

## N96VSN

Up to 96% AFUE, Single-Stage, Variable Speed  
Non-Communicating, 4-Way Multipoise  
35-in. (889 mm) Tall Condensing Gas Furnace



## Product Data



A200105

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



### WARNING

#### CARBON MONOXIDE POISONING AND FIRE HAZARD

Failure to follow this warning could result in personal injury, death, and/or property damage.

This furnace is not designed for use in recreation vehicles, manufactured (mobile) homes or outdoors.

Failure to follow this warning could result in personal injury, death, and/or property damage.



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](http://www.ahridirectory.org).



ISO 9001  
Quality

A200326

### EASIER TO SELL

- Up to 96.0% AFUE in upflow and horizontal positions 95% AFUE in downflow position

- Variable-speed, Constant -Torque ECM blower motor for extra SEER boost with select cooling equipment
- Supports single- and two-stage cooling units
- Dehumidification feature in cooling
- All size can be installed in California air quality management districts with a 40 ng/J NOx emission limit.
- 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

- Flame roll-out sensor standard
- Adjustable heating blower OFF delay
- Factory set blower ON delay
- RPJ® primary heat exchanger
- Stainless steel secondary heat exchanger
- High temperature limit control designed to prevent overheating
- Direct ignition with Silicon Nitride ignitor

### QUIETER

- Variable speed, constant airflow ECM blower motor
- Fully insulated steel cabinet

### EASIER TO INSTALL AND SERVICE

- Direct vent (2-pipe), single-pipe venting or ventilated combustion air
- 24 VAC humidifier terminal
- Electronic air cleaner terminal
- 35" (889mm) high, for ease of installation
- Quarter turn knobs for easy door removal and secure attachment
- Factory shipped for natural gas, with propane gas conversion kits available
- Four position - upflow/downflow/horizontal (left/right) installation
- Twelve different venting configurations
- Twinning capable with accessory kit on select models
- Through the casing flue pipe for counterflow or horizontal applications with accessory (order separately)
- Concentric vent available
- Slide out heat exchanger assembly and blower assembly

### 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.

| FURNACE SIZE  | CASING DIMENSIONS (IN.) |       |       | RATED HEATING OUTPUT (BTUH)* | AFUE       |           | ENERGY STAR | HEATING AIRFLOW |                        | COOLING CFM @ 0.5 ESP (in. W.C.) | MOTOR HP |
|---------------|-------------------------|-------|-------|------------------------------|------------|-----------|-------------|-----------------|------------------------|----------------------------------|----------|
|               | H                       | D     | W     |                              | UPFLOW/ HZ | DOWN-FLOW |             | CFM Heating     | Heating ESP (in. W.C.) |                                  |          |
| N96VSN0401410 | 35                      | 29.50 | 14.20 | 39,000                       | 96.0%      | 95.0%     | YES         | 785             | 0.10                   | 1030                             | 1/2      |
| N96VSN0401712 | 35                      | 29.50 | 17.50 | 39,000                       | 96.0%      | 95.0%     | YES         | 740             | 0.10                   | 1105                             | 1/2      |
| N96VSN0601412 | 35                      | 29.50 | 14.20 | 58,000                       | 95.0%      | 95.0%     | YES         | 970             | 0.12                   | 1115                             | 1/2      |
| N96VSN0601714 | 35                      | 29.50 | 17.50 | 58,000                       | 96.0%      | 95.0%     | YES         | 1080            | 0.12                   | 1555                             | 3/4      |
| N96VSN0801716 | 35                      | 29.50 | 17.50 | 78,000                       | 96.0%      | 95.0%     | YES         | 1355            | 0.12                   | 1655                             | 3/4      |
| N96VSN0802120 | 35                      | 29.50 | 21.00 | 78,000                       | 96.0%      | 95.0%     | YES         | 1485            | 0.12                   | 2090                             | 1        |
| N96VSN1002120 | 35                      | 29.50 | 21.00 | 97,000                       | 96.0%      | 95.0%     | YES         | 1810            | 0.15                   | 2160                             | 1        |
| N96VSN1202422 | 35                      | 29.50 | 24.00 | 116,000                      | 96.0%      | 95.0%     | YES         | 2035            | 0.20                   | 2250                             | 1        |

\*. Capacity in accordance with DOE test procedures. Ratings are position dependent. See rating plate.  
ESP - External Static Pressure

A190043

## FURNACE COMPONENTS



## SPECIFICATIONS

| Heating Capacity and Efficiency                           |                   | 0401410                                                      | 0401712              | 0601412              | 0601714              | 0801716              | 0802120              | 1002120              | 1202422              |
|-----------------------------------------------------------|-------------------|--------------------------------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| Input                                                     | Heat (BTUH)       | 40,000                                                       | 40,000               | 60,000               | 60,000               | 80,000               | 80,000               | 100,000              | 120,000              |
| Output                                                    | Heat (BTUH)       | 39,000                                                       | 39,000               | 58,000               | 58,000               | 78,000               | 78,000               | 97,000               | 117,000              |
| Certified Temperature Rise Range °F (°C)                  | Heating           | 40 - 70<br>(22 - 39)                                         | 40 - 70<br>(22 - 39) | 45 - 75<br>(25 - 42) | 40 - 70<br>(22 - 39) | 40 - 70<br>(22 - 39) | 40 - 70<br>(22 - 39) | 40 - 70<br>(22 - 39) | 40 - 70<br>(22 - 39) |
| Airflow Capacity and Blower Data                          |                   |                                                              |                      |                      |                      |                      |                      |                      |                      |
| Rated External Static Pressure (in. w.c.)                 | Heating           | 0.10                                                         | 0.10                 | 0.12                 | 0.12                 | 0.12                 | 0.12                 | 0.15                 | 0.20                 |
|                                                           | Cooling           | 0.50                                                         | 0.50                 | 0.50                 | 0.50                 | 0.50                 | 0.50                 | 0.50                 | 0.50                 |
| Airflow Delivery @ Rated ESP (CFM)                        | Heating           | 785                                                          | 740                  | 970                  | 1080                 | 1355                 | 1485                 | 1810                 | 2035                 |
|                                                           | Cooling           | 1030                                                         | 1105                 | 1115                 | 1555                 | 1655                 | 2090                 | 2160                 | 2250                 |
| Cooling Capacity (tons) @ 400, 350 CFM/ton                | 400 CFM/ton       | 2                                                            | 2.5                  | 2.5                  | 3.5                  | 4                    | 5                    | 5                    | 5                    |
|                                                           | 350 CFM/ton       | 2.5                                                          | 3                    | 3                    | 4                    | 4.5                  | 5.5                  | 5.5                  | 6                    |
| Direct-Drive Motor Type                                   |                   | Electronically Commutated Motor (ECM)                        |                      |                      |                      |                      |                      |                      |                      |
| Direct-Drive Motor HP                                     |                   | 1/2                                                          | 1/2                  | 1/2                  | 3/4                  | 3/4                  | 1                    | 1                    | 1                    |
| Motor Full Load Amps Default                              |                   | 6.3                                                          | 6.5                  | 6.3                  | 9.6                  | 9.2                  | 12.0                 | 11.7                 | 11.7                 |
| RPM Range                                                 |                   | 600 - 2000                                                   | 400 - 1200           | 600 - 2000           | 400 - 1200           | 400 - 1200           | 400 - 1300           | 400 - 1200           | 400 - 1200           |
| Blower Wheel Dia x Width                                  | in.               | 11 x 7                                                       | 11 x 8               | 11 x 7               | 11 x 8               | 11 x 8               | 11 x 10              | 11 x 10              | 11 x 11              |
| Air Filtration System                                     |                   | Field Supplied Filter                                        |                      |                      |                      |                      |                      |                      |                      |
| Filter Used for Certified Watt Data                       |                   | 325531-40*                                                   |                      |                      |                      |                      |                      |                      |                      |
| Electrical Data                                           |                   |                                                              |                      |                      |                      |                      |                      |                      |                      |
| Input Voltage                                             | Volts-Hertz-Phase | 115-60-1                                                     |                      |                      |                      |                      |                      |                      |                      |
| Operating Voltage Range                                   | Min-Max           | 104-127                                                      |                      |                      |                      |                      |                      |                      |                      |
| Maximum Input Amps Default                                | Amps              | 7.0                                                          | 7.2                  | 7.1                  | 10.4                 | 10.0                 | 12.8                 | 12.6                 | 12.6                 |
| Unit Ampacity Default                                     | Amps              | 9.7                                                          | 10                   | 9.8                  | 13.9                 | 13.4                 | 16.9                 | 16.7                 | 16.7                 |
| Minimum Wire Size Default                                 | AWG               | 14                                                           | 14                   | 14                   | 14                   | 14                   | 12                   | 12                   | 12                   |
| Maximum Wire Length @ Minimum Wire Size Default           | Feet              | 38                                                           | 37                   | 38                   | 26                   | 27                   | 34                   | 34                   | 34                   |
|                                                           | (M)               | (11.7)                                                       | (11.4)               | (11.5)               | (8.1)                | (8.4)                | (10.3)               | (10.5)               | (10.5)               |
| Maximum Fuse/Ckt Bkr (Time-Delay Type Recommended)Default | Amps              | 15                                                           | 15                   | 15                   | 15                   | 15                   | 20                   | 20                   | 20                   |
| Transformer Capacity (24vac output)                       |                   | VA                                                           |                      |                      |                      |                      |                      |                      |                      |
| External Control                                          | Heating           | 24.3 VA                                                      |                      |                      |                      |                      |                      |                      |                      |
| Power Available                                           | Cooling           | 34.6 VA                                                      |                      |                      |                      |                      |                      |                      |                      |
| Controls                                                  |                   |                                                              |                      |                      |                      |                      |                      |                      |                      |
| Gas Connection Size                                       |                   | 1/2" - NPT                                                   |                      |                      |                      |                      |                      |                      |                      |
| Burners (Monoport)                                        |                   | 2                                                            | 2                    | 3                    | 3                    | 4                    | 4                    | 5                    | 6                    |
| Gas Valve (Redundant)                                     | Manufacturer      | White Rodgers                                                |                      |                      |                      |                      |                      |                      |                      |
| Minimum Inlet Gas pressure (in. wc)                       |                   | 4.50                                                         |                      |                      |                      |                      |                      |                      |                      |
| Maximum Inlet Gas pressure (in. wc)                       |                   | 13.60                                                        |                      |                      |                      |                      |                      |                      |                      |
| Manufactured (Mobile) Home Kit                            |                   | Not approved for MH use                                      |                      |                      |                      |                      |                      |                      |                      |
| Ignition Device                                           |                   | Silicon Nitride                                              |                      |                      |                      |                      |                      |                      |                      |
| Heating Blower Control (Heating Off-Delay)                |                   | Adjustable: 90, 120, 150, 180 seconds                        |                      |                      |                      |                      |                      |                      |                      |
| Cooling Blower Control (Time Delay Relay)                 |                   | 90 seconds                                                   |                      |                      |                      |                      |                      |                      |                      |
| Communication System                                      |                   | None                                                         |                      |                      |                      |                      |                      |                      |                      |
| Thermostat Connections                                    |                   | R, W, Y/Y2, Y1, G, Com 24V, DHUM                             |                      |                      |                      |                      |                      |                      |                      |
| Accessory Connections                                     |                   | EAC (115vac); HUM (24vac); 1 and 2-stg. AC (via Y/Y2 and Y1) |                      |                      |                      |                      |                      |                      |                      |

