

# ADDENDUM

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Project: Murray Ward Meetinghouse HVAC

Project No.: 503476023020101

Addendum No.: 1

Project Address: 1705 Murray Drive, Colorado Springs, CO 80915

Date: June 2<sup>nd</sup>, 2023

Owner: The Church of Jesus Christ of Latter-day Saints, a Utah corporation  
sole

From (Architect): Engineered Systems Associates

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## Instructions to Prospective Bidders:

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents and/or prior Addenda as noted below. All conditions, requirements, materials, and workmanship are to be as described in the Contract Documents unless specifically stated otherwise. This Addendum consists of 1 page(s) and 28 pg. attachment(s), for a total of 29 pages.

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### 1. Changes to prior Addenda:

- a. None.

### 2. Changes to Bidding Requirements:

- a. The bid date has been postponed one week until June 15, 2023. The time is to remain the same at 1:30 pm.

### 3. Changes to Conditions of the Contract:

- a. See attached submittal for the pre-ordered Carrier HVAC equipment. This equipment is to be included in your bid. We will provide an allowance for purchasing this equipment in the final addendum.

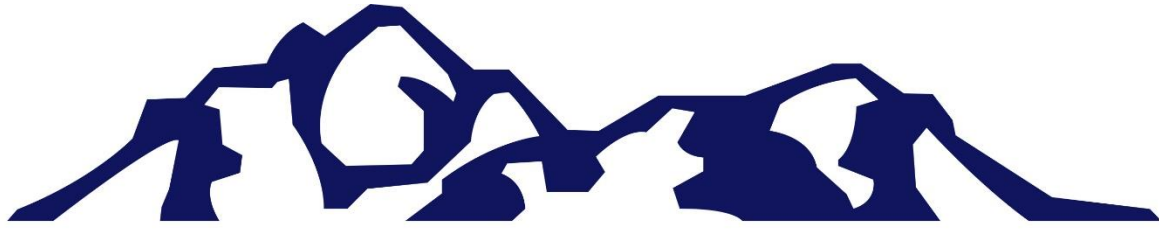
### 4. Changes to Specifications:

- a. None.

### 5. Changes to Drawings:

- a. None.

**End of Addendum**



# MOUNTAINLAND™

## SUPPLY COMPANY

*1433 West 130 South  
Orem, UT 84058  
Phone: (801)-224-1020*

*3145 South Washington Street  
Salt Lake City, UT 84165-1180  
Phone: (801)-487-8565*

*1446 South 270 East  
St. George, UT 84790  
Phone: (435)-628-9415*

### **CONTRACTOR**

### **JOB NAME**

*Thank you for your business  
contact our commercial HVAC sales department if you have any questions on the following equipment.*

*Orem Commercial HVAC sales Department: 801-224-1020*

*Salt Lake City Commercial HVAC sales Department: 801-487-8565*

*St. George Commercial HVAC sales Department: 435-628-9415*

**SUBMITTAL REPORT**

## 59SC5B

### Comfort™ 95 Single-Stage, 4-Way Multipoise, Condensing Gas Furnace



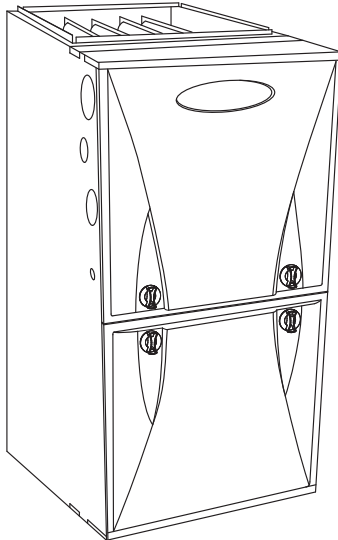
#### MARK FOR:

F1a-F3 &

F6-F7B 59SC5B100E21--20

F-4, F-5 59SC5B120E24--22

## Product Data



The 59SC5B Multipoise Comfort™ Condensing Gas Furnace features <sup>A11263</sup> SEER--boosting year-round electrical efficiency when paired with a compatible condensing unit. Energy efficiency is at the heart of this furnace with up to 96.5% AFUE, gas efficiency and the electrically-efficient fixed-speeds, constant torque (FCT) ECM blower motor. This gas furnace also features 4-way multipoise installation flexibility, and is available in eleven model sizes. All sizes except the 26,000 BTUH model can be vented for direct vent/two-pipe, ventilated combustion air, or single-pipe applications. The 26,000 BTUH model can use the same 2-pipe venting system using outside air for combustion, but is not considered direct-vent. All sizes are design certified in Canada, and select sizes are certified for mobile/manufactured home use with conversion kit accessory.

### PERFORMANCE

- Fixed-speeds, constant torque (FCT) ECM blower motor for electrically efficient operation all year long in heating, cooling and continuous fan operation.
- Single-speed inducer motor, and single-stage gas valve.
- Silicon Nitride PowerHeat™ Hot Surface Igniter.
- Dual fuel capable HybridHeat™ with a compatible heat pump and thermostat for energy-saving heating performance
- Adjustable blower speed for heating and cooling.
- Aluminized-steel primary heat exchanger.
- Stainless-steel condensing secondary heat exchanger.

### INSTALLATION FLEXIBILITY

- 4-way multipoise design for upflow, downflow or horizontal installation, with unique vent elbow for optional venting through-the-cabinet downflow venting capability.
- Factory-configured ready for upflow applications.
- Ideal height 35" (889 mm) cabinet: short enough for taller coils, but still allows enough room for service.
- Two-pipe venting, single-pipe venting or ventilated combustion air.

### APPLICATIONS

- Approved for Twinning applications with accessory kit (060E17--14, 080E17--16, 080E21--20, 100E21--20, 120E24--22, 140E24--22 models, only).
- Approved for Manufactured Housing/Mobile Home applications with MH accessory kit.
- Convertible to propane with gas conversion accessory kit.

### CERTIFICATIONS

- All sizes meet ENERGY STAR® Verizon 4.1 criteria for gas furnaces: 95%+ AFUE.
- 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.
- All sizes can be installed in air quality management districts with a 40 ng/J NOx emissions requirements.

**Comfort**  
SERIES



| FURNACE          | 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/HORIZONTAL | DOWNFLOW |              | HEATING CFM†    | HEATING ESP (in. W.C.) |                                  |          |
| 59SC5B026E14--10 | 35                      | 29.50 | 14.20 | 25,000                     | 96.0%             | 95.0%    | YES          | 605             | 0.10                   | 895                              | 1/3      |
| 59SC5B040E14--10 | 35                      | 29.50 | 14.20 | 39,000                     | 96.0%             | 95.0%    | YES          | 695             | 0.10                   | 950                              | 1/2      |
| 59SC5B040E17--12 | 35                      | 29.50 | 17.50 | 39,000                     | 96.5%             | 95.0%    | YES          | 650             | 0.10                   | 1010                             | 1/2      |
| 59SC5B060E14--12 | 35                      | 29.50 | 14.20 | 58,000                     | 95.0%             | 95.0%    | YES          | 930             | 0.12                   | 1120                             | 1/2      |
| 59SC5B060E17--14 | 35                      | 29.50 | 17.50 | 58,000                     | 96.5%             | 95.0%    | YES          | 1010            | 0.12                   | 1330                             | 3/4      |
| 59SC5B080E17--16 | 35                      | 29.50 | 17.50 | 78,000                     | 96.5%             | 95.0%    | YES          | 1325            | 0.12                   | 1665                             | 3/4      |
| 59SC5B080E21--20 | 35                      | 29.50 | 21.00 | 78,000                     | 96.5%             | 95.0%    | YES          | 1330            | 0.12                   | 1855                             | 1        |
| 59SC5B100E21--20 | 35                      | 29.50 | 21.00 | 97,000                     | 96.3%             | 95.0%    | YES          | 1730            | 0.15                   | 2125                             | 1        |
| 59SC5B100E21--22 | 35                      | 29.50 | 21.00 | 97,000                     | 96.3%             | 95.0%    | YES          | 1785            | 0.15                   | 2065                             | 1        |
| 59SC5B120E24--22 | 35                      | 29.50 | 24.00 | 116,000                    | 96.1%             | 95.0%    | YES          | 2020            | 0.20                   | 2105                             | 1        |
| 59SC5B140E24--22 | 35                      | 29.50 | 24.00 | 135,000                    | 95.0%             | 95.0%    | YES          | 2130            | 0.20                   | 2310                             | 1        |

\*. Capacity in accordance with DOE test procedures. Ratings are position dependent. See rating plate.

†. Heating CFM at factory default blower motor heating tap settings

ESP - External Static Pressure

## FEATURES AND BENEFITS

**HYBRID HEAT® Dual Fuel System** - This system can provide more control over your monthly energy bills by automatically selecting the most economical method of heating. With HYBRID HEAT components, our system automatically switches between the gas furnace and the electric heat pump as outside temperatures change to maintain greater efficiency and comfort than with any traditional single-source heating system. The heat pump also delivers high-efficiency cooling in the summer.

**Power Heat™ Igniter** - Carrier's unique SiN igniter is not only physically robust but it is also electrically robust. It is capable of running at line voltage and does not require complex voltage regulators as do other brands. This unique feature further enhances the gas furnace reliability and continues Carrier's tradition of technology leadership and innovation in providing a reliable and durable product.

**Comfort™ ECM Blower Motor** - This basic ECM, or electronically commutated motor, can provide an efficiency enhancement for select Carrier air conditioner or heat pump systems. It uses less electrical power than its PSC counterpart and has 5 speeds.

**Reliable Heat Exchanger Design** - The aluminized steel, clam shell primary heat exchanger has a crimped, no-weld seam create an efficient, robust design for this essential component.

The condensing heat exchanger, a stainless steel fin and tube design, is positioned in the furnace to extract additional heat. Stainless steel coupling box componentry between heat exchangers has exceptional corrosion resistance in both natural gas and propane applications.

**Media Filter Cabinet** - Enhanced indoor air quality in the home is made easier with our media filter cabinet-accessory (purchased separately). When installed as a part of the system, this cabinet allows for easy and convenient addition of a Carrier high efficiency air filter.

**4-Way Multipoise Design** - One model for all applications – there is no need to stock special downflow or horizontal models when one unit will do it all.

**Direct or Single-pipe Venting, or Optional Ventilated Combustion Air** - All sizes except the 26,000 BTUH model can be vented for direct vent/two-pipe, ventilated combustion air, or single-pipe applications. The 26,000 BTUH model can use the same 2-pipe venting system using outside air for combustion, but is not considered direct-vent.

**Sealed Combustion System** - This furnace brings in combustion air from outside the furnace, which results in especially quiet operation. By sealing the entire combustion vestibule, the entire furnace can be made quieter, not just the burners.

**Insulated Casing** - Foil-faced insulation in the heat exchanger section of the casing minimizes heat loss.

**Monoport Burners** - The burners are specially designed and finely tuned for smooth, quiet combustion and economical operation.

**Bottom Closure** - Factory-installed for side return; easily removable for bottom return. The multi-use bottom closure can also serve for roll-out protection in horizontal applications, and act as the bottom closure for the optional return air base accessory.

**Blower Access Panel Switch** - Automatically shuts off 115-v power to furnace whenever blower access panel is opened.

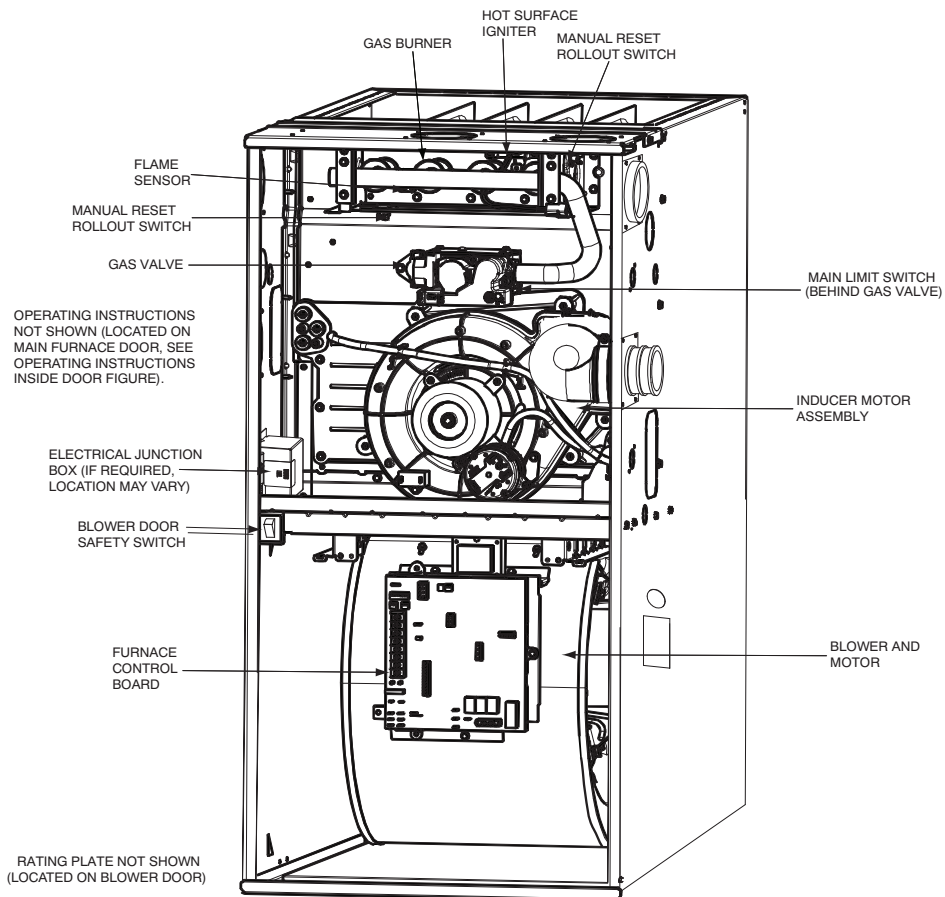
**Quality Registration** - Our furnaces are engineered and manufactured under a quality management system registered to ISO 9001.

