

Comfort-Care®

HEAT CONTROLLER

***Top quality furnaces
packed with features!***

- **60,000 to 90,000 BTUH**
- **Clean, Efficient Gas Heat**
- **Multi-Speed Blower**
- **A/C Ready Up to 5 Tons**

**MGD-B
SERIES**



**GAS FURNACES
FOR MANUFACTURED HOMES**

TECHNICAL INFORMATION

GAS FURNACES ARE COMPACT, EFFICIENT AND A/C READY

These downflow furnaces are specially designed for installation in manufactured housing. Three heat capacity and two blower choices handle heating and heating/cooling (2 to 5 tons) in any climate. All blowers are multi-speed to adjust airflow to the home for quiet operation, high efficiency, and comfort. Units come with sealed combustion venting and can be installed with zero clearance to construction.

Model No.	HP	Blower
MGD60-E3B	1/3	3 speed, 1200 cfm
MGD70-E3B	1/3	3 speed, 1200 cfm
MGD77-E3B	1/3	3 speed, 1200 cfm
MGD90-E3B	1/3	3 speed, 1200 cfm
MGD60-E5B	3/4	4 speed, 1600 cfm
MGD70-E5B	3/4	4 speed, 1600 cfm
MGD77-E5B	3/4	4 speed, 1600 cfm
MGD90-E5B	3/4	4 speed, 1600 cfm

SPECIFICATIONS

Model No.	MDG60	MGD70	MGD77	MGD90
Input, BTUH	60,000	70,000	77,000	90,000
Output, BTUH	48,000	56,000	61,600	72,000
AFUE	80%	80%	80%	80%
Ignition Type	Electronic Hot Surface			
Air Temperature Rise, Range	40-70°F	40-70°F	40-70°F	45-75°F
Blower	Heat/Cool			
Designed Max. Outlet Air Temp.	170°F			
Max. External SP (Duct)	0.03 W.C.			
Factory Equipped Fuel	Natural Gas (L.P. Orifice Furnished)			
High Altitude—derate 4% for each 1000 ft above 2000 ft	Main burner orifice change required. See table in installation instructions or contact factory.			
Furnace Flue Pipe and Cap	Must use RJS (sloped roof) or RJF (flat roof) Roof Jack and RJCRWN Crown			
Gas Connection	1/2" NFPT			
Electric Service	115V-1-60			
Fuse or Circuit Breaker	15 Amp			
Thermostat Circuit	24V AC 60Hz, 40VA			
Filters	Two 16" x 20" x 1"			

FEATURES AND BENEFITS

Mobile furnaces fit virtually anywhere—As a replacement unit for an older furnace, you'll find just the size you need with the features you want, ensuring a cost-effective installation!

Four-way duct connector—Unique design provides alignment flexibility and makes a leak-free gasketed connection to all manufactured home supply ducts

Sealed combustion system—Safe and efficient because no indoor air is used for combustion

A/C ready—2 to 5 ton air conditioning capacity, select three- or four-speed blower

Twin disposable filters—Standard models clean the air effectively and are available everywhere

Aluminized steel heat transfer tubes—By extracting more heat from the flue gas, they provide heating comfort for fewer dollars



FURNACE INFORMATION AND SELECTION

Furnace Dimensions: 77¹/₂" High x 19³/₄" Wide x 25" Deep

STEP ONE: Furnace Size and Blower Selection

Model Number	BTUH Input/Output	BLOWER SELECTION w/NOMINAL CFMs & TONS @ .2 ESP	
		-E3B	-E5B
MGD60	60,000/48,000	3 Speed Blower	4 Speed Blower
MGD70	70,000/56,000	1240* CFM	1660* CFM
MGD77	77,000/61,600	2 - 3.5 Tons	3 - 5 Tons**
MGD90	90,000/72,000	1/3 HP	3/4 HP

* Air ratings at high speeds with coil and filter in place.

** Recommend A/C lower speed set at MED-HI or below due to potential A-coil water blow-off.
All gas furnaces set for natural gas. Furnace includes LP orifice for conversion.

