

## Premier 90 2-Stage PSC

### Flexibility

- Dual Certified venting (1 or 2 pipe). Direct Vent furnace
- 40" high with wider cabinets, for noise reduction and ease of installation.
- Factory shipped as natural gas, with LP Gas conversion kits available.
- Four position - upflow/downflow/horizontal installation.
- Vent pipe can be run horizontally or vertically.
- Internal condensate drain system.

### Service

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

### Quality

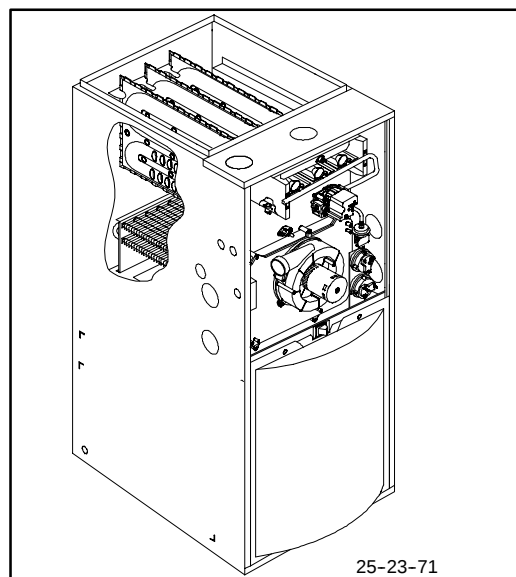
- RPJ III Stainless steel heat exchanger.
- Stainless steel secondary heat exchanger.
- Lifetime limited warranty on heat exchangers and 5 years on parts.
- High temperature limit control prevents overheating.
- Hot surface pilot ignition device.
- Flame roll-out sensors standard.
- External filter rack with permanent filters.
- Stainless steel solid doors.

### Comfort

- Adjustable timed blower Off delay.
- Thermal lined, one piece steel cabinet for noise reduction.
- Insulated blower compartment.
- Humidifier terminal
- Electronic air cleaner terminal.

### Efficiency

- 92.1% AFUE efficiency range.
- Two stage gas valve operation.
- Two stage fan timer.
- Multispeed, prelubricated PSC blower motors.
- Induced draft blower.
- In-shot burners.



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.

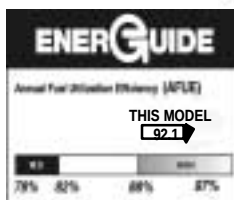
### UPFLOW/DOWNFLOW/HORIZONTAL (NATURAL GAS)

| Model Number | Heat Exchangers * | Dimensions H x W x D (In.)               | Price |
|--------------|-------------------|------------------------------------------|-------|
| T9MPT050F12B | Lifetime          | 40 x 19 <sup>1</sup> / <sub>8</sub> x 29 |       |
| T9MPT075F14B | Lifetime          | 40 x 19 <sup>1</sup> / <sub>8</sub> x 29 |       |
| T9MPT100J16B | Lifetime          | 40 x 22 <sup>3</sup> / <sub>4</sub> x 29 |       |
| T9MPT125L20B | Lifetime          | 40 x 24 <sup>1</sup> / <sub>2</sub> x 29 |       |

\* LIMITED LIFETIME WARRANTY

### PERFORMANCE DATA HEATING

| Model Number | Input (MBTUH) | Efficiency AFUE | Cooling Cap. @ .5 In. W.C. |
|--------------|---------------|-----------------|----------------------------|
| *9MPT050F12B | 50            | 92.1            | 1.5 - 3.0 TON              |
| *9MPT075F14B | 75            | 92.1            | 1.5 - 3.5 TON              |
| *9MPT100J16B | 100           | 92.1            | 2.5 - 4.0 TON              |
| *9MPT125L20B | 125           | 92.1            | 3.5 - 5.0 TON              |