# MODEL NUMBER NOMENCLATURE

| 1, 2<br>Gas Furnace<br>59                       | 3<br>Heating Stages<br>M                            | 4<br>Tier<br>N                                                                                   | 5<br>Min. AFUE/NOx<br>7                                                                    | 6<br>Major Series<br>B | 7, 8, 9<br>Heating Input<br>060                                                          | 10<br>Motor Type<br>E                                                                                                                             | 11, 12<br>Width<br>17                                | 13<br>Voltage (1-phase)<br>1   | 14<br>Minor Series<br>1 | 15, 16<br>Airflow<br>16                                                                                            |
|-------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|------------------------|------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|--------------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------|
| 58 = 80% Non-Condensing<br>59 = 90%+ Condensing | M = Modulating<br>S = Single Stage<br>T = Two Stage | B = Base<br>C = Comfort<br>E = Export<br>N = Infinity<br>P = Performance<br>U = Ultra Low<br>Nox | 0 = Std. NOx 80%<br>1 = 80% Low Nox<br>2 = 92%<br>5 = 95%<br>6 = 96%<br>7 = 97%<br>8 = 98% | A<br>B<br>C<br>---     | 026 = 26,000 BTUh<br>040 = 40,000 BTUh<br>060 = 60,000 BTUh<br>---<br>155 = 155,000 BTUh | C = Comm. Variable-Speed Constant Airflow (VCA) ECM<br>E = Fixed-Speeds Constant Torque (FCT) ECM<br>V = Variable-Speed Constant Torque (VCT) ECM | 14 - 14.2"<br>17 - 17.5"<br>21 - 21.0"<br>24 - 24.5" | 1 = 110V/60Hz<br>2 = 230V/50Hz | 1<br>2<br>3<br>---      | 08 = 800 CFM<br>10 = 1000 CFM<br>12 = 1200 CFM<br>14 = 1400 CFM<br>16 = 1600 CFM<br>20 = 2000 CFM<br>22 = 2200 CFM |

A200524

# FURNACE COMPONENTS



A190145

For California Residents:

If installed with a manufactured (mobile) home conversion kit in SCAQMD: This furnace does not meet the SCAQMD Rule 1111 14 ng/J NOx emission limit, and thus is subject to a mitigation fee of up to \$450. This furnace is not eligible for the Clean Air Furnace Rebate Program: [www.CleanAirFurnaceRebate.com](http://www.CleanAirFurnaceRebate.com)

## SPECIFICATIONS

The furnace should be sized to provide 100 percent of the design heating load requirement plus any margin that occurs because of furnace model size capacity increments. None of the furnace model sizes can be used if the heating load is 12,000 BTUH or lower. Use Air Conditioning Contractors of America (Manual J and S); American Society of Heating, Refrigerating, and Air-Conditioning Engineers; or other approved engineering method to calculate heating load estimates and select the furnace. Excessive oversizing of the furnace may cause the furnace and/or vent to fail prematurely, customer discomfort and/or vent freezing.

Failure to follow these guidelines is considered faulty installation and/or misapplication of the furnace; and resulting failure, damage, or repairs may impact warranty coverage.

| Furnace Model                                      |                   | 026E14--10                                  | 040E14--10           | 040E17--12           | 060E14--12           | 060E17--14           |
|----------------------------------------------------|-------------------|---------------------------------------------|----------------------|----------------------|----------------------|----------------------|
| <b>Heating Capacity and Efficiency</b>             |                   |                                             |                      |                      |                      |                      |
| Input (BTUh)                                       |                   | 26,000                                      | 40,000               | 40,000               | 60,000               | 60,000               |
| Output (BTUh)                                      |                   | 25,000                                      | 39,000               | 39,000               | 58,000               | 58,000               |
| Certified Temperature Rise Range °F (°C)           |                   | 25 - 55<br>(14 - 31)                        | 40 - 70<br>(22 - 39) | 40 - 70<br>(22 - 39) | 45 - 75<br>(25 - 42) | 40 - 70<br>(22 - 39) |
| <b>Airflow Capacity and Blower Data</b>            |                   |                                             |                      |                      |                      |                      |
| Rated External Static                              | Heating           | 0.10                                        | 0.10                 | 0.10                 | 0.12                 | 0.12                 |
|                                                    | Cooling           | 0.50                                        | 0.50                 | 0.50                 | 0.50                 | 0.50                 |
| Airflow Delivery @ Rated                           | Heating           | 605                                         | 695                  | 650                  | 930                  | 1010                 |
| ESP (CFM)                                          | Cooling           | 895                                         | 950                  | 1010                 | 1120                 | 1330                 |
| Cooling Capacity (tons) @                          | 400 CFM/ton       | 2                                           | 2                    | 2.5                  | 2.5                  | 3.5                  |
|                                                    | 350 CFM/ton       | 2.50                                        | 2.50                 | 3                    | 3                    | 4                    |
| Direct-Drive Motor Type                            |                   | Electronically Commutated Motor (ECM)       |                      |                      |                      |                      |
| Direct-Drive Motor HP                              |                   | 1/3                                         | 1/2                  | 1/2                  | 1/2                  | 3/4                  |
| Motor Full Load Amps                               |                   | 4.4                                         | 6.3                  | 6.8                  | 6.3                  | 8.8                  |
| RPM Range                                          |                   | 400 - 1200                                  | 600 - 2000           | 400 - 1200           | 600 - 2000           | 400 - 1200           |
| Speed Selections                                   |                   | 5                                           | 5                    | 5                    | 5                    | 5                    |
| Blower Wheel Dia x Width                           | in.               | 11 x 7                                      | 11 x 7               | 11 x 8               | 11 x 7               | 11 x 8               |
| Air Filtration System                              |                   | Field Supplied Filter                       |                      |                      |                      |                      |
| Filter Used for Certified Watt Data                |                   | 325531-40*                                  |                      |                      |                      |                      |
| <b>Electrical Data</b>                             |                   |                                             |                      |                      |                      |                      |
| Input Voltage                                      | Volts-Hertz-Phase | 115-60-1                                    |                      |                      |                      |                      |
| Operating Voltage Range                            | Min-Max           | 104-127                                     |                      |                      |                      |                      |
| Maximum Input Amps                                 | Amps              | 5.1                                         | 7.0                  | 7.5                  | 7.1                  | 9.6                  |
| Unit Ampacity                                      | Amps              | 7.3                                         | 9.7                  | 10.3                 | 9.8                  | 12.9                 |
| Minimum Wire Size                                  | AWG               | 14                                          | 14                   | 14                   | 14                   | 14                   |
| Maximum Wire Length@                               | Feet              | 50                                          | 38                   | 36                   | 38                   | 28                   |
| Minimum Wire Size                                  | (M)               | (15.5)                                      | (11.7)               | (10.9)               | (11.5)               | (8.7)                |
| Maximum Fuse/Ckt Bkr (Time-Delay Type Recommended) | Amps              | 15                                          | 15                   | 15                   | 15                   | 15                   |
| Transformer Capacity (24vac output)                |                   | 40 VA                                       |                      |                      |                      |                      |
| External Control Power Available                   | Heating           | 27.9 VA                                     |                      |                      |                      |                      |
|                                                    | Cooling           | 34.6 VA                                     |                      |                      |                      |                      |
| <b>Controls</b>                                    |                   |                                             |                      |                      |                      |                      |
| Gas Connection Size                                |                   | 1/2" - NPT                                  |                      |                      |                      |                      |
| Burners (Monoport)                                 |                   | 2                                           | 2                    | 2                    | 3                    | 3                    |
| 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                     |                   | See Accessory Listing                       |                      |                      |                      |                      |
| 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                             |                   | Com 24V, R, W, G, Y                         |                      |                      |                      |                      |
| Accessory Connections                              |                   | EAC (115vac); HUM (24vac); 1-stg AC (via Y) |                      |                      |                      |                      |

| Furnace Model                                      |  | 080E17--16                                  | 080E21--20           | 100E21--20           | 100E21--22           | 120E24--22           | 140E24--22           |           |
|----------------------------------------------------|--|---------------------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------|
| <b>Heating Capacity and Efficiency</b>             |  |                                             |                      |                      |                      |                      |                      |           |
| Input (BTUh)                                       |  | 80,000                                      | 80,000               | 100,000              | 100,000              | 120,000              | 140,000              |           |
| Output (BTUh)                                      |  | 78,000                                      | 78,000               | 97,000               | 97,000               | 117,000              | 135,000              |           |
| Certified Temperature Rise Range °F (°C)           |  | 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) | 45 - 75<br>(25 - 42) |           |
| <b>Airflow Capacity and Blower Data</b>            |  |                                             |                      |                      |                      |                      |                      |           |
| Rated External Heating                             |  | 0.12                                        | 0.12                 | 0.15                 | 0.15                 | 0.20                 | 0.20                 |           |
| Static Pressure (in. w.c.) Cooling                 |  | 0.50                                        | 0.50                 | 0.50                 | 0.50                 | 0.50                 | 0.50                 |           |
| Airflow Delivery @ Heating                         |  | 1325                                        | 1330                 | 1730                 | 1785                 | 2020                 | 2130                 |           |
| Rated ESP (CFM) Cooling                            |  | 1665                                        | 1855                 | 2125                 | 2065                 | 2105                 | 2310                 |           |
| Cooling Capacity 400 CFM/ton                       |  | 4                                           | 5                    | 5                    | 5                    | 5                    | 5                    |           |
| (tons) @ CFM/ton 350 CFM/ton                       |  | 4.50                                        | 5.50                 | 6                    | 5.5                  | 6                    | 6                    |           |
| Direct-Drive Motor Type                            |  | Electronically Commutated Motor (ECM)       |                      |                      |                      |                      |                      |           |
| Direct-Drive Motor HP                              |  | 3/4                                         | 1                    | 1                    | 1                    | 1                    | 1                    |           |
| Motor Full Load Amps                               |  | 9.2                                         | 11.5                 | 11.7                 | 11.0                 | 11.0                 | 11.7                 |           |
| RPM Range                                          |  | 400 - 1200                                  | 400 - 1200           | 400 - 1200           | 400 - 1300           | 400 - 1300           | 400 - 1200           |           |
| Speed Selections                                   |  | 5                                           | 5                    | 5                    | 5                    | 5                    | 5                    |           |
| Blower Wheel Dia x Width in.                       |  | 11 x 8                                      | 11 x 10              | 11 x 10              | 11 x 10              | 11 x 11              | 11 x 11              |           |
| Air Filtration System                              |  | Field Supplied Filter                       |                      |                      |                      |                      |                      |           |
| Filter Used for Certified Watt Data                |  | 325531-40*                                  |                      |                      |                      |                      |                      |           |
| <b>Electrical Data</b>                             |  |                                             |                      |                      |                      |                      |                      |           |
| Input Voltage                                      |  | Volts-Hertz-Phase                           |                      | 115-60-1             |                      |                      |                      |           |
| Operating Voltage Range                            |  | Min-Max                                     |                      | 104-127              |                      |                      |                      |           |
| Maximum Input Amps                                 |  | Amps                                        | 10                   | 12.3                 | 12.6                 | 12.6                 | 12.4                 | 12.6      |
| Unit Ampacity                                      |  | Amps                                        | 13.4                 | 16.3                 | 16.7                 | 16.7                 | 16.7                 | 16.7      |
| Minimum Wire Size                                  |  | AWG                                         | 14                   | 12                   | 12                   | 12                   | 12                   | 12        |
| Maximum Wire Length@ Minimum Wire Size             |  | Feet (M)                                    | 27 (8.4)             | 35 (10.7)            | 34 (10.5)            | 34 (10.5)            | 35 (10.7)            | 34 (10.5) |
| Maximum Fuse/Ckt Bkr (Time-Delay Type Recommended) |  | Amps                                        | 15                   | 20                   | 20                   | 20                   | 20                   | 20        |
| Transformer Capacity (24vac output)                |  | 40 VA                                       |                      |                      |                      |                      |                      |           |
| External Control Heating                           |  | 27.9 VA                                     |                      |                      |                      |                      |                      |           |
| Power Available Cooling                            |  | 34.6 VA                                     |                      |                      |                      |                      |                      |           |
| <b>Controls</b>                                    |  |                                             |                      |                      |                      |                      |                      |           |
| Gas Connection Size                                |  | 1/2" - NPT                                  |                      |                      |                      |                      |                      |           |
| Burners (Monoport)                                 |  | 4                                           | 4                    | 5                    | 5                    | 6                    | 7                    |           |
| 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                     |  | See Accessory Listing                       |                      |                      |                      |                      |                      |           |
| 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                             |  | Com 24V, R, W, G, Y                         |                      |                      |                      |                      |                      |           |
| Accessory Connections                              |  | EAC (115vac); HUM (24vac); 1-stg AC (via Y) |                      |                      |                      |                      |                      |           |

## ACCESSORIES

| DESCRIPTION                                                          | PART NUMBER  | 026E14--10            | 040E14--10 | 040E17--12 | 060E14--12 | 060E17--14 |
|----------------------------------------------------------------------|--------------|-----------------------|------------|------------|------------|------------|
| Vent Kit - Through the Cabinet                                       | KGADC0101BVC | X                     | X          | X          | X          | X          |
| Vent Terminal - Concentric - 2" (51 mm)                              | KGAVT0701CVT | See Venting Tables    |            |            |            |            |
| Vent Terminal - Concentric - 3" (76 mm)                              | KGAVT0801CVT |                       |            |            |            |            |
| Vent Terminal Bracket - 2" (51 mm)                                   | KGAVT0101BRA |                       |            |            |            |            |
| Vent Terminal Bracket - 3" (76 mm)                                   | KGAVT0201BRA |                       |            |            |            |            |
| Vent Kit - Rubber Coupling                                           | KGAAC0101RVC |                       |            |            |            |            |
| Freeze Protect Kit - Condensate Drain Line Tape                      | KGAHT0101CFP | X                     | X          | X          | X          | X          |
| Freeze Protect Kit - Condensate Trap with Heat Pad                   | KGAHT0201CFP | X                     | X          | X          | X          | X          |
| CPVC to PVC Drain Adapters - 1/2" CPVC to 3/4" PVC                   | KGAAD0110PVC | X                     | X          | X          | X          | X          |
| Horizontal Trap Grommet - Direct Vent                                | KGACK0101HCK | All 2-Pipe Horizontal |            |            |            |            |
| Condensate Neutralizer Kit                                           | P908-0001*   | X                     | X          | X          | X          | X          |
| External Trap Kit                                                    | KGAE0201ETK  | X                     | X          | X          | X          | X          |
| Downflow Furnace Base Kit for Combustible Floors                     | KGASB0201ALL | X                     | X          | X          | X          | X          |
| Coil Adapter Kits - No Offset                                        | KGADA0101ALL | X                     | X          | X          | X          | X          |
| Coil Adapter Kits - Single Offset                                    | KGADA0201ALL | X                     | X          | X          | X          | X          |
| Coil Adapter Kits - Double Offset                                    | KGADA0301ALL | X                     | X          | X          | X          | X          |
| Return Air Base (Upflow Applications) 14.0-in. wide                  | KGARP0301B14 | X                     | X          | -          | X          | -          |
| Return Air Base (Upflow Applications) 17.5-in. wide                  | KGARP0301B17 | -                     | -          | X          | -          | X          |
| IAQ Device Duct Adapters 20.0-in. IAQ to 16 in. Side Return          | KGAAD0101MEC | 20"x25" IAQ Devices   |            |            |            |            |
| IAQ Device Duct Adapters 24.0-in. IAQ to 16 in. Side Return          | KGAAD0201MEC | 24"x25" IAQ Devices   |            |            |            |            |
| Mobile Home Kit                                                      | KGCMH0601KIT | -                     | X          | X          | X          | X          |
| Gas Conversion Kit - Nat to LP                                       | AGAGC9NPL01A | X                     | -          | -          | -          | -          |
| Gas Conversion Kit - LP to Nat                                       | AGAGC9PNL01A | X                     | -          | -          | -          | -          |
| Gas Conversion Kit - Nat to LP                                       | AGAGC9NPS01B | -                     | X          | X          | X          | X          |
| Gas Conversion Kit - LP to Nat                                       | AGAGC9PNS01B | -                     | X          | X          | X          | X          |
| Gas Valve Tower Port Adapter Kit                                     | 92-1003*     | X                     | X          | X          | X          | X          |
| Twinning Kit                                                         | AGATWNDTE01A | -                     | -          | -          | -          | X          |
| Blower Speed Tap Jumper Kit (10 piece)                               | AGABLRJMP10A | X                     | X          | X          | X          | X          |
| External Bottom Return Filter Rack - 14.5 x 25 inches (366 x 635 mm) | FHG1425-2*   | X                     | X          | -          | X          | -          |
| External Bottom Return Filter Rack - 16 x 25 inches (406 x 635 mm)   | FHG1625-2*   | -                     | -          | X          | -          | X          |
| Filter Washable - 16x25x3/4 (406x635x19 mm)                          | 325531-402*  | X                     | X          | X          | X          | X          |

