and a _____-year limited parts warranty, when installed in a residential application. The heater shall be equipped with a flammable vapor-resistant combustion system that includes an integral flame trap, a resettable thermal switch and a piezo electric igniter. In the event of a flammable vapor incident or a severe back draft condition, the heater must render itself inoperable. The heater must be tested for lint buildup resistance. Heater(s) shall have a storage capacity of _____ gallons and shall have a rated input of _____ BTU's, and shall be design certified, tested and listed in accordance with CSA International to the latest addition ANSI Z21.10.1 - CSA 4.1. Heaters shall meet or exceed the requirements of the Federal "National Appliance Energy Conservation Act of 1987" - current requirements and shall comply with ASHRAE Standard 90.1-1999. The interior of the storage tank shall be lined with a baked-on Fused Ceramic Shield tank lining, fused to the tank at 1600°F, forming a corrosion-resistant lining; polymer linings are not acceptable. Each tank shall be furnished with an internal anode for cathodic protection. The unit must be equipped with a combination gas control thermostat and non-reset type ECO. A corrosion-resistant drain valve shall be provided on the front of each unit. The tank shall be totally encased in a steel jacket, painted and insulated with a non-CFC foam to reduce standby heat loss.

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9-Year Limited Tank/Parts Warranty*

The diffuser dip tube helps reduce sediment buildup inside the water heater tank to preserve high efficiency output for years of trouble-free service.

- **Fused Ceramic Shield**

A tough, thick, durable coat of blue cobalt ceramic is fused to the tank's interior surfaces at 1600°F, forming a corrosion-resistant lining for years of dependable protection and use.

- **Incoloy Lower Heating Element**

Stainless steel sheathed, screw-in, direct immersion, 4500-watt, 240-volt lower heating element for maximum efficiency and longer life. Copper upper heating element.

- **Non-CFC Foam Insulation**

The tank is surrounded by a 2" thick coat of non-CFC polyurethane foam to trap heat inside the tank, saving energy.

- **T&P Valve**

Conveniently located on the side of the tank to facilitate piping to a drain or external to the building. Also available with top T&P opening for field installed top T&P valve.

- **3/4" Water Connections**

Located on top.

- **Anode Rod**

Top-mounted, heavy-duty anode for added tank protection, extending the life of the tank.

- **Built-In Electric Junction Box**

Top-located, convenient junction box, ready for 1/2" or 3/4" conduit.

- **Thermostat/High Limit Control**

Combination control allows adjustment of water temperature while preventing overheat protection.

- **Code Approvals**

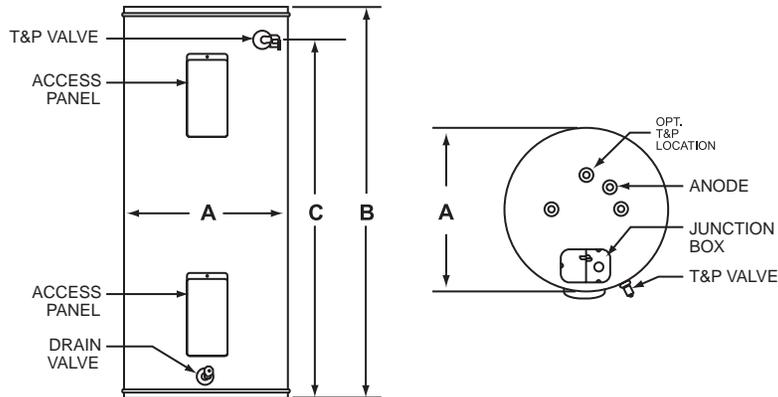
Listed to UL 174, 1987 NAECA current requirement, BOCA and ASHRAE 90.1-1999. All models are certified at 300 PSI test pressure and 150 PSI working pressure.

- **Drain Valve**

Child-resistant, corrosion-resistant drain valve.



*For complete warranty information consult the written warranty of American Water Heaters found at www.americanwaterheater.com, or call (800) 999-9515.