\*. See Accessory List for Part numbers available

## ACCESSORIES

| PARTNUMBER   | COMPONENT NAME                   | DESCRIPTION                                    | 0401410 | 0401712 | 0601412 | 0601714 | 0801716 | 0802120 | 1002120 | 1202422 |
|--------------|----------------------------------|------------------------------------------------|---------|---------|---------|---------|---------|---------|---------|---------|
| NAHB001101CT | EXTERNAL TRAP KIT                | CONDENSATE TRAP                                | X       | X       | X       | X       | X       | X       | X       | X       |
| NAHA00110DA  | DRAIN ACCESSORY                  | 1/2" CPVC TO 3/4" PVC (10PACK)                 | X       | X       | X       | X       | X       | X       | X       | X       |
| NAHA002CV    | VENT TERMINATION KIT             | 2" CONCENTRIC VENT                             | X       | X       | X       | X       | X       | X       | X       |         |
| NAHA001CV    |                                  | 3" CONCENTRIC VENT                             | X       | X       | X       | X       | X       | X       | X       | X       |
| NAHA00101VC  | INTERNAL VENT KIT                | THROUGH THE CABINET                            | X       | X       | X       | X       | X       | X       | X       | X       |
| NAHA00301VT  | DIRECT VENT                      | 2" BRACKET                                     | X       | X       | X       | X       | X       | X       | X       |         |
| NAHA00401VT  | TERMINATION KIT                  | 3" BRACKET                                     | X       | X       | X       | X       | X       | X       | X       | X       |
| NAHA00101CK  | INLET AIR PIPE COUPLING          | COUPLING FOR POLYPROPYLENE VENT SYSTEMS        | X       | X       | X       | X       | X       | X       | X       | X       |
| NAHA00101HV  | HORIZONTAL INSTALLATION KIT      | TRAP GROMMET (DIRECT VENT APPLICATION ONLY)    | X       | X       | X       | X       | X       | X       | X       | X       |
| NAHA00101HH  | FREEZE PROTECT KIT               | CONDENSATE DRAINLINE-TAPE                      | X       | X       | X       | X       | X       | X       | X       | X       |
| NAHA00201HH  | CONDENSATE FREEZE PROTECTKIT     | CONDENSATE TRAP WITH HEATPAD                   | X       | X       | X       | X       | X       | X       | X       | X       |
| NAHA01101SB  | FLOOR BASE KIT                   | COMBUSTIBLE FLOOR                              | X       | X       | X       | X       | X       | X       | X       | X       |
| AGAGC9NPS01B | GAS CONVERSION KIT               | NATURAL TO PROPANE                             | X       | X       | X       | X       | X       | X       | X       | X       |
| AGAGC9PNS01B |                                  | PROPANE TO NATURAL                             | X       | X       | X       | X       | X       | X       | X       | X       |
| 1188594*     | GAS VALVE TOWER PORT ADAPTER KIT | ADAPTER FOR GAS VALVE                          | X       | X       | X       | X       | X       | X       | X       | X       |
| 325531-402*  | WASHABLE FILTER PACK             | 3/4"X16"X25" WASHABLE FILTER                   | X       | X       | X       | X       | X       |         |         |         |
| 325531-403*  |                                  | 3/4"X20"X25" WASHABLE FILTER                   |         |         |         |         |         | X       | X       |         |
| 325531-404*  |                                  | 3/4"X24"X25" WASHABLE FILTER                   |         |         |         |         |         |         |         | X       |
| FHG1425-2*   | EXTERNAL BOTTOM FILTER RACK      | 14-1/2"X25" RACK W/O FILTER                    | X       |         | X       |         |         |         |         |         |
| FHG1625-2*   |                                  | 16"X25" RACK W/O FILTER                        |         | X       |         | X       | X       |         |         |         |
| FHG2025-2*   |                                  | 20"X25" RACK W/O FILTER                        |         |         |         |         |         | X       | X       |         |
| FHG2424-2*   |                                  | 24-1/2"X24" RACK W/O FILTER                    |         |         |         |         |         |         |         | X       |
| NAHB00101CA  | COIL ADAPTER KIT                 | WITH NO OFF SET                                | X       | X       | X       | X       | X       | X       | X       | X       |
| NAHB00201CA  |                                  | WITH SINGLE OFFSET                             | X       | X       | X       | X       | X       | X       | X       | X       |
| NAHB00301CA  |                                  | WITH DOUBLE OFFSET                             | X       | X       | X       | X       | X       | X       | X       | X       |
| NAHA01701RA  | RETURN AIR KIT                   | 17-1/2" WIDE                                   | X       | X       | X       | X       | X       |         |         |         |
| NAHA02101RA  |                                  | 21" WIDE                                       |         |         |         |         |         | X       | X       |         |
| NAHA02401RA  |                                  | 24-1/2" WIDE                                   |         |         |         |         |         |         |         | X       |
| AGATWNPME01B | TWINNING KIT                     | OPERATION OF TWO IDENTICAL SIZE MODEL FURNACES |         |         |         | X       | X       | X       | X       | X       |
| NAHA00101HV  | HORIZONTAL INSTALLATION KIT      | TRAP GROMMET (DIRECT VENT APPLICATION ONLY)    | X       | X       | X       | X       | X       | X       | X       | X       |
| NAHA001NK    | CONDENSATE NEUTRALIZER KIT       | NEUTRALIZES CONDENSATE                         | X       | X       | X       | X       | X       | X       | X       | X       |

\*. Purchased through FAST Parts

| DESCRIPTION                     |         |
|---------------------------------|---------|
| Gas Orifice Kit - #42 (Nat Gas) | 1185612 |
| Gas Orifice Kit - #43 (Nat Gas) | 1176928 |
| Gas Orifice Kit - #44 (Nat Gas) | 1185574 |
| Gas Orifice Kit - #45 (Nat Gas) | 1177213 |
| Gas Orifice Kit - #46 (Nat Gas) | 1183809 |
| Gas Orifice Kit - #47 (Nat Gas) | 1185613 |
| Gas Orifice Kit - #48 (Nat Gas) | 1185614 |
| Gas Orifice Kit - #54 (LP)      | 1184256 |
| Gas Orifice Kit - #55 (LP)      | 1185615 |
| Gas Orifice Kit - #56 (LP)      | 1185616 |
| Gas Orifice Kit - 1.25mm (LP)   | 1185617 |
| Gas Orifice Kit - 1.30mm (LP)   | 1185618 |

See Installation Instructions for model, altitude, and heat value usages.