\*. Purchased from RCD Components  
X = Used with the model furnace



**ACCESSORIES (continued)**

| DESCRIPTION                                                          | PART NUMBER   | 080E17--16            | 080E21--20 | 100E21--20 | 100E21--22 | 120E24--22 | 140E24--22 |
|----------------------------------------------------------------------|---------------|-----------------------|------------|------------|------------|------------|------------|
| Vent Kit - Through the Cabinet                                       | KGADC0101BVC  | X                     | X          | X          | X          | X          | X          |
| Vent Terminal - Concentric - 2" (51 mm)                              | KGAVT0701CVT  | See Venting Tables    |            |            |            |            |            |
| Vent Terminal - Concentric - 3" (76 mm)                              | KGAVT0801CVT  |                       |            |            |            |            |            |
| Vent Terminal Bracket - 2" (51 mm)                                   | KGAVT0101BRA  |                       |            |            |            |            |            |
| Vent Terminal Bracket - 3" (76 mm)                                   | KGAVT0201BRA  |                       |            |            |            |            |            |
| Vent Kit - Rubber Coupling                                           | KG AAC0101RVC |                       |            |            |            |            |            |
| Freeze Protect Kit - Condensate Drain Line Tape                      | KGAHT0101CFP  | X                     | X          | X          | X          | X          | X          |
| Freeze Protect Kit - Condensate Trap with Heat Pad                   | KGAHT0201CFP  | X                     | X          | X          | X          | X          | X          |
| CPVC to PVC Drain Adapters - 1/2" CPVC to 3/4" PVC                   | KG AAD0110PVC | X                     | X          | X          | X          | X          | X          |
| Horizontal Trap Grommet - Direct Vent                                | KGACK0101HCK  | All 2-Pipe Horizontal |            |            |            |            |            |
| Condensate Neutralizer Kit                                           | P908-0001*    | X                     | X          | X          | X          | X          | X          |
| External Trap Kit                                                    | KG AET0201ETK | X                     | X          | X          | X          | X          | X          |
| Downflow Furnace Base Kit for Combustible Floors                     | KGASB0201ALL  | X                     | X          | X          | X          | X          | X          |
| Coil Adapter Kits - No Offset                                        | KGADA0101ALL  | X                     | X          | X          | X          | X          | X          |
| Coil Adapter Kits - Single Offset                                    | KGADA0201ALL  | X                     | X          | X          | X          | X          | X          |
| Coil Adapter Kits - Double Offset                                    | KGADA0301ALL  | X                     | X          | X          | X          | X          | X          |
| Return Air Base (Upflow Applications) 17.5-in. wide                  | KGARP0301B17  | X                     | -          | -          | -          | -          | -          |
| Return Air Base (Upflow Applications) 21.0-in. wide                  | KGARP0301B21  | -                     | X          | X          | X          | -          | -          |
| Return Air Base (Upflow Applications) 24.5-in. wide                  | KGARP0301B24  | -                     | -          | -          | -          | X          | X          |
| IAQ Device Duct Adapters 20.0-in. IAQ to 16 in. Side Return          | KG AAD0101MEC | 20"x25" IAQ Devices   |            |            |            |            |            |
| IAQ Device Duct Adapters 24.0-in. IAQ to 16 in. Side Return          | KG AAD0201MEC | 24"x25" IAQ Devices   |            |            |            |            |            |
| Mobile Home Kit                                                      | KGCMH0601KIT  | X                     | X          | X          | X          | X          | -          |
| Gas Conversion Kit - Nat to LP                                       | AGAGC9NPS01B  | X                     | X          | X          | X          | X          | X          |
| Gas Conversion Kit - LP to Nat                                       | AGAGC9PNS01B  | X                     | X          | X          | X          | X          | X          |
| Gas Valve Tower Port Adapter Kit                                     | 92-1003*      | X                     | X          | X          | X          | X          | X          |
| Twining Kit                                                          | AGATWNDTE01C  | X                     | X          | X          | X          | X          | X          |
| Blower Speed Tap Jumper Kit (10 piece)                               | AGABLRJMP10A  | X                     | X          | X          | X          | X          | X          |
| External Bottom Return Filter Rack - 16 x 25 inches (406 x 635 mm)   | FHG1625-2*    | X                     | -          | -          | -          | -          | -          |
| External Bottom Return Filter Rack - 20x 25 inches (508 x 635 mm)    | FHG2025-2*    | -                     | X          | X          | X          |            |            |
| External Bottom Return Filter Rack - 24.5 x 24 inches (607 x 607 mm) | FHG2424-2*    | -                     | -          | -          | -          | X          | X          |
| Filter Washable - 16x25x3/4 (406x635x19 mm)                          | 325531-402*   | X                     | -          | -          | -          | -          | -          |
| Filter Washable - 20x25x3/4 (508x635x19 mm)                          | 325531-403*   | -                     | X          | X          | X          | -          | -          |
| Filter Washable - 24x25x3/4 (610x635x19 mm)                          | 325531-404*   | -                     | -          | -          | -          | X          | X          |

\*. Order from RCD Components  
X = Used with the model furnace

## Air Delivery - CFM (Bottom Return With Filter)

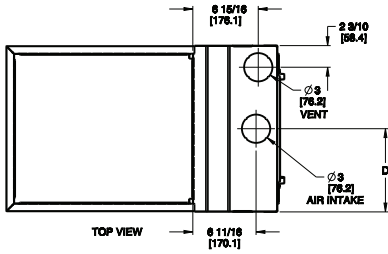
| UNIT SIZE  | WIRE LEAD COLOR        | SPEED TAPS <sup>2, 3</sup><br>(Function) | EXTERNAL STATIC PRESSURE (IN. W.C.) |      |      |      |      |      |      |      |      |      |
|------------|------------------------|------------------------------------------|-------------------------------------|------|------|------|------|------|------|------|------|------|
|            |                        |                                          | 0.1                                 | 0.2  | 0.3  | 0.4  | 0.5  | 0.6  | 0.7  | 0.8  | 0.9  | 1.0  |
| 026E14--10 | Black                  | Cooling. Do not use for heating          | 1045                                | 1010 | 975  | 935  | 895  | 855  | 810  | 760  | 715  | 670  |
|            | Yellow                 | Alt Cooling or alt Heating               | 820                                 | 770  | 730  | 680  | 630  | 585  | 530  | 480  | 435  | 385  |
|            | Orange                 | Alt Cooling or alt Heating               | 655                                 | 600  | 550  | 495  | 435  | 385  | 335  | 265  | -    | -    |
|            | Blue <sup>7</sup>      | Heating or alt Cooling                   | 605                                 | 545  | 490  | 435  | 375  | 335  | 255  | -    | -    | -    |
| 040E14--10 | Red <sup>7</sup>       | Alt Cooling. Do not use for heating      | 480                                 | 415  | 360  | 305  | 235  | -    | -    | -    | -    | -    |
|            | Gray                   | Cooling. Do not use for heating          | 1050                                | 1025 | 1000 | 975  | 950  | 920  | 895  | 870  | 845  | 820  |
|            | Yellow                 | Alt Cooling. Do not use for heating      | 920                                 | 890  | 860  | 830  | 805  | 775  | 745  | 715  | 690  | 660  |
|            | Orange                 | Alt Cooling or alt Heating               | 735                                 | 700  | 665  | 630  | 595  | 555  | 525  | 490  | 450  | 415  |
| 040E17--12 | Blue                   | Heating or alt Cooling                   | 695                                 | 660  | 625  | 590  | 555  | 515  | 480  | 445  | 405  | 370  |
|            | Red <sup>7</sup>       | Alt Cooling. Do not use for heating      | 540                                 | 495  | 455  | 410  | 365  | 320  | 280  | 235  | -    | -    |
|            | Gray                   | Cooling. Do not use for heating          | 1180                                | 1140 | 1100 | 1055 | 1010 | 960  | 915  | 860  | 805  | 735  |
|            | Yellow                 | Alt Cooling. Do not use for heating      | 880                                 | 845  | 810  | 780  | 745  | 710  | 675  | 640  | 600  | 570  |
| 060E14--12 | Blue                   | Heating or alt Cooling                   | 650                                 | 610  | 560  | 515  | 470  | 435  | 395  | 360  | 325  | 265  |
|            | Orange <sup>7</sup>    | Alt Cooling. Do not use for heating      | 525                                 | 460  | 405  | 350  | 320  | 275  | 210  | -    | -    | -    |
|            | Red <sup>7</sup>       | Alt Cooling. Do not use for heating      | 515                                 | 420  | 350  | 310  | 270  | 205  | -    | -    | -    | -    |
|            | Gray                   | Cooling. Do not use for heating          | 1225                                | 1200 | 1175 | 1145 | 1120 | 1095 | 1065 | 1040 | 1015 | 990  |
| 060E17--14 | Yellow                 | Alt Cooling. Do not use for heating      | 1105                                | 1080 | 1050 | 1020 | 990  | 965  | 935  | 905  | 880  | 850  |
|            | Blue                   | Heating or alt Cooling                   | 940                                 | 910  | 875  | 845  | 810  | 775  | 745  | 710  | 680  | 645  |
|            | Orange                 | Alt Cooling or alt Heating               | 725                                 | 690  | 650  | 610  | 570  | 530  | 490  | 445  | 405  | 365  |
|            | Red <sup>7</sup>       | Alt Cooling. Do not use for heating      | 545                                 | 495  | 445  | 395  | 345  | 295  | 245  | -    | -    | -    |
| 080E17--16 | Gray                   | Cooling. Do not use for heating          | 1475                                | 1445 | 1405 | 1370 | 1330 | 1290 | 1255 | 1215 | 1175 | 1140 |
|            | Yellow                 | Alt Cooling or alt Heating               | 1230                                | 1190 | 1155 | 1120 | 1085 | 1050 | 1005 | 970  | 925  | 885  |
|            | Orange                 | Alt Cooling or alt Heating               | 1070                                | 1030 | 990  | 950  | 920  | 875  | 840  | 800  | 755  | 715  |
|            | Blue                   | Heating or alt Cooling                   | 1020                                | 975  | 940  | 900  | 860  | 820  | 775  | 740  | 690  | 650  |
| 080E21--20 | Red                    | Alt Cooling. Do not use for heating      | 700                                 | 590  | 535  | 485  | 460  | 390  | 340  | 300  | 275  | 210  |
|            | Gray <sup>5, 6</sup>   | Cooling. Do not use for heating          | 1820                                | 1790 | 1755 | 1710 | 1665 | 1620 | 1570 | 1525 | 1480 | 1435 |
|            | Yellow                 | Alt Cooling or alt Heating               | 1455                                | 1420 | 1380 | 1345 | 1310 | 1275 | 1240 | 1205 | 1170 | 1135 |
|            | Blue                   | Heating or alt Cooling                   | 1335                                | 1295 | 1260 | 1220 | 1185 | 1150 | 1110 | 1075 | 1040 | 1005 |
| 100E21--20 | Orange                 | Alt Cooling or alt Heating               | 1110                                | 1065 | 1020 | 980  | 935  | 895  | 850  | 810  | 770  | 725  |
|            | Red <sup>7</sup>       | Alt Cooling. Do not use for heating      | 425                                 | 335  | 240  | -    | -    | -    | -    | -    | -    | -    |
|            | Gray <sup>5, 6</sup>   | Cooling. Do not use for heating          | 2045                                | 1995 | 1950 | 1900 | 1855 | 1805 | 1760 | 1710 | 1660 | 1615 |
|            | Yellow                 | Alt Cooling. Do not use for heating      | 1665                                | 1625 | 1575 | 1530 | 1480 | 1435 | 1385 | 1340 | 1285 | 1240 |
| 100E21--22 | Orange                 | Alt Cooling or alt Heating               | 1475                                | 1420 | 1370 | 1320 | 1270 | 1220 | 1170 | 1125 | 1070 | 1025 |
|            | Blue                   | Heating or alt Cooling                   | 1345                                | 1290 | 1235 | 1180 | 1130 | 1080 | 1025 | 975  | 935  | 885  |
|            | Red                    | Alt Cooling. Do not use for heating      | 1155                                | 1080 | 1015 | 960  | 895  | 845  | 790  | 735  | 675  | 620  |
|            | Gray <sup>5, 6</sup>   | Cooling. Do not use for heating          | 2280                                | 2240 | 2200 | 2165 | 2125 | 2085 | 2020 | 1910 | 1795 | 1665 |
| 120E24--22 | Yellow <sup>5, 6</sup> | Alt Cooling. Do not use for heating      | 1860                                | 1815 | 1775 | 1730 | 1690 | 1645 | 1605 | 1560 | 1515 | 1465 |
|            | Blue                   | Heating or alt Cooling                   | 1755                                | 1710 | 1665 | 1620 | 1580 | 1535 | 1485 | 1440 | 1390 | 1340 |
|            | Orange                 | Alt Cooling or alt Heating               | 1530                                | 1480 | 1425 | 1380 | 1325 | 1275 | 1215 | 1160 | 1110 | 1060 |
|            | Red                    | Cooling. Do not use for heating          | 1340                                | 1285 | 1230 | 1170 | 1110 | 1050 | 990  | 930  | 875  | 820  |
| 140E24--22 | Gray <sup>5, 6</sup>   | Cooling. Do not use for heating          | 2215                                | 2180 | 2145 | 2105 | 2065 | 2025 | 1985 | 1940 | 1900 | 1860 |
|            | Yellow <sup>5, 6</sup> | Alt Cooling. Do not use for heating      | 2115                                | 2080 | 2035 | 2000 | 1960 | 1920 | 1880 | 1835 | 1790 | 1740 |
|            | Orange <sup>5, 6</sup> | Alt Cooling. Do not use for heating      | 1975                                | 1935 | 1890 | 1850 | 1805 | 1760 | 1720 | 1670 | 1620 | 1570 |
|            | Blue <sup>5, 6</sup>   | Heating or alt Cooling                   | 1810                                | 1765 | 1715 | 1670 | 1620 | 1570 | 1515 | 1460 | 1405 | 1355 |
| 140E24--22 | Red                    | Alt Cooling. Do not use for heating      | 1530                                | 1475 | 1425 | 1360 | 1300 | 1240 | 1175 | 1115 | 1055 | 1000 |
|            | Gray <sup>5, 6</sup>   | Cooling. Do not use for heating          | 2310                                | 2255 | 2205 | 2155 | 2105 | 2055 | 2005 | 1955 | 1910 | 1885 |
|            | Blue <sup>5, 6</sup>   | Heating or alt Cooling                   | 2065                                | 2020 | 1970 | 1915 | 1860 | 1805 | 1740 | 1690 | 1635 | 1580 |
|            | Yellow <sup>5, 6</sup> | Alt Cooling or alt Heating               | 1850                                | 1800 | 1745 | 1690 | 1640 | 1585 | 1530 | 1475 | 1420 | 1360 |
| 140E24--22 | Orange                 | Alt Cooling. Do not use for heating      | 1500                                | 1440 | 1380 | 1320 | 1260 | 1205 | 1145 | 1085 | 1035 | 955  |
|            | Red                    | Alt Cooling. Do not use for heating      | 1070                                | 960  | 875  | 805  | 710  | 630  | 560  | 490  | 420  | 355  |
|            | Gray <sup>5, 6</sup>   | Cooling. Do not use for heating          | 2505                                | 2465 | 2425 | 2370 | 2310 | 2250 | 2180 | 2090 | 1955 | 1810 |
|            | Blue <sup>5, 6</sup>   | Heating or alt Cooling                   | 2180                                | 2130 | 2085 | 2035 | 1990 | 1945 | 1900 | 1850 | 1800 | 1755 |
| 140E24--22 | Yellow <sup>5, 6</sup> | Alt Cooling or alt Heating               | 1910                                | 1855 | 1810 | 1760 | 1705 | 1655 | 1605 | 1555 | 1505 | 1460 |
|            | Orange                 | Alt Cooling. Do not use for heating      | 1560                                | 1505 | 1445 | 1380 | 1325 | 1265 | 1210 | 1155 | 1100 | 1040 |
| 140E24--22 | Red <sup>7</sup>       | Alt Cooling. Do not use for heating      | 855                                 | 760  | 665  | 565  | 470  | 385  | 305  | -    | -    | -    |