MODEL NUMBER	GALLON CAPACITY	GPH RECOVERY 90° RISE	EF	JACKET DIAMETER A	HEIGHT TO TOP OF HEATER B	HEIGHT TO SIDE T&P VALVE C	APPROX. SHIPPING WEIGHT
E92-40R-045DV	40	20.7	0.92	20	47-1/4	40-3/4	92
E92-40H-045DV	40	20.7	0.92	18	59	52-1/2	102
E92-50R-045DV	50	20.7	0.91	22	46-3/4	40-3/4	121
E92-50H-045DV	50	20.7	0.91	20	58-1/2	51-1/2	115
E92-65H-045DV	66	20.7	0.90	22	59-1/4	53	152
E92-80H-045DV	80	20.7	0.87	24	59-1/4	53	191

To order single element substitute "S" for "D" in model number. Delete "V" in model number for top T&P option, T&P opening on top of heater with the valve shipped in the box for field installation. Dimensions and specifications subject to change without notice in accordance with our policy of continuous product improvement. Dimensions on all charts shown in inches. 3/4" water connections on 8" center. All models are wired for non-simultaneous element operation.

Specification

Residential electric water heater(s) shall be model _____ as manufactured by American Water Heaters, or an approved equal, and shall have a _____ year tank warranty and a _____-year parts warranty, when installed in a residential application. Heater(s) shall have a storage capacity of _____gallons and shall have a rated input of _____ KW at _____ Volts, single phase, 60 cycle AC, and shall be designed, tested and listed in accordance with Underwriter's Laboratories standard UL 174. Heaters shall meet or exceed the requirements of the Federal "National Appliance Energy Conservation Act of 1987" and shall comply with ASHRAE Standard 90.1-1999. The interior of the storage tank shall be lined with a Fused Ceramic Shield lining, fused to the tank at 1600°F, forming a corrosion-resistant lining; polymer linings are not acceptable. Each tank shall be furnished with an internal anode for cathodic protection. The unit must be equipped with a built-in electrical junction box. Electrical heating elements shall be screw-in, direct immersion, resistance type. Element operation shall be controlled by a thermostat for each element. A high temperature cut-off shall be supplied as an integral part of the heater. Element access panels shall be provided on the front of the heater for each element. A corrosion-resistant drain valve shall be provided on the front of each unit. The tank shall be totally encased in a metal jacket and insulated with a non-CFC foam to reduce standby heat loss. The tank must be design certified for 300 PSI test pressure and 150 PSI working pressure.

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6-Year Limited Tank/Parts Warranty*

The mobile home atmospheric models are equipped with FVIR technology, which reduces the risk of accidental fires involving flammable vapors from products such as gasoline, paint thinner, and solvents.

- **Convertible Gas Control For Natural or Propane Gas**

For flexibility to meet the needs of different mobile home installations. Shipped for LP applications; may be field converted to natural gas.

- **Efficient and Quiet Burners**

Multiport burners for even flame distribution, quiet operation, and high-efficiency. Stainless steel burner for propane applications; aluminized steel burner for natural gas meets Low NOx requirements.

- **Combination Thermostat/ECO**

With factory-preset pressure regulator and built-in millivolt-powered energy cut-off for overheat protection.

- **Piezo Electric Igniter**

For lighting the pilot without matches.

- **Resettable Thermal Switch**

- **Fused Ceramic Shield Tank**

For long-lasting protection against rust and corrosion.

- **T&P Valve**

Conveniently located on the side of the tank to facilitate piping to a drain or external to the building.

- **1/2" Gas Connection, 3/4" Top Water Connections**

- **Anode Rod**

Top-mounted, heavy-duty anode for added tank protection, extending the life of the tank.

- **Drain Valve**

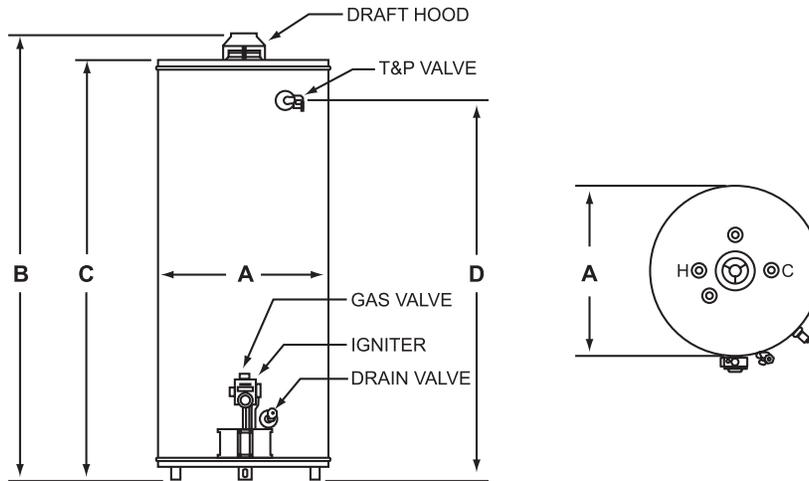
Child-resistant, corrosion-resistant drain valve.

