

TECHNICAL SPECIFICATIONS

M1 Series Furnaces

M1M* Hot Surface Ignition M1B* Gas Gun

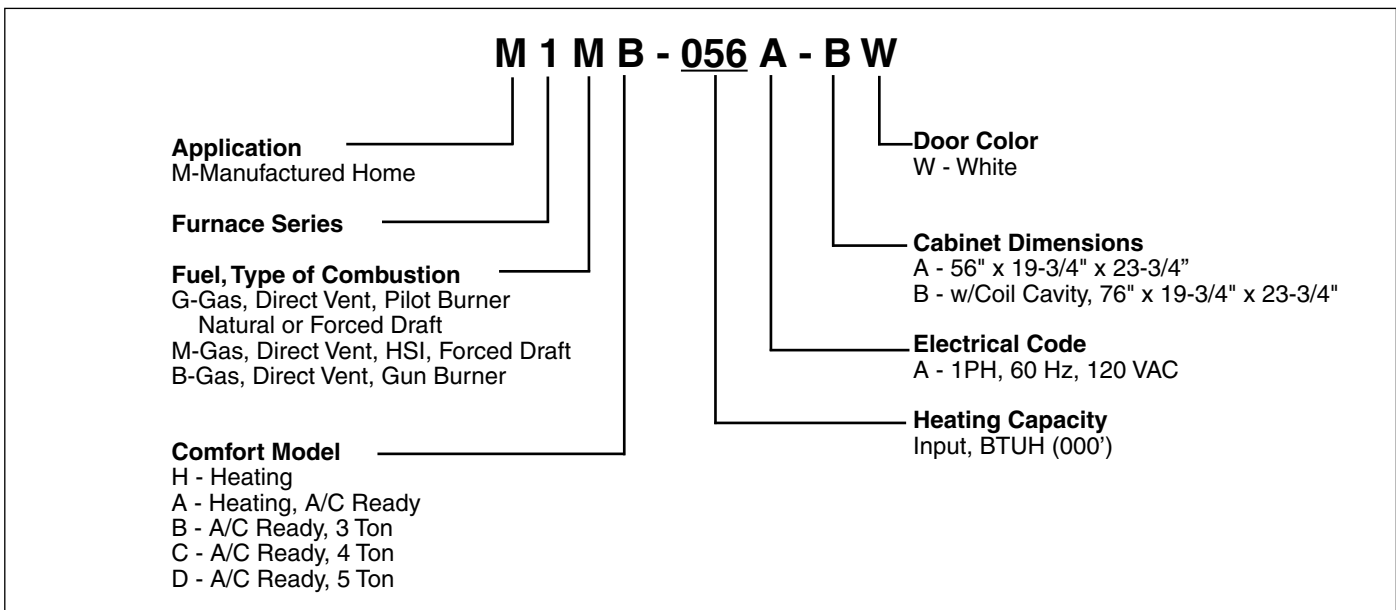
The M1 Series furnace is designed for all sizes of manufactured and modular homes. These units incorporate high efficiency, reliability, and low maintenance. Units may be installed free standing in a utility room or enclosed in an alcove or closet. M1 Series furnaces are available in A/C adaptable or 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.

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 | Motor FLA | A/C Ready Tons | AFUE % Nat / LP | Shipping Weight | |
|------------------|--------------|---------------|------------|----|--------------|--------------|----------------|--------------|----------|-----------|----------------|-----------------|-----------------|-----------|
| | | | Nat. | LP | | | | | | | | | A Cabinet | B Cabinet |
| 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 | 80 | 156 | 171 |
| 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 | 80 | 157 | 172 |
| M1MB 077 | 77 | 62 | 21 | 40 | 0.3 | | x | x | 1/4 | 6 | 3 | 80 | 149 | 164 |
| M1MC 077 | 77 | 62 | 21 | 40 | 0.3 | | x | x | 1/2 | 7.9 | 4 | 80 | 156 | 171 |
| M1MB 090 | 90 | 72 | 17 | 36 | 0.3 | | x | x | 1/4 | 6 | 3 | 80 | 151 | 166 |
| M1MC 090 | 90 | 72 | 17 | 36 | 0.3 | | x | x | 1/2 | 7.9 | 4 | 80 | 156 | 171 |
| M1BB 066 | 66 | 53 | 26 | 43 | 0.3 | | x | x | 1/4 | 6 | 3 | 80 | 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 | 80 | 178 | 193 |
| M1BC 086 | 86 | 68 | 18 | 37 | 0.3 | | x | x | 1/2 | 7.9 | 4 | 80 | 179 | 194 |