## NOTE:

1. A filter is required for each return-air inlet. Airflow performance includes a 3/4-in. (19 mm) washable filter media (see accessory list). To determine airflow performance without this filter, assume an additional 0.1 in. w.c. available external static pressure.
2. **ADJUST THE BLOWER SPEED TAPS AS NECESSARY FOR THE PROPER AIR TEMPERATURE RISE FOR EACH INSTALLATION.**
3. The "Function" column identifies which speed taps can be used for heating.
4. If the same motor speed tap is needed for heating and cooling, a Jumper Wire accessory kit is available, see Product Data accessories for the current Jumper Wire accessory part number. Reference the "Start-up, Adjustments, and Safety Check" section of installation instructions for further Jumper Wire instructions.
5. Airflows over 1800 CFM require bottom return, two-side return, or bottom and side return. A minimum filter size of 20" x 25" (508 x 635 mm) is required.
6. For upflow applications, air entering from one side into both the side of the furnace and a return air base counts as a side and bottom return.
7. The "-" entry indicates an unstable operating condition.

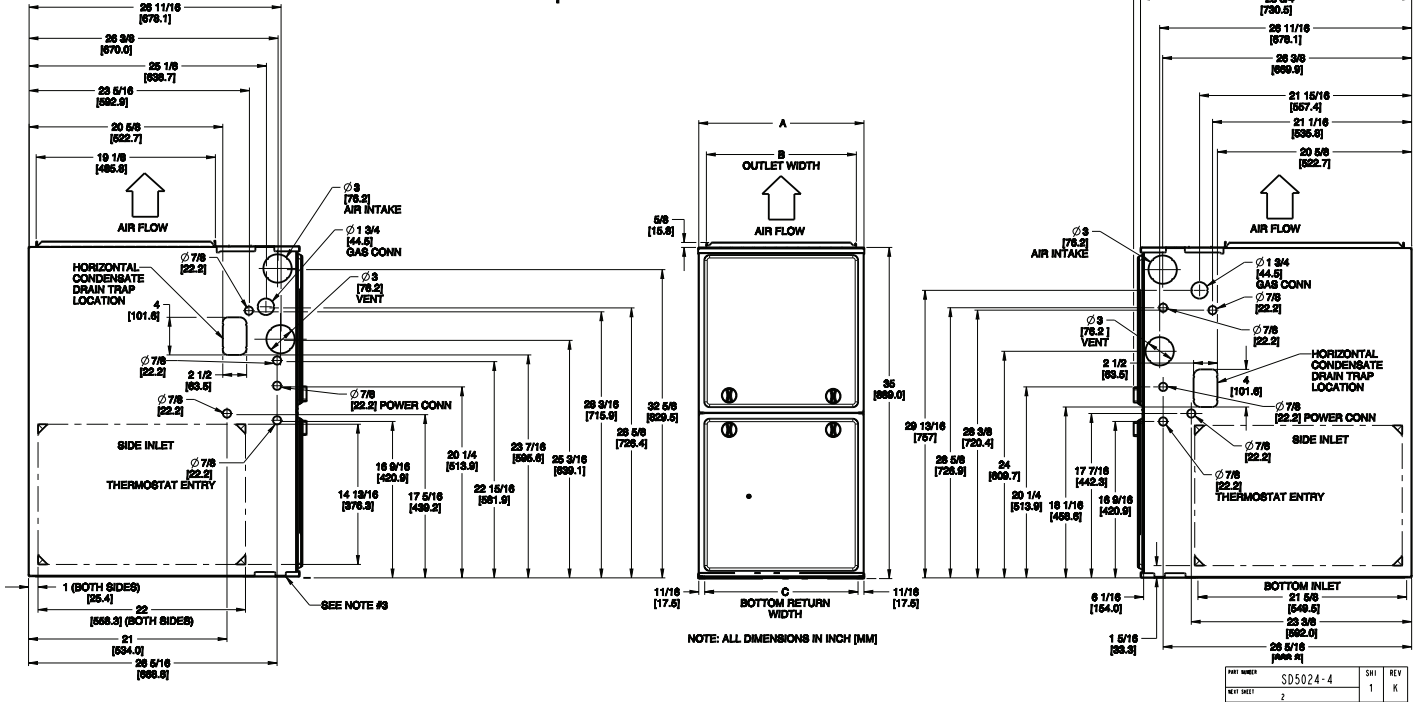
Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

# DIMENSIONAL DRAWING



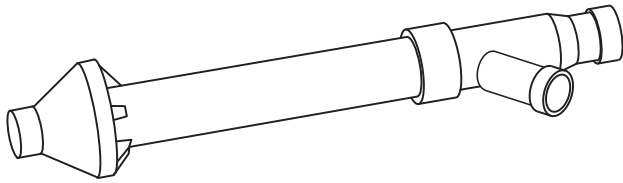
**NOTES:**

1. Doors may vary by model.
2. Minimum return-air openings at furnace, based on metal duct. If flex duct is used, see flex duct manufacturer's recommendations for equivalent diameters.
  - a. For 800 CFM-16-in. (406 mm) round or 14 1/2 x 12-in. (368 x 305 mm) rectangle.
  - b. For 1200 CFM-20-in. (508 mm) round or 14 1/2 x 19 1/2-in. (368 x 495 mm) rectangle.
  - c. For 1600 CFM-22-in. (559 mm) round or 14 1/2 x 22 1/16-in. (368 x 560mm) rectangle.
- d. 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.
3. Vent and Combustion air pipes through blower compartment must use accessory "Vent Kit - Through the Cabinet". See accessory list for current part number.



A180203

| FURNACE SIZE | A             | B            | C                  | D            | SHIP WT.<br>LB (KG) |
|--------------|---------------|--------------|--------------------|--------------|---------------------|
|              | CABINET WIDTH | OUTLET WIDTH | BOTTOM INLET WIDTH | AIR INTAKE   |                     |
| 02E14--10    | 14-3/16 (361) | 12-1/2 (319) | 12-9/16 (322)      | 7-1/8 (181)  | 118.0 (53.5)        |
| 040E14--10   | 14-3/16 (361) | 12-1/2 (319) | 12-9/16 (322)      | 7-1/8 (181)  | 120 (54.4)          |
| 040E17--12   | 17-1/2 (445)  | 15-7/8 (403) | 16 (406)           | 8-3/4 (222)  | 126.5 (57.4)        |
| 060E14--12   | 14-3/16 (361) | 12-1/2 (319) | 12-9/16 (322)      | 7-1/8 (181)  | 129 (58.5)          |
| 060E17--14   | 17-1/2 (445)  | 15-7/8 (403) | 16 (406)           | 8-3/4 (222)  | 138.5 (62.8)        |
| 080E17--16   | 17-1/2 (445)  | 15-7/8 (403) | 16 (406)           | 8-3/4 (222)  | 146.5 (66.5)        |
| 080E21--20   | 21 (533)      | 19-3/8 (492) | 19-1/2 (495)       | 10-1/2 (267) | 154.5 (70.1)        |
| 100E21--20   | 21 (533)      | 19-3/8 (492) | 19-1/2 (495)       | 10-1/2 (267) | 164.5 (74.6)        |
| 100E21--22   | 21 (533)      | 19-3/8 (492) | 19-1/2 (495)       | 10-1/2 (267) | 164.5 (74.6)        |
| 120E24--22   | 24-1/2 (622)  | 22-7/8 (581) | 23 (584)           | 12-1/4 (311) | 179.5 (81.4)        |
| 140E24--22   | 24-1/2 (622)  | 22-7/8 (581) | 23 (584)           | 12-1/4 (311) | 189 (85.7)          |

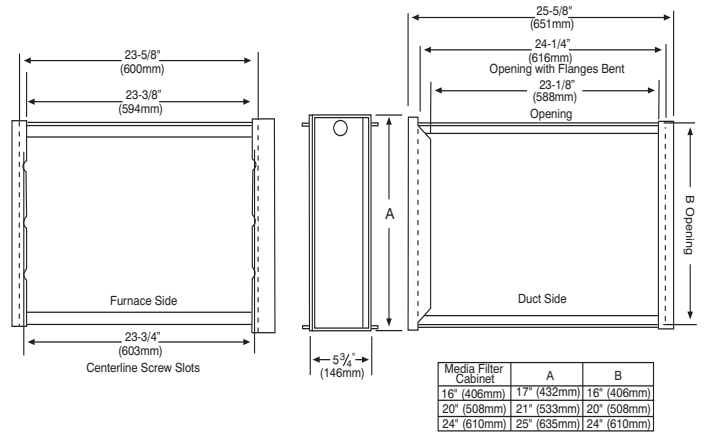


**Concentric Vent Kit**

A93086

A concentric vent kit allows vent and combustion-air pipes to terminate through a single exit in a roof or side wall. One pipe runs inside the other allowing venting through the inner pipe and combustion air to be drawn in through the outer pipe.

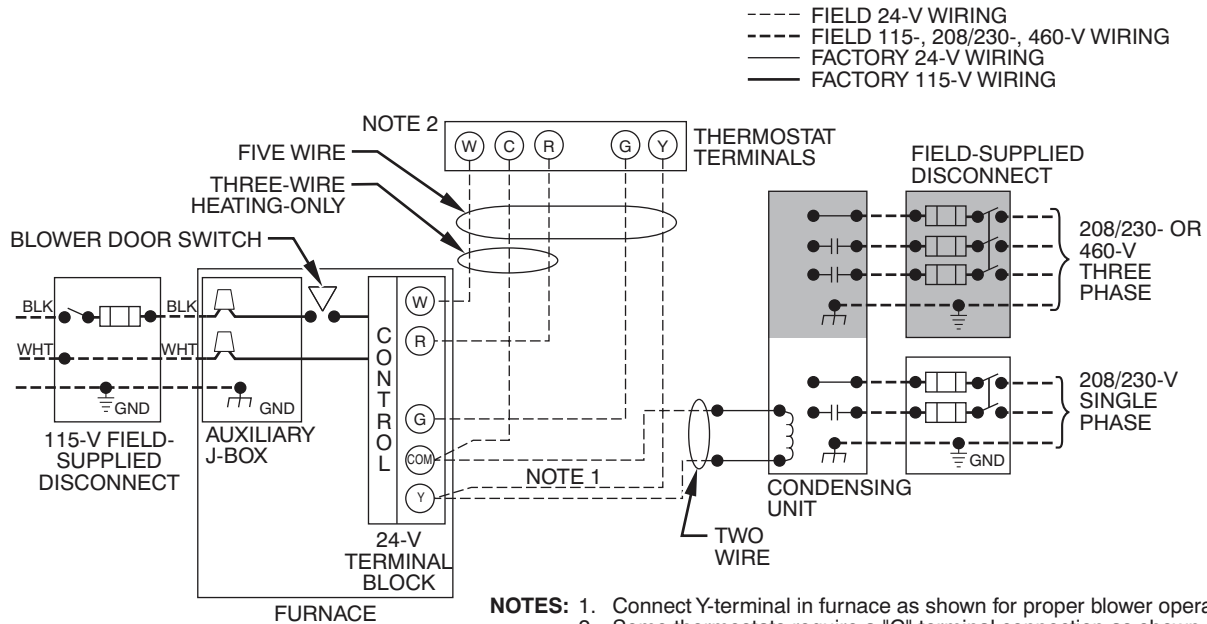
**MEDIA FILTER CABINET (OPTIONAL ACCESSORY)**



NOTE: Media cabinet is matched to the bottom opening on furnace. May also be used for side return.

A12428

**TYPICAL WIRING SCHEMATIC**



- NOTES:**
1. Connect Y-terminal in furnace as shown for proper blower operation.
  2. Some thermostats require a "C" terminal connection as shown.
  3. If any of the original wire, as supplied, must be replaced, use same type or equivalent wire.

A190079

**CNPVP, CNPVT, CNPVU, CNRVU  
Evaporator Coil  
N Coil – Cased and Uncased  
Upflow, Downflow**



|                  |              |
|------------------|--------------|
| <b>MARK FOR:</b> |              |
| CC-1A-CC-2D      |              |
| CC-6-CC-7D       | CNPVP4821ALA |
| CC-3             | CNPVP4221ALA |
| CC4, 5           | CNPVP6024ALA |

## Product Data

This vertical design N-coil is a furnace coil designed to provide the highest standards of reliability and durability. The coils are available for use in Puron®, R-410A refrigerant and R-22 systems.

Both designs have a painted case and come with factory-installed thermostatic expansion valves (TXV). The coils are offered in different width configurations for use in multiple installation applications. Additionally, they are offered in a transition configuration, a design which simplifies making field-supplied transition duct configurations. Easy maintenance is provided as the coil slides out of the cabinet after removing the access door and service panel. The coils are available in sizes 018 through 061 (1-1/2 to 5 tons).

Transition coil models CNPVT are designed for use with one size smaller width furnaces without field modifications.

Aluminum Coils: “L” models are built with aluminum hairpins, designed to resist both general pitting corrosion and excessive indoor Formicary Corrosion. (Formicary Corrosion is an industry phenomenon.)

