# H8MPL

## Deluxe 80 Single Stage

### Flexibility

- 40″ high for more noise reduction and ease of installation.
- Factory shipped for natural gas, with LP Gas conversion kits available.
- Four position – upflow/downflow/ horizontal installation.
- Category I venting.
- Three position inducer capability.
- Common venting with water heater.

### Service

- Self diagnostics.
- Entire blower assembly mounted on rails.

### Quality

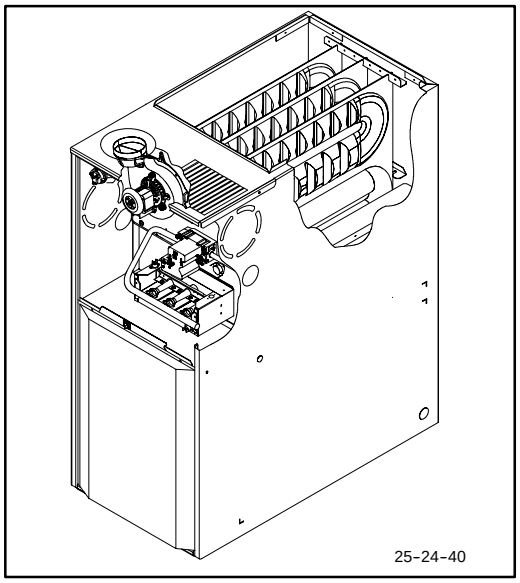
- RPJ III Aluminized steel heat exchanger.
- 20 year limited warranty on heat exchangers and 5 years on parts.
- High temperature limit control prevents overheating.
- Hot surface pilot ignition device.
- Flame roll–out sensors standard.
- Louvered doors.
- One piece prepainted steel cabinet.
- Masonry chimney adapter available.

### Comfort

- Adjustable timed blower Off delay.
- Humidifier terminal
- Electronic air cleaner terminal.

### Efficiency

- 80% AFUE efficiency range. +
- Single stage gas valve operation.
- Single stage fan timer.
- Multispeed, prelubricated PSC motors.
- Induced draft blower.
- In–shot burners.
- California NOx approved.




Representative drawing only, some models may vary in appearance.

**WARNING**

This furnace is not designed for use inside mobile homes, trailers, or recreational vehicles. Such use could result in property damage, bodily injury, and/or death.

**UPFLOW/DOWNFLOW/HORIZONTAL (NATURAL GAS)**

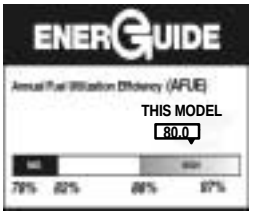
| Model Number | Heat Exchangers # | Dimensions H x W x D (In.) | Price |
|---|---|---|---|
| H8MPL050B12A | 20 year | 40 x $15^1/_2$ x 29 | |
| H8MPL075B12A | 20 year | 40 x $15^1/_2$ x 29 | |
| H8MPL075F16A | 20 year | 40 x $19^1/_8$ x 29 | |
| H8MPL100F20A | 20 year | 40 x $19^1/_8$ x 29 | |
| H8MPL100J20A | 20 year | 40 x $22^3/_4$ x 29 | |
| H8MPL125J20A | 20 year | 40 x $22^3/_4$ x 29 | |

# 20 YEAR LIFETIME WARRANTY

**PERFORMANCE DATA HEATING**

| Model Number | Input (MBTUH) | Efficiency AFUE + | Cooling Cap. @ .5″ W.C. |
|---|---|---|---|
| *8MPL050B12A | 50,000 | 80% | 1.5 – 3.0 TON |
| *8MPL075B12A | 75,000 | 80% | 1.5 – 3.0 TON |
| *8MPL075F16A | 75,000 | 80% | 2.5 – 4.0 TON |
| *8MPL100F20A | 100,000 | 80% | 3.5 – 5.0 TON |
| *8MPL100J20A | 100,000 | 80% | 3.5 – 5.0 TON |
| *8MPL125J20A | 125,000 | 80% | 3.5 – 5.0 TON |

