TECHNICAL SPECIFICATIONS

MG1E Series Furnaces

Gas Furnace 80% AFUE Hot Surface Ignition

The MG1 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. MG1 Series furnaces are available in A/C adaptable or A/C ready, with or without coil cavity box and many burner options.

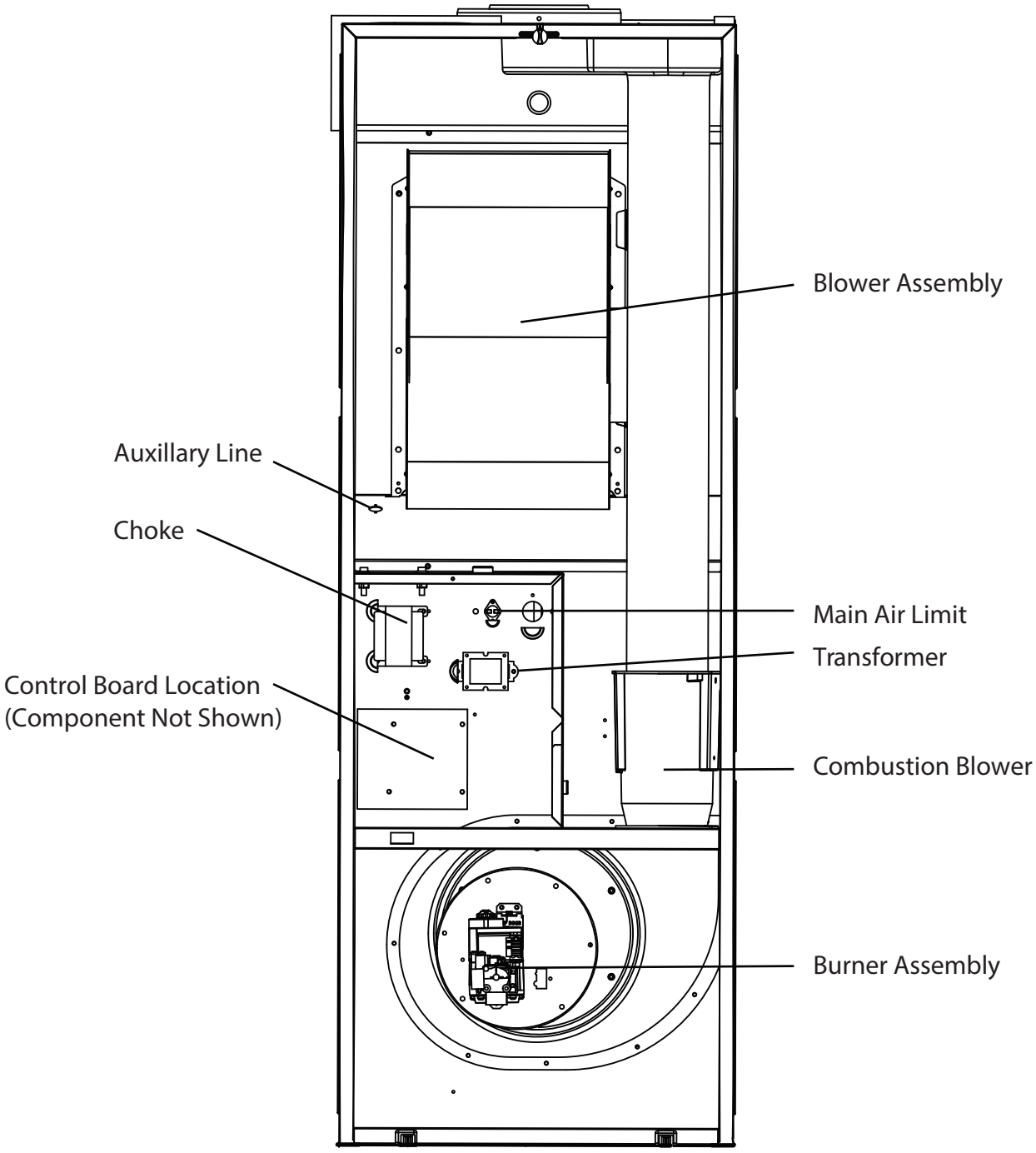


For California installations in SCAQMD only: This furnace does not meet the SCAQMD Rule 1111 NOx emission limit (14 ng/J), and thus is subject to a mitigation fee of up to $450. This furnace is not eligible for the Clean Air Furnace Rebate Program: www.CleanAirFurnaceRebate.com.