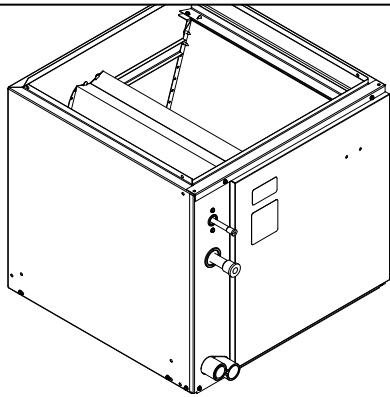


Fig. 1 – CNPVP

A06008

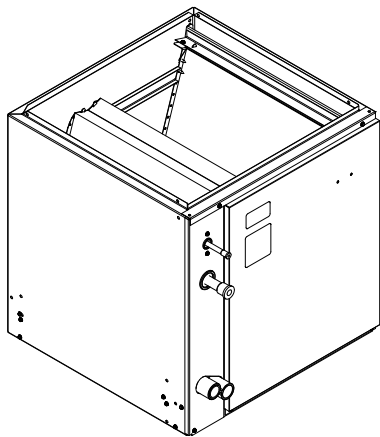


Fig. 2 – CNPVT (Transition)

A06007

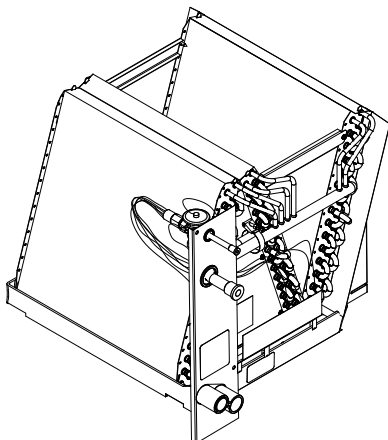


Fig. 3 – CN(P,R)VU

A06004

### STANDARD FEATURES

#### *Water Management*

These coil designs do an excellent job of water management. The coils are designed to avoid water blow-off into the ducts by directing condensate away from the fins and into the drain pan.

#### *Durable Condensate Pan*

Each coil is equipped with a corrosion-resistant condensate drain pan. The condensate drain pan is designed with a slope to help ensure proper drainage, improved moisture removal, and home comfort.

#### *Compact Design*

Unique design offers as much as 2 to 4 in. (51 to 102 mm) less in height to aid in tight installations.

#### *Brass Inserts*

Every condensate pan features two 3/4 in. female threaded brass insert connections. The unique brass inserts provide for a leak-free condensate line connection to prevent water damage.

#### *Refrigerant Connections*

The coils are provided with proven sweat-connections for leak-free operation maintaining system reliability.

#### *Burst Pressures*

These coils meet or exceed burst pressure of 2100 psi which is at least three to five times the pressure they will see in actual application.

#### *Thermostatic Expansion Valves (TXV)*

All Carrier coils have refrigerant-specific factory-installed TXVs.

#### *Teflon Ring*

The ring, installed inside the liquid line connection at the TXV, is the best option for preventing refrigerant leaks and future service calls. Teflon works with both Puron®, R-410A, the environmentally friendly refrigerant and R-22 refrigerants.

#### *Protective Tube Sheets*

Protect the durable copper tubing from being damaged during the manufacturing and installation process.

**Table 1 – Model Number Nomenclature**

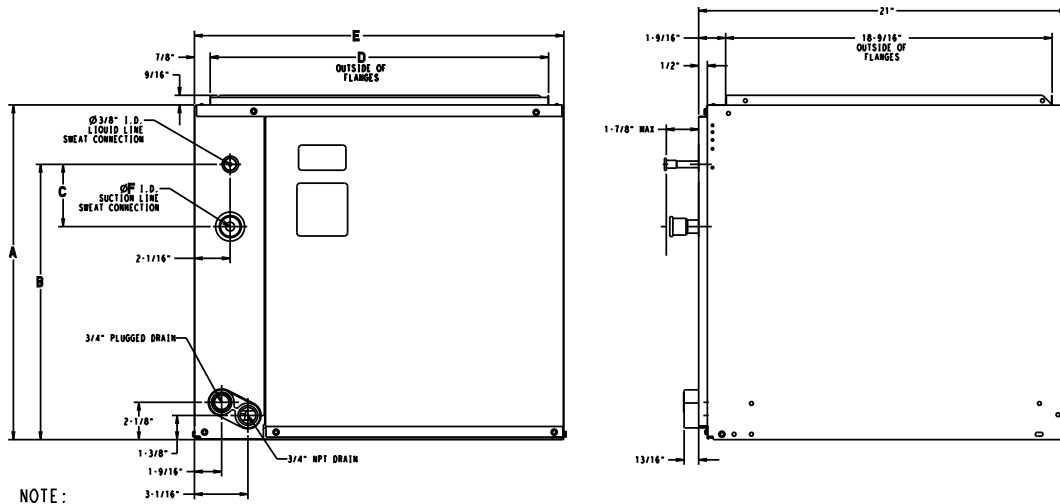
|                                                                         | 1        | 2        | 3        | 4        | 5        | 6        | 7        | 8        | 9        | 10       | 11                                                                                                                                                                                                                                                                                                                                               | 12       |
|-------------------------------------------------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
|                                                                         | <b>C</b> | <b>N</b> | <b>P</b> | <b>V</b> | <b>P</b> | <b>1</b> | <b>8</b> | <b>1</b> | <b>4</b> | <b>A</b> | <b>C</b>                                                                                                                                                                                                                                                                                                                                         | <b>A</b> |
| <b>Product</b><br>C = Coil                                              |          |          |          |          |          |          |          |          |          |          | <b>Variations</b><br>A = Basic                                                                                                                                                                                                                                                                                                                   |          |
| <b>Type</b><br>N = N Coil                                               |          |          |          |          |          |          |          |          |          |          | <b>Tubing Design</b><br>C = Copper (Puron Only)<br>L = Aluminum (R-22 & Puron)<br>T = Tin-Plated Copper (R-22 & Puron)                                                                                                                                                                                                                           |          |
| <b>Refrigerant Type</b><br>P = Puron Refrigerant TXV<br>R = R-22 TXV    |          |          |          |          |          |          |          |          |          |          | <b>Revision Level</b><br>A = 1st                                                                                                                                                                                                                                                                                                                 |          |
| <b>Coil Configuration</b><br>V = Upflow / Downflow                      |          |          |          |          |          |          |          |          |          |          | <b>Cabinet Width</b><br>14 = 14-in. / 356mm<br>17 = 17-in. / 432mm<br>21 = 21-in. / 533mm<br>24 = 24-in. / 610mm                                                                                                                                                                                                                                 |          |
| <b>Cabinet Finish</b><br>P = Painted<br>U = Uncased<br>T = Transition N |          |          |          |          |          |          |          |          |          |          | <b>Unit Capacity</b><br>18 = 1 1/2 Ton                      37 = 3 Ton<br>19 = 1 1/2 Ton                      42 = 3 1/2 Ton<br>24 = 2 Ton                              43 = 3 1/2 Ton<br>30 = 2 1/2 Ton                      48 = 4 Ton<br>31 = 2 1/2 Ton                      60 = 5 Ton<br>36 = 3 Ton                              61 = 5 Ton |          |



Use of the AHRI Certified™ 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).



## DIMENSIONS



NOTE:

1. SERIES DESIGNATION IS THE 14TH POSITION OF UNIT MODEL NUMBER.
2. IN THE ELEVENTH POSITION (#) THE "C" DESIGNATES NON-COATED HAIRPINS AND "T" DESIGNATES TIN-COATED HAIRPINS.
3. ALL DIMENSIONS ARE IN "INCHES" UNLESS NOTED.

| UNIT         | SERIES | A        | B         | C       | D       | E        | F    | SHIPPING WT (LBS)      |                        |
|--------------|--------|----------|-----------|---------|---------|----------|------|------------------------|------------------------|
|              |        |          |           |         |         |          |      | .C_NON-COATED HAIRPINS | .T_TIN-COATED HAIRPINS |
| CNPVP1814A#A | C      | 12 5/8"  | 10 1/16"  | 5 5/16" | 12 1/2" | 14 3/16" | 5/8" | 36.0                   | 38.5                   |
| CNPVP2414A#A | C      | 14 5/8"  | 12 1/16"  | 5 5/16" | 12 1/2" | 14 3/16" | 5/8" | 39.5                   | 40.0                   |
| CNPVP2417A#A | C      | 14 5/8"  | 10 1/16"  | 3 9/16" | 15 3/4" | 17 1/2"  | 5/8" | 39.5                   | 42.5                   |
| CNPVP3014A#A | C      | 17"      | 13 5/8"   | 5 5/16" | 12 1/2" | 14 3/16" | 3/4" | 46.5                   | 50.0                   |
| CNPVP3017A#A | C      | 17"      | 13 7/8"   | 3 9/16" | 15 3/4" | 17 1/2"  | 3/4" | 47.0                   | 49.5                   |
| CNPVP3617A#A | C      | 17"      | 13 7/8"   | 3 9/16" | 15 3/4" | 17 1/2"  | 3/4" | 48.5                   | 51.0                   |
| CNPVP3621A#A | C      | 17"      | 13 9/16"  | 3 9/16" | 19 1/4" | 21"      | 3/4" | 48.0                   | 51.0                   |
| CNPVP4217A#A | C      | 21 1/8"  | 13 7/8"   | 3 9/16" | 15 3/4" | 17 1/2"  | 7/8" | 52.0                   | 55.0                   |
| CNPVP4221A#A | C      | 19"      | 15 5/8"   | 3 9/16" | 19 1/4" | 21"      | 7/8" | 56.5                   | 59.5                   |
| CNPVP4821A#A | C      | 22 1/16" | 17 1/2"   | 3 9/16" | 19 1/4" | 21"      | 7/8" | 65.5                   | 68.5                   |
| CNPVP4824A#A | C      | 22 1/16" | 17 1/4"   | 3 9/16" | 22 3/4" | 24 1/2"  | 7/8" | 62.0                   | 65.0                   |
| CNPVP6024A#A | C      | 26 7/8"  | 17 15/16" | 3 9/19" | 22 3/4" | 24 1/2"  | 7/8" | 78.0                   | 80.5                   |

| UNIT         | SERIES | A        | B         | C       | D       | E        | F    | SHIPPING WT (LBS)     |
|--------------|--------|----------|-----------|---------|---------|----------|------|-----------------------|
|              |        |          |           |         |         |          |      | A - Aluminum Hairpins |
| CNPVP1814ALA | A      | 12 5/8"  | 10 1/16"  | 5 5/16" | 12 1/2" | 14 3/16" | 5/8" | 36.0                  |
| CNPVP1917ALA | A      | 17"      | 13 7/8"   | 3 9/16" | 15 3/4" | 17 1/2"  | 3/4" | 35.9                  |
| CNPVP2414ALA | A      | 14 5/8"  | 12 1/16"  | 5 5/16" | 12 1/2" | 14 3/16" | 5/8" | 39.5                  |
| CNPVP2417ALA | A      | 14 5/8"  | 10 1/16"  | 3 9/16" | 15 3/4" | 17 1/2"  | 5/8" | 39.5                  |
| CNPVP3014ALA | A      | 17"      | 13 5/8"   | 5 5/16" | 12 1/2" | 14 3/16" | 3/4" | 46.5                  |
| CNPVP3017ALA | A      | 17"      | 13 7/8"   | 3 9/16" | 15 3/4" | 17 1/2"  | 3/4" | 47.0                  |
| CNPVP3117ALA | A      | 23 1/4"  | 17 1/2"   | 3 9/16" | 15 3/4" | 17 1/2"  | 3/4" | 46.3                  |
| CNPVP3617ALA | A      | 17"      | 13 7/8"   | 3 9/16" | 15 3/4" | 17 1/2"  | 3/4" | 48.5                  |
| CNPVP3621ALA | A      | 17"      | 13 9/16"  | 3 9/16" | 19 1/4" | 21"      | 3/4" | 48.0                  |
| CNPVP3717ALA | A      | 27 3/16" | 17 1/2"   | 3 9/16" | 15 3/4" | 17 1/2"  | 7/8" | 45.2                  |
| CNPVP4217ALA | A      | 21 1/8"  | 13 7/8"   | 3 9/16" | 15 3/4" | 17 1/2"  | 7/8" | 52.0                  |
| CNPVP4221ALA | A      | 19"      | 15 5/8"   | 3 9/16" | 19 1/4" | 21"      | 7/8" | 56.5                  |
| CNPVP4324ALA | A      | 26 5/16" | 17 15/16" | 3 9/16" | 22 3/4" | 24 1/2"  | 7/8" | 58.0                  |
| CNPVP4821ALA | A      | 22 1/16" | 17 1/2"   | 3 9/16" | 19 1/4" | 21"      | 7/8" | 65.5                  |
| CNPVP4824ALA | A      | 22 1/16" | 17 1/4"   | 3 9/16" | 22 3/4" | 24 1/2"  | 7/8" | 62.0                  |
| CNPVP6024ALA | A      | 26 7/8"  | 17 15/16" | 3 9/19" | 22 3/4" | 24 1/2"  | 7/8" | 78.0                  |
| CNPVP6124ALA | A      | 32 7/16" | 17 15/16" | 3 9/16" | 22 3/4" | 24 9/16" | 7/8" | 83.5                  |