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## FURNACE SPECIFICATIONS

| Model Number                                     | *9MPT050F12                              | *9MPT075F14                              | *9MPT100J16                              | *9MPT125L20                              |
|--------------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|------------------------------------------|
| INPUT HIGH FIRE (BTUH)<br>LOW FIRE (BTUH)        | 50,000<br>35,000                         | 75,000<br>53,000                         | 100,000<br>70,000                        | 125,000<br>87,500                        |
| HTG. CAP. HIGH FIRE (BTUH)<br>LOW FIRE (BTUH)    | 46,000<br>36,200                         | 69,000<br>48,800                         | 92,000<br>64,400                         | 114,000<br>80,500                        |
| AFUE % (ICS)                                     | 92.1                                     | 92.1                                     | 92.1                                     | 92.1                                     |
| CSE %                                            | 84.9                                     | 85.1                                     | 85.5                                     | 85.2                                     |
| TEMP. RISE RANGE High Fire (°F)<br>Low Fire (°F) | 35-65<br>25-55                           | 40-70<br>30-60                           | 40-70<br>30-60                           | 40-70<br>30-60                           |
| VENT SIZE ^                                      | 2" - 3" OD                               | 2" - 3" OD                               | 3" OD                                    | 3" OD                                    |
| VOLTS/PH/Hz                                      | 115/60/1                                 | 115/60/1                                 | 115/60/1                                 | 115/60/1                                 |
| MIN./MAX. VOLTAGE                                | 97/132                                   | 97/132                                   | 97/132                                   | 97/132                                   |
| F.L.A.                                           | 9.8                                      | 8.9                                      | 9.0                                      | 11.2                                     |
| TRANSFORMER (V.A.)                               | 40                                       | 40                                       | 40                                       | 40                                       |
| GAS PIPE SIZE (IN.)                              | 1/2                                      | 1/2                                      | 1/2                                      | 1/2                                      |
| COOLING CAP. (TONS)                              | 3.0                                      | 3.5                                      | 4.0                                      | 5.0                                      |
| FILTER SIZE (IN.)                                | 16X25X1(1)                               | 16X25X1(1)                               | 16X25X1(1)                               | 16X25X1(2)                               |
| HIGH ALTITUDE PRESSURE SWITCH                    | 1013165                                  | 1013165                                  | 1013165                                  | 1013157                                  |
| DIMENSIONS (in.) WIDTH X DEPTH X HEIGHT          | 19 <sup>1</sup> / <sub>8</sub> x 29 x 40 | 19 <sup>1</sup> / <sub>8</sub> x 29 x 40 | 22 <sup>3</sup> / <sub>4</sub> x 29 x 40 | 24 <sup>1</sup> / <sub>2</sub> x 29 x 40 |
| WEIGHT (Lbs.)                                    | 150                                      | 158                                      | 182                                      | 203                                      |

^ Vent size may vary depending on length, number of elbows, standard vent or direct vent.  
See Installation Instructions.

## BLOWER PERFORMANCE

| Model Number         | *9MPT050F12                     | *9MPT075F14                     | *9MPT100J16                     | *9MPT125L20                     |
|----------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| BLOWER TYPE AND SIZE | 11-8                            | 11-8                            | 11-10                           | 11 -10                          |
| MOTOR H.P. (TYPE)    | <sup>1</sup> / <sub>2</sub> PSC | <sup>1</sup> / <sub>2</sub> PSC | <sup>1</sup> / <sub>2</sub> PSC | <sup>3</sup> / <sub>4</sub> PSC |
| MOTOR SPEEDS         | 4                               | 4                               | 4                               | 4                               |