# AIR DELIVERY

## Air Delivery - CFM (With Filter)

| COOLING <sup>4</sup> AND HEATING AIR DELIVERY - CFM (Bottom Return <sup>5</sup> with Filter) |                                  |       |       |                                |      |            |            |      |            |      |     |     |     |
|----------------------------------------------------------------------------------------------|----------------------------------|-------|-------|--------------------------------|------|------------|------------|------|------------|------|-----|-----|-----|
| (SW1-5 and SW4-3 set to OFF, except as indicated. See Notes 1 and 2.)                        |                                  |       |       |                                |      |            |            |      |            |      |     |     |     |
| Unit Size: 0401410                                                                           | Clg/CF Switch settings           |       |       | External Static Pressure (ESP) |      |            |            |      |            |      |     |     |     |
| Clg Switches:                                                                                | SW2-8                            | SW2-7 | SW2-6 | 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   | 1125                           | 1105 | 1080       | 1055       | 1030 | 1005       | 975  | 955 | 930 | 905 |
| Cooling<br>(SW2-8,7,6)                                                                       | OFF                              | OFF   | ON    | 605                            | 565  | 525        | 485        | 445  | See Note 4 |      |     |     |     |
|                                                                                              | OFF                              | ON    | OFF   | 760                            | 730  | 695        | 655        | 625  | 590        | 555  | 525 | 490 | 455 |
|                                                                                              | OFF                              | ON    | ON    | 950                            | 925  | 900        | 870        | 840  | 810        | 785  | 760 | 730 | 705 |
|                                                                                              | ON                               | OFF   | OFF   | 1125                           | 1105 | 1080       | 1055       | 1030 | 1005       | 975  | 955 | 930 | 905 |
|                                                                                              | ON                               | OFF   | ON    | 1130                           | 1105 | 1080       | 1055       | 1030 | 1005       | 980  | 955 | 930 | 905 |
|                                                                                              | ON                               | ON    | OFF   | 1130                           | 1105 | 1080       | 1055       | 1030 | 1005       | 980  | 955 | 930 | 905 |
|                                                                                              | ON                               | ON    | ON    | 1130                           | 1105 | 1080       | 1055       | 1030 | 1005       | 980  | 955 | 930 | 905 |
|                                                                                              | Maximum Clg Airflow <sup>2</sup> |       |       | 1130                           | 1105 | 1080       | 1055       | 1030 | 1005       | 980  | 955 | 930 | 905 |
| CF Switches                                                                                  | SW2-5                            | SW2-4 | SW2-3 |                                |      |            |            |      |            |      |     |     |     |
| Low-Clg Default:                                                                             | OFF                              | OFF   | OFF   | 605                            | 565  | 525        | 485        | 445  | See Note 4 |      |     |     |     |
| Low-Cooling<br>(SW2-5,4,3)                                                                   | OFF                              | OFF   | ON    | 605                            | 565  | 525        | 485        | 445  | See Note 4 |      |     |     |     |
|                                                                                              | OFF                              | ON    | OFF   | 760                            | 730  | 695        | 655        | 625  | 590        | 555  | 525 | 490 | 455 |
|                                                                                              | OFF                              | ON    | ON    | 950                            | 925  | 900        | 870        | 840  | 810        | 785  | 760 | 730 | 705 |
|                                                                                              | ON                               | OFF   | OFF   | 1125                           | 1105 | 1080       | 1055       | 1030 | 1005       | 975  | 955 | 930 | 905 |
|                                                                                              | ON                               | OFF   | ON    | 1130                           | 1105 | 1080       | 1055       | 1030 | 1005       | 980  | 955 | 930 | 905 |
|                                                                                              | ON                               | ON    | OFF   | 1130                           | 1105 | 1080       | 1055       | 1030 | 1005       | 980  | 955 | 930 | 905 |
|                                                                                              | ON                               | ON    | ON    | 1130                           | 1105 | 1080       | 1055       | 1030 | 1005       | 980  | 955 | 930 | 905 |
|                                                                                              |                                  |       |       |                                |      |            |            |      |            |      |     |     |     |
| Cont. Fan Default:                                                                           | OFF                              | OFF   | OFF   | 385                            | 335  | See Note 4 |            |      |            |      |     |     |     |
| Continuous Fan<br>(SW2-5,4,3)                                                                | OFF                              | OFF   | ON    | 245                            | 180  | See Note 4 |            |      |            |      |     |     |     |
|                                                                                              | OFF                              | ON    | OFF   | 310                            | 245  | See Note 4 |            |      |            |      |     |     |     |
|                                                                                              | OFF                              | ON    | ON    | 385                            | 335  | See Note 4 |            |      |            |      |     |     |     |
|                                                                                              | ON                               | OFF   | OFF   | 385                            | 335  | See Note 4 |            |      |            |      |     |     |     |
|                                                                                              | ON                               | OFF   | ON    | 385                            | 335  | See Note 4 |            |      |            |      |     |     |     |
|                                                                                              | ON                               | ON    | OFF   | 385                            | 335  | See Note 4 |            |      |            |      |     |     |     |
|                                                                                              | ON                               | ON    | ON    | 385                            | 335  | See Note 4 |            |      |            |      |     |     |     |
|                                                                                              |                                  |       |       |                                |      |            |            |      |            |      |     |     |     |
| Heating (SW1)                                                                                | Heat Airflow <sup>3</sup>        |       |       | 785                            | 750  | 715        | 685        | 655  | 625        | 595  | 560 | 535 | 505 |
|                                                                                              |                                  |       |       |                                |      |            |            |      |            |      |     |     |     |
| Unit Size: 0401712                                                                           | Clg/CF Switch settings           |       |       | External Static Pressure (ESP) |      |            |            |      |            |      |     |     |     |
| Clg Switches:                                                                                | SW2-8                            | SW2-7 | SW2-6 | 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   | 1240                           | 1210 | 1180       | 1145       | 1105 | 1060       | 1005 | 950 | 895 | 835 |
| Cooling<br>(SW2-8,7,6)                                                                       | OFF                              | OFF   | ON    | 585                            | 540  | 490        | 445        | 400  | See Note 4 |      |     |     |     |
|                                                                                              | OFF                              | ON    | OFF   | 780                            | 740  | 695        | 655        | 620  | 580        | 545  | 510 | 480 | 445 |
|                                                                                              | OFF                              | ON    | ON    | 975                            | 945  | 910        | 870        | 835  | 805        | 775  | 740 | 710 | 680 |
|                                                                                              | ON                               | OFF   | OFF   | 1170                           | 1140 | 1115       | 1085       | 1050 | 1020       | 985  | 945 | 890 | 835 |
|                                                                                              | ON                               | OFF   | ON    | 1240                           | 1210 | 1180       | 1145       | 1105 | 1060       | 1005 | 950 | 895 | 835 |
|                                                                                              | ON                               | ON    | OFF   | 1240                           | 1210 | 1180       | 1145       | 1105 | 1060       | 1005 | 950 | 895 | 835 |
|                                                                                              | ON                               | ON    | ON    | 1240                           | 1210 | 1180       | 1145       | 1105 | 1060       | 1005 | 950 | 895 | 835 |
|                                                                                              | Maximum Clg Airflow <sup>2</sup> |       |       | 1240                           | 1210 | 1180       | 1145       | 1105 | 1060       | 1005 | 950 | 895 | 835 |
| CF Switches                                                                                  | SW2-5                            | SW2-4 | SW2-3 |                                |      |            |            |      |            |      |     |     |     |
| Low-Clg Default:                                                                             | OFF                              | OFF   | OFF   | 585                            | 540  | 490        | 445        | 400  | See Note 4 |      |     |     |     |
| Low-Cooling<br>(SW2-5,4,3)                                                                   | OFF                              | OFF   | ON    | 585                            | 540  | 490        | 445        | 400  | See Note 4 |      |     |     |     |
|                                                                                              | OFF                              | ON    | OFF   | 780                            | 740  | 695        | 655        | 620  | 580        | 545  | 510 | 480 | 445 |
|                                                                                              | OFF                              | ON    | ON    | 975                            | 945  | 910        | 870        | 835  | 805        | 775  | 740 | 710 | 680 |
|                                                                                              | ON                               | OFF   | OFF   | 1170                           | 1140 | 1115       | 1085       | 1050 | 1020       | 985  | 945 | 890 | 835 |
|                                                                                              | ON                               | OFF   | ON    | 1240                           | 1210 | 1180       | 1145       | 1105 | 1060       | 1005 | 950 | 895 | 835 |
|                                                                                              | ON                               | ON    | OFF   | 1240                           | 1210 | 1180       | 1145       | 1105 | 1060       | 1005 | 950 | 895 | 835 |
|                                                                                              | ON                               | ON    | ON    | 1240                           | 1210 | 1180       | 1145       | 1105 | 1060       | 1005 | 950 | 895 | 835 |
|                                                                                              |                                  |       |       |                                |      |            |            |      |            |      |     |     |     |
| Cont. Fan Default:                                                                           | OFF                              | OFF   | OFF   | 585                            | 540  | 490        | 445        | 400  | See Note 4 |      |     |     |     |
| Continuous Fan<br>(SW2-5,4,3)                                                                | OFF                              | OFF   | ON    | 305                            | 235  | See Note 4 |            |      |            |      |     |     |     |
|                                                                                              | OFF                              | ON    | OFF   | 470                            | 410  | 350        | See Note 4 |      |            |      |     |     |     |
|                                                                                              | OFF                              | ON    | ON    | 585                            | 540  | 490        | 445        | 400  | See Note 4 |      |     |     |     |
|                                                                                              | ON                               | OFF   | OFF   | 585                            | 540  | 490        | 445        | 400  | See Note 4 |      |     |     |     |
|                                                                                              | ON                               | OFF   | ON    | 585                            | 540  | 490        | 445        | 400  | See Note 4 |      |     |     |     |
|                                                                                              | ON                               | ON    | OFF   | 585                            | 540  | 490        | 445        | 400  | See Note 4 |      |     |     |     |
|                                                                                              | ON                               | ON    | ON    | 585                            | 540  | 490        | 445        | 400  | See Note 4 |      |     |     |     |
|                                                                                              |                                  |       |       |                                |      |            |            |      |            |      |     |     |     |
| Heating (SW1)                                                                                | Heat Airflow <sup>3</sup>        |       |       | 740                            | 695  | 650        | 610        | 575  | 540        | 500  | 465 | 430 | 395 |