## PERFORMANCE DATA

**Table 2 – Cooling Capacities (MBH) - Puron® Refrigerant**

| CNPV<br>UNIT<br>SIZE  | INDOOR COIL<br>AIR |         | SATURATED TEMPERATURE LEAVING EVAPORATOR °F (°C) |       |      |        |       |      |        |       |      |        |       |      |         |       |      |
|-----------------------|--------------------|---------|--------------------------------------------------|-------|------|--------|-------|------|--------|-------|------|--------|-------|------|---------|-------|------|
|                       |                    |         | 30 (-1)                                          |       |      | 35 (2) |       |      | 40 (4) |       |      | 45 (7) |       |      | 50 (10) |       |      |
|                       | CFM                | EWB     | TC                                               | SHC   | BF   | TC     | SHC   | BF   | TC     | SHC   | BF   | TC     | SHC   | BF   | TC      | SHC   | BF   |
| 1814                  | 450                | 72 (22) | 31.00                                            | 15.20 | 0.00 | 28.60  | 13.90 | 0.00 | 25.80  | 12.50 | 0.00 | 22.80  | 11.10 | 0.00 | 19.30   | 9.60  | 0.00 |
|                       |                    | 67 (19) | 26.00                                            | 15.70 | 0.00 | 23.50  | 14.30 | 0.01 | 20.70  | 12.80 | 0.01 | 17.60  | 11.30 | 0.01 | 14.10   | 9.80  | 0.01 |
|                       |                    | 62 (17) | 21.50                                            | 16.00 | 0.01 | 18.90  | 14.50 | 0.01 | 16.10  | 13.00 | 0.01 | 13.00  | 11.50 | 0.01 | 10.10   | 10.10 | 0.03 |
|                       | 600                | 72 (22) | 38.30                                            | 18.70 | 0.00 | 35.30  | 17.10 | 0.00 | 32.00  | 15.50 | 0.00 | 28.20  | 13.80 | 0.00 | 23.90   | 12.00 | 0.01 |
|                       |                    | 67 (19) | 32.30                                            | 19.50 | 0.01 | 29.20  | 17.80 | 0.02 | 25.70  | 16.10 | 0.02 | 21.80  | 14.30 | 0.02 | 17.50   | 12.40 | 0.02 |
|                       |                    | 62 (17) | 26.70                                            | 20.10 | 0.02 | 23.50  | 18.40 | 0.02 | 20.00  | 16.60 | 0.02 | 16.20  | 14.80 | 0.02 | 12.90   | 12.90 | 0.06 |
|                       | 750                | 72 (22) | 44.30                                            | 21.50 | 0.00 | 40.90  | 19.90 | 0.00 | 37.00  | 18.10 | 0.00 | 32.70  | 16.10 | 0.02 | 27.70   | 14.00 | 0.02 |
|                       |                    | 67 (19) | 37.40                                            | 22.80 | 0.03 | 33.90  | 20.90 | 0.03 | 29.90  | 19.00 | 0.03 | 25.40  | 16.90 | 0.03 | 20.40   | 14.70 | 0.04 |
|                       |                    | 62 (17) | 31.10                                            | 23.80 | 0.04 | 27.40  | 21.80 | 0.04 | 23.40  | 19.80 | 0.04 | 19.10  | 17.70 | 0.04 | 15.60   | 15.60 | 0.10 |
| 1917                  | 450                | 72 (22) | 43.72                                            | 21.88 | 0.00 | 40.49  | 20.18 | 0.00 | 36.83  | 18.36 | 0.00 | 32.67  | 16.42 | 0.00 | 27.95   | 14.37 | 0.00 |
|                       |                    | 67 (19) | 36.66                                            | 22.46 | 0.00 | 33.32  | 20.65 | 0.00 | 29.55  | 18.73 | 0.00 | 25.28  | 16.69 | 0.00 | 20.45   | 14.55 | 0.00 |
|                       |                    | 62 (17) | 30.28                                            | 22.93 | 0.01 | 26.83  | 21.02 | 0.01 | 23.00  | 19.03 | 0.01 | 18.79  | 16.98 | 0.01 | 14.88   | 14.88 | 0.04 |
|                       | 600                | 72 (22) | 53.61                                            | 26.56 | 0.00 | 49.70  | 24.60 | 0.00 | 45.23  | 22.48 | 0.00 | 40.13  | 20.19 | 0.01 | 34.31   | 17.72 | 0.01 |
|                       |                    | 67 (19) | 45.00                                            | 27.67 | 0.01 | 40.96  | 25.56 | 0.01 | 36.35  | 23.28 | 0.01 | 31.10  | 20.84 | 0.01 | 25.13   | 18.26 | 0.01 |
|                       |                    | 62 (17) | 37.22                                            | 28.61 | 0.01 | 33.03  | 26.36 | 0.01 | 28.38  | 24.00 | 0.01 | 23.28  | 21.54 | 0.02 | 19.00   | 19.00 | 0.07 |
|                       | 750                | 72 (22) | 61.74                                            | 30.45 | 0.00 | 57.28  | 28.32 | 0.00 | 52.17  | 25.97 | 0.01 | 46.32  | 23.41 | 0.02 | 39.65   | 20.66 | 0.02 |
|                       |                    | 67 (19) | 51.91                                            | 32.14 | 0.02 | 47.30  | 29.82 | 0.02 | 42.02  | 27.29 | 0.02 | 35.98  | 24.55 | 0.02 | 29.10   | 21.62 | 0.02 |
|                       |                    | 62 (17) | 42.99                                            | 33.62 | 0.02 | 38.23  | 31.14 | 0.02 | 32.93  | 28.50 | 0.02 | 27.20  | 25.75 | 0.03 | 22.72   | 22.72 | 0.10 |
| 2414<br>2417          | 600                | 72 (22) | 39.00                                            | 19.00 | 0.00 | 36.00  | 17.50 | 0.00 | 32.70  | 15.90 | 0.00 | 28.80  | 14.10 | 0.00 | 24.60   | 12.30 | 0.01 |
|                       |                    | 67 (19) | 32.80                                            | 19.80 | 0.01 | 29.80  | 18.20 | 0.01 | 26.30  | 16.40 | 0.01 | 22.40  | 14.60 | 0.02 | 18.10   | 12.60 | 0.02 |
|                       |                    | 62 (17) | 27.20                                            | 20.50 | 0.02 | 24.00  | 18.70 | 0.02 | 20.50  | 16.90 | 0.02 | 16.60  | 15.00 | 0.02 | 13.10   | 13.10 | 0.05 |
|                       | 800                | 72 (22) | 47.10                                            | 22.80 | 0.00 | 43.60  | 21.10 | 0.00 | 39.60  | 19.30 | 0.00 | 35.00  | 17.30 | 0.02 | 29.90   | 15.10 | 0.02 |
|                       |                    | 67 (19) | 39.80                                            | 24.20 | 0.03 | 36.10  | 22.30 | 0.03 | 32.00  | 20.30 | 0.03 | 27.30  | 18.10 | 0.03 | 22.00   | 15.90 | 0.03 |
|                       |                    | 62 (17) | 33.10                                            | 25.40 | 0.03 | 29.30  | 23.40 | 0.03 | 25.10  | 21.20 | 0.03 | 20.50  | 19.00 | 0.04 | 16.70   | 16.70 | 0.09 |
|                       | 1000               | 72 (22) | 53.40                                            | 25.90 | 0.00 | 49.50  | 24.20 | 0.00 | 45.10  | 22.10 | 0.02 | 40.00  | 19.90 | 0.03 | 34.10   | 17.50 | 0.04 |
|                       |                    | 67 (19) | 45.30                                            | 27.90 | 0.05 | 41.20  | 25.90 | 0.05 | 36.60  | 23.70 | 0.05 | 31.30  | 21.30 | 0.05 | 25.20   | 18.70 | 0.05 |
|                       |                    | 62 (17) | 37.80                                            | 29.60 | 0.05 | 33.60  | 27.40 | 0.05 | 28.80  | 25.10 | 0.05 | 23.80  | 22.70 | 0.06 | 20.00   | 20.00 | 0.13 |
| 3014<br>3017          | 750                | 72 (22) | 48.00                                            | 23.50 | 0.00 | 44.00  | 21.40 | 0.00 | 39.70  | 19.20 | 0.00 | 34.80  | 17.00 | 0.00 | 29.40   | 14.60 | 0.01 |
|                       |                    | 67 (19) | 40.30                                            | 24.20 | 0.01 | 36.20  | 22.00 | 0.02 | 31.80  | 19.70 | 0.02 | 26.80  | 17.40 | 0.02 | 21.40   | 15.00 | 0.02 |
|                       |                    | 62 (17) | 33.20                                            | 24.80 | 0.02 | 29.10  | 22.50 | 0.02 | 24.60  | 20.20 | 0.02 | 19.90  | 17.90 | 0.02 | 15.60   | 15.60 | 0.05 |
|                       | 1000               | 72 (22) | 58.70                                            | 28.50 | 0.00 | 53.90  | 26.10 | 0.00 | 48.50  | 23.60 | 0.00 | 42.50  | 20.90 | 0.02 | 35.80   | 18.10 | 0.03 |
|                       |                    | 67 (19) | 49.40                                            | 29.90 | 0.03 | 44.40  | 27.30 | 0.03 | 38.90  | 24.60 | 0.04 | 32.90  | 21.70 | 0.04 | 26.20   | 18.80 | 0.04 |
|                       |                    | 62 (17) | 40.80                                            | 30.90 | 0.04 | 35.80  | 28.20 | 0.04 | 30.30  | 25.40 | 0.04 | 24.60  | 22.60 | 0.05 | 19.90   | 19.90 | 0.10 |
|                       | 1250               | 72 (22) | 67.40                                            | 32.70 | 0.00 | 61.90  | 30.10 | 0.00 | 55.70  | 27.30 | 0.02 | 48.80  | 24.20 | 0.04 | 41.10   | 21.00 | 0.05 |
|                       |                    | 67 (19) | 56.80                                            | 34.70 | 0.05 | 51.20  | 31.80 | 0.06 | 44.90  | 28.70 | 0.06 | 37.80  | 25.50 | 0.06 | 30.10   | 22.20 | 0.06 |
|                       |                    | 62 (17) | 47.10                                            | 36.30 | 0.06 | 41.30  | 33.20 | 0.06 | 35.00  | 30.10 | 0.06 | 28.60  | 27.00 | 0.07 | 23.70   | 23.70 | 0.14 |
| 3117                  | 750                | 72 (22) | 74.50                                            | 37.07 | 0.00 | 68.51  | 33.85 | 0.00 | 61.86  | 30.50 | 0.00 | 54.41  | 27.00 | 0.00 | 46.04   | 23.35 | 0.00 |
|                       |                    | 67 (19) | 62.13                                            | 37.73 | 0.01 | 56.03  | 34.37 | 0.01 | 49.24  | 30.87 | 0.01 | 41.66  | 27.24 | 0.01 | 32.96   | 23.39 | 0.01 |
|                       |                    | 62 (17) | 50.98                                            | 38.20 | 0.01 | 44.75  | 34.72 | 0.01 | 37.95  | 31.17 | 0.01 | 30.17  | 27.36 | 0.01 | 23.70   | 23.70 | 0.06 |
|                       | 1000               | 72 (22) | 92.35                                            | 45.51 | 0.00 | 85.01  | 41.76 | 0.00 | 76.78  | 37.78 | 0.00 | 67.46  | 33.54 | 0.01 | 57.03   | 29.08 | 0.01 |
|                       |                    | 67 (19) | 77.15                                            | 46.96 | 0.02 | 69.62  | 42.94 | 0.02 | 61.18  | 38.71 | 0.02 | 51.69  | 34.27 | 0.02 | 41.04   | 29.62 | 0.02 |
|                       |                    | 62 (17) | 63.39                                            | 48.06 | 0.02 | 55.66  | 43.85 | 0.02 | 47.21  | 39.53 | 0.02 | 38.21  | 35.15 | 0.02 | 30.59   | 30.59 | 0.08 |
|                       | 1250               | 72 (22) | 107.37                                           | 52.63 | 0.00 | 98.97  | 48.52 | 0.00 | 89.37  | 44.04 | 0.01 | 78.59  | 39.23 | 0.02 | 66.39   | 34.13 | 0.02 |
|                       |                    | 67 (19) | 89.89                                            | 54.97 | 0.03 | 81.19  | 50.47 | 0.03 | 71.37  | 45.67 | 0.03 | 60.28  | 40.57 | 0.03 | 47.77   | 35.20 | 0.03 |
|                       |                    | 62 (17) | 73.97                                            | 56.83 | 0.03 | 64.99  | 52.05 | 0.03 | 55.22  | 47.14 | 0.03 | 44.93  | 42.16 | 0.04 | 36.94   | 36.94 | 0.11 |
| 3617<br>3621<br>T3617 | 900                | 72 (22) | 58.10                                            | 28.30 | 0.00 | 53.40  | 25.90 | 0.00 | 48.00  | 23.30 | 0.00 | 42.10  | 20.60 | 0.01 | 35.50   | 17.80 | 0.02 |
|                       |                    | 67 (19) | 48.90                                            | 29.50 | 0.02 | 44.00  | 26.90 | 0.03 | 38.50  | 24.20 | 0.03 | 32.50  | 21.30 | 0.03 | 25.90   | 18.40 | 0.03 |
|                       |                    | 62 (17) | 40.40                                            | 30.40 | 0.03 | 35.40  | 27.70 | 0.03 | 29.90  | 24.90 | 0.03 | 24.20  | 22.10 | 0.04 | 19.40   | 19.40 | 0.08 |
|                       | 1200               | 72 (22) | 70.00                                            | 33.90 | 0.00 | 64.30  | 31.20 | 0.00 | 57.80  | 28.30 | 0.02 | 50.70  | 25.10 | 0.04 | 42.70   | 21.80 | 0.05 |
|                       |                    | 67 (19) | 58.90                                            | 35.90 | 0.05 | 53.10  | 32.90 | 0.05 | 46.50  | 29.70 | 0.05 | 39.30  | 26.40 | 0.06 | 31.20   | 22.90 | 0.06 |
|                       |                    | 62 (17) | 48.80                                            | 37.50 | 0.06 | 42.80  | 34.30 | 0.06 | 36.30  | 31.00 | 0.06 | 29.60  | 27.80 | 0.06 | 24.40   | 24.40 | 0.13 |
|                       | 1500               | 72 (22) | 79.30                                            | 38.60 | 0.00 | 72.90  | 35.60 | 0.02 | 65.70  | 32.30 | 0.05 | 57.50  | 28.80 | 0.06 | 48.50   | 25.10 | 0.07 |
|                       |                    | 67 (19) | 67.00                                            | 41.30 | 0.08 | 60.40  | 38.00 | 0.08 | 53.00  | 34.40 | 0.08 | 44.70  | 30.70 | 0.08 | 35.50   | 26.80 | 0.09 |
|                       |                    | 62 (17) | 55.70                                            | 43.60 | 0.09 | 48.80  | 40.00 | 0.09 | 41.60  | 36.50 | 0.09 | 34.20  | 32.90 | 0.10 | 28.80   | 28.80 | 0.18 |
| 3717                  | 900                | 72 (22) | 86.45                                            | 42.79 | 0.00 | 79.79  | 39.28 | 0.00 | 72.26  | 35.55 | 0.00 | 63.72  | 31.59 | 0.00 | 54.22   | 27.47 | 0.00 |
|                       |                    | 67 (19) | 72.26                                            | 43.90 | 0.01 | 65.40  | 40.18 | 0.01 | 57.69  | 36.26 | 0.01 | 49.03  | 32.14 | 0.01 | 39.27   | 27.83 | 0.01 |
|                       |                    | 62 (17) | 59.44                                            | 44.77 | 0.01 | 52.40  | 40.88 | 0.01 | 44.62  | 36.85 | 0.01 | 36.17  | 32.73 | 0.01 | 28.45   | 28.45 | 0.06 |
|                       | 1200               | 72 (22) | 106.02                                           | 52.03 | 0.00 | 97.94  | 48.01 | 0.00 | 88.72  | 43.65 | 0.00 | 78.38  | 39.00 | 0.01 | 66.68   | 34.06 | 0.01 |
|                       |                    | 67 (19) | 88.80                                            | 54.21 | 0.02 | 80.47  | 49.85 | 0.02 | 71.05  | 45.21 | 0.02 | 60.40  | 40.28 | 0.02 | 48.31   | 35.05 | 0.02 |
|                       |                    | 62 (17) | 73.18                                            | 55.98 | 0.02 | 64.58  | 51.37 | 0.02 | 55.14  | 46.59 | 0.02 | 44.93  | 41.66 | 0.02 | 36.59   | 36.59 | 0.08 |
|                       | 1500               | 72 (22) | 122.09                                           | 59.72 | 0.00 | 112.86 | 55.34 | 0.00 | 102.29 | 50.48 | 0.02 | 90.55  | 45.34 | 0.02 | 77.08   | 39.79 | 0.03 |
|                       |                    | 67 (19) | 102.46                                           | 63.03 | 0.03 | 92.95  | 58.22 | 0.03 | 82.20  | 53.07 | 0.03 | 69.94  | 47.52 | 0.03 | 55.95   | 41.57 | 0.03 |
|                       |                    | 62 (17) | 84.62                                            | 65.86 | 0.03 | 74.82  | 60.74 | 0.03 | 64.08  | 55.41 | 0.03 | 52.61  | 49.87 | 0.04 | 43.79   | 43.79 | 0.12 |

Legend:

CFM - Cubic Ft. per Minute  
SHC - Gross Sensible Capacity 1000 Btuh

EWB - Entering Wet Bulb  
BF - Bypass Factor

LWB - Leaving Wet Bulb  
MBH - 1000 Btuh

TC - Gross Cooling Capacity 1000 Btuh

See notes on page 11.



