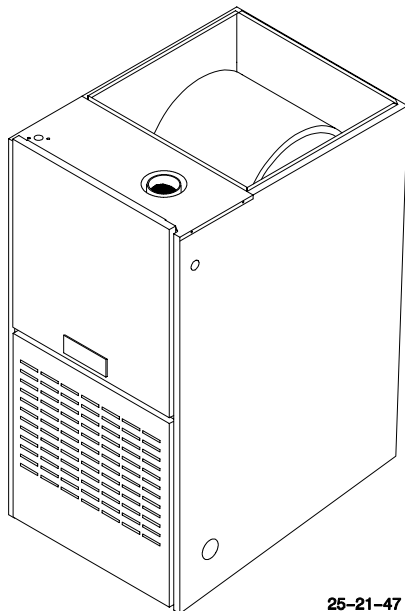


# NDN6 GAS FURNACE



## Quiet Comfort™ DOWNFLOW 40"

### INDUCED COMBUSTION



25-21-47

Representative photo only, some models may vary in appearance.

**MANUFACTURED FOR NATURAL GAS  
CONVERTIBLE TO (LP) PROPANE GAS**

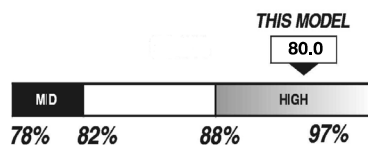
**NOTE:** These furnaces are not designed for installation in a corrosive atmosphere, containing Chlorine, Fluorine, or any other damaging chemicals.

#### 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.

## ENERGUIDE

Annual Fuel Utilization Efficiency (AFUE)



#### OPERATION

- 80% AFUE.
- Enclosed burners for quiet operation.
- Hot surface pilot device.
- Induced draft combustion blower.
- Adjustable electronic fan control with low speed continuous fan feature provides maximum comfort.

#### HEAT EXCHANGER

- Aluminized steel heat exchanger.
- 20 year limited heat exchanger warranty.

#### VENTING

- Category I venting only in accordance with installation instructions and local codes.

#### BURNER ASSEMBLY

- In-shot monoport, all low NOx.

#### BLOWER ASSEMBLY

- Multispeed, prelubricated PSC motors. Dynamically balanced. Heavy duty motor brackets. Resilient mounted motors.

#### WIRING CENTER

- 40VA transformer.
- Color coded wiring.
- Low voltage terminal board.
- Factory provided connections for electronic air cleaner and/or humidifier.
- Dependable electronic fan timer allows precise comfort control.

#### CABINET

- Prepainted cabinet & doors.
- Fully insulated cabinet.

#### SAFETY

- Controls monitors system for safety.
- Redundant gas valve.
- High temperature limit control.
- Flue blockage pressure switch.
- Blower door interlock switch.
- Flame roll out switch.

#### INSTALLATION

- Must be installed as a downflow furnace.
- Compact 40" design.
- Convertible to (LP) Propane Gas.
- 0" clearances on sides and back.
- Filters and filter rack standard.
- Twinning kit available to operate two furnaces in tandem.

## FURNACE SPECIFICATIONS DOWNFLOW

| Model Number                   | NATURAL GAS | NDN6050FB          | NDN6075FB          | NDN6075HF          | NDN6100GF          | NDN6100KF          | NDN6125KJ          |
|--------------------------------|-------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| INPUT (btuh)                   |             | 50,000             | 75,000             | 75,000             | 100,000            | 100,000            | 125,000            |
| HTG. CAP. (btuh)               |             | 40,000             | 61,000             | 61,000             | 81,000             | 81,000             | 102,000            |
| AFUE % (ICS)                   |             | 80.0%              | 80.0%              | 80.0%              | 80.0%              | 80.0%              | 80.0%              |
| CSE                            |             | 73.0%              | 73.0%              | 73.0%              | 73.0%              | 73.0%              | 73.0%              |
| NO <sub>x</sub> (Ng/J)         |             | 37                 | 37                 | 37                 | 37                 | 37                 | 37                 |
| TEMP. RISE (°F) / (°C)         |             | 30 - 60 / 17-33    | 40 - 70 / 22-39    | 40 - 70 / 22-39    | 50 - 80 / 28-44    | 35 - 65 / 19-36    | 45 - 75 / 25-42    |
| VOLTS/PH/Hz                    |             | 115/60/1           | 115/60/1           | 115/60/1           | 115/60/1           | 115/60/1           | 115/60/1           |
| F.L.A.                         |             | 5.3                | 5.3                | 5.3                | 7.5                | 11.3               | 12.0               |
| 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                |
| CATEGORY I VENT SIZE           |             | 3"                 | 4"                 | 4"                 | 4"                 | 4"                 | 5"                 |
| COOLING CAP.                   |             | 3.0 TON            | 3.0 TON            | 4.0 TON            | 3.5 TON            | 5.0 TON            | 5.0 TON            |
| FILTER SIZE (IN.) (2 required) |             | 15 x 18 x 1        | 15 x 18 x 1        | 15 x 18 x 1        | 15 x 18 x 1        | 15 x 18 x 1        | 15 x 18 x 1        |
| FILTER SIZE (mm) (2 required)  |             | 381 x 457.2 x 25.4 | 381 x 457.2 x 25.4 | 381 x 457.2 x 25.4 | 381 x 457.2 x 25.4 | 381 x 457.2 x 25.4 | 381 x 457.2 x 25.4 |
| SHIPPING WT. (LBS.) / (KGS)    |             | 127 / 57.1         | 129 / 58.5         | 129 / 58.5         | 157 / 71.2         | 159 / 72.1         | 177 / 79.6         |
| DIMENSIONS HEIGHT (in.) / (M)  |             | 40 / 1.02          | 40 / 1.02          | 40 / 1.02          | 40 / 1.02          | 40 / 1.02          | 40 / 1.02          |
| WIDTH X DEPTH (in.)            |             | 15 1/2 x 28 1/2    | 15 1/2 x 28 1/2    | 19 1/8 x 28 1/2    | 19 1/8 x 28 1/2    | 19 1/8 x 28 1/2    | 22 3/4 x 28 1/2    |
| WIDTH X DEPTH (mm)             |             | 393.7 x 723.9      | 393.7 x 723.9      | 393.7 x 723.9      | 485.8 x 723.9      | 485.8 x 723.9      | 577.8 x 723.9      |

## BLOWER PERFORMANCE

| Model Number         | NATURAL GAS | NDN6050FB | NDN6075FB | NDN6075HF | NDN6100GF | NDN6100KF | NDN6125KJ |
|----------------------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|
| BLOWER TYPE AND SIZE |             | 10 x 8    | 10 x 8    | 10 x 8    | 10 x 10   | 11 x 10   | 11 x 10   |
| MOTOR H.P. (TYPE)    |             | 1/3       | 1/3       | 3/4       | 1/2       | 3/4       | 3/4       |
| MOTOR SPEEDS         |             | 4         | 4         | 3         | 4         | 4         | 4         |

## AIRFLOW DATA

|                     |             |      |      |      |      |      |      |
|---------------------|-------------|------|------|------|------|------|------|
| .10 ESP IN.<br>W.C. | LOW         | 675  | 675  | 1512 | 778  | 1305 | 1333 |
|                     | MEDIUM LOW  | 859  | 859  | -    | 984  | 1495 | 1573 |
|                     | MEDIUM      | -    | -    | 1669 | -    | -    | -    |
|                     | MEDIUM HIGH | 1015 | 1015 | -    | 1263 | 1805 | 1840 |
|                     | HIGH        | 1394 | 1394 | 1840 | 1576 | 2141 | 2148 |
| .20 ESP IN.<br>W.C. | LOW         | 662  | 662  | 1460 | 786  | 1258 | 1294 |
|                     | MEDIUM LOW  | 846  | 846  | -    | 1003 | 1457 | 1544 |
|                     | MEDIUM      | -    | -    | 1610 | -    | -    | -    |
|                     | MEDIUM HIGH | 999  | 999  | -    | 1249 | 1743 | 1816 |
|                     | HIGH        | 1342 | 1342 | 1780 | 1532 | 2064 | 2093 |
| .30 ESP IN.<br>W.C. | LOW         | 651  | 651  | 1402 | 790  | 1241 | 1266 |
|                     | MEDIUM LOW  | 819  | 819  | -    | 1003 | 1424 | 1500 |
|                     | MEDIUM      | -    | -    | 1559 | -    | -    | -    |
|                     | MEDIUM HIGH | 977  | 977  | -    | 1244 | 1698 | 1776 |
|                     | HIGH        | 1289 | 1289 | 1711 | 1489 | 1981 | 2041 |
| .40 ESP IN.<br>W.C. | LOW         | 736  | 736  | 1360 | 788  | 1227 | 1240 |
|                     | MEDIUM LOW  | 795  | 795  | -    | 1001 | 1383 | 1467 |
|                     | MEDIUM      | -    | -    | 1499 | -    | -    | -    |
|                     | MEDIUM HIGH | 952  | 952  | -    | 1215 | 1636 | 1726 |
|                     | HIGH        | 1227 | 1227 | 1640 | 1432 | 1902 | 1981 |
| .50 ESP IN.<br>W.C. | LOW         | 608  | 608  | 1291 | 781  | 1178 | 1175 |
|                     | MEDIUM LOW  | 765  | 765  | -    | 982  | 1343 | 1419 |
|                     | MEDIUM      | -    | -    | 1439 | -    | -    | -    |
|                     | MEDIUM HIGH | 914  | 914  | -    | 1186 | 1563 | 1665 |
|                     | HIGH        | 1163 | 1163 | 1572 | 1371 | 1818 | 1906 |
| .60 ESP IN.<br>W.C. | LOW         | 564  | 564  | 1230 | 765  | 1103 | 1141 |
|                     | MEDIUM LOW  | 735  | 735  | -    | 962  | 1279 | 1357 |
|                     | MEDIUM      | -    | -    | 1360 | -    | -    | -    |
|                     | MEDIUM HIGH | 870  | 870  | -    | 1146 | 1491 | 1607 |
|                     | HIGH        | 1086 | 1086 | 1480 | 1308 | 1740 | 1828 |
| .70 ESP IN.<br>W.C. | LOW         | 514  | 514  | 1171 | 743  | 1029 | 1054 |
|                     | MEDIUM LOW  | 685  | 685  | -    | 923  | 1185 | 1308 |
|                     | MEDIUM      | -    | -    | 1277 | -    | -    | -    |
|                     | MEDIUM HIGH | 818  | 818  | -    | 1094 | 1390 | 1538 |
|                     | HIGH        | 1002 | 1002 | 1391 | 1229 | 1644 | 1751 |

NOTE: Filter supplied in unit allow 600 fpm velocity air flow. See installation instructions.

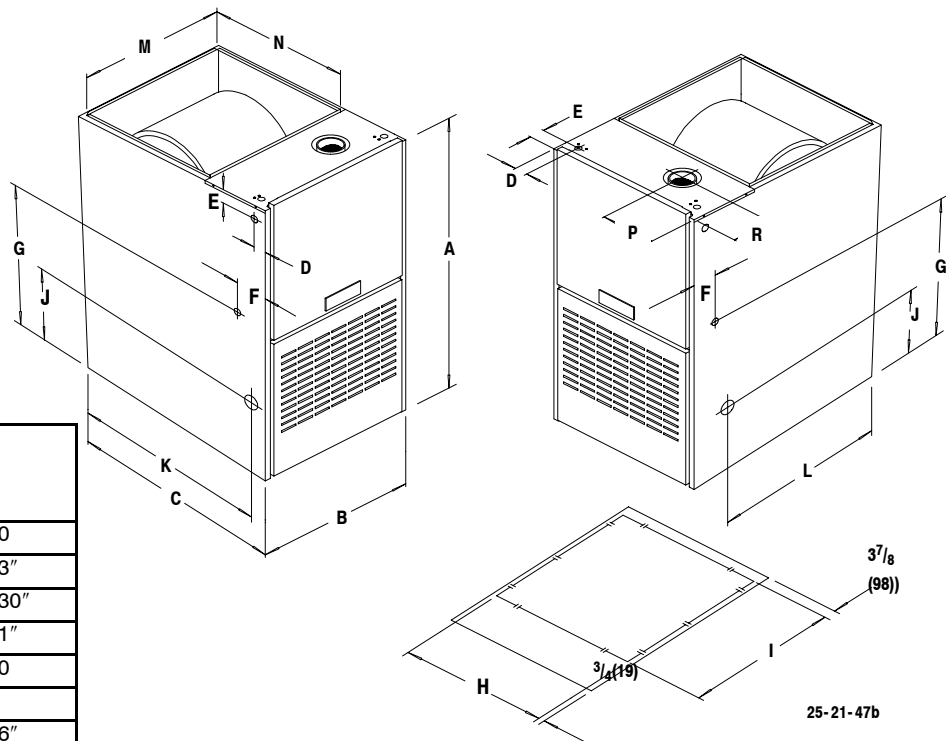
NOTE: Air flow data without filters.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

## MODEL NUMBER IDENTIFICATION GUIDE

|                                |   |   |   |   |     |   |   |   |                                                                                                                                                |
|--------------------------------|---|---|---|---|-----|---|---|---|------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MODEL NUMBER</b>            | N | D | N | 6 | 050 | F | B | G | <b>MARKETING REVISION</b>                                                                                                                      |
| <b>PRODUCT FAMILY</b>          |   |   |   |   |     |   |   |   | <b>FURNACE WIDTH</b>                                                                                                                           |
| <b>PRODUCT GROUP</b>           |   |   |   |   |     |   |   |   | B = 15 <sup>1</sup> / <sub>2</sub> J = 22 <sup>3</sup> / <sub>4</sub><br>F = 19 <sup>1</sup> / <sub>8</sub> N = 26 <sup>3</sup> / <sub>8</sub> |
| U = Upflow                     |   |   |   |   |     |   |   |   | <b>NOMINAL AIR FLOW (Tons)</b>                                                                                                                 |
| H = Horizontal                 |   |   |   |   |     |   |   |   | A = Heat Only      G = 3.5                                                                                                                     |
| D = Downflow                   |   |   |   |   |     |   |   |   | C = 2      J = 4.5                                                                                                                             |
| F = Floor Furnace              |   |   |   |   |     |   |   |   | D = 2      K = 5                                                                                                                               |
|                                |   |   |   |   |     |   |   |   | E = 2.5      L = 5.5 - 7.0                                                                                                                     |
|                                |   |   |   |   |     |   |   |   | F = 3      M = 7.5 - 10.0                                                                                                                      |
| <b>FUEL</b>                    |   |   |   |   |     |   |   |   | <b>NOMINAL INPUT MBTUH</b>                                                                                                                     |
| C = Natural Gas                |   |   |   |   |     |   |   |   |                                                                                                                                                |
| N = Natural Gas California NOx |   |   |   |   |     |   |   |   |                                                                                                                                                |
| L = L.P. Gas                   |   |   |   |   |     |   |   |   |                                                                                                                                                |
|                                |   |   |   |   |     |   |   |   |                                                                                                                                                |
| <b>SERIES</b>                  |   |   |   |   |     |   |   |   |                                                                                                                                                |
| 6 = Enclosed Burners           |   |   |   |   |     |   |   |   |                                                                                                                                                |

## UNIT DIMENSIONS



### MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS FOR ALL UNITS

|                            |     |
|----------------------------|-----|
| REAR                       | 0   |
| FRONT                      | 3"  |
| 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             | 6"  |

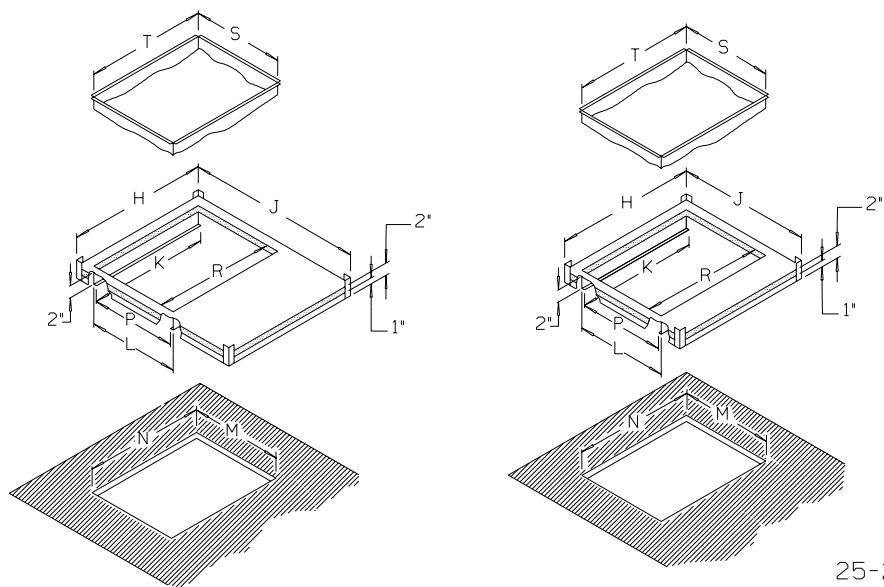
| Unit<br>Dimensions | Cabinet |                                |                                | Electrical Connections        |                               |                               |                               |                                 |                                |                                 |                                | Supply                         |                                | Gas Connections               |                                 |                                |
|--------------------|---------|--------------------------------|--------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|---------------------------------|--------------------------------|---------------------------------|--------------------------------|--------------------------------|--------------------------------|-------------------------------|---------------------------------|--------------------------------|
|                    |         |                                |                                | Top                           |                               | Left Side                     |                               | Low Voltage                     |                                |                                 |                                |                                |                                |                               |                                 |                                |
|                    | A       | B                              | C                              | D                             | E                             | D                             | E                             | Right                           |                                | Left                            |                                | H                              | I                              | J                             | K                               | L                              |
|                    |         |                                |                                |                               |                               |                               |                               | (F)                             | (G)                            | (F)                             | (G)                            |                                |                                |                               |                                 |                                |
| 050 & 075FB        | 40      | 15 <sup>1</sup> / <sub>2</sub> | 28 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>5</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>2</sub> | 3 <sup>15</sup> / <sub>16</sub> | 25 <sup>3</sup> / <sub>4</sub> | 3 <sup>13</sup> / <sub>16</sub> | 24 <sup>3</sup> / <sub>4</sub> | 14                             | 16 <sup>5</sup> / <sub>8</sub> | 9 <sup>1</sup> / <sub>2</sub> | 26 <sup>1</sup> / <sub>16</sub> | 23 <sup>7</sup> / <sub>8</sub> |
| 075HF              | 40      | 19 <sup>1</sup> / <sub>8</sub> | 28 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>5</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>2</sub> | 3 <sup>15</sup> / <sub>16</sub> | 17 <sup>5</sup> / <sub>8</sub> | 3 <sup>13</sup> / <sub>16</sub> | 24 <sup>3</sup> / <sub>4</sub> | 17 <sup>5</sup> / <sub>8</sub> | 16 <sup>5</sup> / <sub>8</sub> | 9 <sup>1</sup> / <sub>2</sub> | 26 <sup>1</sup> / <sub>16</sub> | 23 <sup>7</sup> / <sub>8</sub> |
| 100GF/KF           | 40      | 19 <sup>1</sup> / <sub>8</sub> | 28 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>5</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>2</sub> | 3 <sup>15</sup> / <sub>16</sub> | 17 <sup>5</sup> / <sub>8</sub> | 3 <sup>13</sup> / <sub>16</sub> | 25 <sup>3</sup> / <sub>4</sub> | 17 <sup>5</sup> / <sub>8</sub> | 16 <sup>5</sup> / <sub>8</sub> | 9 <sup>1</sup> / <sub>2</sub> | 26 <sup>1</sup> / <sub>16</sub> | 23 <sup>7</sup> / <sub>8</sub> |
| 125KJ              | 40      | 22 <sup>3</sup> / <sub>4</sub> | 28 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>1</sup> / <sub>2</sub> | 1 <sup>5</sup> / <sub>8</sub> | 1 <sup>1</sup> / <sub>2</sub> | 3 <sup>15</sup> / <sub>16</sub> | 21 <sup>1</sup> / <sub>4</sub> | 3 <sup>13</sup> / <sub>16</sub> | 25 <sup>3</sup> / <sub>4</sub> | 21 <sup>1</sup> / <sub>4</sub> | 16 <sup>5</sup> / <sub>8</sub> | 9 <sup>1</sup> / <sub>2</sub> | 26 <sup>1</sup> / <sub>16</sub> | 23 <sup>7</sup> / <sub>8</sub> |

| Unit Dimensions | Return                         |                                | Flue                           |                               |
|-----------------|--------------------------------|--------------------------------|--------------------------------|-------------------------------|
|                 | M                              | N                              | P                              | R                             |
| 050 & 075FB     | 14                             | 18 <sup>1</sup> / <sub>2</sub> | 3 <sup>7</sup> / <sub>8</sub>  | 5 <sup>1</sup> / <sub>4</sub> |
| 075HF           | 17 <sup>5</sup> / <sub>8</sub> | 18 <sup>1</sup> / <sub>2</sub> | 3 <sup>7</sup> / <sub>8</sub>  | 5 <sup>1</sup> / <sub>4</sub> |
| 100GF/KF        | 17 <sup>5</sup> / <sub>8</sub> | 18 <sup>1</sup> / <sub>2</sub> | 5 <sup>5</sup> / <sub>16</sub> | 5 <sup>1</sup> / <sub>4</sub> |
| 125KJ           | 21 <sup>1</sup> / <sub>4</sub> | 18 <sup>1</sup> / <sub>2</sub> | 7 <sup>1</sup> / <sub>2</sub>  | 5 <sup>1</sup> / <sub>4</sub> |