## Air Delivery - CFM (With Filter) (Continued)

| COOLING <sup>4</sup> AND HEATING AIR DELIVERY - CFM (Bottom Return <sup>5</sup> with Filter) |                                  |       |       |                                |      |            |            |      |            |            |      |            |      |
|----------------------------------------------------------------------------------------------|----------------------------------|-------|-------|--------------------------------|------|------------|------------|------|------------|------------|------|------------|------|
| (SW1-5 and SW4-3 set to OFF, except as indicated. See Notes 1 and 2.)                        |                                  |       |       |                                |      |            |            |      |            |            |      |            |      |
| Unit Size: 0601412                                                                           | Clg/CF Switch settings           |       |       | External Static Pressure (ESP) |      |            |            |      |            |            |      |            |      |
| Clg Switches:                                                                                | SW2-8                            | SW2-7 | SW2-6 | 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   | 1180                           | 1150 | 1130       | 1100       | 1075 | 1045       | 1020       | 995  | 965        | 935  |
| Cooling<br>(SW2-8,7,6)                                                                       | OFF                              | OFF   | ON    | 625                            | 585  | 540        | See Note 4 |      |            |            |      |            |      |
|                                                                                              | OFF                              | ON    | OFF   | 820                            | 785  | 745        | 710        | 670  | 635        | 595        | 560  | 525        | 490  |
|                                                                                              | OFF                              | ON    | ON    | 1000                           | 970  | 935        | 905        | 875  | 845        | 815        | 785  | 755        | 725  |
|                                                                                              | ON                               | OFF   | OFF   | 1180                           | 1150 | 1130       | 1100       | 1075 | 1045       | 1020       | 995  | 965        | 935  |
|                                                                                              | ON                               | OFF   | ON    | 1220                           | 1195 | 1170       | 1140       | 1115 | 1090       | 1065       | 1035 | 1010       | 985  |
|                                                                                              | ON                               | ON    | OFF   | 1220                           | 1195 | 1170       | 1140       | 1115 | 1090       | 1065       | 1035 | 1010       | 985  |
|                                                                                              | ON                               | ON    | ON    | 1220                           | 1195 | 1170       | 1140       | 1115 | 1090       | 1065       | 1035 | 1010       | 985  |
|                                                                                              | Maximum Clg Airflow <sup>2</sup> |       |       | 1220                           | 1195 | 1170       | 1140       | 1115 | 1090       | 1065       | 1035 | 1010       | 985  |
| CF Switches                                                                                  | SW2-5                            | SW2-4 | SW2-3 |                                |      |            |            |      |            |            |      |            |      |
| Low-Clg Default:                                                                             | OFF                              | OFF   | OFF   | 625                            | 585  | 540        | See Note 4 |      |            |            |      |            |      |
| Low-Cooling<br>(SW2-5,4,3)                                                                   | OFF                              | OFF   | ON    | 625                            | 585  | 540        | 495        | 445  | See Note 4 |            |      |            |      |
|                                                                                              | OFF                              | ON    | OFF   | 820                            | 785  | 745        | 710        | 670  | 635        | 595        | 560  | 525        | 490  |
|                                                                                              | OFF                              | ON    | ON    | 1000                           | 970  | 935        | 905        | 875  | 845        | 815        | 785  | 755        | 725  |
|                                                                                              | ON                               | OFF   | OFF   | 1180                           | 1150 | 1130       | 1100       | 1075 | 1045       | 1020       | 995  | 965        | 935  |
|                                                                                              | ON                               | OFF   | ON    | 1220                           | 1195 | 1170       | 1140       | 1115 | 1090       | 1065       | 1035 | 1010       | 985  |
|                                                                                              | ON                               | ON    | OFF   | 1220                           | 1195 | 1170       | 1140       | 1115 | 1090       | 1065       | 1035 | 1010       | 985  |
|                                                                                              | ON                               | ON    | ON    | 1220                           | 1195 | 1170       | 1140       | 1115 | 1090       | 1065       | 1035 | 1010       | 985  |
| Cont. Fan Default:                                                                           | OFF                              | OFF   | OFF   | 375                            | 315  | See Note 4 |            |      |            |            |      |            |      |
| Continuous Fan<br>(SW2-5,4,3)                                                                | OFF                              | OFF   | ON    | 200                            | 125  | See Note 4 |            |      |            |            |      |            |      |
|                                                                                              | OFF                              | ON    | OFF   | 285                            | 215  | See Note 4 |            |      |            |            |      |            |      |
|                                                                                              | OFF                              | ON    | ON    | 375                            | 315  | See Note 4 |            |      |            |            |      |            |      |
|                                                                                              | ON                               | OFF   | OFF   | 375                            | 315  | See Note 4 |            |      |            |            |      |            |      |
|                                                                                              | ON                               | OFF   | ON    | 375                            | 315  | See Note 4 |            |      |            |            |      |            |      |
|                                                                                              | ON                               | ON    | OFF   | 375                            | 315  | See Note 4 |            |      |            |            |      |            |      |
|                                                                                              | ON                               | ON    | ON    | 375                            | 315  | See Note 4 |            |      |            |            |      |            |      |
| Heating (SW1)                                                                                | Heat Airflow <sup>3</sup>        |       |       | 980                            | 950  | 920        | 890        | 860  | 825        | 795        | 765  | 735        | 705  |
| Unit Size: 0601714                                                                           | Clg/CF Switch settings           |       |       | External Static Pressure (ESP) |      |            |            |      |            |            |      |            |      |
| Clg Switches:                                                                                | SW2-8                            | SW2-7 | SW2-6 | 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   | 1350                           | 1315 | 1285       | 1250       | 1215 | 1180       | 1150       | 1115 | 1085       | 1050 |
| Cooling<br>(SW2-8,7,6)                                                                       | OFF                              | OFF   | ON    | 635                            | 575  | 515        | See Note 4 |      |            |            |      |            |      |
|                                                                                              | OFF                              | ON    | OFF   | 825                            | 775  | 725        | 675        | 630  | 575        | See Note 4 |      |            |      |
|                                                                                              | OFF                              | ON    | ON    | 1015                           | 975  | 930        | 890        | 845  | 805        | 765        | 720  | See Note 4 |      |
|                                                                                              | ON                               | OFF   | OFF   | 1190                           | 1150 | 1115       | 1075       | 1040 | 1005       | 965        | 930  | 895        | 855  |
|                                                                                              | ON                               | OFF   | ON    | 1350                           | 1315 | 1285       | 1250       | 1215 | 1180       | 1150       | 1115 | 1085       | 1050 |
|                                                                                              | ON                               | ON    | OFF   | 1540                           | 1510 | 1480       | 1450       | 1420 | 1390       | 1360       | 1330 | 1300       | 1270 |
|                                                                                              | ON                               | ON    | ON    | 1715                           | 1675 | 1635       | 1595       | 1555 | 1515       | 1475       | 1435 | 1390       | 1350 |
|                                                                                              | Maximum Clg Airflow <sup>2</sup> |       |       | 1715                           | 1675 | 1635       | 1595       | 1555 | 1515       | 1475       | 1435 | 1390       | 1350 |
| CF Switches                                                                                  | SW2-5                            | SW2-4 | SW2-3 |                                |      |            |            |      |            |            |      |            |      |
| Low-Clg Default:                                                                             | OFF                              | OFF   | OFF   | 635                            | 575  | 515        | See Note 4 |      |            |            |      |            |      |
| Low-Cooling<br>(SW2-5,4,3)                                                                   | OFF                              | OFF   | ON    | 635                            | 575  | 515        | See Note 4 |      |            |            |      |            |      |
|                                                                                              | OFF                              | ON    | OFF   | 825                            | 775  | 725        | 675        | 630  | 575        | See Note 4 |      |            |      |
|                                                                                              | OFF                              | ON    | ON    | 1015                           | 975  | 930        | 890        | 845  | 805        | 765        | 720  | See Note 4 |      |
|                                                                                              | ON                               | OFF   | OFF   | 1190                           | 1150 | 1115       | 1075       | 1040 | 1005       | 965        | 930  | 895        | 855  |
|                                                                                              | ON                               | OFF   | ON    | 1350                           | 1315 | 1285       | 1250       | 1215 | 1180       | 1150       | 1115 | 1085       | 1050 |
|                                                                                              | ON                               | ON    | OFF   | 1540                           | 1510 | 1480       | 1450       | 1420 | 1390       | 1360       | 1330 | 1300       | 1270 |
|                                                                                              | ON                               | ON    | ON    | 1715                           | 1675 | 1635       | 1595       | 1555 | 1515       | 1475       | 1435 | 1390       | 1350 |
| Cont. Fan Default:                                                                           | OFF                              | OFF   | OFF   | 635                            | 575  | 515        | See Note 4 |      |            |            |      |            |      |
| Continuous Fan<br>(SW2-5,4,3)                                                                | OFF                              | OFF   | ON    | 635                            | 575  | 515        | See Note 4 |      |            |            |      |            |      |
|                                                                                              | OFF                              | ON    | OFF   | 825                            | 775  | 725        | 675        | 630  | 575        | See Note 4 |      |            |      |
|                                                                                              | OFF                              | ON    | ON    | 1015                           | 975  | 930        | 890        | 845  | 805        | 765        | 720  | See Note 4 |      |
|                                                                                              | ON                               | OFF   | OFF   | 1190                           | 1150 | 1115       | 1075       | 1040 | 1005       | 965        | 930  | 895        | 855  |
|                                                                                              | ON                               | OFF   | ON    | 1350                           | 1315 | 1285       | 1250       | 1215 | 1180       | 1150       | 1115 | 1085       | 1050 |
|                                                                                              | ON                               | ON    | OFF   | 1540                           | 1510 | 1480       | 1450       | 1420 | 1390       | 1360       | 1330 | 1300       | 1270 |
|                                                                                              | ON                               | ON    | ON    | 1715                           | 1675 | 1635       | 1595       | 1555 | 1515       | 1475       | 1435 | 1390       | 1350 |
| Heating (SW1)                                                                                | Heat Airflow <sup>3</sup>        |       |       | 1090                           | 1050 | 1010       | 970        | 925  | 885        | 850        | 815  | 775        | 735  |