* Denotes Brand




441 61 2311 03 (03/2004)

## FURNACE SPECIFICATIONS MULTI-POSITION

| Model Number NATURAL GAS | *8MPL | | | | | |
|---|---|---|---|---|---|---|
| | 050B12 | 075B12 | 075F16 | 100F20 | 100J20 | 125J20 |
| INPUT (btuh) | 50,000 | 75,000 | 75,000 | 100,000 | 100,000 | 125,000 |
| HTG. CAP. (btuh) | 40,000 | 60,000 | 60,000 | 81,000 | 81,000 | 101,000 |
| AFUE % (ICS) | 80% | 80% | 80% | 80% | 80% | 80% |
| TEMP. RISE (deg. F) | 35-65 | 30-60 | 30-60 | 35-65 | 35-65 | 35-65 |
| VOLTS/PH/HZ | 115/1/60 | 115/1/60 | 115/1/60 | 115/1/60 | 115/1/60 | 115/1/60 |
| RATING PLATE AMPS. | 8.8 | 9.5 | 10.1 | 13.9 | 12.6 | 13.9 |
| TRANSFORMER (V.A.) | 40 | 40 | 40 | 40 | 40 | 40 |
| GAS PIPE SIZE (IN.) | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| VENT COLLAR SIZE | 4″ | 4″ | 4″ | 4″ | 4″ | 4″ |
| COOLING CAP. | 3 | 3 | 4 | 5 | 5 | 5 |
| SHIPPING WEIGHT (LBS.) | 128 | 134 | 140 | 156 | 166 | 172 |
| DIMENSIONS (in.) HEIGHT | 40 | 40 | 40 | 40 | 40 | 40 |
| WIDTH X DEPTH | 15 1/2 x 29 | 15 1/2 x 29 | 19 1/8 x 29 | 19 1/8 x 29 | 22 3/4 x 29 | 22 3/4 x 29 |

(ICS) = Isolated Combustion System

## ACCESSORIES

| Model Number | Description | Used With Models |
|---|---|---|
| **TWINNING KIT** | | |
| NAHA003WK | Twinning kit. Allows operation of two identical-size model furnaces. | ALL *8MPL FURNACES |
| **GAS CONVERSION KITS** | | |
| NAHL002LP 1160991 * | Natural gas to LP (propane) conversion Kit. Allows field conversion to LP (propane) gas. | ALL *8MPL FURNACES |
| NAHF002NG 1009510 * | LP (Propane) to natural gas conversion kit. Allows field conversion to natural gas. (Single Stage) | ALL *8MPL FURNACES |
| **FILTER KITS** | | |
| NAHA001FF | External filter frame. 16″ x 25″ | Side Return (All Furnaces) Bottom Return (All "F" 19 1/8″ Furnaces under 1650 CFM) |
| NAHA002FF | Bottom return filter frame kit 20″ x 25″. | (All "J" 22 3/4″ Furnaces) |
| NAHA003FF | Bottom or side return filter frame kit 14″ x 25″. | (All "B" 15 1/2″ Furnaces) |
| NAHA001TK | Duct Standoff Filter Kit. To adapt 20″ x 25″ filter for single side return. | Side Return (All single return applications with 1650 CFM or greater) Bottom Return (All "F" 19 1/8″ Furnaces under 1650 CFM) |
| **COMBUSTIBLE FLOOR SUBBASES** | | |
| NAHH001SB | Subbase Furnace ONLY: All 15 1/2″ wide furnace models | *8MPL050-075B, |
| NAHH002SB | Subbase Furnace ONLY: All 19 1/4″ wide furnace models | *8MPL075-100 |
| NAHH003SB | Subbase Furnace ONLY: All 22 3/4″ wide furnace models | *8MPL100-125 |
| NAHH004SB | Subbase Furnace w/15 1/2″ cased coil | Counterflow furnace *8MPL050-075 |
| NAHH005SB | Subbase Furnace w/19 1/4″ cased coil | Counterflow furnace *8MPL075-100F |
| NAHH006SB | Subbase Furnace w/22 3/4″ cased coil | Counterflow furnace *8MPL100-125J |
| **MASONRY CHIMNEY ADAPTER** | | |
| NAHA001DH | Chimney adapter (6″) | *8MPL050, 075, 100 |
| NAHA002DH | Chimney adapter (7″) | *8MPL125 |
| **VENT GUARD** | | |
| NAHA002VC | Downflow vent guard | All downflow applications |
| **COIL ADAPTER** | | |
| NAHA001CA | Coil Adapter for Downflow Furnaces | All Multi- Position Furnaces in the Downflow Application |