## AIRFLOW DATA

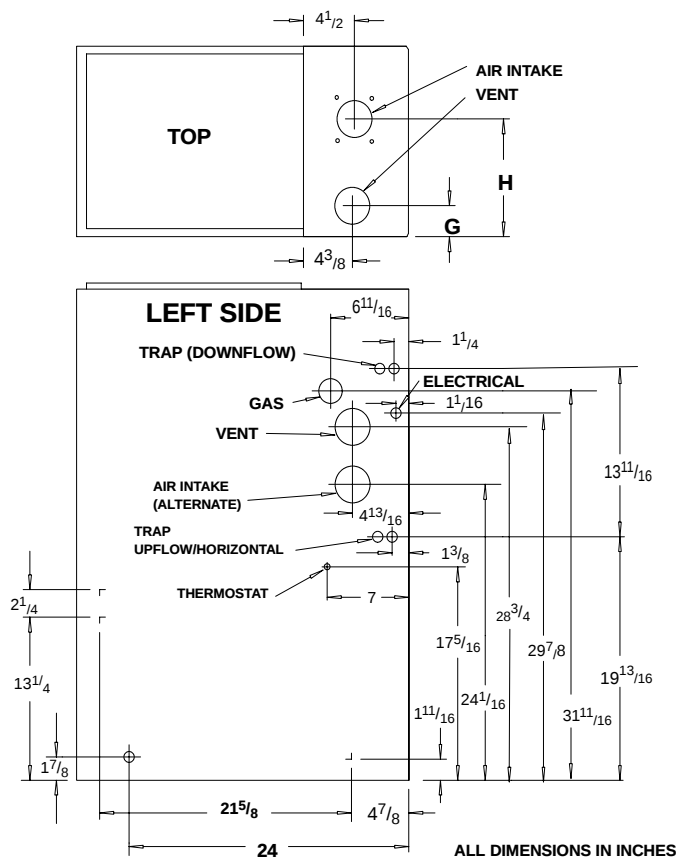
|                  |             |      |      |      |      |
|------------------|-------------|------|------|------|------|
| .10 ESP IN. W.C. | LOW         | 826  | 695  | 823  | 1720 |
|                  | MEDIUM LOW  | 1083 | 1025 | 1109 | 1910 |
|                  | MEDIUM HIGH | 1301 | 1455 | 1527 | 2127 |
|                  | HIGH        | 1408 | 1724 | 1850 | 2315 |
| .20 ESP IN. W.C. | LOW         | 804  | 674  | 795  | 1686 |
|                  | MEDIUM LOW  | 1050 | 1001 | 1087 | 1881 |
|                  | MEDIUM HIGH | 1242 | 1410 | 1482 | 2087 |
|                  | HIGH        | 1347 | 1662 | 1791 | 2268 |
| .30 ESP IN. W.C. | LOW         | 770  | 653  | 747  | 1644 |
|                  | MEDIUM LOW  | 1028 | 951  | 1056 | 1833 |
|                  | MEDIUM HIGH | 1195 | 1366 | 1426 | 2024 |
|                  | HIGH        | 1295 | 1601 | 1720 | 2201 |
| .40 ESP IN. W.C. | LOW         | 735  | 631  | 677  | 1600 |
|                  | MEDIUM LOW  | 985  | 921  | 1016 | 1777 |
|                  | MEDIUM HIGH | 1153 | 1309 | 1382 | 1961 |
|                  | HIGH        | 1237 | 1530 | 1648 | 2131 |
| .50 ESP IN. W.C. | LOW         | 698  | 609  | 617  | 1533 |
|                  | MEDIUM LOW  | 952  | 891  | 970  | 1720 |
|                  | MEDIUM HIGH | 1093 | 1252 | 1317 | 1891 |
|                  | HIGH        | 1183 | 1460 | 1575 | 2029 |
| .60 ESP IN. W.C. | LOW         | 657  | 569  | 544  | 1494 |
|                  | MEDIUM LOW  | 909  | 845  | 854  | 1647 |
|                  | MEDIUM HIGH | 1040 | 1187 | 1245 | 1804 |
|                  | HIGH        | 1118 | 1380 | 1485 | 1948 |
| .70 ESP IN. W.C. | LOW         | ---  | 529  | ---  | 1413 |
|                  | MEDIUM LOW  | 863  | 799  | 763  | 1571 |
|                  | MEDIUM HIGH | 935  | 1122 | 1154 | 1708 |
|                  | HIGH        | 1053 | 1300 | 1401 | 1820 |

\* Denotes Brand (T, H or C)