## Air Delivery - CFM (With Filter) (Continued)

| COOLING <sup>4</sup> AND HEATING AIR DELIVERY - CFM (Bottom Return <sup>5</sup> with Filter) |                                  |                        |       |      |                                |            |            |            |            |            |      |            |      |
|----------------------------------------------------------------------------------------------|----------------------------------|------------------------|-------|------|--------------------------------|------------|------------|------------|------------|------------|------|------------|------|
| (SW1-5 and SW4-3 set to OFF, except as indicated. See Notes 1 and 2.)                        |                                  |                        |       |      |                                |            |            |            |            |            |      |            |      |
| Unit Size: 0801716                                                                           |                                  | Clg/CF Switch settings |       |      | External Static Pressure (ESP) |            |            |            |            |            |      |            |      |
| Clg Switches:                                                                                | SW2-8                            | SW2-7                  | SW2-6 | 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   | 1595 | 1560                           | 1530       | 1500       | 1470       | 1440       | 1405       | 1370 | 1340       | 1290 |
| Cooling<br>(SW2-8,7,6)                                                                       | OFF                              | OFF                    | ON    | 625  | 555                            | 495        | See Note 4 |            |            |            |      |            |      |
|                                                                                              | OFF                              | ON                     | OFF   | 810  | 755                            | 700        | 645        | 595        | 540        | 480        | 425  | 380        | 330  |
|                                                                                              | OFF                              | ON                     | ON    | 1040 | 995                            | 950        | 900        | 860        | 815        | 770        | 725  | 680        | 630  |
|                                                                                              | ON                               | OFF                    | OFF   | 1215 | 1175                           | 1135       | 1095       | 1055       | 1015       | 975        | 935  | 900        | 860  |
|                                                                                              | ON                               | OFF                    | ON    | 1390 | 1355                           | 1320       | 1285       | 1245       | 1210       | 1175       | 1140 | 1105       | 1070 |
|                                                                                              | ON                               | ON                     | OFF   | 1595 | 1560                           | 1530       | 1500       | 1470       | 1440       | 1405       | 1370 | 1340       | 1290 |
|                                                                                              | ON                               | ON                     | ON    | 1790 | 1760                           | 1735       | 1700       | 1655       | 1610       | 1570       | 1485 | 1395       | 1295 |
|                                                                                              | Maximum Clg Airflow <sup>2</sup> |                        |       | 1790 | 1760                           | 1735       | 1700       | 1655       | 1610       | 1570       | 1485 | 1395       | 1295 |
| CF Switches                                                                                  | SW2-5                            | SW2-4                  | SW2-3 |      |                                |            |            |            |            |            |      |            |      |
| Low-Clg Default:                                                                             | OFF                              | OFF                    | OFF   | 625  | 555                            | 495        | See Note 4 |            |            |            |      |            |      |
| Low-Cooling<br>(SW2-5,4,3)                                                                   | OFF                              | OFF                    | ON    | 625  | 555                            | 495        | See Note 4 |            |            |            |      |            |      |
|                                                                                              | OFF                              | ON                     | OFF   | 810  | 755                            | 700        | 645        | 595        | 540        | 480        | 425  | 380        | 330  |
|                                                                                              | OFF                              | ON                     | ON    | 1040 | 995                            | 950        | 900        | 860        | 815        | 770        | 725  | 680        | 630  |
|                                                                                              | ON                               | OFF                    | OFF   | 1215 | 1175                           | 1135       | 1095       | 1055       | 1015       | 975        | 935  | 900        | 860  |
|                                                                                              | ON                               | OFF                    | ON    | 1390 | 1355                           | 1320       | 1285       | 1245       | 1210       | 1175       | 1140 | 1105       | 1070 |
|                                                                                              | ON                               | ON                     | OFF   | 1595 | 1560                           | 1530       | 1500       | 1470       | 1440       | 1405       | 1370 | 1340       | 1290 |
|                                                                                              | ON                               | ON                     | ON    | 1790 | 1760                           | 1735       | 1700       | 1655       | 1610       | 1570       | 1485 | 1395       | 1295 |
|                                                                                              |                                  |                        |       |      |                                |            |            |            |            |            |      |            |      |
| Cont. Fan Default:                                                                           | OFF                              | OFF                    | OFF   | 625  | 555                            | 495        | See Note 4 |            |            |            |      |            |      |
| Continuous Fan<br>(SW2-5,4,3)                                                                | OFF                              | OFF                    | ON    | 465  | 390                            | 300        | See Note 4 |            |            |            |      |            |      |
|                                                                                              | OFF                              | ON                     | OFF   | 625  | 555                            | 495        | See Note 4 |            |            |            |      |            |      |
|                                                                                              | OFF                              | ON                     | ON    | 690  | 630                            | 570        | 510        | 445        | See Note 4 |            |      |            |      |
|                                                                                              | ON                               | OFF                    | OFF   | 690  | 630                            | 570        | 510        | 445        | See Note 4 |            |      |            |      |
|                                                                                              | ON                               | OFF                    | ON    | 690  | 630                            | 570        | 510        | 445        | See Note 4 |            |      |            |      |
|                                                                                              | ON                               | ON                     | OFF   | 690  | 630                            | 570        | 510        | 445        | See Note 4 |            |      |            |      |
|                                                                                              | ON                               | ON                     | ON    | 690  | 630                            | 570        | 510        | 445        | See Note 4 |            |      |            |      |
|                                                                                              |                                  |                        |       |      |                                |            |            |            |            |            |      |            |      |
| Heating (SW1)                                                                                | Heat Airflow <sup>3</sup>        |                        |       | 1375 | 1340                           | 1300       | 1265       | 1230       | 1195       | 1155       | 1120 | 1090       | 1050 |
|                                                                                              |                                  |                        |       |      |                                |            |            |            |            |            |      |            |      |
| Unit Size: 0802120                                                                           |                                  | Clg/CF Switch settings |       |      | External Static Pressure (ESP) |            |            |            |            |            |      |            |      |
| Clg Switches:                                                                                | SW2-8                            | SW2-7                  | SW2-6 | 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   | 1950 | 1910                           | 1870       | 1835       | 1795       | 1760       | 1720       | 1680 | 1645       | 1605 |
| Cooling<br>(SW2-8,7,6)                                                                       | OFF                              | OFF                    | ON    | 835  | 760                            | 685        | 620        | See Note 4 |            |            |      |            |      |
|                                                                                              | OFF                              | ON                     | OFF   | 1055 | 995                            | 930        | 865        | 810        | 750        | See Note 4 |      |            |      |
|                                                                                              | OFF                              | ON                     | ON    | 1225 | 1170                           | 1115       | 1060       | 1000       | 945        | 895        | 840  | See Note 4 |      |
|                                                                                              | ON                               | OFF                    | OFF   | 1405 | 1355                           | 1305       | 1255       | 1205       | 1155       | 1105       | 1060 | 1015       | 965  |
|                                                                                              | ON                               | OFF                    | ON    | 1605 | 1560                           | 1515       | 1470       | 1425       | 1380       | 1335       | 1290 | 1245       | 1205 |
|                                                                                              | ON                               | ON                     | OFF   | 1950 | 1910                           | 1870       | 1835       | 1795       | 1760       | 1720       | 1680 | 1645       | 1605 |
|                                                                                              | ON                               | ON                     | ON    | 2215 | 2180                           | 2145       | 2110       | 2080       | 2040       | 1995       | 1945 | 1895       | 1840 |
|                                                                                              | Maximum Clg Airflow <sup>2</sup> |                        |       | 2295 | 2245                           | 2195       | 2145       | 2090       | 2040       | 1995       | 1945 | 1895       | 1840 |
| CF Switches                                                                                  | SW2-5                            | SW2-4                  | SW2-3 |      |                                |            |            |            |            |            |      |            |      |
| Low-Clg Default:                                                                             | OFF                              | OFF                    | OFF   | 835  | 760                            | 685        | 620        | See Note 4 |            |            |      |            |      |
| Low-Cooling<br>(SW2-5,4,3)                                                                   | OFF                              | OFF                    | ON    | 690  | 605                            | See Note 4 |            |            |            |            |      |            |      |
|                                                                                              | OFF                              | ON                     | OFF   | 835  | 760                            | 685        | 620        | See Note 4 |            |            |      |            |      |
|                                                                                              | OFF                              | ON                     | ON    | 1055 | 995                            | 930        | 865        | 810        | 750        | See Note 4 |      |            |      |
|                                                                                              | ON                               | OFF                    | OFF   | 1225 | 1170                           | 1115       | 1060       | 1000       | 945        | 895        | 840  | See Note 4 |      |
|                                                                                              | ON                               | OFF                    | ON    | 1405 | 1355                           | 1305       | 1255       | 1205       | 1155       | 1105       | 1060 | 1015       | 965  |
|                                                                                              | ON                               | ON                     | OFF   | 1605 | 1560                           | 1515       | 1470       | 1425       | 1380       | 1335       | 1290 | 1245       | 1205 |
|                                                                                              | ON                               | ON                     | ON    | 1950 | 1910                           | 1870       | 1835       | 1795       | 1760       | 1720       | 1680 | 1645       | 1605 |
|                                                                                              |                                  |                        |       |      |                                |            |            |            |            |            |      |            |      |
| Cont. Fan Default:                                                                           | OFF                              | OFF                    | OFF   | 835  | 760                            | 685        | 620        | See Note 4 |            |            |      |            |      |
| Continuous Fan<br>(SW2-5,4,3)                                                                | OFF                              | OFF                    | ON    | 690  | 605                            | See Note 4 |            |            |            |            |      |            |      |
|                                                                                              | OFF                              | ON                     | OFF   | 835  | 760                            | 685        | 620        | See Note 4 |            |            |      |            |      |
|                                                                                              | OFF                              | ON                     | ON    | 1055 | 995                            | 930        | 865        | 810        | 750        | See Note 4 |      |            |      |
|                                                                                              | ON                               | OFF                    | OFF   | 1225 | 1170                           | 1115       | 1060       | 1000       | 945        | 895        | 840  | See Note 4 |      |
|                                                                                              | ON                               | OFF                    | ON    | 1405 | 1355                           | 1305       | 1255       | 1205       | 1155       | 1105       | 1060 | 1015       | 965  |
|                                                                                              | ON                               | ON                     | OFF   | 1405 | 1355                           | 1305       | 1255       | 1205       | 1155       | 1105       | 1060 | 1015       | 965  |
|                                                                                              | ON                               | ON                     | ON    | 1405 | 1355                           | 1305       | 1255       | 1205       | 1155       | 1105       | 1060 | 1015       | 965  |
|                                                                                              |                                  |                        |       |      |                                |            |            |            |            |            |      |            |      |
| Heating (SW1)                                                                                | Heat Airflow <sup>3</sup>        |                        |       | 1510 | 1460                           | 1415       | 1365       | 1315       | 1270       | 1220       | 1170 | 1140       | 1090 |