STEP TWO: Roof Jack and Accessory Selection based on Furnace Location & Roof Type



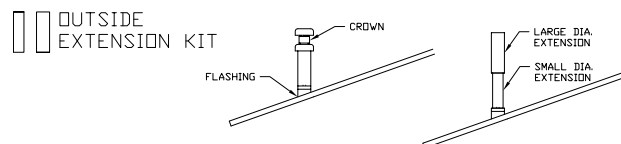
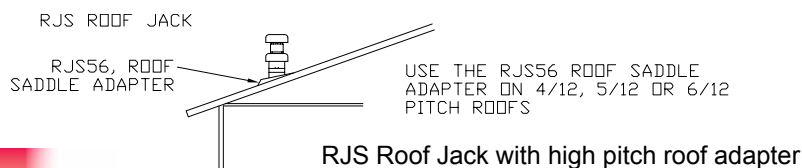
WARNING: All units must be installed utilizing factory accessories as indicated below. DO NOT reuse existing flue components and/or accessories. Failure to comply with this warning will invalidate certification, which may make the installation illegal and may result in unsafe operation, explosion, and/or fire or asphyxiation.

ROOF JACK: Distance from FLOOR of home to where ROOF JACK meets the ROOFING MATERIAL=Dimension "A"

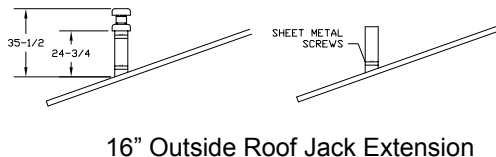
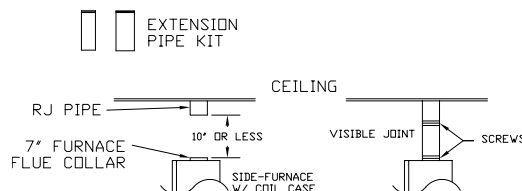
These Roof Jacks **MUST BE USED** to complete the installation.

Part Number	Adjustable Height Added To Furnace Height (In.)	Roof	"A" Dimension (In.)
90-RJF1729-AL	17 to 29	Flat	94 ¹ / ₂ to 106 ¹ / ₂
90-RJF2551-AL	25 to 51	Flat	102 ¹ / ₂ to 128 ¹ / ₂
90-RJS1729-AL	17 to 29	3/12 Slope	94 ¹ / ₂ to 106 ¹ / ₂
90-RJS2551-AL	25 to 51	3/12 Slope	102 ¹ / ₂ to 128 ¹ / ₂
90-RJS3868-AL	38 to 68	3/12 Slope	115 ¹ / ₂ to 145 ¹ / ₂
90-RJS6399-AL	63 to 99	3/12 Slope	140 ¹ / ₂ to 176 ¹ / ₂

Accessories REQUIRED with Each Roof Jack	
90-RJCRWN-AL	Crown (Vent/Intake Cap)
R75GF0001	Roof Jack Sealant
Optional Roof Jack Accessories	
90-TRM-RNG	Ceiling Trim Ring
90-RJTRC	Transit Kit
90-RJS56	5-6/12 Slope Saddle Adapter
90-OUTXT16-AL	Outside Roof Jack 16" Ext-Gas
90-INSXT10-AL	Inside Roof Jack 10" Ext-Gas



10"L Inside Extension for RJ-Roof Jack
NOTE: Field assembled joints will be visible below ceiling



STEP THREE: Purchase proper Duct Connector, if existing connector is unsuitable

Duct Connection Adjustable Style	Depth—Home Floor To Duct Surface	Duct Connector	Furnace Base
90-DCU0-01	1" to 4"	86AA0013 +	87FB0005
90-DCU0-02	6" to 8"	86AA0014 +	87FB0005
90-DCU0-03	8" to 12"	86AA0015 +	87FB0005