* Fast part number

** Applications of *8MPL125 above 1650 CFM requires two side returns or NAHA001TK 20 x 25 duct stand-off filter kit or bottom return applications with the *8MPL125 use the 20 x 25 bottom return filter kit, NAHA002FF.

To achieve 2000 CFM with the stand-off filter kit you will still need a bottom return or 2 side filters.

## BLOWER PERFORMANCE MULTI-POSITION

| Model Number | | *8MPL | | | | | |
|---|---|---|---|---|---|---|---|
| | | 050B12 | 075B12 | 075F16** | 100F20** | 100J20** | 125J20** |
| BLOWER TYPE AND SIZE | | 11x8 | 11x8 | 11 x 10 | 11 x 10 | 11 x 10 | 11x10 |
| MOTOR H.P. (TYPE) | | 1/2/PSC | 1/2/PSC | 1/2/PSC | 1/2/PSC | 1/2/PSC | 1/2/PSC |
| MOTOR SPEEDS | | 4 | 4 | 4 | 4 | 4 | 4 |

## AIRFLOW DATA

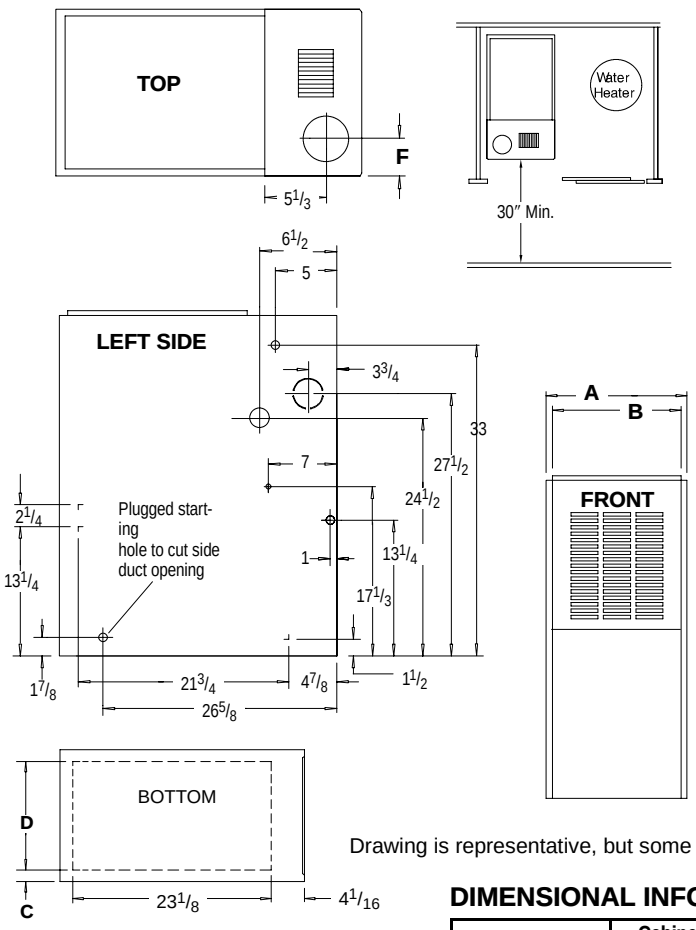
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| .10 ESP IN. W.C. | LOW | 472 | 695 | 598 | 831 | 773 | 860 |
| | MEDIUM LOW | 704 | 963 | 841 | 1125 | 1045 | 1149 |
| | MEDIUM HIGH | 1167 | 1220 | 1427 | 1582 | 1453 | 1666 |
| | HIGH | 1387 | 1559 | 1861 | 2216 | 2147 | 2147 |
| .20 ESP IN. W.C. | LOW | 419 | 670 | 499 | 823 | 764 | 848 |
| | MEDIUM LOW | 671 | 946 | 795 | 1124 | 1041 | 1154 |
| | MEDIUM HIGH | 1135 | 1202 | 1406 | 1585 | 1461 | 1622 |
| | HIGH | 1338 | 1511 | 1816 | 2198 | 2137 | 2137 |
| .30 ESP IN. W.C. | LOW | 365 | 644 | 400 | 814 | 755 | 836 |
| | MEDIUM LOW | 638 | 928 | 748 | 1123 | 1037 | 1158 |
| | MEDIUM HIGH | 1102 | 1183 | 1384 | 1588 | 1469 | 1577 |
| | HIGH | 1288 | 1463 | 1770 | 2179 | 2128 | 2126 |
| .40 ESP IN. W.C. | LOW | 328 | 616 | 345 | 798 | 734 | 821 |
| | MEDIUM LOW | 605 | 901 | 708 | 1120 | 1029 | 1149 |