## MODEL NUMBER IDENTIFICATION GUIDE

|                                                                                                                                                                                      |          |            |          |              |          |            |                                                                                              |                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------------|----------|--------------|----------|------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| <b>Brand Identifier</b><br>* = Brand                                                                                                                                                 | <b>9</b> | <b>M P</b> | <b>T</b> | <b>0 7 5</b> | <b>F</b> | <b>1 2</b> | <b>A</b>                                                                                     | <b>#</b><br><b>Engineering Rev.</b><br>Denotes minor changes                                               |
| <b>Model Efficiency</b><br>8 = Non-Condensing, 80+% Gas Furnace<br>9 = Condensing, 90+% Gas Furnace                                                                                  |          |            |          |              |          |            | <b>Marketing Digit</b><br>Denotes minor change                                               | <b>Cooling Airflow</b><br>08 = 800 CFM<br>12 = 1200 CFM<br>14 = 1400 CFM<br>16 = 1600 CFM<br>20 = 2000 CFM |
| <b>Installation Configuration</b><br>UP = Upflow    DN = Downflow    UH = Upflow/Horizontal<br>HZ = Horizontal    DH = Downflow/Horizontal<br>MP = Multiposition, Up/Down/Horizontal |          |            |          |              |          |            | <b>Cabinet Width</b><br>B = 15.5" Wide<br>F = 19.1" Wide<br>J = 22.8" Wide<br>L = 24.5" Wide | <b>Input (Nominal MBTUH)</b>                                                                               |
| <b>Major Design Feature</b><br>1 = One (Single) Pipe    N = Single Stage<br>2 = Two Pipe    P = PVC Vent<br>D = 1 or 2 Pipe    T = Two Stage<br>L = Low NOx    V = Variable Speed    |          |            |          |              |          |            |                                                                                              |                                                                                                            |

## DIMENSIONS



| Cabinet to Combustible Clearances |      |    |    |      |      |      |
|-----------------------------------|------|----|----|------|------|------|
| TOP                               | BOT. | RH | LH | BACK | FRNT | FLUE |
| 1"                                | 0"   | 0" | 0" | 0"   | 3"   | 0"   |

| Unit Capacity | Cabinet                        |                                | Bottom D                       | Top                           |                                |
|---------------|--------------------------------|--------------------------------|--------------------------------|-------------------------------|--------------------------------|
|               | A                              | B                              |                                | G                             | H                              |
| *9MPT050F12A  | 19 <sup>1</sup> / <sub>8</sub> | 17 <sup>5</sup> / <sub>8</sub> | 14 <sup>3</sup> / <sub>4</sub> | 2 <sup>1</sup> / <sub>2</sub> | 9 <sup>1</sup> / <sub>2</sub>  |
| *9MPT075F14A  | 19 <sup>1</sup> / <sub>8</sub> | 17 <sup>5</sup> / <sub>8</sub> | 14 <sup>3</sup> / <sub>4</sub> | 2 <sup>1</sup> / <sub>2</sub> | 9 <sup>1</sup> / <sub>2</sub>  |
| *9MPT100J16A  | 22 <sup>3</sup> / <sub>4</sub> | 21 <sup>1</sup> / <sub>4</sub> | 18 <sup>3</sup> / <sub>4</sub> | 2 <sup>5</sup> / <sub>8</sub> | 11 <sup>3</sup> / <sub>8</sub> |
| *9MPT125L20A  | 24 <sup>1</sup> / <sub>2</sub> | 23                             | 23                             | 2 <sup>1</sup> / <sub>4</sub> | 12 <sup>1</sup> / <sub>4</sub> |

\* Denotes Brand (T, H or C)