FURNACE INFORMATION AND SELECTION

CLEARANCES

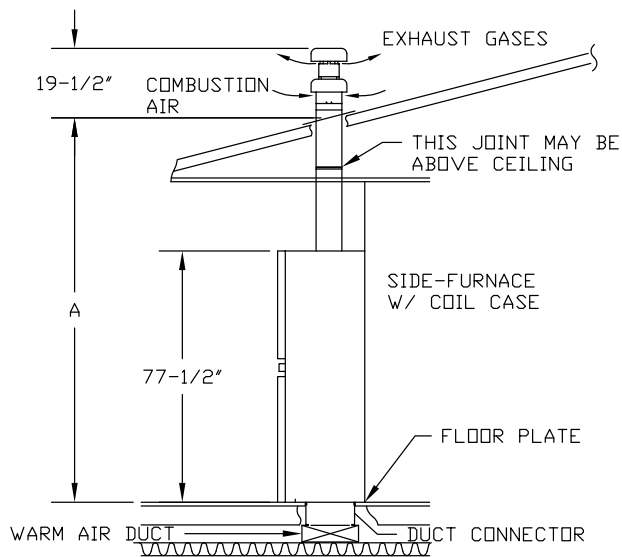
Top.....	6 in.
Sides.....	0 in. *
Back.....	0 in. *
Alcove—front of furnace.....	18 in.
Closet—front of furnace.....	6 in. **
Duct	0 in.
Vent/Roof Jack	0 in.

* If the return air opening is below the top of the furnace, clearance to the side or rear must be 6".

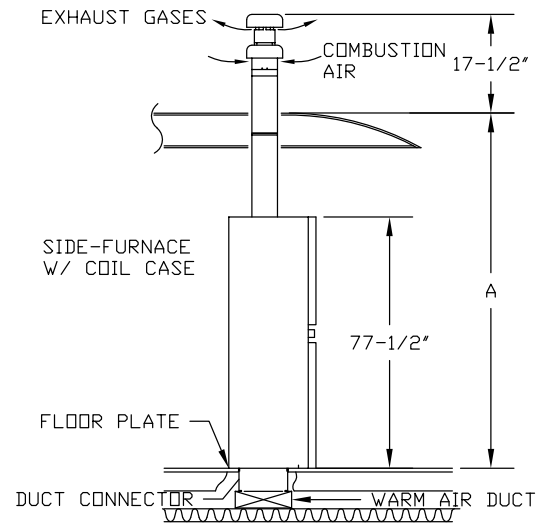
**See Return Air for clearances for less than 6".

SELECT SEALED COMBUSTION ROOF JACK (REQUIRED)

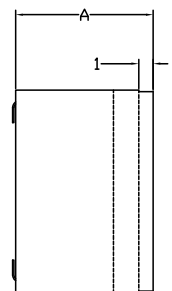
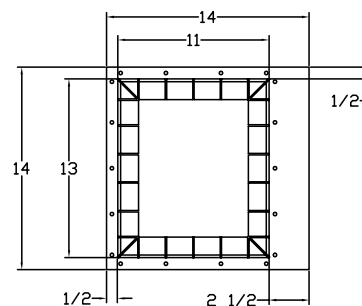
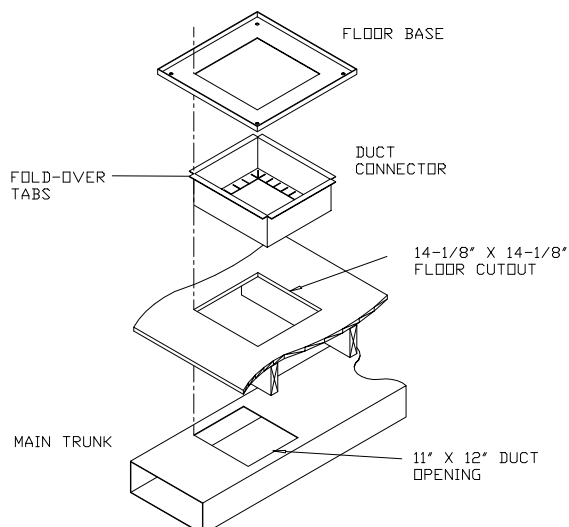
3/12 Pitch Roof