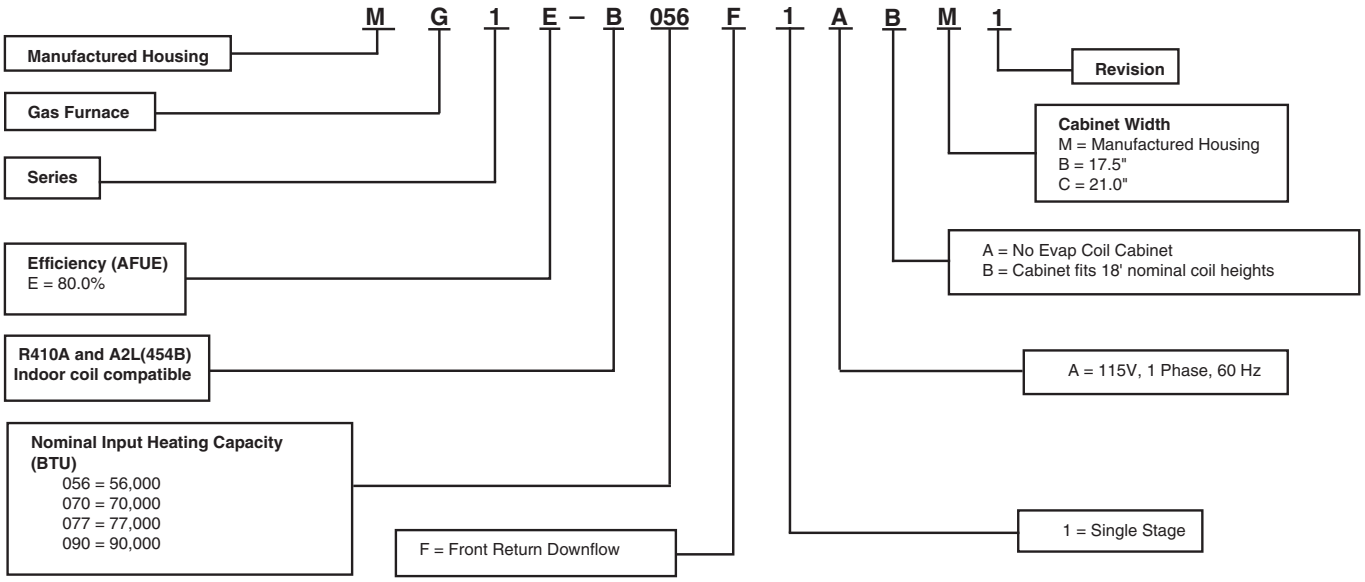
FEATURES and BENEFITS

- **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 4 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.

COMPONENTS


Blower Assembly
Auxillary Line
Choke
Main Air Limit
Transformer
Control Board Location
(Component Not Shown)
Combustion Blower
Burner Assembly