- **Code Approvals**

CSA International (formerly AGA) ANSI Z21.10.1 – CSA 4.1 (current edition). HUD approved for mobile home installation; CEC and 1987 NAECA current requirements. All models are certified at 300 PSI test pressure and 150 PSI working pressure.



*For complete warranty information consult the written warranty of American Water Heaters found at www.americanwaterheater.com, or call (800) 999-9515.



MODEL NUMBER	GAL. CAP.	INPUT BTU PER HR.		GPH RECOVERY 90° RISE		VENT DIAM.	E.F.	JACKET DIAM. A	HEIGHT			APPROX. SHIP WEIGHT
		NAT.	LP	NAT.	LP				TOP OF VENT B	TOP OF HEATER C	SIDE T&P D	
MFG6130T303PV	30	30,000	29,000	30.4	29.4	3	0.61	16	59-3/4	56-1/2	49-1/2	98
MFG6140T403PV	40	40,000	36,000	40.5	36.5	3	0.59	18	62	58-3/4	51-3/4	127

Above models are shipped propane, and may be field converted to natural gas. For high altitude please specify. Low NOx certified. All units have 3/4" top water connections, 1/2" gas connection. Dimensions and specifications subject to change without notice in accordance with our policy of continuous product improvement. Dimensions on all charts shown in inches.

Specification

Residential gas water heater(s) shall be flammable vapor-resistant models _____ as manufactured by American Water Heaters, or an approved equal, and shall have a _____-year limited tank warranty and a _____-year limited parts warranty, when installed in a residential application. The heater shall be equipped with a flammable vapor-resistant combustion system that includes an integral flame trap, a resettable thermal switch and a piezo electric igniter. In the event of a flammable vapor incident or a severe back draft condition, the heater must render itself inoperable. The heater must be tested for lint buildup resistance. Heater(s) shall have a storage capacity of _____ gallons and shall have a rated input of _____ BTU's, and shall be design certified, tested and listed in accordance with CSA International to the latest addition ANSI Z21.10.1 – CSA 4.1. Heaters shall meet or exceed the requirements of the Federal "National Appliance Energy Conservation Act of 1987" – 2004 requirements and shall comply with ASHRAE Standard 90.1-1999. The interior of the storage tank shall be lined with a baked-on Fused Ceramic Shield tank lining, fused to the tank at 1600° F, forming a corrosion-resistant lining; polymer linings are not acceptable. Each tank shall be furnished with an internal anode for cathodic protection. The unit must be equipped with a combination gas control thermostat and non-reset type ECO. A corrosion-resistant drain valve shall be provided on the front of each unit. The tank shall be totally encased in a steel jacket, painted and insulated with a non-CFC foam to reduce standby heat loss.

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6-Year Limited Tank/Parts Warranty*

All residential electric water heaters have the Fused Ceramic Shield lining, a tough, thick, durable coating of ceramic that is fused to the tank's interior surface at 1600°F, forming a corrosion-resistant lining for years of dependable protection and use.

- **Dual Heating Elements**

Screw-in, direct immersion, 4500 watt, 240 volt heating elements for maximum efficiency.

- **Non-CFC Foam Insulation**

The tank is surrounded by a thick coat of non-CFC polyurethane foam to trap heat inside the tank, saving energy.

- **T&P Valve**

Conveniently located on the side of the tank to facilitate piping to a drain or external to the building.

- **3/4" Water Connections**

Side-located.

- **Anode Rod**

Top-mounted, heavy-duty anode for added tank protection, extending the life of the tank.

- **Built-In Electric Junction Box**

Top-located, convenient junction box, ready for 1/2" or 3/4" conduit.

- **Thermostat/High Limit Control**

Combination control allows adjustment of water temperature while providing overheat protection.