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

Fuse or Breaker - 15 amps

Temperature Rise - 45° to 75°F

Gas Connection - 1/2" NFPT

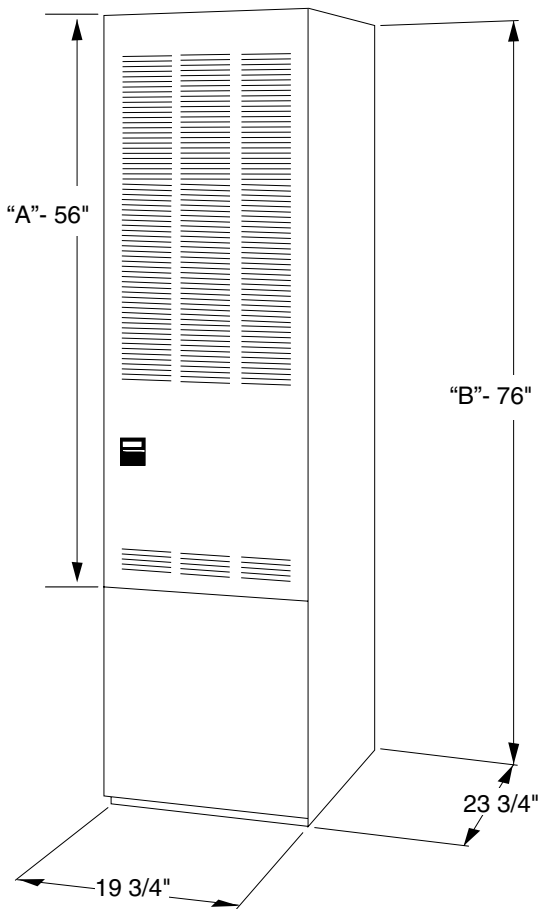
High Altitude - See Table 11 in the Installation Instructions for elevations above 2,000 feet.

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.

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

| 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 |
| M1MB 056 | 1/4 HP 10 x 8 | 3 | 0.1 | | 740 | 950 | 1210 | | 730 | 930 | 1140 |
| M1MB 070 | | | 0.2 | | 730 | 940 | 1190 | | 720 | 920 | 1110 |
| M1MB 077 | | | 0.3 | | 700 | 920 | 1140 | | 690 | 880 | 1050 |
| M1MB 090 | | | 0.4 | | 670 | 880 | 1090 | | 660 | 840 | 990 |
| M1BB 066 | | | 0.5 | | 640 | 840 | 1030 | | 620 | 790 | 930 |
| M1BB 086 | | | 0.6 | | 610 | 780 | 970 | | 580 | 740 | 870 |
| M1MC 056 | 1/2 HP 11 x 8 | 4 | 0.1 | 890 | 1070 | 1270 | 1480 | 880 | 1050 | 1220 | 1340 |
| M1MC 070 | | | 0.2 | 880 | 1060 | 1260 | 1460 | 870 | 1040 | 1210 | 1330 |
| M1MC 077 | | | 0.3 | 860 | 1020 | 1220 | 1400 | 850 | 1000 | 1160 | 1270 |
| M1MC 090 | | | 0.4 | 840 | 1000 | 1180 | 1350 | 820 | 980 | 1170 | 1160 |
| M1BC 066 | | | 0.5 | 810 | 960 | 1120 | 1280 | 800 | 940 | 1070 | 1160 |
| M1BC 086 | | | 0.6 | 760 | 920 | 1080 | 1220 | 750 | 890 | 1010 | 1090 |

ACCESSORIES

| Description | Part Number |
|--------------------------------------|-------------|
| Blower, 2-3 ton | 903773 |
| Blower, 2-4 Ton | 903413 |
| Blower, 2-5 Ton | 903890 |
| 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 |
| AC Coil Box | 911969A |

| 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 |

| 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 |



GENERAL TERMS OF LIMITED WARRANTY

Nortek Global HVAC, LLC will furnish a replacement for any part of this product which fails in normal use and service within the terms and conditions of the warranty.

For complete details of the Limited Warranty, including applicable terms and conditions, see your local installer or contact the Nortek Global HVAC, LLC warranty department for a copy.

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. Printed in U.S.A (10/2015)