Flat-Bow Rafter Roof



87FB0005 FURNACE BASE AND 86AA001 (X) DUCT CONNECTOR — FLOOR TO DUCT SURFACE



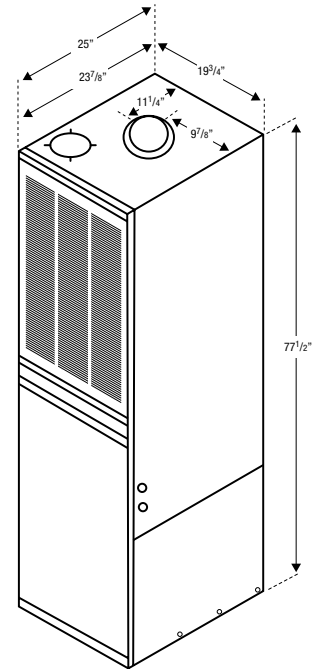
DIMENSION	A
86AA0013	4 1/2"
86AA0014	8 1/4"
86AA0015	12 1/4"

MGD-B SERIES FURNACES

BLOWER PERFORMANCE

ESP, In. W.C. DUCT		0.1	0.2	0.3	0.4	0.5
3 BLOWER—10x8, 1/3 HP, 3 Speed						
CFM—No Coil	LO	980	950	910	875	825
"	MED	1220	1170	1120	1065	1015
"	HI	1460	1400	1340	1270	1195
CFM—With Coil	LO	945	905	865	815	775
"	MED	1130	1085	1030	970	905
"	HI	1300	1240	1180	1105	1035
5 BLOWER—10x8, 3/4 HP, 4 Speed						
CFM—No Coil	LO	995	960	915	875	825
"	MED	1205	1165	1130	1090	1045
"	MED HI	1470	1425	1385	1345	1310
"	HI	1810	1765	1720	1680	1635
CFM—With Coil	LO	950	905	865	835	790
"	MED	1145	1115	1080	1035	1000
"	MED HI	1375	1345	1315	1280	1245
"	HI	1700	1660	1620	1575	1540

DIMENSIONS



MODEL IDENTIFICATION

M	G	D	70	-	E	3	B
Manufactured Home	Gas	Downflow	BTUH Input X1000		Electronic Hot Surface Ignition	Blower 3=1/3HP, 3 Spd 5=3/4HP, 4 Spd	Revision Level

We offer a complete line of accessories for the MGD Series of manufactured home furnaces. Some are necessary to meet certification requirements. Some are options that may be needed depending upon the application and the geographical location of the installation. These accessories are described in detail inside this brochure.



Solid state integrated control board—Monitors flame, plus start up and shut down of blower to improve efficiency

Combustion blower—Provides a consistent and stable flow of air to the burner and is unaffected by outside conditions

Hot surface ignition system—Safe method used with high efficiency 80% AFUE models—no standing pilot

Attractive appearance—Appliance white doors have rounded corners and plastic caps for a modern look

Fully insulated cabinet—Fiberglass insulation with reflective foil makes the units quiet and efficient while minimizing heat loss

Coil compartment—Handles coils for add-on A/C systems up to 5 tons

Monoport burner—Uses stainless steel and sintered metal for exceptional burner efficiency and long life

Warranty—5 years on mechanical parts, 10 years on heat exchanger (see printed warranty for limitations and details)

COST-EFFECTIVE, EFFICIENT GAS FURNACES — A PERFECT FIT FOR REPLACEMENT INSTALLATIONS



Sealed combustion "pipe-within-a-pipe" roof jack vents combustion gases while bringing in outdoor air for increased efficiency and safety



Hot surface, automatic ignition with high temp (2500° F) silicon carbide element is not affected by extreme weather or high winds



Solid state controls provide trouble-free ignition, and the programmed on-off blower achieves even room temperature for greater comfort



**Standard Furnace A/C ready
with coil compartment**

The Quality Leader in Conditioning Air

Heat Controller, Inc., has entered its eighth decade of providing quality products for conditioning air. Founded in 1933, the company can trace its roots to the Wingert Furnace Co. which began operations in 1907. In 1955 the company moved to a new facility in Jackson, Michigan, which remains its headquarters today.

Heat Controller is known throughout the industry for efficient, reliable products and in-season availability. Whether for heating or cooling, these products meet or exceed industry standards for energy efficiency.

Every unit, including our gas furnaces for manufactured home use, is built to exacting standards using quality materials and is backed by solid warranty coverage and technical support.

Comfort-Aire®
HEAT CONTROLLER

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A **MARS** Company