- **Code Approvals**

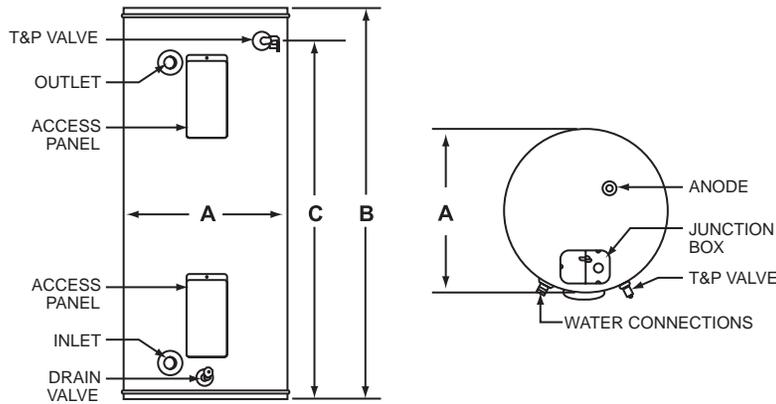
Listed to UL 174, 1987 NAECA current requirements, HUD approved for mobile home installation, BOCA and ASHRAE 90.1-1999. All models are certified at 300 PSI test pressure and 150 PSI working pressure.

- **Drain Valve**

Child-resistant, corrosion-resistant drain valve.



*For complete warranty information consult the written warranty of American Water Heaters found at www.americanwaterheater.com, or call (800) 999-9515.



MODEL NUMBER	GALLON CAPACITY	GPH RECOVERY 90° RISE	EF	JACKET DIAMETER A	HEIGHT TO TOP OF HEATER B	HEIGHT TO SIDE T&P VALVE C	APPROX. SHIPPING WEIGHT
MHE62-30L-045DV	28	20.7	0.93	22	29-1/2	22-1/2	84
MHE62-30H-045DV	30	20.7	0.93	18	45-1/4	38-1/2	77
MHE62-40R-045DV	40	20.7	0.92	20	47-1/4	40-3/4	92

To order single element substitute "S" for "D" in model number. Dimensions and specifications subject to change without notice in accordance with our policy of continuous product improvement. Dimensions on all charts shown in inches. All models are wired for non-simultaneous element operation. 3/4" water connections. Available with side T&P only. 30L model is also top connect.

Specification

Residential electric water heater(s) shall be Mobile Home model _____ as manufactured by American Water Heaters, or an approved equal, and shall have a _____-year tank warranty and a _____-year parts warranty, when installed in a residential application. Heater(s) shall have a storage capacity of _____ gallons and shall have a rated input of _____ KW at _____ Volts, single phase, 60 cycle AC, and shall be designed, tested and listed in accordance with Underwriter's Laboratories standard UL 174. Heaters shall meet or exceed the requirements of the Federal "National Appliance Energy Conservation Act of 1987" and shall comply with ASHRAE Standard 90.1-1999. The interior of the storage tank shall be lined with a Fused Ceramic Shield lining, fused to the tank at 1600°F, forming a corrosion-resistant lining; polymer linings are not acceptable. Each tank shall be furnished with an internal anode for cathodic protection. The unit must be equipped with a built-in electrical junction box. Electrical heating elements shall be screw-in, direct immersion, resistance type. Element operation shall be controlled by a thermostat for each element. A high temperature cut-off shall be supplied as an integral part of the heater. Element access panels shall be provided on the front of the heater for each element. A corrosion-resistant drain valve shall be provided on the front of each unit. The tank shall be totally encased in a metal jacket and insulated with a non-CFC foam to reduce standby heat loss. The tank must be design certified for 300 PSI test pressure and 150 PSI working pressure.

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NRESS00808

EziStat PowerPak

Slimline Integrated Cooler Control for Two-Speed Evaporative Cooler

Installation Instructions

WARNING: FAILURE TO READ AND FOLLOW ALL INSTALLATION AND OPERATING INSTRUCTIONS COULD LEAD TO PERSONAL INJURY AND/OR DAMAGE TO PROPERTY.

WARNING: CONTROL MUST BE INSTALLED AND USED IN ACCORDANCE WITH APPROPRIATE ELECTRICAL CODES AND REGULATIONS. CONSULT WITH A QUALIFIED ELECTRICIAN IF YOU ARE NOT SURE ABOUT ANY PART OF THESE INSTRUCTIONS.

WARNING: DO NOT CONNECT TO A CIRCUIT OPERATING AT MORE THAN 150 VOLTS TO GROUND.

