Kenmore

# T8DNL

## Deluxe 80 Single Stage Downflow

### Flexibility

- 40″ high for more noise reduction and ease of installation.
- Factory shipped for natural gas, with LP Gas conversion kits available.
- Dedicated downflow installation.
- Category I venting.
- Common venting with water heater.

### Service

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

### Quality

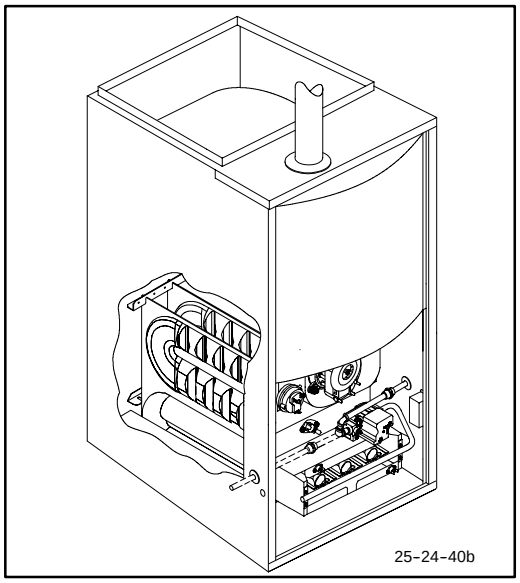
- RPJ III Aluminized steel heat exchanger.
- 20 year limited warranty on heat exchangers and 5 years on parts.
- High temperature limit control prevents overheating.
- Hot surface pilot ignition device.
- Flame roll-out sensors standard.
- Louvered doors.
- One piece prepainted steel cabinet.
- Filter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

### 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.

**DOWNFLOW (NATURAL GAS)**

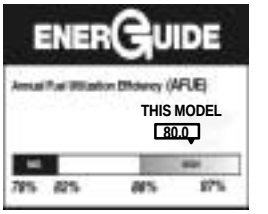
| Model Number | Heat Exchangers # | Dimensions H x W x D (In.) | Price |
|---|---|---|---|
| T8DNL050B12A | 20 year | 40 x 15 1/2 x 29 | |
| T8DNL075B12A | 20 year | 40 x 15 1/2 x 29 | |
| T8DNL075F16A | 20 year | 40 x 19 1/8 x 29 | |
| T8DNL100F14A | 20 year | 40 x 19 1/8 x 29 | |
| T8DNL100L20A | 20 year | 40 x 24 1/2 x 29 | |
| T8DNL125L20A | 20 year | 40 x 24 1/2 x 29 | |

# 20 YEAR LIFETIME WARRANTY

**PERFORMANCE DATA HEATING**

| Model Number | Input (MBTUH) | Efficiency AFUE + | Cooling Cap. @ .5″ W.C. |
|---|---|---|---|
| *8DNL050B12A | 50,000 | 80% | 1.5 - 3.0 TON |
| *8DNL075B12A | 75,000 | 80% | 1.5 - 3.0 TON |
| *8DNL075F16A | 75,000 | 80% | 2.5 - 4.0 TON |
| *8DNL100F14A | 100,000 | 80% | 3.5 - 4.0 TON |
| *8DNL100L20A | 100,000 | 80% | 3.5 - 5.0 TON |
| *8DNL125L20A | 125,000 | 80% | 3.5 - 5.0 TON |

* Denotes Brand




441 63 2312 05 (10/2004)

