

## 95% AFUE Single Stage Furnace Upflow/Horizontal

### FLEXIBILITY

- Dual certified venting (1 or 2 pipes) Direct Vent furnace
- 40" high with wider cabinets, for ease of installation
- Factory shipped for natural gas, with Propane Gas conversion kits available
- Upflow/horizontal installation
- Vent pipe can be run horizontally or vertically
- Internal condensate drain system

### SERVICE

- Self diagnostics
- Entire blower assembly mounted on rails

### COMFORT

- Adjustable timed blower Off delay
- Thermal lined, one piece steel cabinet for noise reduction
- 24 and 115 VAC humidifier terminal
- Electronic air cleaner terminal
- Insulated blower compartment

### EFFICIENCY

- 95% AFUE, upflow
- Up to 95% AFUE, horizontal
- Single stage gas valve operation
- Single stage integrated control
- Multispeed, prelubricated PSC blower motors
- Induced draft blower
- In-shot burners
- California NOx approved

### QUALITY

- RPJ III Stainless steel heat exchanger
- Stainless steel secondary heat exchanger
- High temperature limit control prevents overheating
- Dependable hot surface ignition with Silicon Nitride igniter
- Flame roll-out sensors standard
- Solid doors
- 5 year limited parts warranty
- 5 year No Hassle Replacement limited warranty
- Limited lifetime heat exchanger warranty



Illustrations and photographs are only representative.  
Some product models may vary.

### ⚠ WARNING

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



**NO  
hassle**  
REPLACEMENT WARRANTY  
see warranty certificate for details

| UPFLOW/HORIZONTAL (NATURAL GAS) |                   |                                          |               |        |            |                             |
|---------------------------------|-------------------|------------------------------------------|---------------|--------|------------|-----------------------------|
| Model Number                    | Heat Exchangers * | Dimensions H x W x D (In.)               | Input (MBTUH) | AFUE   |            | Cooling Capacity @ .5 in wc |
|                                 |                   |                                          |               | Upflow | Horizontal |                             |
| H9UHX060F12A                    | Lifetime          | 40 x 19 <sup>1</sup> / <sub>8</sub> x 29 | 60            | 95.0   | 94.4       | 1.5 - 3.0 TON               |
| H9UHX080J12A                    | Lifetime          | 40 x 22 <sup>3</sup> / <sub>4</sub> x 29 | 80            | 95.0   | 94.4       | 2.0 - 3.0 TON               |
| H9UHX080J16A                    | Lifetime          | 40 x 22 <sup>3</sup> / <sub>4</sub> x 29 | 80            | 95.0   | 95.0       | 2.0 - 4.0 TON               |
| H9UHX100L20A                    | Lifetime          | 40 x 24 <sup>1</sup> / <sub>2</sub> x 29 | 100           | 95.0   | 94.4       | 3.5 - 5.0 TON               |