WARNING: CLEAN OUTER SURFACE GENTLY WITH DAMP CLOTH ONLY. DO NOT USE SOAPS OR CLEANING LIQUIDS.

WARNING: DO NOT ATTEMPT TO SERVICE OR REPAIR. NO USER SERVICEABLE COMPONENTS.

WARNING: TO AVOID FIRE, ELECTRICAL SHOCK OR DEATH DISCONNECT ELECTRICAL POWER TO THE SYSTEM AT THE MAIN FUSE OR CIRCUIT BREAKER BEFORE STARTING THE INSTALLATION, AND LEAVE DISCONNECTED UNTIL THE INSTALLATION IS COMPLETE.

System Overview

- This control system is intended to be used with an evaporative cooler with a 2-speed blower (Fan) and a water pump (Pump).
- The control is designed for Fan motors up to 1HP (120V) or 2HP (240V), and with Pump up to 1/10 HP (120V) or 1/8 HP (240V).
- The Fan and Pump must both be rated at 120V or 240V.

Included in kit

- EziStat PowerPak, with detachable face plate.



Additional Requirements

Depending on application and installation, the following additional items may be required:

- Screws or bolts for mounting EziStat PowerPak
- Wiring and housing for connection of EziStat PowerPak; power supply; and Cooler fan and pump.
- Wire Nuts for wiring connections
- Conduit, Connectors, a suitable Connection Box (in or near cooler) and watertight connectors to protect all wiring
- Wall-mounted outlet box

Location of EziStat PowerPak

- 1) Determine a suitable place to install EziStat PowerPak (away from sources of heat, sunlight, or ventilation, and between 4 and 6 feet from the floor).
- 2) Install a wall-mounted outlet box, if one not appropriately located; consider how the wiring from the cooler will be routed there.

Preparation of wiring

120 Volt Installation

- 3) Connect the common connections from the Pump and Fan to the Neutral supply.
- 4) Route the 'Active' wire; 'Common/Neutral' wire; Pump drive; and Fan "High" and Fan "Low" wires down to the Outlet Box, in accordance with local and national electrical codes, taking care to identify each wire for connection with the EziStat PowerPak.

240 Volt Installation

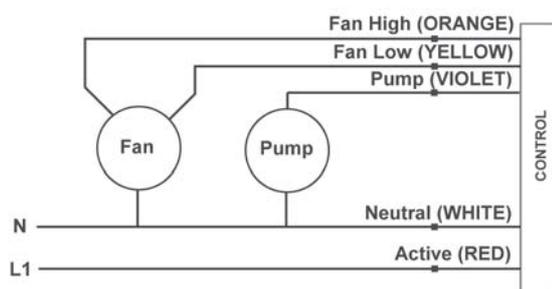
- 3) Connect the common connections from the Pump and Fan to the L2 supply.
- 4) Route the 'L1' wire; 'L2' wire; Pump drive; and Fan "High" and Fan "Low" wires down to the Outlet Box, in accordance with local and national electrical codes, taking care to identify each wire for connection with the EziStat PowerPak.

Installation of the EziStat PowerPak

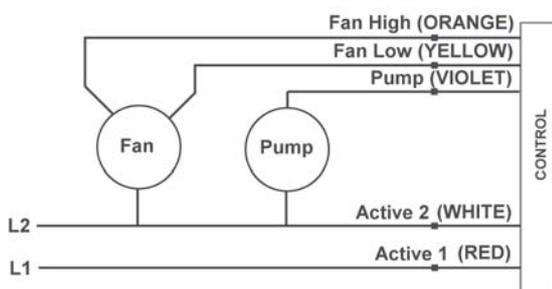
- 5) At the Outlet Box, Pull the wiring through about 6 inches from the wall, and connect to EziStat PowerPak as per the wiring diagram below
- 6) Tidy up the wiring and ease the EziStat PowerPak into the outlet box.
- 7) Screw the EziStat PowerPak into position, and fit the front face plate.

Wiring Connections

120 Volt Installation



240 Volt Installation



Operating Instructions

Automatic Operation (Auto mode)

The fan and water pump are controlled automatically to achieve the desired comfort level.

This mode is activated by pressing the 'Auto' button. A blue LED is illuminated. Pressing the 'Auto' button again deactivates this mode.

The Temperature Set Point may be altered by rotating the large dial.