## PERFORMANCE DATA (cont.)

**Table 3 – Cooling Capacities (MBH) - Puron® Refrigerant**

| CNPV<br>UNIT<br>SIZE          | INDOOR COIL<br>AIR |         | SATURATED TEMPERATURE LEAVING EVAPORATOR °F (°C) |        |      |        |       |      |        |       |      |        |       |      |         |       |      |
|-------------------------------|--------------------|---------|--------------------------------------------------|--------|------|--------|-------|------|--------|-------|------|--------|-------|------|---------|-------|------|
|                               |                    |         | 30 (-1)                                          |        |      | 35 (2) |       |      | 40 (4) |       |      | 45 (7) |       |      | 50 (10) |       |      |
|                               | CFM                | EWB     | TC                                               | SHC    | BF   | TC     | SHC   | BF   | TC     | SHC   | BF   | TC     | SHC   | BF   | TC      | SHC   | BF   |
| 4217<br>4221<br>4224<br>T4221 | 1050               | 72 (22) | 74.40                                            | 36.30  | 0.00 | 68.10  | 33.10 | 0.00 | 61.20  | 29.70 | 0.00 | 53.50  | 26.20 | 0.01 | 45.00   | 22.60 | 0.02 |
|                               |                    | 67 (19) | 62.30                                            | 37.60  | 0.02 | 56.00  | 34.20 | 0.03 | 48.90  | 30.60 | 0.03 | 41.20  | 27.00 | 0.03 | 32.80   | 23.30 | 0.03 |
|                               |                    | 62 (17) | 51.40                                            | 38.60  | 0.03 | 44.90  | 35.00 | 0.03 | 37.90  | 31.40 | 0.03 | 30.60  | 27.80 | 0.04 | 24.40   | 24.40 | 0.08 |
|                               | 1400               | 72 (22) | 90.20                                            | 43.80  | 0.00 | 82.60  | 40.10 | 0.00 | 74.10  | 36.20 | 0.01 | 64.70  | 32.00 | 0.04 | 54.40   | 27.60 | 0.05 |
|                               |                    | 67 (19) | 75.80                                            | 46.00  | 0.05 | 68.00  | 42.00 | 0.05 | 59.40  | 37.70 | 0.06 | 50.00  | 33.40 | 0.06 | 39.60   | 28.90 | 0.06 |
|                               |                    | 62 (17) | 62.60                                            | 47.70  | 0.06 | 54.70  | 43.50 | 0.06 | 46.20  | 39.20 | 0.06 | 37.50  | 35.00 | 0.07 | 30.70   | 30.70 | 0.13 |
|                               | 1750               | 72 (22) | 103.00                                           | 50.00  | 0.00 | 94.30  | 46.00 | 0.00 | 84.60  | 41.50 | 0.05 | 73.90  | 36.80 | 0.06 | 62.00   | 32.00 | 0.07 |
|                               |                    | 67 (19) | 86.70                                            | 53.10  | 0.08 | 77.80  | 48.60 | 0.08 | 68.00  | 43.90 | 0.08 | 57.10  | 39.00 | 0.08 | 45.20   | 33.90 | 0.09 |
|                               |                    | 62 (17) | 71.70                                            | 55.70  | 0.09 | 62.70  | 50.90 | 0.09 | 53.10  | 46.20 | 0.09 | 43.40  | 41.50 | 0.10 | 36.30   | 36.30 | 0.18 |
| 4324                          | 1050               | 72 (22) | 96.72                                            | 47.64  | 0.00 | 89.31  | 43.85 | 0.00 | 80.91  | 39.78 | 0.00 | 71.39  | 35.44 | 0.00 | 60.74   | 30.89 | 0.01 |
|                               |                    | 67 (19) | 80.93                                            | 49.26  | 0.01 | 73.30  | 45.20 | 0.01 | 64.67  | 40.88 | 0.01 | 54.97  | 36.34 | 0.01 | 43.99   | 31.53 | 0.01 |
|                               |                    | 62 (17) | 66.64                                            | 50.56  | 0.01 | 58.77  | 46.28 | 0.01 | 50.10  | 41.84 | 0.01 | 40.70  | 37.29 | 0.02 | 32.63   | 32.63 | 0.07 |
|                               | 1400               | 72 (22) | 117.07                                           | 57.30  | 0.00 | 108.20 | 53.03 | 0.00 | 98.03  | 48.31 | 0.01 | 86.74  | 43.33 | 0.02 | 73.81   | 37.96 | 0.02 |
|                               |                    | 67 (19) | 98.18                                            | 60.23  | 0.03 | 89.03  | 55.55 | 0.03 | 78.69  | 50.55 | 0.03 | 66.93  | 45.19 | 0.03 | 53.54   | 39.46 | 0.03 |
|                               |                    | 62 (17) | 81.03                                            | 62.70  | 0.03 | 71.60  | 57.72 | 0.03 | 61.25  | 52.56 | 0.03 | 50.15  | 47.21 | 0.03 | 41.46   | 41.46 | 0.11 |
|                               | 1750               | 72 (22) | 133.38                                           | 65.28  | 0.00 | 123.30 | 60.58 | 0.02 | 111.98 | 55.48 | 0.03 | 99.21  | 50.01 | 0.04 | 84.49   | 44.04 | 0.04 |
|                               |                    | 67 (19) | 112.09                                           | 69.50  | 0.04 | 101.79 | 64.41 | 0.05 | 90.14  | 58.95 | 0.05 | 76.76  | 52.99 | 0.05 | 61.46   | 46.55 | 0.05 |
|                               |                    | 62 (17) | 92.72                                            | 73.26  | 0.05 | 82.16  | 67.85 | 0.05 | 70.58  | 62.18 | 0.05 | 58.38  | 56.24 | 0.06 | 49.33   | 49.33 | 0.15 |
| 4821<br>4824<br>T4821         | 1200               | 72 (22) | 79.30                                            | 38.70  | 0.00 | 72.90  | 35.40 | 0.00 | 65.70  | 31.90 | 0.00 | 57.70  | 28.20 | 0.00 | 48.80   | 24.40 | 0.01 |
|                               |                    | 67 (19) | 66.60                                            | 40.20  | 0.02 | 60.00  | 36.60 | 0.02 | 52.70  | 32.90 | 0.02 | 44.60  | 29.10 | 0.02 | 35.70   | 25.10 | 0.03 |
|                               |                    | 62 (17) | 55.00                                            | 41.30  | 0.03 | 48.30  | 37.60 | 0.03 | 40.90  | 33.80 | 0.03 | 33.10  | 30.00 | 0.03 | 26.30   | 26.30 | 0.07 |
|                               | 1600               | 72 (22) | 96.00                                            | 46.60  | 0.00 | 88.30  | 42.90 | 0.00 | 79.60  | 38.90 | 0.00 | 69.90  | 34.50 | 0.03 | 59.10   | 30.00 | 0.04 |
|                               |                    | 67 (19) | 80.90                                            | 49.20  | 0.04 | 72.90  | 45.00 | 0.04 | 64.10  | 40.70 | 0.05 | 54.20  | 36.10 | 0.05 | 43.30   | 31.40 | 0.05 |
|                               |                    | 62 (17) | 67.00                                            | 51.20  | 0.05 | 58.80  | 46.80 | 0.05 | 49.90  | 42.30 | 0.05 | 40.70  | 37.90 | 0.05 | 33.30   | 33.30 | 0.11 |
|                               | 2000               | 72 (22) | 109.40                                           | 53.10  | 0.00 | 100.70 | 49.10 | 0.00 | 90.90  | 44.60 | 0.03 | 79.90  | 39.80 | 0.05 | 67.50   | 34.70 | 0.06 |
|                               |                    | 67 (19) | 92.40                                            | 56.70  | 0.06 | 83.40  | 52.20 | 0.07 | 73.30  | 47.40 | 0.07 | 62.00  | 42.20 | 0.07 | 49.50   | 36.90 | 0.07 |
|                               |                    | 62 (17) | 76.70                                            | 59.70  | 0.07 | 67.50  | 54.90 | 0.08 | 57.40  | 49.90 | 0.08 | 47.20  | 44.90 | 0.08 | 39.50   | 39.50 | 0.16 |
| 6024<br>T6024                 | 1600               | 72 (22) | 103.20                                           | 50.40  | 0.00 | 94.40  | 45.90 | 0.00 | 84.80  | 41.10 | 0.00 | 74.10  | 36.30 | 0.00 | 62.40   | 31.20 | 0.02 |
|                               |                    | 67 (19) | 86.40                                            | 52.10  | 0.02 | 77.50  | 47.20 | 0.02 | 67.80  | 42.30 | 0.02 | 57.10  | 37.20 | 0.03 | 45.40   | 32.10 | 0.03 |
|                               |                    | 62 (17) | 71.20                                            | 53.30  | 0.03 | 62.20  | 48.30 | 0.03 | 52.40  | 43.30 | 0.03 | 42.30  | 38.30 | 0.03 | 33.50   | 33.50 | 0.07 |
|                               | 2000               | 72 (22) | 120.70                                           | 58.70  | 0.00 | 110.40 | 53.60 | 0.00 | 99.00  | 48.20 | 0.00 | 86.40  | 42.50 | 0.02 | 72.60   | 36.70 | 0.03 |
|                               |                    | 67 (19) | 101.20                                           | 61.30  | 0.03 | 90.70  | 55.70 | 0.04 | 79.20  | 50.00 | 0.04 | 66.60  | 44.10 | 0.04 | 52.80   | 38.10 | 0.05 |
|                               |                    | 62 (17) | 83.40                                            | 63.20  | 0.05 | 72.80  | 57.40 | 0.05 | 61.40  | 51.60 | 0.05 | 49.70  | 46.00 | 0.05 | 40.30   | 40.30 | 0.11 |
|                               | 2400               | 72 (22) | 135.60                                           | 65.80  | 0.00 | 124.10 | 60.30 | 0.00 | 111.20 | 54.40 | 0.01 | 97.00  | 48.00 | 0.04 | 81.30   | 41.50 | 0.05 |
|                               |                    | 67 (19) | 113.90                                           | 69.30  | 0.05 | 102.10 | 63.20 | 0.06 | 89.10  | 56.90 | 0.06 | 74.80  | 50.30 | 0.06 | 59.20   | 43.60 | 0.06 |
|                               |                    | 62 (17) | 94.10                                            | 72.10  | 0.06 | 82.10  | 65.70 | 0.06 | 69.30  | 59.30 | 0.06 | 56.40  | 53.00 | 0.07 | 46.50   | 46.50 | 0.14 |
| 6124<br>T6124                 | 1600               | 72 (22) | 146.13                                           | 71.69  | 0.00 | 134.50 | 65.77 | 0.00 | 121.56 | 59.54 | 0.00 | 106.83 | 52.86 | 0.00 | 90.32   | 45.83 | 0.01 |
|                               |                    | 67 (19) | 122.06                                           | 74.12  | 0.02 | 110.18 | 67.82 | 0.02 | 96.85  | 61.17 | 0.02 | 81.83  | 54.15 | 0.02 | 64.91   | 46.78 | 0.02 |
|                               |                    | 62 (17) | 100.28                                           | 76.03  | 0.02 | 88.07  | 69.40 | 0.02 | 74.72  | 62.59 | 0.02 | 60.46  | 55.67 | 0.02 | 48.56   | 48.56 | 0.08 |
|                               | 2000               | 72 (22) | 169.63                                           | 82.84  | 0.00 | 156.39 | 76.39 | 0.00 | 141.33 | 69.41 | 0.01 | 124.36 | 61.86 | 0.02 | 105.10  | 53.83 | 0.02 |
|                               |                    | 67 (19) | 142.02                                           | 86.75  | 0.03 | 128.36 | 79.72 | 0.03 | 112.89 | 72.20 | 0.03 | 95.38  | 64.18 | 0.03 | 75.60   | 55.70 | 0.03 |
|                               |                    | 62 (17) | 116.90                                           | 89.93  | 0.03 | 102.76 | 82.43 | 0.03 | 87.41  | 74.75 | 0.03 | 71.17  | 66.88 | 0.04 | 58.57   | 58.57 | 0.11 |
|                               | 2400               | 72 (22) | 189.44                                           | 92.42  | 0.00 | 174.81 | 85.58 | 0.00 | 158.22 | 77.98 | 0.02 | 139.30 | 69.76 | 0.03 | 117.75  | 60.94 | 0.04 |
|                               |                    | 67 (19) | 158.99                                           | 97.85  | 0.04 | 143.83 | 90.25 | 0.04 | 126.61 | 82.05 | 0.04 | 107.02 | 73.24 | 0.05 | 84.86   | 63.87 | 0.05 |
|                               |                    | 62 (17) | 131.10                                           | 102.40 | 0.05 | 115.46 | 94.29 | 0.05 | 98.49  | 85.91 | 0.05 | 80.79  | 77.29 | 0.06 | 67.60   | 67.60 | 0.14 |

Legend:

CFM - Cubic Ft. per Minute  
SHC - Gross Sensible Capacity 1000 Btuh

EWB - Entering Wet Bulb  
BF - Bypass Factor

LWB - Leaving Wet Bulb  
MBH - 1000 Btuh

TC - Gross Cooling Capacity 1000 Btuh

See notes on following page.

**NOTES:**

- Contact manufacturer for cooling capacities at conditions other than shown in table.

