

## 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.

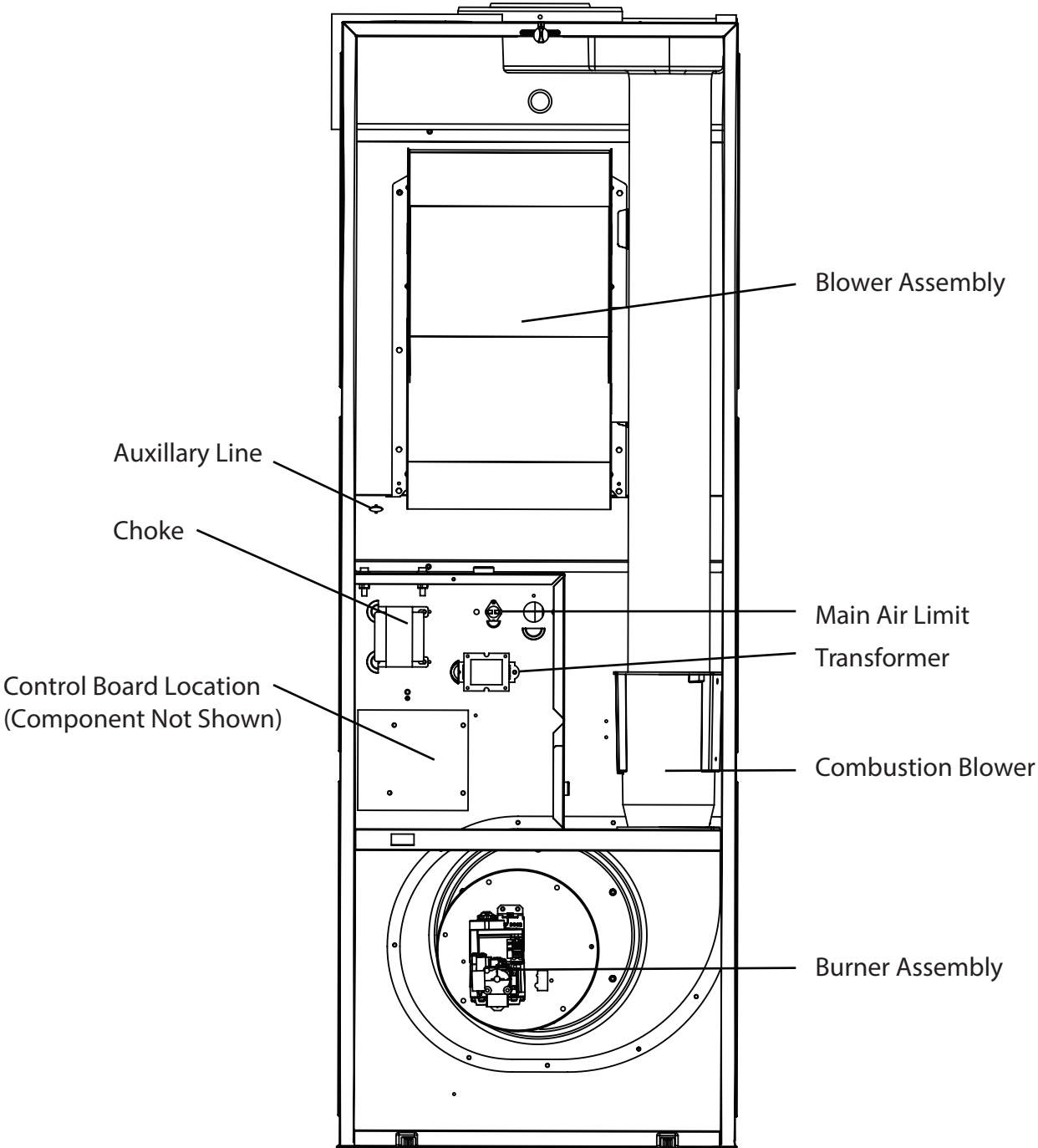


For California installations in SCAQMD only: This furnace does not meet the SCAQMD Rule 1111 NOx emission limit (14 ng/J), and thus is subject to a mitigation fee of up to \$450. This furnace is not eligible for the Clean Air Furnace Rebate Program: [www.CleanAirFurnaceRebate.com](http://www.CleanAirFurnaceRebate.com).