| | MEDIUM HIGH | 1069 | 1151 | 1364 | 1583 | 1464 | 1569 |
| | HIGH | 1241 | 1412 | 1724 | 2127 | 2103 | 2137 |
| .50 ESP IN. W.C. | LOW | 290 | 588 | 289 | 781 | 712 | 805 |
| | MEDIUM LOW | 572 | 873 | 667 | 1117 | 1020 | 1140 |
| | MEDIUM HIGH | 1035 | 1118 | 1343 | 1577 | 1459 | 1561 |
| | HIGH | 1194 | 1361 | 1677 | 2074 | 2078 | 2148 |
| .60 ESP IN. W.C. | LOW | 250 | 564 | --- | 749 | 680 | 782 |
| | MEDIUM LOW | 547 | 822 | 625 | 1085 | 999 | 1111 |
| | MEDIUM HIGH | 987 | 1068 | 1299 | 1559 | 1441 | 1539 |
| | HIGH | 1132 | 1300 | 1612 | 1992 | 2020 | 2035 |
| .70 ESP IN. W.C. | LOW | 209 | 540 | --- | 717 | 647 | 758 |
| | MEDIUM LOW | 522 | 771 | 582 | 1053 | 979 | 1081 |
| | MEDIUM HIGH | 939 | 1017 | 1254 | 1541 | 1424 | 1516 |
| | HIGH | 1070 | 1239 | 1547 | 1909 | 1963 | 1922 |
| .80 ESP IN. W.C. | LOW | --- | 502 | --- | 663 | 601 | 710 |
| | MEDIUM LOW | 483 | 723 | 530 | 1009 | 936 | 1045 |
| | MEDIUM HIGH | 880 | 959 | 1192 | 1457 | 1385 | 1472 |
| | HIGH | 1004 | 1161 | 1454 | 1827 | 1879 | 1845 |
| .90 ESP IN. W.C. | LOW | --- | 463 | --- | 609 | 554 | 661 |
| | MEDIUM LOW | 443 | 675 | 477 | 964 | 894 | 1009 |
| | MEDIUM HIGH | 820 | 900 | 1129 | 1373 | 1347 | 1428 |
| | HIGH | 937 | 1083 | 1360 | 1745 | 1795 | 1767 |
| 1.00 ESP IN. W.C. | LOW | --- | 413 | --- | 561 | 497 | 614 |
| | MEDIUM LOW | 370 | 615 | 436 | 888 | 828 | 925 |
| | MEDIUM HIGH | 753 | 835 | 1016 | 1307 | 1262 | 1357 |
| | HIGH | 858 | 998 | 1262 | 1641 | 1705 | 1663 |

NOTE: Applications of *8MPL125 above 1650 CFM requires two side returns or use accessory stand-off filter kit for single return.