ALL DIMENSIONS IN INCHES

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

## SUBBASE DIMENSIONS



25-20-36

| Use for  | Subbase Model Number | H                                | J                               | K                                | L  | M                              | N                              | P  | R                              | S  | T                              |
|----------|----------------------|----------------------------------|---------------------------------|----------------------------------|----|--------------------------------|--------------------------------|----|--------------------------------|----|--------------------------------|
| Furnace  | NAHH001SB (8G01010)  | 15 <sup>11</sup> / <sub>16</sub> | 28 <sup>3</sup> / <sub>4</sub>  | 14 <sup>9</sup> / <sub>16</sub>  | 16 | 16 <sup>1</sup> / <sub>4</sub> | 14 <sup>5</sup> / <sub>8</sub> | 15 | 13 <sup>1</sup> / <sub>2</sub> | 15 | 13 <sup>1</sup> / <sub>2</sub> |
|          | NAHH002SB (8G01011)  | 19 <sup>1</sup> / <sub>4</sub>   |                                 | 18 <sup>3</sup> / <sub>16</sub>  |    |                                | 18 <sup>1</sup> / <sub>4</sub> |    | 17 <sup>1</sup> / <sub>8</sub> |    | 17 <sup>1</sup> / <sub>8</sub> |
|          | NAHH003SB (8G01012)  | 23                               |                                 | 21 <sup>13</sup> / <sub>16</sub> |    |                                | 21 <sup>7</sup> / <sub>8</sub> |    | 19 <sup>3</sup> / <sub>4</sub> |    | 19 <sup>3</sup> / <sub>4</sub> |
| Coil Box | NAHH004SB (8G01006)  | 15 <sup>11</sup> / <sub>16</sub> | 20 <sup>9</sup> / <sub>16</sub> | 14 <sup>9</sup> / <sub>16</sub>  |    |                                | 14 <sup>5</sup> / <sub>8</sub> |    | 13 <sup>1</sup> / <sub>2</sub> |    | 13 <sup>1</sup> / <sub>2</sub> |
|          | NAHH005SB (8G01007)  | 19 <sup>1</sup> / <sub>2</sub>   |                                 | 18 <sup>3</sup> / <sub>16</sub>  |    |                                | 18 <sup>1</sup> / <sub>4</sub> |    | 17 <sup>1</sup> / <sub>8</sub> |    | 17 <sup>1</sup> / <sub>8</sub> |
|          | NAHH006SB (8G01008)  | 23                               |                                 | 21 <sup>13</sup> / <sub>16</sub> |    |                                | 21 <sup>7</sup> / <sub>8</sub> |    | 19 <sup>3</sup> / <sub>4</sub> |    | 19 <sup>3</sup> / <sub>4</sub> |

ALL DIMENSIONS IN INCHES

## ACCESSORIES

| Model Number         | Natural Gas To LP Kit | LP High Alt. Kit | Twinning Kit | High Alt. Natural Gas Kit | LP To Natural Gas Kit | LP Low Pressure Kit |
|----------------------|-----------------------|------------------|--------------|---------------------------|-----------------------|---------------------|
| NDN6050FB & 075FB    | NAHL002LP or 1160991* | 1160992*         | NAHA003WK    | 1160993*                  | NAHF002NG 1009510*    | 1009522*            |
| NDN6075HF & 100GF/KF |                       |                  |              |                           |                       |                     |
| NDN6125KJ            |                       |                  |              |                           |                       |                     |

\* Order Part # From AMO Service Parts

## COMBUSTIBLE FLOOR SUBBASES FOR CASED COIL APPLICATION

| Model Number      | Use With                                                     |
|-------------------|--------------------------------------------------------------|
| NAHH004SB 8G01006 | Subbase Furnace w/15 <sup>1</sup> / <sub>2</sub> "cased coil |
| NAHH005SB 8G01007 | Subbase Furnace w/19 <sup>1</sup> / <sub>4</sub> "cased coil |
| NAHH006SB 8G01008 | Subbase Furnace w/22 <sup>3</sup> / <sub>4</sub> "cased coil |

## COMBUSTIBLE FLOOR SUBBASES FOR FURNACE ONLY APPLICATION

| Model Number        | Use With             |
|---------------------|----------------------|
| NAHH001SB (8G01010) | NDN6050FB & 075FB    |
| NAHH002SB (8G01011) | NDN6075HF & 100GF/KF |
| NAHH003SB (8G01012) | NDN6125KJ            |