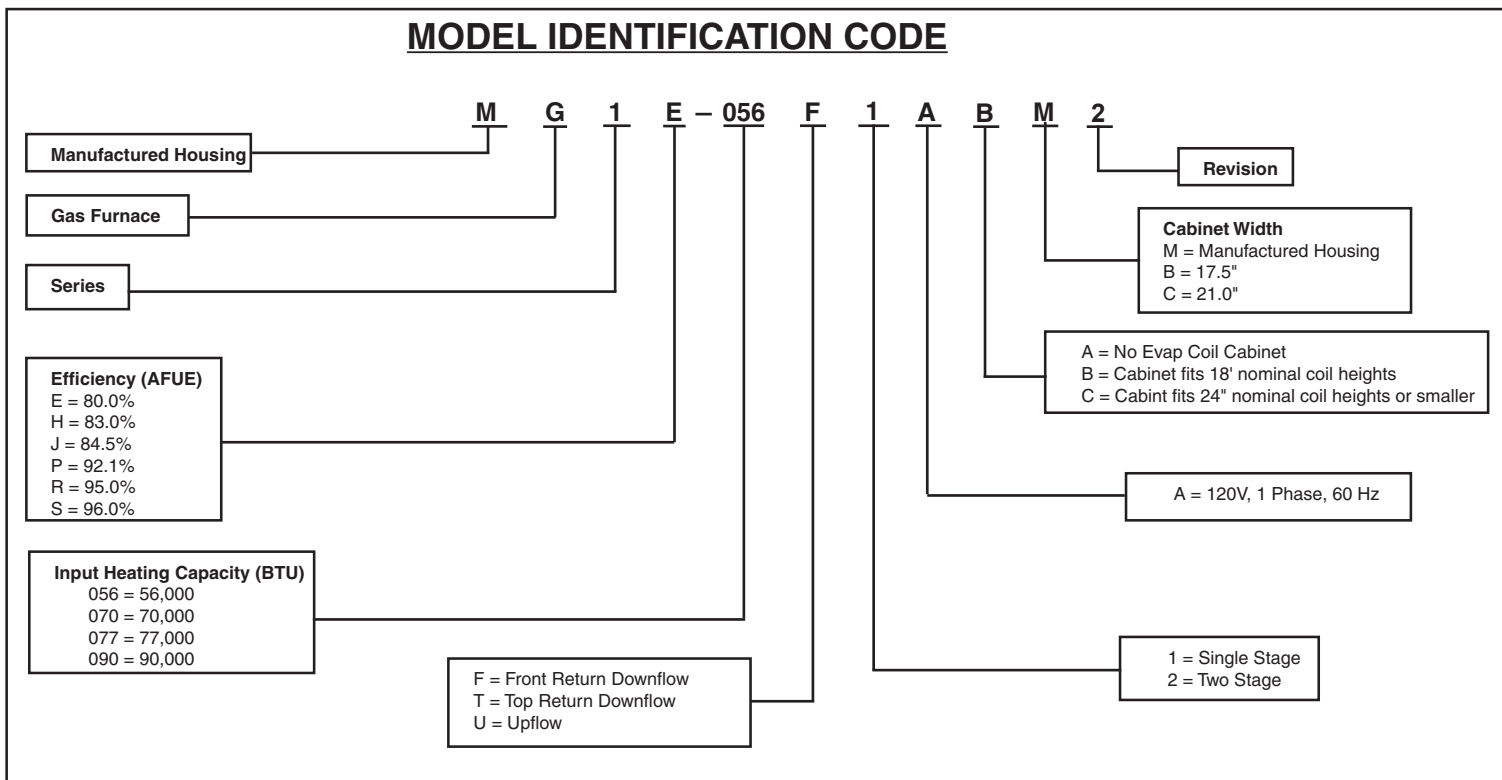
## FEATURES and BENEFITS

- **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



## MODEL IDENTIFICATION CODE



## SPECIFICATIONS

| Furnace Model No | Input | Output | Orifice Number |    | ESP in WC | Motor HP | Motor FLA | A / C Ready Tons | AFUE % | Shipping Weight |           |
|------------------|-------|--------|----------------|----|-----------|----------|-----------|------------------|--------|-----------------|-----------|
|                  |       |        | Nat            | LP |           |          |           |                  |        | A Cabinet       | B Cabinet |
| MG1E-056         | 56000 | 45000  | 29             | 45 | 0.3       | 3/4      | 8.4       | 4                | 80%    | 157             | 171       |
| MG1E-070         | 70000 | 57000  | 24             | 42 | 0.3       | 3/4      | 8.4       | 4                | 80%    | 157             | 171       |
| MG1E-077         | 77000 | 62000  | 21             | 40 | 0.3       | 3/4      | 8.4       | 4                | 80%    | 157             | 171       |
| MG1E-090         | 85000 | 68000  | 17             | 36 | 0.3       | 3/4      | 8.4       | 4                | 80%    | 157             | 171       |

Electrical Supply - 120 volts, 60HZ, 1 Ph.