On starting, if the pads in the cooler are too dry, the fan may be delayed from starting until the pads have absorbed some water. This is called **Pre-wet** and lasts for 2 minutes, indicated by a flashing blue LED. Selecting 'Fan' and then 'Auto' will bypass the pre-wet and cause the fan and pump to start immediately. (If cooling is required).

Manual Operation (Cool mode)

The water pump is switched on, and the fan speed set to the desired speed by the user.

This mode is activated by pressing the 'Cool' button. An orange LED is illuminated, the pump is activated and the fan set to Low speed. Pressing the 'Cool' button again selects High fan speed, indicated by the LED changing from orange to green. Pressing the 'Cool' button again, deactivates the mode.

The Temperature Set Point has no effect. On starting, if the pads in the cooler are too dry, the fan may be delayed from starting until the pads have absorbed some water. This is called **Pre-wet** and lasts

for 2 minutes, indicated by a flashing LED. Selecting 'Fan' and then 'Cool' will bypass the pre-wet and cause the fan and pump to start immediately.

Ventilation Operation (Fan mode)

The fan speed is set by the user, the water pump is turned off.

This mode is activated by pressing the 'Fan' button. An orange LED is illuminated, and the fan runs at Low speed with no pump activity (ie no water cooling). Pressing the 'Fan' button again selects High fan speed, indicated by the LED changing from orange to green. Pressing the 'Fan' button again deselects this mode.

The Temperature Set Point has no effect.

Time Delay Operation (Timer mode)

Delayed start or finish mode

The 'Timer' button is used to set a delay period of 2, 4, or 8 hours, depending on how many times the button is pressed.

If the cooler is operating (in 'Auto', 'Cool' or 'Fan' modes) when the 'Timer' button is pressed, the delay period determines when the cooler will switch off. If the cooler is Off when the 'Timer' button is pressed, the delay period determines when the cooler switches on.

The starting mode is indicated by a flashing LED. You can change this mode by pressing the appropriate button ('Auto', 'Cool' or 'Fan').

The period countdown starts immediately and one of the green timer LEDs will be illuminated indicating the time period left.

You can cancel the Timer function at any time by pressing the 'Timer' button until all the timer LEDs go out.

In the event of a power outage

If the cooler is operating in 'Auto', 'Cool' or 'Fan' mode when power is interrupted, the cooler will resume in the same mode of operation when the power is restored.

If the cooler was in any 'Timer' mode at the time of a power interruption, the cooler will remain off when power is restored.

Troubleshooting Guide

The guide below is intended to aid an Installer or Service Technician in resolving simple problems.

CAUTION: To prevent electrical shock and/or damage to the equipment, disconnect electrical power to the system at the main fuse or circuit breaker before checking any exposed wiring, and leave disconnected until after wiring has been properly secured.

Any testing performed on live conductors must be carried out by qualified personnel only.

Observation	Possible Cause	Remedial Action
Cooler does not work/ No LED activity in response to button presses on the Wall Unit.	Incorrect connection of wiring to Slimline Integrated Control.	Check the correct connection of the “Active” or “Live” and “Common” or “Neutral” wires. Ensure the correct wiring order at both ends, and that the terminals are correctly fitted and secured.
	Power Supply Circuit Breaker Off or <i>Appliance Control Box</i> not connected to the Power Supply .	Check the condition of Power Supply Circuit Breaker. Verify that the Circuit Breaker Switch is On.
	Blown Fuse	Check the condition of all Fuses. Replace blown fuse with the correct type
Water Pump does not work	Poor connection of Water Pump terminals.	Verify that Water Pump leads are correctly connected; “Neutral” or “Common” in a connection box, and “Active” or “Live” to the Slimline Integrated Control “Pump” wire.
Fan Motor does not work/No Fan High Speed and/or Fan Low Speed Operation	Poor connection to Fan Motor terminals.	Verify that the Fan leads are correctly connected; “Neutral” or “Common” in a connection box, with the two wires for the two different fan speeds to the Slimline Integrated Control “Pump” wire.
Fan Motor is “High” when “Low” required, and “Low” when “High” required	Incorrect connection of the Fan windings. The High speed winding is connected to “Fan Low”, and the Low speed winding is connected to “Fan High”	Re-connect the “Fan High” and “Fan Low” wires the correct way round.

Mounting Template