MODEL IDENTIFICATION CODE



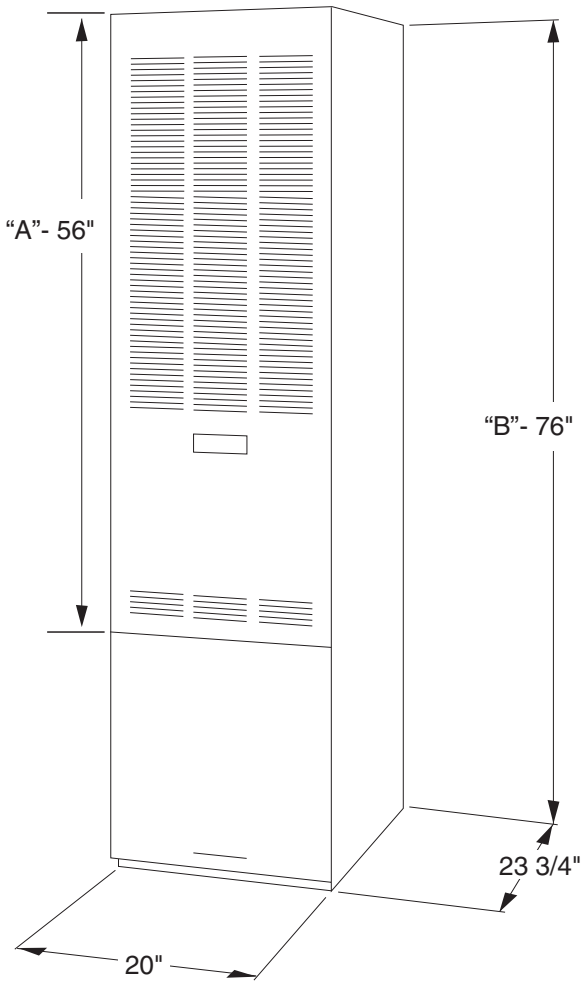
SPECIFICATIONS

Furnace Model No	Input	Output	Orifice Number		ESP in WC	Motor HP	Motor FLA	A / C Ready Tons	AFUE %
			Nat	LP					
MG1E-B056	56000	45000	29	45	0.3	3/4	8.4	4	80%
MG1E-B070	70000	57000	24	42	0.3	3/4	8.4	4	80%
MG1E-B077	77000	62000	21	40	0.3	3/4	8.4	4	80%
MG1E-B090	85000	68000	17	36	0.3	3/4	8.4	4	80%

Electrical Supply - 115 volts, 60HZ, 1 Ph.
Fuse or Breaker - 15 amps
Temperature Rise - 45° to 75°F
Gas Connection - 1/2" NFPT
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.
High Altitude - Tables in the Installation Instructions for elevations above 2,000 feet.

Furnace Model No	Shipping Weight (lbs)		Unit Weight (lbs)		Unit Length (in)	Unit Width (in)	Unit Height (in)	
	A Cabinet	B Cabinet	A Cabinet	B Cabinet	A/B Cabinet	A/B Cabinet	A Cabinet	B Cabinet
MG1E-B056	157	171	144	156	23.8	20	56	76
MG1E-B070	157	171	144	156	23.8	20	56	76
MG1E-B077	157	171	144	156	23.8	20	56	76
MG1E-B090	157	171	144	156	23.8	20	56	76

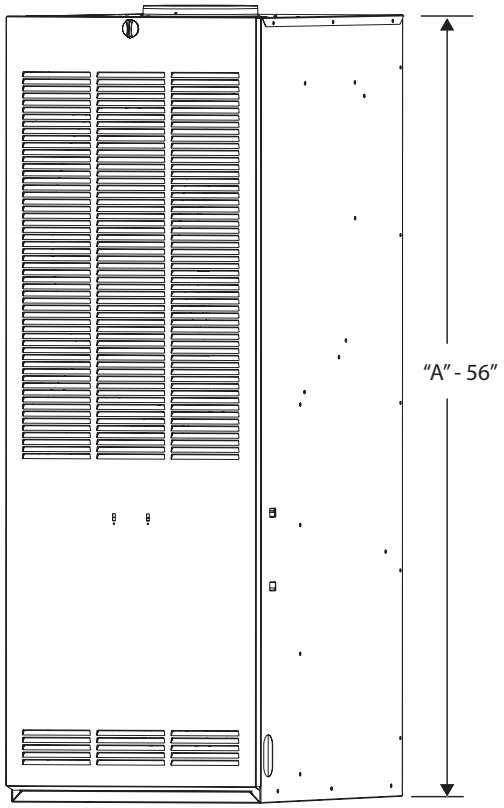
DIMENSIONS

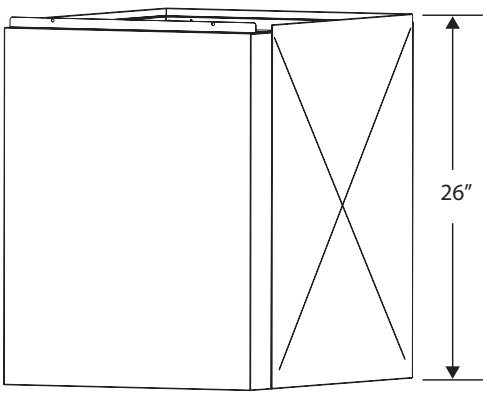


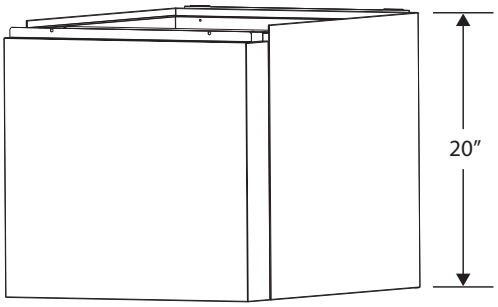
"A" Model without Coil Cabinet
"B" Model with Coil Cabinet

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

Heating Airflow (CFM) & Temperature Rise (°F)

MG1E-B056										
MODEL NAME/ HEATING INPUT	MOTOR SPEED	EXTERNAL STATIC PRESSURE (IN. W.C.)								
		0.1		0.2		0.3		0.4		0.5	
		CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE
MG1E-B056F1A(A,B)M1 56,000 BTU/Hr	5 - High										
	4 - Alternate										
	3 - Med-Hi*					928	45	876	47	829	50
	2 - Med-Low	890	47	843	49	790	53	735	56	683	61
	1 - Low	798	52	749	55	695	60	629	66		

MG1E-B070										
MODEL NAME/ HEATING INPUT	MOTOR SPEED	EXTERNAL STATIC PRESSURE (IN. W.C.)								
		0.1		0.2		0.3		0.4		0.5	
		CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE
MG1E-B070F1A(A,B)M1 70,000 BTU/Hr	5 - High										
	4 - Alternate										
	3 - Med-High*	1,212	43	1,178	44	1,148	45	1,114	47	1,079	48
	2 - Med-Low	931	56	886	59	836	62	782	66	732	71
	1 - Low										

MG1E-B077										
MODEL NAME/ HEATING INPUT	MOTOR SPEED	EXTERNAL STATIC PRESSURE (IN. W.C.)								
		0.1		0.2		0.3		0.4		0.5	
		CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE
MG1E-B077F1A(A,B)M1 77,000 BTU/Hr	5 - High										
	4 - Alternate										
	3 - Med-High*	1,212	47	1,178	48	1,148	50	1,114	51	1,079	53
	2 - Med-Low	996	57	960	59	924	62	885	64	848	67
	1 - Low										

MG1E-B090										
MODEL NAME/ HEATING INPUT	MOTOR SPEED	EXTERNAL STATIC PRESSURE (IN. W.C.)								
		0.1		0.2		0.3		0.4		0.5	
		CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE
MG1E-B090F1A(A,B)M1 85,000 BTU/Hr	5 - High										
	4 - Med-High										
	3 - Med-Low*	1,188	56	1,154	58	1,119	60	1,091	61	1,054	63
	2 - Alternate	1,015	66	978	68	956	70	917	73		
	1 - Low										

NOTES:

1. To comply with government mandated efficiency standards, two openings are required for airflows above 1,600 CFM.
2. Data is shown without filter.
3. Temperature rises in the table are approximate. Actual temperature rises may vary.
4. To comply with government mandated efficiency standards, speed settings shaded in gray are not allowed in HEAT mode.
5. The "*" denotes the factory heat and cool setting. If a different motor speed is needed, the appropiate wire from the "HEAT" or "COOL" tap on the control board must be connected to the desired Tap (1-5) at the motor.

BLOWER PERFORMANCE (cont.)

Cooling Airflow (CFM)

MG1E-B056								
MODEL NAME/ HEATING INPUT	MOTOR SPEED	EXTERNAL STATIC PRESSURE (IN. W.C.)							
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
		CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM
MG1E-B056F1A(A,B)M1 56,000 BTU/Hr	5 - High*	1,524	1,491	1,458	1,421	1,385	1,348	1,308	1,270
	4 - Alternate	1,199	1,160	1,122	1,080	1,037	993	946	899
	3 - Med-High	1,013	972	928	876	829	780	728	675
	2 - Med-Low	890	843	790	735	683	615	566	510
	1 - Low	798	749	695	629	442	369		

MG1E-B070								
MODEL NAME/ HEATING INPUT	MOTOR SPEED	EXTERNAL STATIC PRESSURE (IN. W.C.)							
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
		CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM
MG1E-B070F1A(A,B)M1 70,000 BTU/Hr	5 - High*	1,573	1,541	1,511	1,479	1,452	1,419	1,388	1,358
	4 - Alternate	1,387	1,353	1,321	1,289	1,254	1,216	1,183	1,148
	3 - Med-High	1,212	1,178	1,148	1,114	1,079	1,036	1,005	964
	2 - Med-Low	931	886	836	782	732	670	620	565
	1 - Low	640	599	562	513	476	425		

MG1E-B077								
MODEL NAME/ HEATING INPUT	MOTOR SPEED	EXTERNAL STATIC PRESSURE (IN. W.C.)							
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
		CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM
MG1E-B077F1A(A,B)M1 77,000 BTU/Hr	5 - High*	1,573	1,541	1,511	1,479	1,452	1,419	1,388	1,358
	4 - Alternate	1,333	1,300	1,268	1,236	1,201	1,162	1,129	1,093
	3 - Med-High	1,212	1,178	1,148	1,114	1,079	1,036	1,005	964
	2 - Med-Low	996	960	924	885	848	814	772	734
	1 - Low	683	642	599	540	498	451	386	

MG1E-B090F								
MODEL NAME/ HEATING INPUT	MOTOR SPEED	EXTERNAL STATIC PRESSURE (IN. W.C.)							
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
		CFM	CFM	CFM	CFM	CFM	CFM	CFM	CFM
MG1E-B085F1A(A,B)M1 85,000 BTU/Hr	5 - High*	1,590	1,555	1,521	1,493	1,458	1,426	1,397	1,371
	4 - Med-High	1,337	1,306	1,274	1,243	1,210	1,182	1,142	1,104
	3 - Med-Low	1,188	1,154	1,119	1,091	1,054	1,023	984	941
	2 - Alternate	1,015	978	956	917	871	834	792	740
	1 - Low	779	742	698	654	617	564	516	472

NOTES:

1. To comply with government mandated efficiency standards, two openings are required for airflows above 1,600 CFM.
2. Data is shown without filter.
3. The "*" denotes the factory heat and cool setting. If a different motor speed is needed, the appropiate wire from the "HEAT" or "COOL" tap on the control board must be connected to the desired Tap (1-5) at the moto

ACCESSORIES

Description	Part Number
Automatic Cavity Damper	901083
New England Safety Kit	901855
Ceiling Rings (2 piece adjustable)	902521
Duct Connector 10” x 6” - 6 / carton	902926
Transit Vent Kit 12 / carton	903838
High Altitude Orifice Kit	1018498
Evaporator Coil Box 20"	1048478
Evaporator Coil Box 26"	1048477
"A" Cabinet A2L Retrofit Kit	1048975
"B" Cabinet A2L Retrofit Kit	1048974

Vent Kits	Part Number
Soffit Air Inlet (for VentilAire III only)	917201A
Air Tube Kit M (high capacity M Series gas/oil furnaces)	914118
VentilAire III - Sloped 3/12	914098B
VentilAire IV - Sloped 3/12	914229B
VentilAire V - Sloped 3/12	1018547

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

Sloped Roof Flashings		Part Number
2.5" in 12"	- 4 / carton	903893
3" in 12"	- 4 / carton	903894
4" in 12"	- 2 / carton	903895

Roof Jack	Part Number
FAW1523-0A	903658
FAW2135-0A	903659
FAW2747-0A	903660
SAW2135-2A	903662
SAW2747-2A	903663
SAW3563-2A	903664
SAW5195-2A	920638
SAW2747-4A	903678A
SAW3563-4A	903665A
SAW5195-4A	903666A

Flue Extensions	Part Number
EI10A-5	901935
EI18A-5	903107
EI16A-5	901937

1900 Wellworth Ave., Jackson MI 49203 • 517.787.2100
www.heatcontroller.com • www.comfort-aire.com • www.century-hvac.com

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493F-0924 (Replaces 493F-0724)