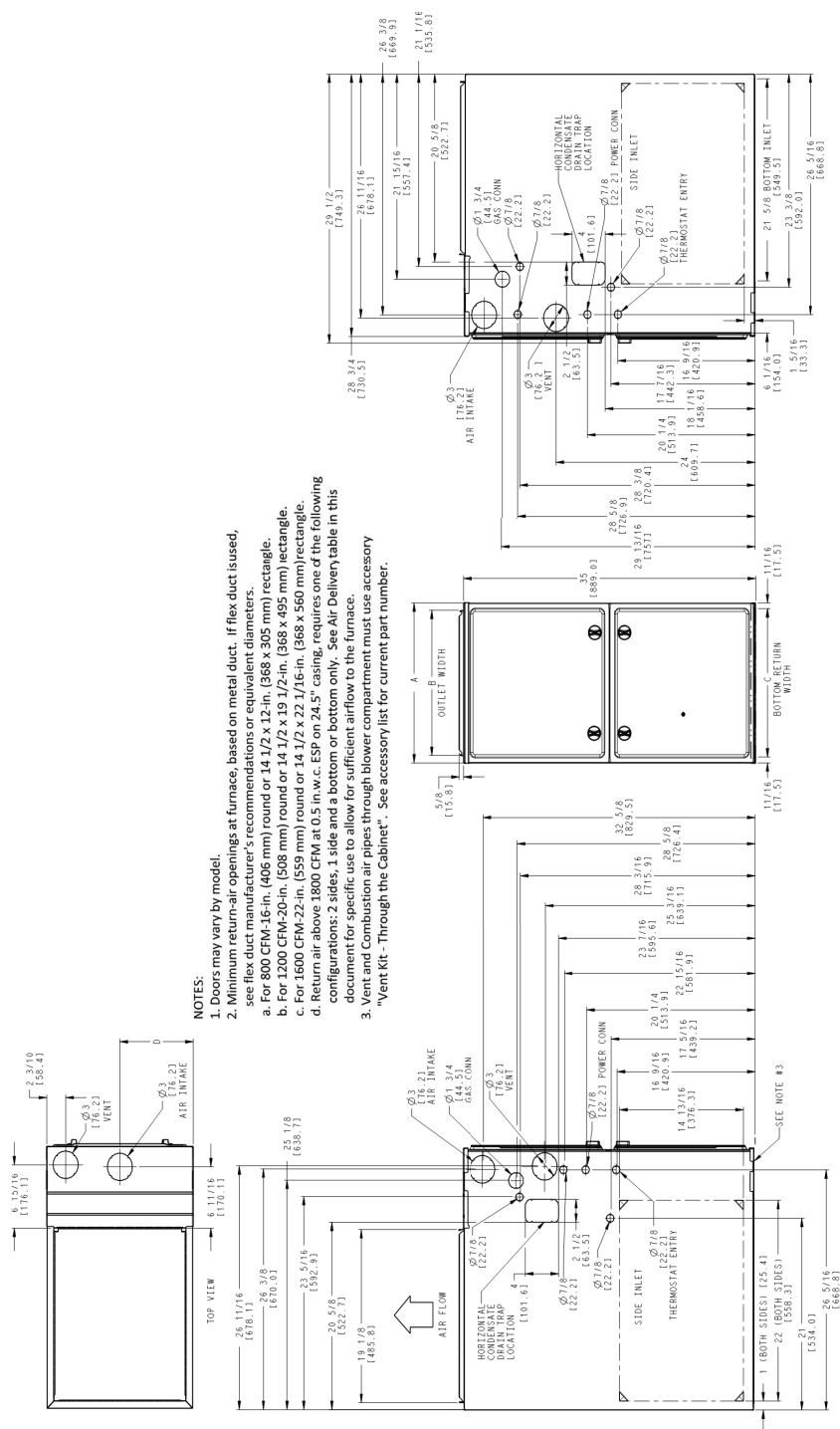
## Air Delivery - CFM (With Filter) (Continued)

| COOLING <sup>4</sup> AND HEATING AIR DELIVERY - CFM (Bottom Return <sup>5</sup> with Filter) |                                  |       |       |                                |      |            |            |            |            |            |            |            |      |
|----------------------------------------------------------------------------------------------|----------------------------------|-------|-------|--------------------------------|------|------------|------------|------------|------------|------------|------------|------------|------|
| (SW1-5 and SW4-3 set to OFF, except as indicated. See Notes 1 and 2.)                        |                                  |       |       |                                |      |            |            |            |            |            |            |            |      |
| Unit Size: 1002120                                                                           | Clg/CF Switch settings           |       |       | External Static Pressure (ESP) |      |            |            |            |            |            |            |            |      |
| Clg Switches:                                                                                | SW2-8                            | SW2-7 | SW2-6 | 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   | 2015                           | 1975 | 1935       | 1895       | 1855       | 1820       | 1785       | 1745       | 1705       | 1655 |
| Cooling<br>(SW2-8,7,6)                                                                       | OFF                              | OFF   | ON    | 840                            | 760  | 675        | See Note 4 |            |            |            |            |            |      |
|                                                                                              | OFF                              | ON    | OFF   | 1065                           | 1000 | 935        | 865        | See Note 4 |            |            |            |            |      |
|                                                                                              | OFF                              | ON    | ON    | 1250                           | 1190 | 1135       | 1075       | 1015       | See Note 4 |            |            |            |      |
|                                                                                              | ON                               | OFF   | OFF   | 1435                           | 1380 | 1330       | 1280       | 1230       | 1175       | See Note 4 |            |            |      |
|                                                                                              | ON                               | OFF   | ON    | 1640                           | 1590 | 1545       | 1500       | 1455       | 1410       | 1365       | 1320       | See Note 4 |      |
|                                                                                              | ON                               | ON    | OFF   | 2015                           | 1975 | 1935       | 1895       | 1855       | 1820       | 1785       | 1745       | 1705       | 1655 |
|                                                                                              | ON                               | ON    | ON    | 2220                           | 2180 | 2145       | 2105       | 2070       | 2035       | 1995       | 1900       | 1790       | 1665 |
|                                                                                              | Maximum Clg Airflow <sup>2</sup> |       |       | 2360                           | 2320 | 2265       | 2215       | 2160       | 2100       | 2005       | 1905       | 1790       | 1665 |
| CF Switches                                                                                  | SW2-5                            | SW2-4 | SW2-3 |                                |      |            |            |            |            |            |            |            |      |
| Low-Clg Default:                                                                             | OFF                              | OFF   | OFF   | 840                            | 760  | 675        | See Note 4 |            |            |            |            |            |      |
| Low-Cooling<br>(SW2-5,4,3)                                                                   | OFF                              | OFF   | ON    | 700                            | 605  | See Note 4 |            |            |            |            |            |            |      |
|                                                                                              | OFF                              | ON    | OFF   | 840                            | 760  | 675        | See Note 4 |            |            |            |            |            |      |
|                                                                                              | OFF                              | ON    | ON    | 1065                           | 1000 | 935        | 865        | See Note 4 |            |            |            |            |      |
|                                                                                              | ON                               | OFF   | OFF   | 1250                           | 1190 | 1135       | 1075       | 1015       | See Note 4 |            |            |            |      |
|                                                                                              | ON                               | OFF   | ON    | 1435                           | 1380 | 1330       | 1280       | 1230       | 1175       | See Note 4 |            |            |      |
|                                                                                              | ON                               | ON    | OFF   | 1640                           | 1590 | 1545       | 1500       | 1455       | 1410       | 1365       | 1320       | See Note 4 |      |
|                                                                                              | ON                               | ON    | ON    | 2015                           | 1975 | 1935       | 1895       | 1855       | 1820       | 1785       | 1745       | 1705       | 1655 |
|                                                                                              |                                  |       |       |                                |      |            |            |            |            |            |            |            |      |
| Cont. Fan Default:                                                                           | OFF                              | OFF   | OFF   | 840                            | 760  | 675        | See Note 4 |            |            |            |            |            |      |
| Continuous Fan<br>(SW2-5,4,3)                                                                | OFF                              | OFF   | ON    | 700                            | 605  | See Note 4 |            |            |            |            |            |            |      |
|                                                                                              | OFF                              | ON    | OFF   | 840                            | 760  | 675        | See Note 4 |            |            |            |            |            |      |
|                                                                                              | OFF                              | ON    | ON    | 1065                           | 1000 | 935        | 865        | See Note 4 |            |            |            |            |      |
|                                                                                              | ON                               | OFF   | OFF   | 1065                           | 1000 | 935        | 865        | See Note 4 |            |            |            |            |      |
|                                                                                              | ON                               | OFF   | ON    | 1065                           | 1000 | 935        | 865        | See Note 4 |            |            |            |            |      |
|                                                                                              | ON                               | ON    | OFF   | 1065                           | 1000 | 935        | 865        | See Note 4 |            |            |            |            |      |
|                                                                                              | ON                               | ON    | ON    | 1065                           | 1000 | 935        | 865        | See Note 4 |            |            |            |            |      |
|                                                                                              |                                  |       |       |                                |      |            |            |            |            |            |            |            |      |
| Heating (SW1)                                                                                | Heat Airflow <sup>3</sup>        |       |       | 1855                           | 1810 | 1765       | 1720       | 1680       | 1640       | 1595       | 1555       | 1515       | 1470 |
|                                                                                              |                                  |       |       |                                |      |            |            |            |            |            |            |            |      |
| Unit Size: 1202422                                                                           | Clg/CF Switch settings           |       |       | External Static Pressure (ESP) |      |            |            |            |            |            |            |            |      |
| Clg Switches:                                                                                | SW2-8                            | SW2-7 | SW2-6 | 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   | 2025                           | 1975 | 1925       | 1875       | 1830       | 1780       | 1730       | 1675       | 1630       | 1585 |
| Cooling<br>(SW2-8,7,6)                                                                       | OFF                              | OFF   | ON    | 920                            | 830  | See Note 4 |            |            |            |            |            |            |      |
|                                                                                              | OFF                              | ON    | OFF   | 1125                           | 1050 | 970        | 890        | See Note 4 |            |            |            |            |      |
|                                                                                              | OFF                              | ON    | ON    | 1275                           | 1205 | 1130       | 1060       | 995        | See Note 4 |            |            |            |      |
|                                                                                              | ON                               | OFF   | OFF   | 1470                           | 1410 | 1345       | 1280       | 1220       | 1160       | See Note 4 |            |            |      |
|                                                                                              | ON                               | OFF   | ON    | 1670                           | 1610 | 1555       | 1500       | 1440       | 1380       | 1330       | See Note 4 |            |      |
|                                                                                              | ON                               | ON    | OFF   | 2025                           | 1975 | 1925       | 1875       | 1830       | 1780       | 1730       | 1675       | See Note 4 |      |
|                                                                                              | ON                               | ON    | ON    | 2255                           | 2210 | 2160       | 2120       | 2075       | 2030       | 1985       | 1940       | 1825       | 1685 |
|                                                                                              | Maximum Clg Airflow <sup>2</sup> |       |       | 2455                           | 2410 | 2370       | 2315       | 2250       | 2190       | 2115       | 1985       | 1830       | 1685 |
| CF Switches                                                                                  | SW2-5                            | SW2-4 | SW2-3 |                                |      |            |            |            |            |            |            |            |      |
| Low-Clg Default:                                                                             | OFF                              | OFF   | OFF   | 920                            | 830  | See Note 4 |            |            |            |            |            |            |      |
| Low-Cooling<br>(SW2-5,4,3)                                                                   | OFF                              | OFF   | ON    | 770                            | 665  | See Note 4 |            |            |            |            |            |            |      |
|                                                                                              | OFF                              | ON    | OFF   | 920                            | 830  | See Note 4 |            |            |            |            |            |            |      |
|                                                                                              | OFF                              | ON    | ON    | 1125                           | 1050 | 970        | 890        | See Note 4 |            |            |            |            |      |
|                                                                                              | ON                               | OFF   | OFF   | 1275                           | 1205 | 1130       | 1060       | 995        | See Note 4 |            |            |            |      |
|                                                                                              | ON                               | OFF   | ON    | 1470                           | 1410 | 1345       | 1280       | 1220       | 1160       | See Note 4 |            |            |      |
|                                                                                              | ON                               | ON    | OFF   | 1670                           | 1610 | 1555       | 1500       | 1440       | 1380       | 1330       | See Note 4 |            |      |
|                                                                                              | ON                               | ON    | ON    | 2025                           | 1975 | 1925       | 1875       | 1830       | 1780       | 1730       | 1675       | See Note 4 |      |
|                                                                                              |                                  |       |       |                                |      |            |            |            |            |            |            |            |      |
| Cont. Fan Default:                                                                           | OFF                              | OFF   | OFF   | 920                            | 830  | See Note 4 |            |            |            |            |            |            |      |
| Continuous Fan<br>(SW2-5,4,3)                                                                | OFF                              | OFF   | ON    | 770                            | 665  | See Note 4 |            |            |            |            |            |            |      |
|                                                                                              | OFF                              | ON    | OFF   | 920                            | 830  | See Note 4 |            |            |            |            |            |            |      |
|                                                                                              | OFF                              | ON    | ON    | 1125                           | 1050 | 970        | 890        | See Note 4 |            |            |            |            |      |
|                                                                                              | ON                               | OFF   | OFF   | 1125                           | 1050 | 970        | 890        | See Note 4 |            |            |            |            |      |
|                                                                                              | ON                               | OFF   | ON    | 1125                           | 1050 | 970        | 890        | See Note 4 |            |            |            |            |      |
|                                                                                              | ON                               | ON    | OFF   | 1125                           | 1050 | 970        | 890        | See Note 4 |            |            |            |            |      |
|                                                                                              | ON                               | ON    | ON    | 1125                           | 1050 | 970        | 890        | See Note 4 |            |            |            |            |      |
|                                                                                              |                                  |       |       |                                |      |            |            |            |            |            |            |            |      |
| Heating (SW1)                                                                                | Heat Airflow <sup>3</sup>        |       |       | 2085                           | 2035 | 1985       | 1940       | 1890       | 1845       | 1795       | 1750       | 1700       | 1660 |

## NOTES for Cooling and Heating Air Delivery - CFM (Bottom Return with Filter)

- Nominal 350 CFM/ton cooling airflow is delivered with SW1-5 and SW4-3 set to OFF.  
Set both SW1-5 ON for nominal 400 CFM/ton (+15% airflow).  
Set SW4-3 to ON for nominal 325 CFM/ton (-7%).  
Set SW1-5 to OFF and SW4-3 to ON for nominal 370 CFM/ton (+7% airflow)  
The above adjustments in airflow are subject to motor horsepower range/capacity  
This applies to Cooling and Low-Cooling airflow, but does not affect continuous fan airflow.
- Maximum cooling airflow is achieved when switches SW2-6, SW2-7, SW2-8 and SW1-5 are set to ON, and SW4-3 is set to OFF.
- All heating CFM's are when comfort/efficiency adjustment switch SW1-4 is set to OFF.
- Ductwork must be sized for high-heating CFM within the operational range of ESP. Operation within the blank areas of the chart is not recommended because high-heat operation will be above 1.0 ESP.
- All airflows on 21" (533 mm) casing size furnaces are 5% less on side-return only installations.
- Side returns for 24.5" (622 mm) casing sizes require two sides, or a side and bottom to allow sufficient airflow at the return of the furnace.
- Airflows over 1800 CFM require bottom return, two-side return, or bottom and side return or excessive watt draw may result. A minimum filter size of 20x25" (508 x 635 mm) is required.

# DIMENSIONAL DRAWING



## NOTES:

- Doors may vary by model.
- Minimum return-air openings at furnace, based on metal duct. If flex duct is used, see flex duct manufacturer's recommendations or equivalent diameters.
  - For 800 CFM-16-in. (406 mm) round or 14 1/2 x 12-in. (368 x 305 mm) rectangle.
  - For 1200 CFM-20-in. (508 mm) round or 14 1/2 x 19 1/2-in. (368 x 495 mm) rectangle.
  - For 1600 CFM-22-in. (559 mm) round or 14 1/2 x 22 1/16-in. (368 x 560 mm) rectangle.
- Return air above 1800 CFM at 0.5 in.w.c. ESP on 24.5" casing, requires one of the following configurations: 2 sides, 1 side and a bottom or bottom only. See Air Delivery table in this document for specific use to allow for sufficient airflow to the furnace.
- Vent and Combustion air pipes through blower compartment must use accessory "Vent Kit - Through the Cabinet". See accessory list for current part number.

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NOTE: ALL DIMENSIONS IN INCH (MM)

| FURNACE SIZE | A             | B            | C                  | D            | SHIP WT.<br>LB (KG) |
|--------------|---------------|--------------|--------------------|--------------|---------------------|
|              | CABINET WIDTH | OUTLET WIDTH | BOTTOM INLET WIDTH | AIR INTAKE   |                     |
| 0401410      | 14-3/16 (361) | 12-1/2 (319) | 12-9/16 (322)      | 7-1/8 (181)  | 123 (55.8)          |
| 0401712      | 17-1/2 (445)  | 15-7/8 (403) | 16 (406)           | 8-3/4 (222)  | 136 (61.7)          |
| 0601412      | 14-3/16 (361) | 12-1/2 (319) | 12-9/16 (322)      | 7-1/8 (181)  | 132 (59.9)          |
| 0601714      | 17-1/2 (445)  | 15-7/8 (403) | 16 (406)           | 8-3/4 (222)  | 146 (66.2)          |
| 0801716      | 17-1/2 (445)  | 15-7/8 (403) | 16 (406)           | 8-3/4 (222)  | 150 (68.0)          |
| 0802120      | 21 (533)      | 19-3/8 (492) | 19-1/2 (495)       | 10-1/2 (267) | 161 (73.0)          |
| 1002120      | 21 (533)      | 19-3/8 (492) | 19-1/2 (495)       | 10-1/2 (267) | 170 (77.1)          |
| 1202422      | 24-1/2 (622)  | 22-7/8 (581) | 23 (584)           | 12-1/4 (311) | 189 (85.7)          |

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