Fuse or Breaker - 15 amps

Temperature Rise - 45° to 75°F

Gas Connection - 1/2" NFPT

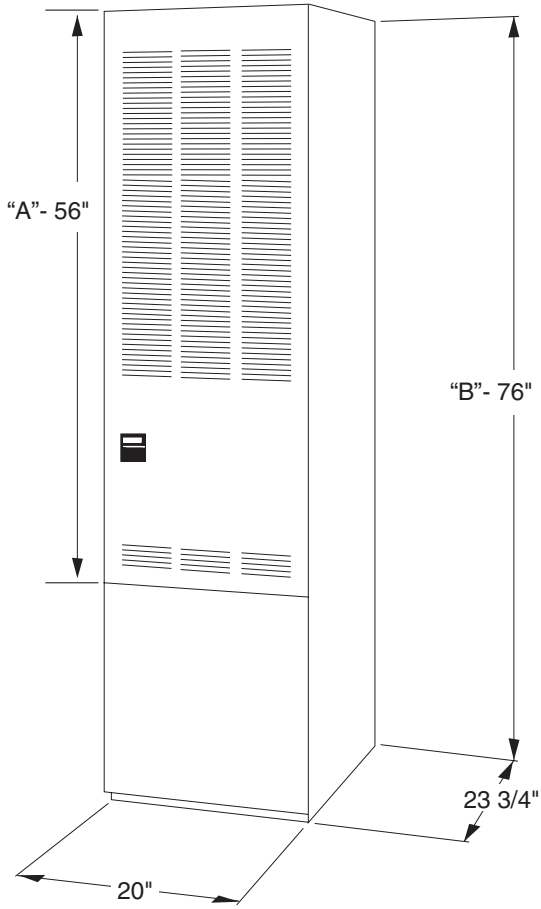
High Altitude - Tables in the Installation Instructions for elevations above 2,000 feet.

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.

# 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-056F1A(A,B)M1              |                |                                     |      |     |      |     |      |     |      |     |      |
|---------------------------------|----------------|-------------------------------------|------|-----|------|-----|------|-----|------|-----|------|
| MODEL NAME/<br>HEATING INPUT    | MOTOR<br>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-056F1AAM2<br>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-070F1A(A,B)M1              |                |                                     |      |       |      |       |      |       |      |       |      |
|---------------------------------|----------------|-------------------------------------|------|-------|------|-------|------|-------|------|-------|------|
| MODEL NAME/<br>HEATING INPUT    | MOTOR<br>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-070F1AAM2<br>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-077F1AAM1                  |                |                                     |      |       |      |       |      |       |      |       |      |
|---------------------------------|----------------|-------------------------------------|------|-------|------|-------|------|-------|------|-------|------|
| MODEL NAME/<br>HEATING INPUT    | MOTOR<br>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-077F1AAM2<br>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-090F1AAM1                  |                |                                     |      |       |      |       |      |       |      |       |      |
|---------------------------------|----------------|-------------------------------------|------|-------|------|-------|------|-------|------|-------|------|
| MODEL NAME/<br>HEATING INPUT    | MOTOR<br>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-090F1AAM2<br>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 appropriate 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-056F1AAM1                  |                |                                     |       |       |       |       |       |       |       |
|---------------------------------|----------------|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| MODEL NAME/<br>HEATING INPUT    | MOTOR<br>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-056F1AAM2<br>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-070F1AAM1                  |                |                                     |       |       |       |       |       |       |       |
|---------------------------------|----------------|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| MODEL NAME/<br>HEATING INPUT    | MOTOR<br>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-070F1AAM2<br>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-077F1AAM1                  |                |                                     |       |       |       |       |       |       |       |
|---------------------------------|----------------|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| MODEL NAME/<br>HEATING INPUT    | MOTOR<br>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-077F1AAM2<br>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-090F1AAM1                  |                |                                     |       |       |       |       |       |       |       |
|---------------------------------|----------------|-------------------------------------|-------|-------|-------|-------|-------|-------|-------|
| MODEL NAME/<br>HEATING INPUT    | MOTOR<br>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-085F1AAM2<br>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 appropriate 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"              | 911969A     |
| Evaporator Coil Box 24"              | 922594      |

| 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     |

\*Stocked

| 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      |



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Before purchasing this appliance, read important energy cost and efficiency information available from your retailer. Specifications and illustrations subject to change without notice and without incurring obligations.