* Denotes Brand

** 075F16 - Reduce airflow by 5% if bottom return ONLY.
100F20 - Reduce airflow by 10% if bottom return ONLY.
125J20 - Reduce airflow by 5% if bottom return ONLY.

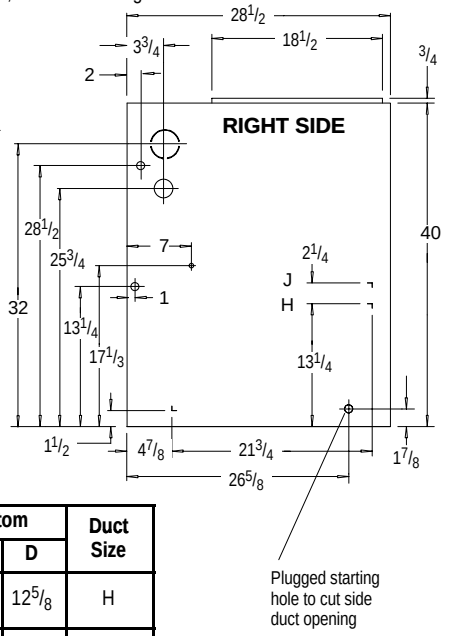
## UNIT DIMENSIONS




Drawing is representative, but some models may vary

| MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS FOR ALL UNITS | |
|---|---|
| REAR | 0 |
| FRONT | 3″ |
| Recommended For Service | 30″ |
| ALL SIDES Of SUPPLY PLENUM | 1″ |
| SIDES | 0 |
| VENT | |
| Single Wall Vent | 6″ |
| Type B–1 Double Wall Vent | 1″ |
| TOP OF FURNACE | 1″ |

Horizontal position: Line contact is permissible only between lines formed by intersections of top and two sides of furnace jacket, and building joists, studs or framing.




**NOTE:** Evaporator "A" coil drain pan dimensions may vary from furnace duct opening size. Always consult evaporator specifications for duct size requirements.

Unit is designed for bottom return or side return.

Return air through back of unit is NOT allowed.

**ALL DIMENSIONS IN INCHES (millimeters)**

### DIMENSIONAL INFORMATION

| Unit Capacity | Cabinet | | Top | Bottom | | Duct Size |
|---|---|---|---|---|---|---|
| | A | B | F | C | D | |
| *8MPL050B12 *8MPL075B12 | 15 1/2 | 14 | 6 | 1 3/8 | 12 5/8 | H |
| *8MPL075F16 *8MPL100F20 | 19 1/8 | 17 5/8 | 7 3/4 | 2 1/8 | 14 3/4 | J |
| *8MPL100J22 *8MPL125J20 | 22 3/4 | 21 1/4 | 9 1/2 | 1 15/16 | 18 3/4 | J |

## MODEL NUMBER IDENTIFICATION GUIDE

| * | 8 | M P | L | 0 75 | B | 1 2 | A | # |
|---|---|---|---|---|---|---|---|---|

**Brand**

**Brand Efficiency**
8 = Non–Condensing, 80+% Gas Furnace
9 = Condensing, 90+% Gas Furnace

**Installation Configuration**
UP = Upflow DN = Downflow
UH = Upflow/Horizontal HZ = Horizontal
DH = Downflow/Horizontal
MP = Multiposition, Upflow/Downflow/Horizontal

**Major Design Feature**
1 = One (Single) Pipe N = Single Stage
2 = Two Pipe P = PVC Vent
D = 1 or 2 Pipe T = Two Stage
L = Low NOx V = Variable Speed

**Input** (Nominal MBTUH)

**Cabinet Width**
B = 15.5″ Wide J = 22.8″ Wide
F = 19.1″ Wide L = 24.5″ Wide

**Cooling Airflow**
08 = 800 CFM 16 = 1600 CFM
12 = 1200 CFM 20 = 2000 CFM
14 = 1400 CFM

**Marketing Digit**
Denotes minor change

**Engineering Rev.**
Denotes minor changes

* Denotes Brand

**SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE**