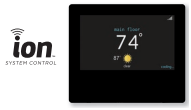
# F80CSU
# 80% AFUE, Ultra-Low NOx, Variable-Speed, Communicating, Single Stage Gas Furnace

TEMPSTAR®
Heating and Cooling Products

# Product Specifications




**SYST0101CW Recommended (sold separately)**

A210058

## ⚠ 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.

DESIGN CERTIFIED ®

AHRI CERTIFIED™ C www.ahridirectory.org

Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to www.ahridirectory.org .

Certified System ™ ISO 9001 Quality

A200115

## EASIER TO SELL

- 80% AFUE
- Ultra-low NOx emissions - meets the nitrogen oxides (NOx) emission limit of 14 nanograms/joule for the South Coast Air Quality Management District and San Joaquin Valley Air Pollution Control District in California.
- Four-position furnace: Upflow, Horizontal Right, Horizontal Left, Downflow (6 different vent options)
- Supports two-stage and multi stage cooling units
- Dehumidification feature in cooling
- 24 VAC humidifier terminal, electric air cleaner terminal
- Category I venting
- Cabinet air leakage less than 2.0% at 1.0 in. W.C. and cabinet air leakage less than 1.4% at 0.5 in. W.C. when tested in accordance with ASHRAE Standard 193

## TOUGHER

- Variable speed ECM blower
- Single-stage gas valve
- Stainless steel, tubular heat exchanger
- Pilot free, hot surface ignition
- High temperature limit control designed to prevent overheating
- Blocked vent switch

## QUIETER

- Pre-mix burner
- Variable speed inducer motor

## EASIER TO INSTALL AND SERVICE

- Approved for installations up to 5,400 feet
- 33 1/4" (843.9mm) high, for ease of installation
- Quarter turn knobs for easy door removal and secure attachment
- Factory shipped for natural gas, not convertible to propane
- Flexible installation: Upflow, Downflow, Horizontal
- Two position vent elbow capability
- Common venting with other Category I appliances
- Self diagnostics

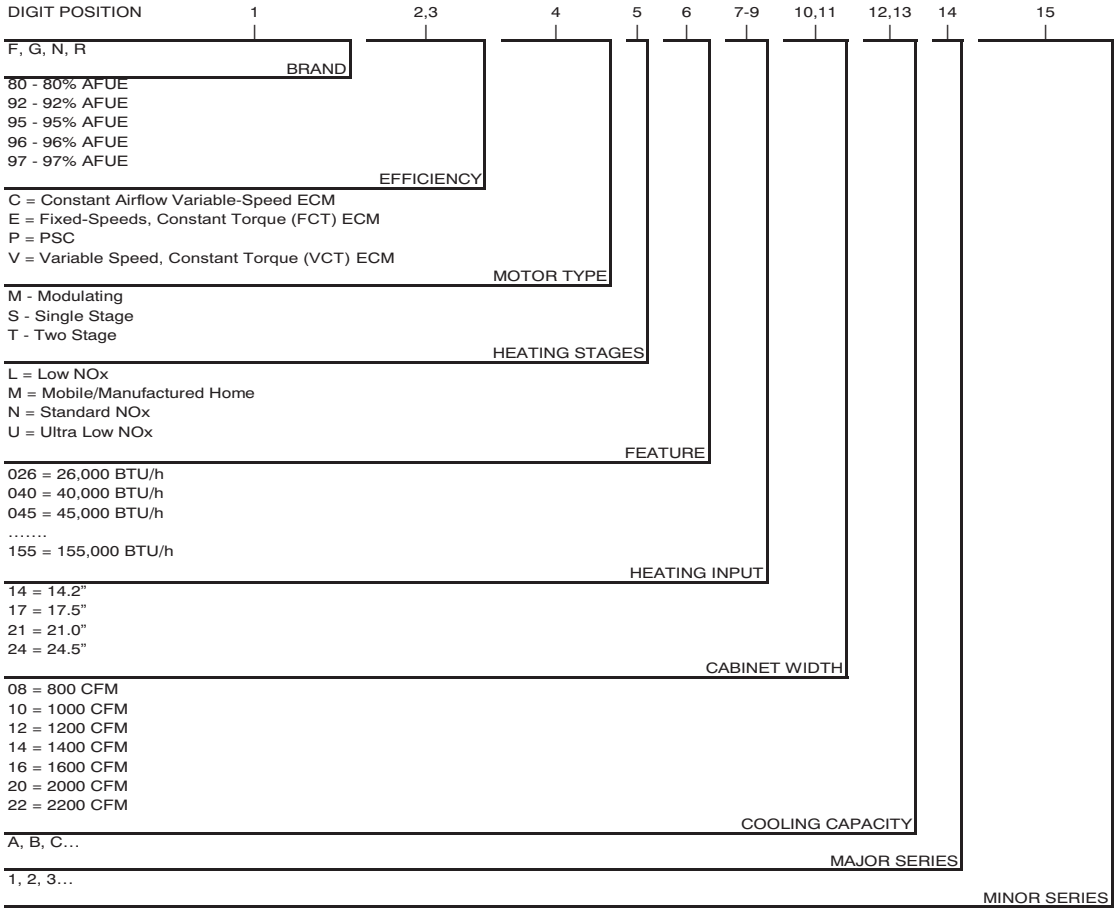
## LIMITED WARRANTY *

- 5 year No Hassle Replacement™ limited warranty
- Lifetime heat exchanger limited warranty with timely registration
- 5 year parts limited warranty
  - With timely registration, an additional 5 year parts limited warranty

*For residential applications only. See warranty certificate for complete details and restrictions, including warranty coverage for other applications.

| Model | Input (BTUH) | Efficiency AFUE | Cooling Capacity CFM range @ .5 in. w.c. (125 Pa) | Dimensions H x W x D Inches (Millimeters) | Shipping Wt. Lbs (Kg) |
|---|---|---|---|---|---|
| F80CSU0401712A | 40,000 | 80% | 505 - 1490 | 33-1/4 x 17-1/2 x 29 (844 x 445 x 737) | 119 (54) |
| F80CSU0601716A | 60,000 | 80% | 535 - 1480 | 33-1/4 x 17-1/2 x 29 (844 x 445 x 737) | 124 (56) |
| F80CSU0802120A | 80,000 | 80% | 990 - 2390 | 33-1/4 x 21 x 29 (844 x 533 x 737) | 144 (65) |
| F80CSU1002120A | 100,000 | 80% | 1130 - 2260 | 33-1/4 x 21 x 29 (844 x 533 x 737) | 154 (70) |

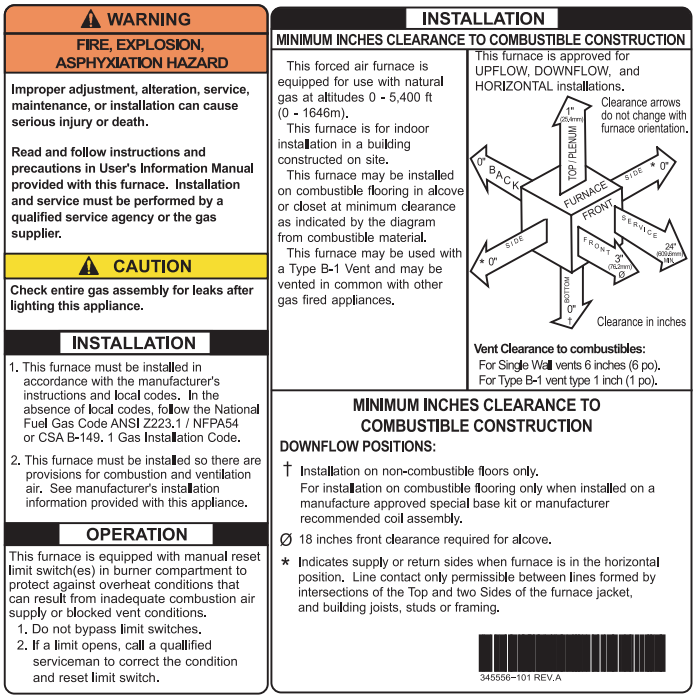
# MODEL NUMBER NOMENCLATURE




A190043

ECM-Electronically Commutated Motor

# MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS FOR ALL UNITS



**WARNING**

**FIRE, EXPLOSION, ASPHYXIATION HAZARD**

**Improper adjustment, alteration, service, maintenance, or installation can cause serious injury or death.**

**Read and follow instructions and precautions in User's Information Manual provided with this furnace. Installation and service must be performed by a qualified service agency or the gas supplier.**

**CAUTION**

**Check entire gas assembly for leaks after lighting this appliance.**

**INSTALLATION**

1. This furnace must be installed in accordance with the manufacturer's instructions and local codes. In the absence of local codes, follow the National Fuel Gas Code ANSI Z223.1 / NFPA54 or CSA B-149. 1 Gas Installation Code.
2. This furnace must be installed so there are provisions for combustion and ventilation air. See manufacturer's installation information provided with this appliance.

**OPERATION**

This furnace is equipped with manual reset limit switch(es) in burner compartment to protect against overheat conditions that can result from inadequate combustion air supply or blocked vent conditions.

1. Do not bypass limit switches.
2. If a limit opens, call a quallified serviceman to correct the condition and reset limit switch.

**INSTALLATION**

**MINIMUM INCHES CLEARANCE TO COMBUSTIBLE CONSTRUCTION**

This forced air furnace is equipped for use with natural gas at altitudes 0 - 5,400 ft (0 - 1646m).

This furnace is for indoor installation in a building constructed on site.

This furnace may be installed on combustible flooring in alcove or closet at minimum clearance as indicated by the diagram from combustible material.

This furnace may be used with a Type B-1 Vent and may be vented in common with other gas fired appliances.

This furnace is approved for UPFLOW, DOWNFLOW, and HORIZONTAL installations.



**Vent Clearance to combustibles:**
For Single Wall vents 6 inches (6 po).
For Type B-1 vent type 1 inch (1 po).

**MINIMUM INCHES CLEARANCE TO COMBUSTIBLE CONSTRUCTION**

**DOWNFLOW POSITIONS:**

† Installation on non-combustible floors only.
For installation on combustible flooring only when installed on a manufacture approved special base kit or manufacturer recommended coil assembly.

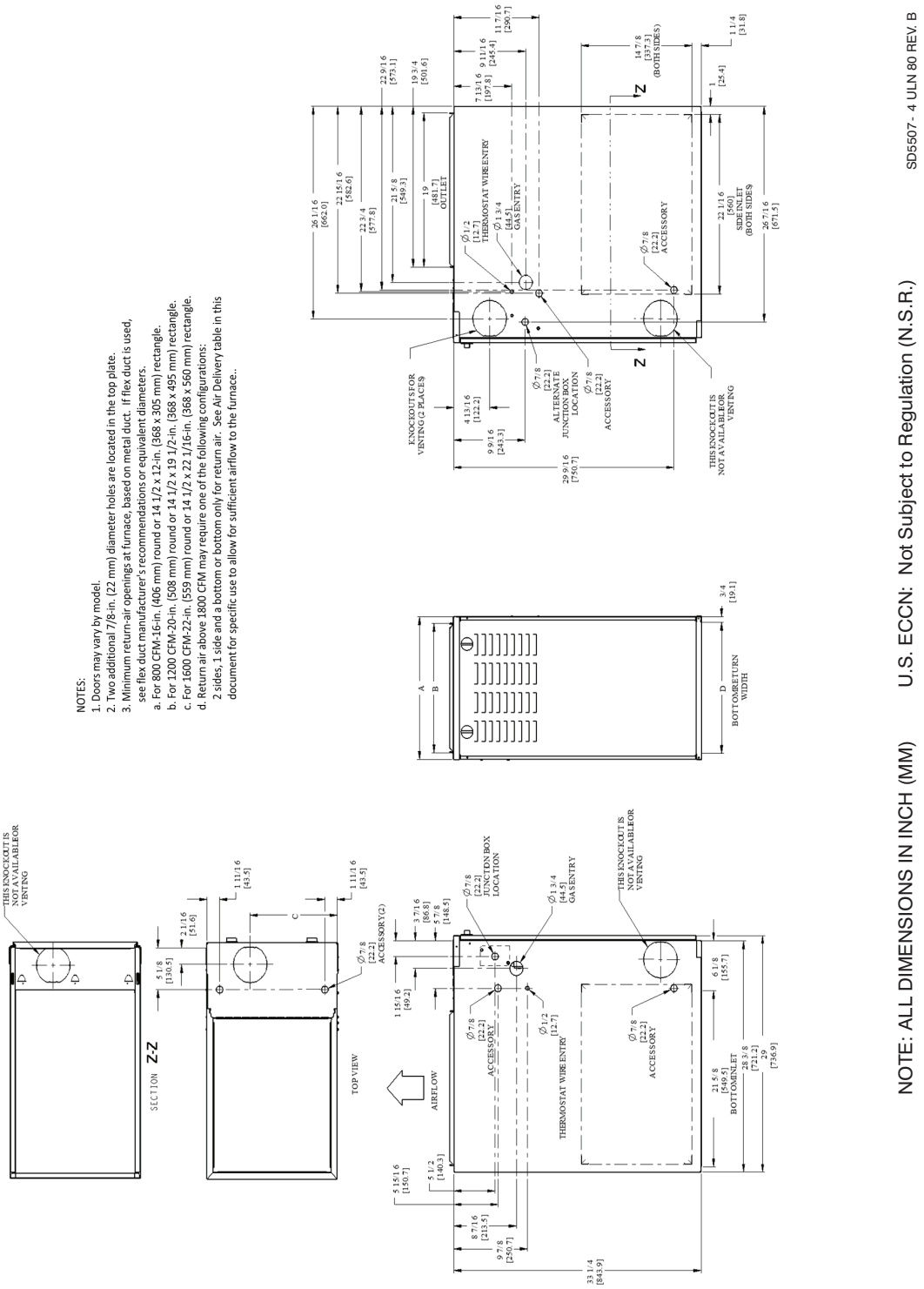
Ø 18 inches front clearance required for alcove.

* Indicates supply or return sides when furnace is in the horizontal position. Line contact only permissible between lines formed by intersections of the Top and two Sides of the furnace jacket, and building joists, studs or framing.

345556-101 REV.A

A190402

# UNIT DIMENSIONS




A190257

| FURNACE SIZE | A | B | C | D | VENT CONNECTION SIZE IN. (MM) | SHIP WT LB (KG) |
|---|---|---|---|---|---|---|
| | CABINET WIDTH IN (MM) | OUTLET WIDTH IN (MM) | TOP OUTLET IN (MM) | BOTTOM INLET WIDTH IN (MM) | | |
| F80CSU0401712 | 17-1/2 (445) | 15-7/8 (403) | 11-9/16 (294) | 16 (406) | 4 (102) | 119 (54) |
| F80CSU0601716 | 17-1/2 (445) | 15-7/8 (403) | 11-9/16 (294) | 16 (406) | 4 (102) | 124 (56) |
| F80CSU0802120 | 21 (533) | 19-3/8 (492) | 13-5/16 (338) | 19-1/2 (495) | 4 (102) | 144 (65) |
| F80CSU1002120 | 21 (533) | 19-3/8 (492) | 13-5/16 (338) | 19-1/2 (495) | 4 (102) | 154 (70) |

# PRODUCT SPECIFICATIONS

| FURNACE SIZE | | 0401712 | 0601716 | 0802120 | 1002122 |
|---|---|---|---|---|---|
| **RATINGS AND PERFORMANCE** | | | | | |
| Input Btuh* | | 40,000 | 60,000 | 80,000 | 100,000 |
| Output Capacity (Btuh)† | | 31,000 | 48,000 | 64,000 | 81,000 |
| AFUE† | | 80.0 | 80.0 | 80.0 | 80.0 |
| Certified Temperature Rise Range - °F (°C) | | 25 - 55 (14 - 31) | 30 - 60 (17 - 33) | 25 - 55 (14 - 31) | 25 - 55 (14 - 31) |
| External Static Pressure (in. w.c.)‡ | Heating | .10 | .12 | .15 | .20 |
| | Cooling | .50 | .50 | .50 | .50 |
| Airflow Delivery @ ESP Listed Above (CFM) | Heating | 760 | 930 | 1500 | 1750 |
| | Cooling | 505-1490 | 535-1480 | 990-2390 | 1130-2260 |
| **ELECTRICAL** | | | | | |
| Unit Volts-Hertz-Phase | | 115-60-1 | | | |
| Operating Voltage Range | Min-Max | 104-127 | | | |
| Maximum Unit Amps | | 11.4 | 11.4 | 17.8 | 17.8 |
| Unit Ampacity | | 12.6 | 12.6 | 18.9 | 18.9 |
| Maximum Wire Length - Measure one way in Ft | | 29 | 29 | 30 | 30 |
| Minimum Wire Size | | 14 | 14 | 12 | 12 |
| Maximum Fuse or Ckt Bkr Size (Amps)** | | 15 | 15 | 20 | 20 |
| Transformer (24v) | | 40 VA | | | |
| External Control Power Available | Heating | 12 VA | | | |
| | Cooling | 35 VA | | | |
| Air Conditioning Blower Relay | | Standard | | | |
| **CONTROLS** | | | | | |
| Limit Control | | SPST | | | |
| Heating Blower Control | | Solid-State Time Operation | | | |
| Gas Connection Size | | 1/2-in. NPT | | | |
| **GAS CONTROLS** | | | | | |
| Gas Valve (Redundant) | Mfr. | White Rodgers | | | |
| | Min. inlet pressure (In. W.C.) | 3.5 Natural Gas | | | |
| | Max. inlet pressure (In. W.C.) | 13.6 Natural Gas | | | |
| Ignition Device | | Hot Surface Ignitor | | | |
| Factory-installed orifice | | 3.35mm | #18 | #10 | #6 |
| **BLOWER DATA** | | | | | |
| Direct-Drive Motor HP | | 1/2 | 1/2 | 1 | 1 |
| Motor Full Load Amps | | 7.7 | 7.7 | 12.8 | 12.8 |
| Nominal RPM | | 1050 | 1050 | 1050 | 1050 |
| Blower Wheel Diameter x Width - In. (mm) | | 10 x 8 (243 x 203) | 11 x 8 (279 x 203) | 11 x 11 (279 x 279) | 11 x 11 (279 x 279) |

*. Gas input ratings are certified for elevations to 5,400 ft. (1646 M). In USA, for elevations above 2,000 ft. (610 M), reduce ratings 2 percent for each 1,000 ft. (305 M) above sea level. Refer to National Fuel Gas Code NFPA 54/ANSI Z223.1 Table F.4 or furnace installation instructions.
†. Capacity in accordance with U.S. Government DOE test procedures.
‡. DOE minimum External Static Pressure
**. Time-delay type is recommended.
ICS = Isolated Combustion System

# AIR DELIVERY

| AIR DELIVERY - CFM (with filter)* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (SW1-5 and SW4-3 set to OFF, except as indicated. See notes 1 and 2) | | | | | | | | | | | | | |
| **Size: 0401712** | **Clg/CF Switch settings** | | | **External Static Pressure (ESP)** | | | | | | | | | |
| **Clg Switches** | **SW2-3** | **SW2-2** | **SW2-1** | **0.1** | **0.2** | **0.3** | **0.4** | **0.5** | **0.6** | **0.7** | **0.8** | **0.9** | **1.0** |
| Clg Default: | OFF | OFF | OFF | 1275 | 1310 | 1305 | 1315 | 1310 | 1305 | 1305 | 1295 | 1290 | 1270 |
| **CF Switches** | **SW3-3** | **SW3-2** | **SW3-1** | | | | | | | | | | |
| Low-Clg Default: | OFF | OFF | OFF | 1275 | 1310 | 1305 | 1315 | 1310 | 1305 | 1305 | 1295 | 1290 | 1270 |
| | | | | | | | | | | | | | |
| Cooling Airflow (SW2) Low-Cooling Airflow (SW3) | OFF | OFF | ON | 530 | 545 | 545 | 535 | 505 | 495 | 485 | See Note 4 | | |
| | OFF | ON | OFF | 715 | 705 | 730 | 730 | 735 | 735 | 740 | 725 | 720 | 695 |
| | OFF | ON | ON | 870 | 910 | 925 | 925 | 935 | 935 | 925 | 915 | 910 | 900 |
| | ON | OFF | OFF | 1100 | 1090 | 1080 | 1110 | 1120 | 1120 | 1110 | 1110 | 1100 | 1095 |
| | ON | OFF | ON | 1275 | 1310 | 1305 | 1315 | 1310 | 1305 | 1305 | 1295 | 1290 | 1270 |
| | ON | ON | OFF | 1445 | 1480 | 1480 | 1480 | 1475 | 1455 | 1415 | 1375 | 1335 | 1295 |
| | ON | ON | ON | 1445 | 1480 | 1480 | 1480 | 1475 | 1455 | 1415 | 1375 | 1335 | 1295 |
| | Maximum Clg Airflow[2] | | | 1635 | 1605 | 1565 | 1525 | 1490 | 1455 | 1415 | 1375 | 1335 | 1295 |
| **CF Switches** | **SW3-3** | **SW3-2** | **SW3-1** | | | | | | | | | | |
| Cont. Fan Default: | OFF | OFF | OFF | 530 | 545 | 545 | 535 | 505 | 495 | 485 | See Note 4 | | |
| | | | | | | | | | | | | | |
| Continuous Fan Airflow (SW3) | OFF | OFF | ON | 530 | 545 | 545 | 535 | 505 | 495 | 485 | See Note 4 | | |
| | OFF | ON | OFF | 715 | 705 | 730 | 730 | 735 | 735 | 740 | 725 | 720 | 695 |
| | OFF | ON | ON | 870 | 910 | 925 | 925 | 935 | 935 | 925 | 915 | 910 | 900 |
| | ON | OFF | OFF | 1100 | 1090 | 1080 | 1110 | 1120 | 1120 | 1110 | 1110 | 1100 | 1095 |
| | ON | OFF | ON | 1100 | 1090 | 1080 | 1110 | 1120 | 1120 | 1110 | 1110 | 1100 | 1095 |
| | ON | ON | OFF | 1100 | 1090 | 1080 | 1110 | 1120 | 1120 | 1110 | 1110 | 1100 | 1095 |
| | ON | ON | ON | 1100 | 1090 | 1080 | 1110 | 1120 | 1120 | 1110 | 1110 | 1100 | 1095 |
| | | | | | | | | | | | | | |
| Heating (SW1) | Heating Airflow[3] | | | 760 | 765 | 790 | 790 | 800 | 800 | 800 | 790 | 775 | 755 |
| | | | | | | | | | | | | | |
| **Size: 0601716** | **Clg/CF Switch settings** | | | **External Static Pressure (ESP)** | | | | | | | | | |
| **Clg Switches** | **SW2-3** | **SW2-2** | **SW2-1** | **0.1** | **0.2** | **0.3** | **0.4** | **0.5** | **0.6** | **0.7** | **0.8** | **0.9** | **1.0** |
| Clg Default: | OFF | OFF | OFF | 1460 | 1475 | 1500 | 1500 | 1480 | 1440 | 1395 | 1355 | 1310 | 1255 |
| **CF Switches** | **SW3-3** | **SW3-2** | **SW3-1** | | | | | | | | | | |
| Low-Clg Default: | OFF | OFF | OFF | 540 | 565 | 555 | 555 | 535 | See Note 4 | | | | |
| | | | | | | | | | | | | | |
| Cooling Airflow (SW2) Low-Cooling Airflow (SW3) | OFF | OFF | ON | 540 | 565 | 555 | 555 | 535 | See Note 4 | | | | |
| | OFF | ON | OFF | 715 | 735 | 745 | 760 | 765 | See Note 4 | | | | |
| | OFF | ON | ON | 865 | 910 | 935 | 950 | 965 | 955 | 950 | 955 | 955 | 945 |
| | ON | OFF | OFF | 1120 | 1125 | 1130 | 1145 | 1160 | 1165 | 1165 | 1160 | 1150 | 1150 |
| | ON | OFF | ON | 1275 | 1295 | 1315 | 1335 | 1340 | 1345 | 1340 | 1335 | 1310 | 1255 |
| | ON | ON | OFF | 1460 | 1475 | 1500 | 1500 | 1480 | 1440 | 1395 | 1355 | 1310 | 1255 |
| | ON | ON | ON | 1460 | 1475 | 1500 | 1500 | 1480 | 1440 | 1395 | 1355 | 1310 | 1255 |
| | Maximum Clg Airflow2 | | | 1620 | 1595 | 1565 | 1525 | 1480 | 1440 | 1395 | 1355 | 1310 | 1255 |
| **CF Switches** | **SW3-3** | **SW3-2** | **SW3-1** | | | | | | | | | | |
| Cont. Fan Default: | OFF | OFF | OFF | 540 | 565 | 555 | 555 | 535 | See Note 4 | | | | |
| | | | | | | | | | | | | | |
| Continuous Fan Airflow (SW3) | OFF | OFF | ON | 540 | 565 | 555 | 555 | 535 | See Note 4 | | | | |
| | OFF | ON | OFF | 715 | 735 | 745 | 760 | 765 | See Note 4 | | | | |
| | OFF | ON | ON | 865 | 910 | 935 | 950 | 965 | 955 | 950 | 955 | 955 | 945 |
| | ON | OFF | OFF | 1120 | 1125 | 1130 | 1145 | 1160 | 1165 | 1165 | 1160 | 1150 | 1150 |
| | ON | OFF | ON | 1275 | 1295 | 1315 | 1335 | 1340 | 1345 | 1340 | 1335 | 1310 | 1255 |
| | ON | ON | OFF | 1460 | 1475 | 1500 | 1500 | 1480 | 1440 | 1395 | 1355 | 1310 | 1255 |
| | ON | ON | ON | 1460 | 1475 | 1500 | 1500 | 1480 | 1440 | 1395 | 1355 | 1310 | 1255 |
| | | | | | | | | | | | | | |
| Heating (SW1) | Heating Airflow[3] | | | 960 | 995 | 1015 | 1020 | 1030 | 1050 | 1055 | 1060 | 1055 | 1045 |

# AIR DELIVERY (continued)

| AIR DELIVERY - CFM CONTINUED (with filter)* | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (SW1-5 and SW4-3 set to OFF, except as indicated. See notes 1 and 2) | | | | | | | | | | | | | |
| **Size: 0802120** | **Clg/CF Switch settings** | | | **External Static Pressure (ESP)** | | | | | | | | | |
| **Clg Switches** | **SW2-3** | **SW2-2** | **SW2-1** | **0.1** | **0.2** | **0.3** | **0.4** | **0.5** | **0.6** | **0.7** | **0.8** | **0.9** | **1.0** |
| Clg Default: | OFF | OFF | OFF | 1905 | 1920 | 1935 | 1945 | 1950 | 1945 | 1935 | 1930 | 1920 | 1905 |
| **CF Switches** | **SW3-3** | **SW3-2** | **SW3-1** | | | | | | | | | | |
| Low-Clg Default: | OFF | OFF | OFF | 1905 | 1920 | 1935 | 1945 | 1950 | 1945 | 1935 | 1930 | 1920 | 1905 |
| | | | | | | | | | | | | | |
| Cooling Airflow (SW2) Low-Cooling Airflow (SW3) | OFF | OFF | ON | 785 | 765 | 775 | See Note 4 | | | | | | |
| | OFF | ON | OFF | 930 | 975 | 990 | 985 | 990 | 1000 | 985 | See Note 4 | | |
| | OFF | ON | ON | 1130 | 1155 | 1150 | 1175 | 1190 | 1195 | 1215 | 1215 | 1215 | 1215 |
| | ON | OFF | OFF | 1345 | 1345 | 1350 | 1370 | 1370 | 1365 | 1365 | 1355 | 1345 | 1335 |
| | ON | OFF | ON | 1550 | 1560 | 1580 | 1575 | 1580 | 1565 | 1555 | 1540 | 1535 | 1525 |
| | ON | ON | OFF | 1905 | 1920 | 1935 | 1945 | 1950 | 1945 | 1935 | 1930 | 1920 | 1905 |
| | ON | ON | ON | 2300 | 2315 | 2320 | 2325 | 2315 | 2305 | 2280 | 2240 | 2245 | 2215 |
| | Maximum Clg Airflow[2] | | | 2405 | 2410 | 2415 | 2400 | 2390 | 2360 | 2305 | 2275 | 2255 | 2215 |
| **CF Switches** | **SW3-3** | **SW3-2** | **SW3-1** | | | | | | | | | | |
| Cont. Fan Default: | OFF | OFF | OFF | 785 | 765 | 775 | See Note 4 | | | | | | |
| | | | | | | | | | | | | | |
| Continuous Fan Airflow (SW3) | OFF | OFF | ON | 785 | 765 | 775 | See Note 4 | | | | | | |
| | OFF | ON | OFF | 930 | 975 | 990 | 985 | 990 | 1000 | 985 | See Note 4 | | |
| | OFF | ON | ON | 1130 | 1155 | 1150 | 1175 | 1190 | 1195 | 1215 | 1215 | 1215 | 1215 |
| | ON | OFF | OFF | 1130 | 1155 | 1150 | 1175 | 1190 | 1195 | 1215 | 1215 | 1215 | 1215 |
| | ON | OFF | ON | 1130 | 1155 | 1150 | 1175 | 1190 | 1195 | 1215 | 1215 | 1215 | 1215 |
| | ON | ON | OFF | 1130 | 1155 | 1150 | 1175 | 1190 | 1195 | 1215 | 1215 | 1215 | 1215 |
| | ON | ON | ON | 1130 | 1155 | 1150 | 1175 | 1190 | 1195 | 1215 | 1215 | 1215 | 1215 |
| | | | | | | | | | | | | | |
| Heating (SW1) | Heating Airflow[3] | | | 1550 | 1570 | 1585 | 1580 | 1565 | 1555 | 1550 | 1545 | 1545 | 1535 |
| | | | | | | | | | | | | | |
| **Size: 1002120** | **Clg/CF Switch settings** | | | **External Static Pressure (ESP)** | | | | | | | | | |
| **Clg Switches** | **SW2-3** | **SW2-2** | **SW2-1** | **0.1** | **0.2** | **0.3** | **0.4** | **0.5** | **0.6** | **0.7** | **0.8** | **0.9** | **1.0** |
| Clg Default: | OFF | OFF | OFF | 1785 | 1800 | 1805 | 1830 | 1830 | 1845 | 1855 | 1860 | 1850 | 1840 |
| **CF Switches** | **SW3-3** | **SW3-2** | **SW3-1** | | | | | | | | | | |
| Low-Clg Default: | OFF | OFF | OFF | 1785 | 1800 | 1805 | 1830 | 1830 | 1845 | 1855 | 1860 | 1850 | 1840 |
| | | | | | | | | | | | | | |
| Cooling Airflow (SW2) Low-Cooling Airflow (SW3) | OFF | OFF | ON | 635 | 630 | See Note 4 | | | | | | | |
| | OFF | ON | OFF | 785 | 820 | 865 | See Note 4 | | | | | | |
| | OFF | ON | ON | 1040 | 1045 | 1070 | 1085 | 1130 | See Note 4 | | | | |
| | ON | OFF | OFF | 1205 | 1220 | 1245 | 1280 | 1290 | 1295 | 1290 | 1280 | See Note 4 | |
| | ON | OFF | ON | 1380 | 1425 | 1445 | 1465 | 1480 | 1475 | 1490 | 1485 | 1455 | 1460 |
| | ON | ON | OFF | 1785 | 1800 | 1805 | 1830 | 1830 | 1845 | 1855 | 1860 | 1850 | 1840 |
| | ON | ON | ON | 2170 | 2155 | 2175 | 2195 | 2185 | 2195 | 2190 | 2180 | 2160 | 2100 |
| | Maximum Clg Airflow[2] | | | 2200 | 2220 | 2245 | 2260 | 2260 | 2260 | 2255 | 2225 | 2170 | 2100 |
| **CF Switches** | **SW3-3** | **SW3-2** | **SW3-1** | | | | | | | | | | |
| Cont. Fan Default: | OFF | OFF | OFF | 635 | 630 | See Note 4 | | | | | | | |
| | | | | | | | | | | | | | |
| Continuous Fan Airflow (SW3) | OFF | OFF | ON | 635 | 630 | See Note 4 | | | | | | | |
| | OFF | ON | OFF | 785 | 820 | 865 | See Note 4 | | | | | | |
| | OFF | ON | ON | 1040 | 1045 | 1070 | 1085 | 1130 | See Note 4 | | | | |
| | ON | OFF | OFF | 1205 | 1220 | 1245 | 1280 | 1290 | 1295 | 1290 | 1280 | See Note 4 | |
| | ON | OFF | ON | 1380 | 1425 | 1445 | 1465 | 1480 | 1475 | 1490 | 1485 | 1455 | 1460 |
| | ON | ON | OFF | 1380 | 1425 | 1445 | 1465 | 1480 | 1475 | 1490 | 1485 | 1455 | 1460 |
| | ON | ON | ON | 1380 | 1425 | 1445 | 1465 | 1480 | 1475 | 1490 | 1485 | 1455 | 1460 |
| | | | | | | | | | | | | | |
| Heating (SW1) | Heating Airflow[3] | | | 1785 | 1800 | 1765 | 1785 | 1800 | 1820 | 1830 | 1835 | 1825 | 1810 |

1. Nominal 350 CFM/ton cooling airflow is delivered with SW1-5 and SW4-3 set to OFF.
   Set SW1-5 to ON for nominal 400 CFM/ton (+15% airflow).
   Set SW4-3 to ON for nominal 325 CFM/ton (-7% airflow).
   Set both SW1-5 and SW4-3 to ON for nominal 370 CFM/ton (+7% airflow).
   This applies to Cooling and Low-Cooling airflow, but does not affect continuous fan airflow.
   The above adjustments in airflow are subject to motor horsepower range/capacity.
2. Maximum cooling airflow is achieved when switches SW2-1, SW2-2, SW2-3 and SW1-5 are set to ON, and SW4-3 is set to OFF.
3. All heating CFM's are when comfort/efficiency adjustment switch (SW1-4) is set to OFF
4. Ductwork must be sized for heating CFM within the operational range of ESP. Operation within the blank areas of the chart is not recommended because heat operation will be above 1.0 ESP.
5. All airflows on 21" casing size furnaces are 5% less on side return only installations.

# ACCESSORIES

| PART NUMBER | DESCRIPTION | 0401712 | 0601716 | 0802120 | 1002120 |
|---|---|---|---|---|---|
| SYST0101SW | ION™SYSTEM CONTROL | X | X | X | X |
| NAHA00101MS | ECM MOTOR SIMULATOR KIT | X | X | X | X |
| FHG1625-2* | BOTTOM FILTER RACK, 17 INCH | X | - | - | - |
| FHG2025-2* | BOTTOM FILTER RACK, 21 INCH | - | X | X | - |
| 325531-402* | WASHABLE FILTER, 3/4 INCH 16 X 25 | X | - | - | - |
| 325531-403* | WASHABLE FILTER, 3/4 INCH 21 X 25 | - | X | X | - |
| NAHB00101CA | COIL ADAPTER KIT WITH NO OFFSET | X | X | X | X |
| NAHB00201CA | COIL ADAPTER KIT WITH SINGLE OFFSET | X | X | X | X |
| NAHB00301CA | COIL ADAPTER KIT WITH DOUBLE OFFSET | X | X | X | X |
| NAHA01701RA | RETURN AIR KIT, 17” WIDE | X | X | - | - |
| NAHA02101RA | RETURN AIR KIT, 21” WIDE | - | - | X | X |
| NAHA01101SB | COMBUSTIBLE FLOOR BASE (NOT REQUIRED WHEN EVAPORATOR COIL CASE IS USED FOR DOWNFLOW) | X | X | X | X |
| NAHB00301VC | DOWNFLOW VENT GUARD (NOT REQUIRED WHEN VENT IS ROUTED THROUGH CABINET) | X | X | X | X |

*. Purchased through FAST Parts
X = Accessory available

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