## FURNACE SPECIFICATIONS MULTI-POSITION

| Model Number NATURAL GAS | *8DNL | | | | | |
|---|---|---|---|---|---|---|
| | 050B12 | 075B12 | 075F16 | 100F14 | 100L20 | 125L20 |
| 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 | 101,000 |
| AFUE % (ICS) + | 80% | 80% | 80% | 80% | 80% | 80% |
| TEMP. RISE (deg. F) | 35-65 | 35-65 | 35-65 | 35-65 | 30-60 | 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. | 9.3 | 9.4 | 12.4 | 10.0 | 11.5 | 11.5 |
| 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″ | 5″ |
| COOLING CAP. | 3.0 | 3.0 | 4.0 | 3.5 | 5.0 | 5.0 |
| SHIPPING WEIGHT (LBS.) | 142 | 145 | 160 | 162 | 176 | 184 |
| 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 | 24 1/2 x 29 | 24 1/2 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 *8DNL FURNACES |
| **GAS CONVERSION KITS** | | |
| NAHL002LP 1160991 + | Natural gas to LP (propane) conversion Kit. Allows field conversion to LP (propane) gas. | ALL *8DNL FURNACES |
| NAHF002NG 1009510 + | LP (Propane) to natural gas conversion kit. Allows field conversion to natural gas. (Single Stage) | ALL *8DNL FURNACES |
| **FILTER KITS** | | |
| NAHA001FF | External filter frame. 16″ x 25″ | 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) |
| NAHA004FF | Bottom return filter frame kit 25″ x 25″. | *8DNL100-125L |
| NAHA001TK | Duct Standoff Filter Kit. To adapt 20″ x 25″ filter for single side return. | 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 | *8DNL050-075B |
| NAHH002SB | Subbase Furnace ONLY: All 19 1/4″ wide furnace models | *8DNL075-100F |
| NAHH010SB | Subbase Furnace ONLY: All 24 1/2″ wide furnace models | *8DNL100-125L |
| NAHH004SB | Subbase Furnace w/15 1/2″ cased coil | *8DNL050-075B |
| NAHH005SB | Subbase Furnace w/19 1/4″ cased coil | *8DNL075-100F |
| NAHH009SB | Subbase Furnace w/24 1/2″ cased coil | *8DNL100-125L |
| **WARING LABEL REPLACEMENT KIT** | | |
| NAHL001WL | To replace Warning Labels, Operating Instructions & Wiring Labels on Blower Door when needed | *8DNL |

+ Fast part number

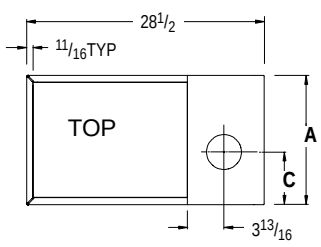
## BLOWER PERFORMANCE MULTI-POSITION

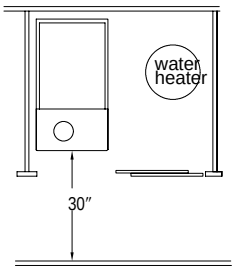
| Model Number | *8DNL | | | | | |
|---|---|---|---|---|---|---|
| | 050B12 | 075B12 | 075F16 | 100F14 | 100L20 | 125L20 |
| BLOWER TYPE AND SIZE | 11x8 | 11x8 | 11 x 10 | 11 x 10 | 11 x 10 | 11x10 |
| MOTOR H.P. (TYPE) | 1/2/PSC | 1/3/PSC | 1/2/PSC | 1/2/PSC | 3/4/PSC | 3/4/PSC |
| MOTOR SPEEDS | 4 | 4 | 4 | 4 | 4 | 4 |

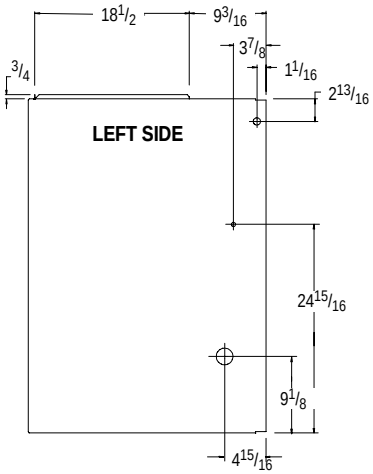
## AIRFLOW DATA

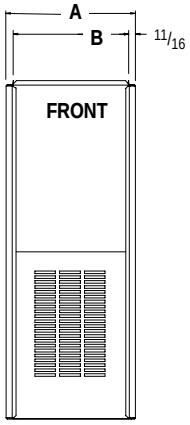
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| .10 ESP IN. W.C. | LOW | 702 | 634 | 648 | 756 | 1798 | 1936 |
| | MEDIUM LOW | 963 | 728 | 900 | 1012 | 2024 | 2165 |
| | MEDIUM HIGH | 1260 | 975 | 1285 | 1372 | 2212 | 2319 |
| | HIGH | 1537 | 1353 | 1789 | 1881 | 2375 | --- |
| .20 ESP IN. W.C. | LOW | 663 | 584 | 638 | 671 | 1754 | 1891 |
| | MEDIUM LOW | 904 | 690 | 908 | 950 | 1960 | 2097 |
| | MEDIUM HIGH | 1222 | 955 | 1307 | 1323 | 2147 | 2283 |
| | HIGH | 1477 | 1330 | 1768 | 1803 | 2290 | --- |
| .30 ESP IN. W.C. | LOW | 624 | 533 | 628 | 585 | 1709 | 1845 |
| | MEDIUM LOW | 845 | 653 | 916 | 888 | 1896 | 2028 |
| | MEDIUM HIGH | 1183 | 936 | 1328 | 1273 | 2081 | 2246 |
| | HIGH | 1416 | 1307 | 1747 | 1724 | 2205 | 2334 |
| .40 ESP IN. W.C. | LOW | 567 | 494 | 620 | 538 | 1662 | 1787 |
| | MEDIUM LOW | 803 | 606 | 903 | 834 | 1835 | 1965 |
| | MEDIUM HIGH | 1136 | 898 | 1319 | 1225 | 2002 | 2154 |
| | HIGH | 1362 | 1266 | 1714 | 1665 | 2116 | 2253 |
| .50 ESP IN. W.C. | LOW | 510 | 454 | 611 | 491 | 1614 | 1728 |
| | MEDIUM LOW | 760 | 559 | 889 | 780 | 1774 | 1902 |
| | MEDIUM HIGH | 1088 | 861 | 1309 | 1176 | 1922 | 2061 |
| | HIGH | 1308 | 1225 | 1680 | 1606 | 2026 | 2172 |
| .60 ESP IN. W.C. | LOW | 461 | 413 | 584 | 439 | 1542 | 1632 |
| | MEDIUM LOW | 689 | 516 | 866 | 739 | 1694 | 1799 |
| | MEDIUM HIGH | 1003 | 799 | 1275 | 1106 | 1837 | 1959 |
| | HIGH | 1210 | 1156 | 1634 | 1544 | 1943 | 2062 |
| .70 ESP IN. W.C. | LOW | 412 | 373 | 557 | 387 | 1470 | 1536 |
| | MEDIUM LOW | 617 | 473 | 843 | 697 | 1614 | 1695 |
| | MEDIUM HIGH | 917 | 737 | 1240 | 1035 | 1752 | 1856 |
| | HIGH | 1111 | 1087 | 1588 | 1481 | 1860 | 1952 |
| .80 ESP IN. W.C. | LOW | 361 | 314 | 521 | 321 | 1376 | 1434 |
| | MEDIUM LOW | 543 | 433 | 796 | 629 | 1521 | 1593 |
| | MEDIUM HIGH | 791 | 671 | 1181 | 954 | 1650 | 1728 |
| | HIGH | 1030 | 985 | 1520 | 1381 | 1753 | 1820 |
| .90 ESP IN. W.C. | LOW | 310 | 255 | 485 | 255 | 1282 | 1331 |
| | MEDIUM LOW | 468 | 392 | 748 | 561 | 1428 | 1490 |
| | MEDIUM HIGH | 664 | 605 | 1122 | 873 | 1548 | 1600 |
| | HIGH | 948 | 884 | 1452 | 1281 | 1645 | 1687 |
| 1.00 ESP IN. W.C. | LOW | 249 | 232 | 441 | 210 | 1065 | 1215 |
| | MEDIUM LOW | 436 | 294 | 680 | 444 | 1263 | 1352 |
| | MEDIUM HIGH | 529 | 529 | 1041 | 767 | 1407 | 1424 |
| | HIGH | 808 | 764 | 1374 | 1132 | 1508 | 1537 |

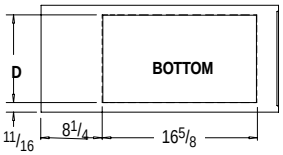
## UNIT DIMENSIONS



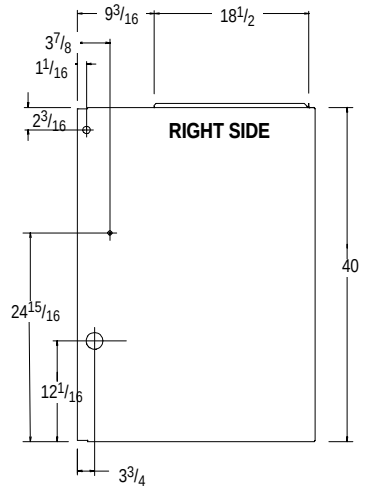




Drawing is representative, but some models may vary

**ALL DIMENSIONS IN INCHES (millimeters)**

| 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.




25–24–15a–1

### DIMENSIONAL INFORMATION

| Unit Capacity | Cabinet | | Top | Bottom |
|---|---|---|---|---|
| | A | B | C | D |
| *8DNL050B12<br>*8DNL075B12 | 15 1/2 | 14 | 5 5/16 | 14 1/8 |
| *8DNL075F16<br>*8DNL100F14 | 19 1/8 | 17 5/8 | 7 3/4 | 17 11/16 |
| *8DNL100L20<br>*8DNL125L20 | 24 1/2 | 23 | 10 7/16 | 23 1/8 |

* Dentoes Brand

**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 top return ONLY.

Return air through back of unit is NOT allowed.

## MODEL NUMBER IDENTIFICATION GUIDE

| * | 8 | DN | 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**