\* LIMITED LIFETIME WARRANTY

## FURNACE SPECIFICATIONS

| Model Number                   | NATURAL GAS | *9UHX060F12                         | *9UHX080J12                         | *9UHX080J16                         | *9UHX100L20                         |
|--------------------------------|-------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| INPUT (btuh)                   |             | 60,000                              | 80,000                              | 80,000                              | 100,000                             |
| HTG. CAP. (btuh)               |             | 58,000                              | 77,000                              | 77,000                              | 96,000                              |
| UPFLOW AFUE % (ICS)            |             | 95.0                                | 95.0                                | 95.0                                | 95.0                                |
| HORIZONTAL AFUE % (ICS)        |             | 94.4                                | 94.4                                | 95.0                                | 94.4                                |
| NOx (Ng/J)                     |             | <40                                 | <40                                 | <40                                 | <40                                 |
| TEMP. RISE DEGREES (°F/°C)     |             | 30-60/17-33                         | 35-65/19-46                         | 30-60/17-33                         | 30-60/17-33                         |
| VOLTS/HZ/PH                    |             | 115/1/60                            | 115/1/60                            | 115/1/60                            | 115/1/60                            |
| MIN./MAX. VOLTAGE              |             | 104/127                             | 104/127                             | 104/127                             | 104/127                             |
| RATING PLATE AMPS.             |             | 10                                  | 10.5                                | 13.6                                | 14.8                                |
| TRANSFORMER (V.A.)             |             | 40                                  | 40                                  | 40                                  | 40                                  |
| GAS PIPE SIZE (IN.)            |             | 1/2                                 | 1/2                                 | 1/2                                 | 1/2                                 |
| VENT SIZE <sup>^</sup>         |             | 2" or 3" OD                         | 3" OD                               | 3" OD                               | 3" OD                               |
| COOLING CAP.                   |             | 3.0                                 | 3.0                                 | 4.0                                 | 5.0                                 |
| FILTER SIZE (IN.) (1 required) |             | 16X25X1                             | 16X25X1                             | 16X25X1(2)                          | 16X25X1(2)                          |
| DIMENSIONS (in.) HEIGHT        |             | 40                                  | 40                                  | 40                                  | 40                                  |
| WIDTH X DEPTH                  |             | 19 <sup>1</sup> / <sub>8</sub> x 29 | 22 <sup>3</sup> / <sub>4</sub> x 29 | 22 <sup>3</sup> / <sub>4</sub> x 29 | 24 <sup>1</sup> / <sub>2</sub> x 29 |
| WEIGHT (Lbs.)                  |             | 153                                 | 172                                 | 180                                 | 193                                 |

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

\* Denotes Brand (C, T, H)

## MODEL NUMBER IDENTIFICATION GUIDE

|                                                                                                                                |   |   |    |   |     |   |     |   |   |                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------|---|---|----|---|-----|---|-----|---|---|----------------------------------------------------------------------------------------------|
| <b>Brand Identifier</b><br>* = Brand Specific                                                                                  | * | 9 | UH | X | 060 | F | 1 2 | A | # | <b>Engineering Rev.</b><br>Denotes minor change                                              |
| <b>Model Efficiency</b><br>8 = Non-Condensing, 80+% Gas Furnace<br>9 = Condensing, 90+% Gas Furnace                            |   |   |    |   |     |   |     |   |   | <b>Marketing Digit</b><br>Denotes major change                                               |
| <b>Installation Configuration</b><br>UH = Upflow/Horizontal                                                                    |   |   |    |   |     |   |     |   |   | <b>Cooling Airflow</b><br>12 = 1200 CFM<br>16 = 1600 CFM<br>20 = 2000 CFM                    |
| <b>Major Design Feature</b><br>1 = One (Single) Pipe<br>2 = Two Pipe<br>D = 1 or 2 Pipe<br>L = Low NOx<br>X = Extra Efficiency |   |   |    |   |     |   |     |   |   | <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</b><br>(Nominal MBTUH)                                                              |

## ACCESSORIES

| Model Number                      | Description                                                                                                    | Used With Models                                                                                                                                          |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| NAHA004WK                         | Twinning Kit - Allows operation of two identical-size model furnaces.                                          | All *9UHX Furnaces                                                                                                                                        |
| NAHA003LP<br>1174906 <sup>+</sup> | Gas Conversion Kits - Natural gas to LP (propane) conversion Kit. Allows field conversion to LP (propane) gas. | *9UHX                                                                                                                                                     |
| NAHA004NG<br>1174907 <sup>+</sup> | Gas Conversion Kits - LP (Propane) to natural gas conversion kit. Allows field conversion to natural gas.      | *9UHX                                                                                                                                                     |
| 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 1600 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)                                              |                                                                                                                                                           |
| NAHA001TK                         | Duct Standoff Filter Kit. To adapt 20" x 25" filter for single side return.                                    | Side Return (All single return applications with 1600 CFM or greater)<br>Bottom Return (All "F" 19 <sup>1</sup> / <sub>8</sub> " Furnaces under 1600 CFM) |
| NAHA001NK<br>612833 <sup>+</sup>  | Condensate neutralizer kit - for condensing gas furnaces                                                       | All *9UHX Furnaces If Required                                                                                                                            |
| NAHA001CV<br>1011129 <sup>+</sup> | 3" Concentric vent kit - allows single wall penetration for 2 pipe direct vent applications (90+).             | *9UHX060 (65' & (4) 90°elbows)<br>*9UHX080 (35' & (4) 90°elbows)<br>*9UHX100 (35' & (4) 90°elbows)                                                        |
| NAHA002CV                         | 2" Concentric vent kit - allows single wall penetration for 2 pipe direct vent applications (90+).             | *9UHX060 (35' & (4) 90°elbows)<br>*9UHX080 (35' & (4) 90°elbows)<br>*9UHX100 (25' & (4) 90°elbows)                                                        |
| 1175066 <sup>+</sup>              | High Altitude Pressure Switch Kit (1 Pressure Switch)                                                          | *9UHX060                                                                                                                                                  |
| 1175067 <sup>+</sup>              | High Altitude Pressure Switch Kit (2 Pressure Switches)                                                        | *9UHX080J12 & *9UHX080J16                                                                                                                                 |
| 1175068 <sup>+</sup>              | High Altitude Pressure Switch Kit (2 Pressure Switches)                                                        | *9UHX100                                                                                                                                                  |

<sup>+</sup> Must be ordered from Service Parts

\* Denotes Brand (C, T, H)

Specifications subject to change without notice.

## BLOWER PERFORMANCE

| Model Number                      | NATURAL GAS | *9UHX060F12 (1)(2)                | *9UHX080J12 (1)(2)                | *9UHX080J16 (1)(2)                | *9UHX100L20 (1)(2)                |
|-----------------------------------|-------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| BLOWER SIZE INCHES (DIA. x WIDTH) |             | 11-10                             | 11-10                             | 11-10                             | 11-10                             |
| MOTOR H.P. (TYPE)                 |             | PSC / <sup>1</sup> / <sub>2</sub> | PSC / <sup>1</sup> / <sub>3</sub> | PSC / <sup>1</sup> / <sub>2</sub> | PSC / <sup>3</sup> / <sub>4</sub> |
| MOTOR SPEEDS                      |             | 4                                 | 4                                 | 4                                 | 4                                 |

## AIRFLOW DATA (CFM)

|                |             |      |      |      |      |
|----------------|-------------|------|------|------|------|
| .10 ESP in wc  | LOW         | 703  | 976  | 922  | 1820 |
|                | MEDIUM LOW  | 901  | 1123 | 1246 | 1993 |
|                | MEDIUM HIGH | 1204 | 1326 | 1690 | 2137 |
|                | HIGH        | 1478 | 1456 | 2032 | 2240 |
| .20 ESP in wc  | LOW         | 649  | 941  | 898  | 1768 |
|                | MEDIUM LOW  | 864  | 1112 | 1250 | 1934 |
|                | MEDIUM HIGH | 1154 | 1312 | 1650 | 2062 |
|                | HIGH        | 1418 | 1440 | 1952 | 2163 |
| .30 ESP in wc  | LOW         | 588  | 909  | 872  | 1722 |
|                | MEDIUM LOW  | 818  | 1085 | 1226 | 1872 |
|                | MEDIUM HIGH | 1103 | 1280 | 1601 | 1992 |
|                | HIGH        | 1350 | 1420 | 1874 | 2083 |
| .40 ESP in wc  | LOW         | 538  | 870  | 838  | 1656 |
|                | MEDIUM LOW  | 765  | 1043 | 1187 | 1801 |
|                | MEDIUM HIGH | 1053 | 1241 | 1533 | 1916 |
|                | HIGH        | 1280 | 1379 | 1785 | 2002 |
| .50 ESP in wc  | LOW         | 488  | 818  | 806  | 1590 |
|                | MEDIUM LOW  | 720  | 1002 | 1151 | 1723 |
|                | MEDIUM HIGH | 993  | 1209 | 1462 | 1833 |
|                | HIGH        | 1201 | 1325 | 1688 | 1912 |
| .60 ESP in wc  | LOW         | 459  | 784  | 769  | 1513 |
|                | MEDIUM LOW  | 672  | 952  | 1090 | 1636 |
|                | MEDIUM HIGH | 924  | 1155 | 1381 | 1745 |
|                | HIGH        | 1116 | 1261 | 1593 | 1821 |
| .70 ESP in wc  | LOW         | 408  | 714  | 711  | 1426 |
|                | MEDIUM LOW  | 620  | 893  | 1014 | 1547 |
|                | MEDIUM HIGH | 846  | 1082 | 1287 | 1654 |
|                | HIGH        | 1023 | 1208 | 1482 | 1727 |
| .80 ESP in wc  | LOW         | 365  | 640  | 643  | 1325 |
|                | MEDIUM LOW  | 558  | 792  | 918  | 1437 |
|                | MEDIUM HIGH | 764  | 1001 | 1182 | 1551 |
|                | HIGH        | 931  | 1115 | 1360 | 1618 |
| .90 ESP in wc  | LOW         | 317  | 567  | 570  | 1199 |
|                | MEDIUM LOW  | 489  | 702  | 790  | 1315 |
|                | MEDIUM HIGH | 683  | 868  | 1053 | 1430 |
|                | HIGH        | 825  | 1007 | 1231 | 1502 |
| 1.00 ESP in wc | LOW         | 233  | 491  | 488  | 1047 |
|                | MEDIUM LOW  | 428  | 608  | 678  | 1159 |
|                | MEDIUM HIGH | 590  | 746  | 850  | 1275 |
|                | HIGH        | 730  | 830  | 1052 | 1356 |

NOTE: (1) Data based on Bottom Only or One Side return.  
 (2) Gray area is above maximum temperature rise range.

| MAX CFM's for Factory Washable Filters |      |
|----------------------------------------|------|
| Filter Size                            | CFM  |
| 14" X 25"                              | 1400 |
| 16" X 25"                              | 1600 |
| 20" X 25"                              | 2000 |
| 24" X 25"                              | 2500 |
| Max CFM based on 600 FPM               |      |

# CFM - Cubic Feet per Minute airflow.

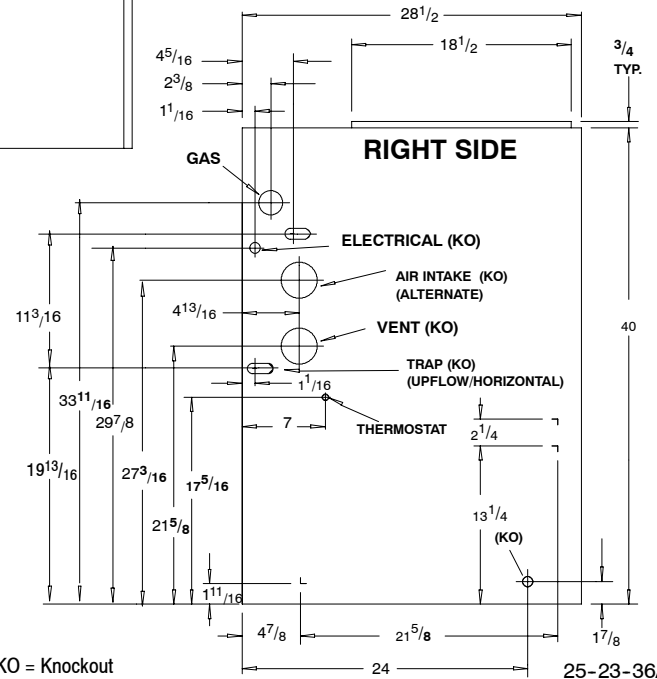
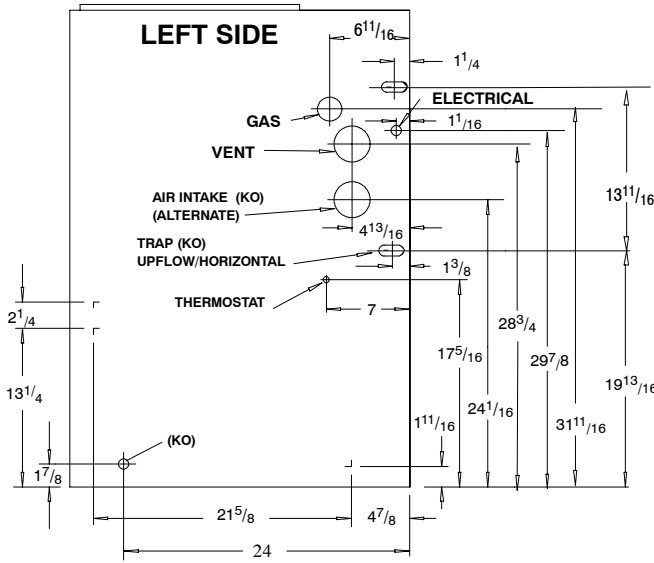
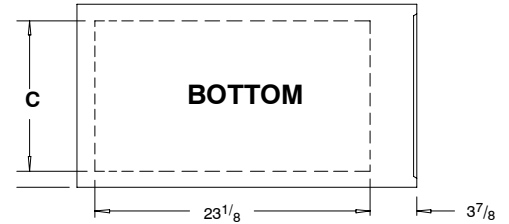
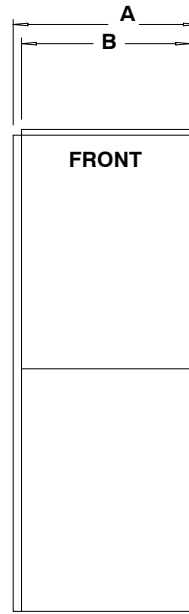
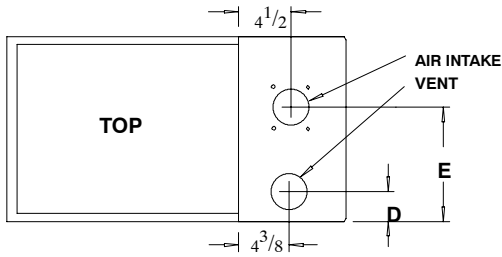
Filter required for each return-air inlet. Airflow performance includes 1" washable (600 FPM max) filter media.

Disposable filters are typically rated at 300 FPM and only allow half of the airflow when compared to 600 FPM filters.

Example: 20 x 25 @ 600 FPM = 2000 CFM, @ 300 FPM = 1000 CFM.

# DIMENSIONS

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



| Unit Capacity | Cabinet         |                 | Bottom          | Top            |                 |
|---------------|-----------------|-----------------|-----------------|----------------|-----------------|
|               | A               | B               | C               | D              | E               |
| *9UHX060F12   | $19\frac{1}{8}$ | $17\frac{5}{8}$ | $14\frac{3}{4}$ | $2\frac{1}{2}$ | $9\frac{1}{2}$  |
| *9UHX080J12   | $22\frac{3}{4}$ | $21\frac{1}{4}$ | $18\frac{3}{4}$ | $2\frac{5}{8}$ | $11\frac{3}{8}$ |
| *9UHX080J16   | $22\frac{3}{4}$ | $21\frac{1}{4}$ | $18\frac{3}{4}$ | $2\frac{5}{8}$ | $11\frac{3}{8}$ |
| *9UHX10L20    | $24\frac{1}{2}$ | 23              | 23              | $2\frac{1}{4}$ | $12\frac{1}{4}$ |

ALL DIMENSIONS IN INCHES  
1 in = 25.4 mm

\* Denotes Brand (C, T, H)

KO = Knockout

25-23-36A