25-23-36A

## ACCESSORIES

| Model Number           | Description                                                                                                                                              | Used With Models                                                                                                                                          |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1011787 ^              | Gas Conversion Kits (2-Stage) - LP (Propane) to natural gas conversion kit. Allows field conversion to natural gas.                                      | *9MPT                                                                                                                                                     |
| 1011789 ^              | Gas Conversion Kits (2-Stage) - Natural gas to LP (propane) conversion Kit (includes LP high altitude kit). Allows field conversion to LP (propane) gas. | *9MPT                                                                                                                                                     |
| NAHA001PS<br>1009522 ^ | LP Low Pressure Switch - For detecting low line pressure. Opens at 6.5" W.C. (included in NAHF002LP)                                                     | All LP *9MPT Models                                                                                                                                       |
| NAHA001FF              | Filter Kits - External filter frame. 16" x 25"                                                                                                           | Side Return (All Furnaces) Bottom Return (All "F" 19 <sup>1</sup> / <sub>8</sub> " Furnaces under 1650 CFM)                                               |
| NAHA001FP              | External filter frame. 16" x 25" (Bulk Pack Kit - Qty 10)                                                                                                |                                                                                                                                                           |
| NAHA002FF              | Filter Kits - Bottom return filter frame kit 20" x 25"                                                                                                   | (All "J" 22 <sup>3</sup> / <sub>4</sub> " Furnaces)                                                                                                       |
| NAHA002FP              | Bottom return filter frame kit 20" x 25" (Bulk Pack Kit - Qty 10)                                                                                        |                                                                                                                                                           |
| NAHA003FF              | Filter Kits - Bottom or side return filter frame kit 14" x 25".                                                                                          | (All "B" 15 <sup>1</sup> / <sub>2</sub> " Furnaces)                                                                                                       |
| NAHA003FP              | Bottom or side return filter frame kit 14" x 25" (Bulk Pack Kit - Qty 10)                                                                                |                                                                                                                                                           |
| 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)<br>Bottom Return (All "F" 19 <sup>1</sup> / <sub>8</sub> " Furnaces under 1650 CFM) |
| NAHA001NK<br>612833 ^  | Condensate neutralizer kit - for condensing gas furnaces                                                                                                 | All *9MPT Furnaces If Required                                                                                                                            |
| NAHA036VA              | Blower Upgrade Kit - Variable speed blower upgrade (consists of blower motor and electronics for 2-stage furnaces ONLY),                                 | *9MPT050                                                                                                                                                  |
| NAHA042VA              |                                                                                                                                                          | *9MPT075                                                                                                                                                  |
| NAHA060VA              |                                                                                                                                                          | *9MPT100/125                                                                                                                                              |
| NAHH002SB              | Combustible Floor Subbase - Furnace ONLY: All 19 <sup>1</sup> / <sub>4</sub> " wide furnace models                                                       | *9MPT050/075                                                                                                                                              |
| NAHH003SB              | Combustible Floor Subbase - Furnace ONLY: All 22 <sup>3</sup> / <sub>4</sub> " wide furnace models                                                       | *9MPT100                                                                                                                                                  |
| NAHH010SB              | Combustible Floor Subbase - Furnace ONLY: All 24 <sup>1</sup> / <sub>2</sub> " wide furnace models                                                       | *9MPT125                                                                                                                                                  |
| NAHH005SB              | Subbase - Furnace w/19 <sup>1</sup> / <sub>4</sub> " cased coil                                                                                          | *9MPT050/075<br>Counterflow furnace w/19 <sup>1</sup> / <sub>4</sub> " cased coil                                                                         |
| NAHH006SB              | Subbase - Furnace w/22 <sup>3</sup> / <sub>4</sub> " cased coil                                                                                          | *9MPT100<br>Counterflow furnace w/22 <sup>3</sup> / <sub>4</sub> " cased coil                                                                             |
| NAHH009SB              | Subbase - Furnace w/24 <sup>1</sup> / <sub>2</sub> " cased coil                                                                                          | *9MPT125                                                                                                                                                  |
| 1013515^               | Standard Pressure Switch Kit                                                                                                                             | *9MPT050, 075 & 100                                                                                                                                       |
| 1013166^               | Standard Pressure Switch Kit                                                                                                                             | *9MPT125                                                                                                                                                  |
| 1013165^               | High Pressure Switch Kit                                                                                                                                 | *9MPT050, 075 & 100                                                                                                                                       |
| 1013157^               | High Pressure Switch Kit                                                                                                                                 | *9MPT125                                                                                                                                                  |
| NAHA001CV<br>1011129^  | 3" Concentric vent kit - allows single wall penetration for 2 pipe direct vent applications (90+).                                                       | *9MPT100/125                                                                                                                                              |
| NAHA002CV              | 2" Concentric vent kit allows - single wall penetration for 2 pipe direct vent applications (90+).                                                       | *9MPT050/075                                                                                                                                              |
| NAHA001CA              | Coil Adapter for Downflow Furnaces                                                                                                                       | All Downflow Models                                                                                                                                       |
| NAHL001WL              | To replace Warning Labels, Operating Instructions & Wiring Labels on Blower Door when needed                                                             | *9MPT                                                                                                                                                     |

^ Must be ordered from Service Parts

\* Denotes Brand (T, H or C)