2. Formulas:

$$\text{Leaving db} = \text{entering db} - \frac{\text{sensible heat cap.}}{1.09 \times \text{CFM}}$$

Leaving wb = wb corresponding to enthalpy of air leaving coil (hLWB)

$$h_{LWB} = h_{EWB} - \frac{\text{total capacity (Btuh)}}{4.5 \times \text{CFM}}$$

Where  $h_{EWB}$  = enthalpy of air entering coil

3. SHC is based on 80°F (27°C) db temperature of air entering the evaporator coil.  
Below 80°F (27°C) db, subtract (Correction Factor x CFM) from SHC.  
Above 80°F (27°C) db, add (Correction Factor x CFM) to SHC.
4. Direct interpolation is permissible. Do not extrapolate.
5. Fan motor heat has not been deducted.
6. All data points are based on 10°F (-12°C) superheat leaving coil and use of thermostatic expansion valve (TXV) device.
7. All units have sweat suction-tube connection and a liquid-tube connection. For 1-1/8-in. system suction tube, 3/4 x 1-1/8-in. suction tube connection adapter is available as accessory.
8. The CNPVP, CNPVT, AND CNPVU coils can be used in any properly designed system using Puron® refrigerant.
9. The CNRVU coils can be used in any properly designed system using R-22 refrigerant.
10. Before using maximum cfm shown in table, check coil static pressure drop to ensure system blower can provide necessary static pressure needed for coil and duct systems.
11. Bypass Factor = 0 indicates no psychometric solution. Use bypass factor of next lower EWB for approximation.

| BYPASS FACTOR     | ENTERING AIR DRY BULB TEMPERATURE °F (°C) |         |         |         |         |                         |
|-------------------|-------------------------------------------|---------|---------|---------|---------|-------------------------|
|                   | 79 (26)                                   | 78 (26) | 77 (25) | 76 (24) | 75 (24) | Under 75 (24)           |
|                   | 81 (27)                                   | 82 (28) | 83 (28) | 84 (29) | 84 (29) | Above 85 (29)           |
| Correction Factor |                                           |         |         |         |         |                         |
| 0.10              | 0.98                                      | 1.96    | 2.94    | 3.92    | 4.91    | Use formula shown below |
| 0.20              | 0.87                                      | 1.74    | 2.62    | 3.49    | 4.36    |                         |
| 0.30              | 0.76                                      | 1.53    | 2.29    | 3.05    | 3.82    |                         |

Interpolation is permissible.  
Correction Factor = 1.09 x (1 - BF) x (db - 80)

## PERFORMANCE DATA (cont.)

Table 5 – Coil Static Pressure Drop (in. w.c.) Puron® and R-22 Refrigerants

| UNIT<br>SIZE  | Standard CFM |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|---------------|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|               | 400          | 500   | 600   | 700   | 800   | 900   | 1000  | 1100  | 1200  | 1300  | 1400  | 1500  | 1600  | 1700  | 1800  | 1900  | 2000  | 2100  | 2200  |
| 1814          | Dry          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|               | 0.078        | 0.114 | 0.156 | 0.198 | 0.253 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|               | Wet          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|               | 0.096        | 0.138 | 0.183 | 0.213 | 0.277 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 1917          | Dry          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|               | 0.042        | 0.060 | 0.080 | 0.102 | 0.128 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|               | Wet          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|               | 0.055        | 0.076 | 0.104 | 0.127 | 0.158 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| 2414          | Dry          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|               | 0.070        | 0.103 | 0.143 | 0.182 | 0.233 | 0.290 | 0.354 |       |       |       |       |       |       |       |       |       |       |       |       |
|               | Wet          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|               | 0.089        | 0.128 | 0.171 | 0.214 | 0.269 | 0.336 | 0.413 |       |       |       |       |       |       |       |       |       |       |       |       |
| 2417          | Dry          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|               | 0.048        | 0.068 | 0.090 | 0.112 | 0.140 | 0.170 | 0.203 |       |       |       |       |       |       |       |       |       |       |       |       |
|               | Wet          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|               | 0.064        | 0.091 | 0.122 | 0.150 | 0.188 | 0.224 | 0.263 |       |       |       |       |       |       |       |       |       |       |       |       |
| 3014          | Dry          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|               | 0.065        | 0.097 | 0.135 | 0.173 | 0.223 | 0.278 | 0.339 | 0.405 | 0.478 |       |       |       |       |       |       |       |       |       |       |
|               | Wet          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|               | 0.078        | 0.114 | 0.160 | 0.206 | 0.260 | 0.321 | 0.388 | 0.461 | 0.540 |       |       |       |       |       |       |       |       |       |       |
| 3017          | Dry          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|               | 0.042        | 0.060 | 0.080 | 0.102 | 0.128 | 0.157 | 0.188 | 0.222 | 0.259 |       |       |       |       |       |       |       |       |       |       |
|               | Wet          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|               | 0.055        | 0.076 | 0.104 | 0.127 | 0.158 | 0.190 | 0.225 | 0.266 | 0.309 |       |       |       |       |       |       |       |       |       |       |
| 3117          | Dry          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|               | 0.031        | 0.046 | 0.063 | 0.083 | 0.105 | 0.130 | 0.156 | 0.193 | 0.230 |       |       |       |       |       |       |       |       |       |       |
|               | Wet          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|               | 0.039        | 0.056 | 0.075 | 0.097 | 0.121 | 0.149 | 0.179 | 0.212 | 0.249 |       |       |       |       |       |       |       |       |       |       |
| 3617<br>T3617 | Dry          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|               | 0.043        | 0.061 | 0.082 | 0.103 | 0.128 | 0.157 | 0.189 | 0.221 | 0.259 | 0.299 | 0.341 |       |       |       |       |       |       |       |       |
|               | Wet          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|               | 0.056        | 0.079 | 0.107 | 0.133 | 0.166 | 0.200 | 0.236 | 0.276 | 0.315 | 0.361 | 0.413 |       |       |       |       |       |       |       |       |
| 3621          | Dry          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|               | 0.035        | 0.048 | 0.062 | 0.076 | 0.093 | 0.111 | 0.132 | 0.153 | 0.177 | 0.201 | 0.228 |       |       |       |       |       |       |       |       |
|               | Wet          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|               | 0.049        | 0.066 | 0.085 | 0.100 | 0.122 | 0.144 | 0.171 | 0.192 | 0.217 | 0.245 | 0.276 |       |       |       |       |       |       |       |       |
| 3717          | Dry          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|               | 0.025        | 0.038 | 0.054 | 0.072 | 0.093 | 0.117 | 0.143 | 0.171 | 0.205 | 0.233 | 0.273 |       |       |       |       |       |       |       |       |
|               | Wet          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|               | 0.030        | 0.044 | 0.061 | 0.079 | 0.103 | 0.125 | 0.154 | 0.182 | 0.216 | 0.251 | 0.288 |       |       |       |       |       |       |       |       |
| 4217          | Dry          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|               |              |       | 0.072 | 0.093 | 0.118 | 0.145 | 0.175 | 0.206 | 0.243 | 0.281 | 0.322 | 0.366 | 0.413 |       |       |       |       |       |       |
|               | Wet          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|               |              | 0.079 | 0.102 | 0.130 | 0.159 | 0.192 | 0.228 | 0.26  | 0.303 | 0.348 | 0.396 | 0.446 |       |       |       |       |       |       |       |
| 4221<br>T4221 | Dry          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|               | 0.030        | 0.041 | 0.054 | 0.066 | 0.082 | 0.099 | 0.118 | 0.137 | 0.158 | 0.180 | 0.205 | 0.231 | 0.259 |       |       |       |       |       |       |
|               | Wet          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|               | 0.043        | 0.059 | 0.078 | 0.101 | 0.126 | 0.153 | 0.181 | 0.207 | 0.234 | 0.260 | 0.288 | 0.319 | 0.354 |       |       |       |       |       |       |
| 4324          | Dry          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|               |              |       |       | 0.053 | 0.062 | 0.073 | 0.084 | 0.097 | 0.111 | 0.126 | 0.138 | 0.154 | 0.172 | 0.190 | 0.210 |       |       |       |       |
|               | Wet          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|               |              |       | 0.067 | 0.082 | 0.096 | 0.112 | 0.129 | 0.145 | 0.163 | 0.171 | 0.191 | 0.212 | 0.235 | 0.258 |       |       |       |       |       |
| 4821<br>T4821 | Dry          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|               |              |       | 0.047 | 0.060 | 0.075 | 0.092 | 0.110 | 0.130 | 0.152 | 0.176 | 0.204 | 0.230 | 0.256 | 0.284 | 0.318 |       |       |       |       |
|               | Wet          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|               |              | 0.053 | 0.067 | 0.085 | 0.104 | 0.125 | 0.147 | 0.172 | 0.200 | 0.228 | 0.259 | 0.292 | 0.327 | 0.365 |       |       |       |       |       |
| 4824          | Dry          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|               |              |       | 0.015 | 0.046 | 0.057 | 0.069 | 0.094 | 0.100 | 0.119 | 0.124 | 0.140 | 0.158 | 0.175 | 0.195 | 0.214 |       |       |       |       |
|               | Wet          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|               |              | 0.032 | 0.050 | 0.066 | 0.081 | 0.097 | 0.114 | 0.131 | 0.150 | 0.169 | 0.190 | 0.211 | 0.233 | 0.257 |       |       |       |       |       |
| 6024<br>T6024 | Dry          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|               |              |       |       |       | 0.062 | 0.073 | 0.084 | 0.097 | 0.111 | 0.126 | 0.138 | 0.154 | 0.172 | 0.190 | 0.210 | 0.228 | 0.251 | 0.273 | 0.293 |
|               | Wet          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|               |              |       |       | 0.082 | 0.096 | 0.112 | 0.129 | 0.145 | 0.163 | 0.171 | 0.191 | 0.212 | 0.235 | 0.258 | 0.283 | 0.310 | 0.336 | 0.366 |       |
| 6124<br>T6124 | Dry          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|               |              |       |       |       |       |       |       |       |       |       | 0.130 | 0.140 | 0.160 | 0.180 | 0.200 | 0.220 | 0.240 | 0.270 | 0.290 |
|               | Wet          |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|               |              |       |       |       |       |       |       |       |       |       | 0.150 | 0.170 | 0.190 | 0.210 | 0.230 | 0.260 | 0.290 | 0.310 | 0.340 |

**24SCA4**  
**Comfort™ Series Single-Stage Air Conditioner**  
**with Puron® Refrigerant**  
**1-1/2 To 5 Tons**



Turn to the experts

**MARK FOR:**

**CU-1A-2D**

**6-7B**

**CU-3**

**CU-4,5**

**24SCA448N003**

**24SCA430N003**

**24SCA460N003**

**Product Data**

**Industry leading  
Features / Benefits**



**Efficiency**

- 13.4 - 16.0 SEER2 (13.5 - 16.5 SEER) / 11.0 - 13.5 EER2 (11.0 - 14.5 EER)
- Microtube Technology refrigeration system
- Indoor air quality accessories available

**Reliability**

- Puron refrigerant - environmentally sound, won't deplete the ozone layer and low lifetime service cost.
- Scroll compressor
- Internal pressure relief valve
- Internal thermal overload
- Filter drier

**Durability**

WeatherArmor™ Protection Package:

- Solid, durable sheet metal construction
- Dense wire coil guard

**Applications**

- Long-line – up to 250 feet (76.20 m) total equivalent length, up to 200 feet (60.96 m) condenser above evaporator, or up to 80 ft. (24.4 m) evaporator above condenser (See Long Line Guide for more information.)
- Low ambient cooling (down to 0°F / -18°C ) with approved low ambient accessory kits.

This unit has been designed utilizing Carrier's Puron refrigerant. The environmentally sound refrigerant allows you to make a responsible decision in the protection of the earth's ozone layer.

**NOTE:** Ratings contained in this document are subject to change at any time. Always refer to the AHRI directory ([www.ahridirectory.org](http://www.ahridirectory.org)) for the most up-to-date ratings information.

**STANDARD FEATURES**

| Features                                      | 18          | 24          | 30          | 36          | 42          | 48          | 60          |
|-----------------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Puron Refrigerant                             | X           | X           | X           | X           | X           | X           | X           |
| SEER2 (Range depending on indoor combination) | 13.4 - 16.0 | 13.4 - 16.0 | 13.4 - 16.0 | 13.4 - 15.0 | 13.4 - 15.5 | 13.4 - 15.2 | 13.4 - 14.0 |
| Scroll Compressor                             | X           | X           | X           | X           | X           | X           | X           |
| Field Installed Filter Drier                  | X           | X           | X           | X           | X           | X           | X           |
| Front Seating Service Valves                  | X           | X           | X           | X           | X           | X           | X           |
| Internal Pressure Relief Valve                | X           | X           | X           | X           | X           | X           | X           |
| Internal Thermal Overload                     | X           | X           | X           | X           | X           | X           | X           |
| Long Line Capability                          | X           | X           | X           | X           | X           | X           | X           |
| Low Ambient Capability with Kit               | X           | X           | X           | X           | X           | X           | X           |

## Model Number Nomenclature

|                |                     |                    |              |                |                      |                       |            |                 |             |     |    |
|----------------|---------------------|--------------------|--------------|----------------|----------------------|-----------------------|------------|-----------------|-------------|-----|----|
| 1              | 2                   | 3                  | 4            | 5              | 6                    | 7                     | 8          | 9               | 10          | 11  | 12 |
| N              | N                   | A                  | A            | A/N            | N                    | N                     | N          | A/N             | A/N         | A/N | N  |
| 2              | 4                   | S                  | C            | A              | 4                    | 1                     | 8          | N               | 0           | 0   | 3  |
| Product Series | Design Type         | Tier               | Major Series | SEER2          | Cooling Capacity     | Region                | Feature    | Special Feature | Voltage     |     |    |
| 24 = R-410A AC | S = Single Stage AC | C = Comfort Series | A=Initial    | 4 = 13.4 SEER2 | 1,000 Btuh (nominal) | N = Standard North AC | 0=Standard | 0=Standard      | 3=208/230-1 |     |    |

## CATALOG ORDERING NUMBERS

| Size | Model Number |
|------|--------------|
| 18   | 24SCA418N003 |
| 24   | 24SCA424N003 |
| 30   | 24SCA430N003 |
| 36   | 24SCA436N003 |
| 42   | 24SCA442N003 |
| 48   | 24SCA448N003 |
| 60   | 24SCA460N003 |

Puron



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).



Quality ISO 9001

SAI GLOBAL



## Physical Data

| UNIT SIZE                          | 18                           | 24           | 30          | 36          | 42          | 48          | 60          |
|------------------------------------|------------------------------|--------------|-------------|-------------|-------------|-------------|-------------|
| <b>Compressor Type</b>             | Scroll                       |              |             |             |             |             |             |
| <b>REFRIGERANT</b>                 | Puron® (R-410A)              |              |             |             |             |             |             |
| Control                            | TXV (Puron Hard Shutoff)     |              |             |             |             |             |             |
| Factory Charge lb (kg)*            | 3.50 (1.59)†                 | 4.00 (1.81)† | 6.00 (2.72) | 5.20 (2.36) | 7.90 (3.58) | 8.90 (4.04) | 9.10 (4.13) |
| <b>COND FAN</b>                    | Propeller Type, Direct Drive |              |             |             |             |             |             |
| Air Discharge                      | Vertical                     |              |             |             |             |             |             |
| Air Qty (CFM)                      | 1600                         | 1800         | 2500        | 2750        | 4100        | 3850        | 4000        |
| Motor HP                           | 1/12                         | 1/12         | 1/10        | 1/5         | 1/4         | 1/4         | 1/4         |
| Motor RPM                          | 1100                         | 1100         | 1100        | 1100        | 1100        | 1100        | 1100        |
| <b>COND COIL</b>                   |                              |              |             |             |             |             |             |
| Face Area (Sq ft)                  | 8.4                          | 9.8          | 17.1        | 12.9        | 23.6        | 15.0        | 19.3        |
| Fins per In.                       | 25                           | 25           | 25          | 20          | 25          | 20          | 20          |
| Rows                               | 1                            | 1            | 1           | 1           | 1           | 2           | 2           |
| Circuits                           | 3                            | 5            | 4           | 5           | 7           | 6           | 9           |
| <b>VALVE CONNECT. (In. ID)</b>     |                              |              |             |             |             |             |             |
| Vapor                              | 3/4                          | 3/4          | 3/4         | 7/8         | 7/8         | 7/8         | 7/8         |
| Liquid                             | 3/8"                         |              |             |             |             |             |             |
| <b>REFRIGERANT TUBES* (In. OD)</b> |                              |              |             |             |             |             |             |
| Rated Vapor†                       | 3/4                          | 3/4          | 3/4         | 7/8         | 7/8         | 7/8         | 1-1/8       |
| Rated Liquid Line**                | 3/8"                         |              |             |             |             |             |             |

\*.For 15 ft. lineset

†.To reach 15 ft. of line set, add 18 oz for the 18 size and 6 oz for the 24 size. Adjust per installation instructions. Refrigerant charge also varies with indoor unit; refer to refrigerant charge label.

‡.Units are rated with 25 ft (7.6 m) of lineset length. See Vapor Line Sizing and Cooling Capacity Loss table when using other sizes and lengths of lineset.

\*\*See Liquid Line Sizing For Cooling Only Systems with Puron Refrigerant tables.

Note: See unit Installation Instruction for proper installation.

**ACCESSORIES**

| KIT NUMBER           | KIT NAME                              | 18 | 24 | 30 | 36 | 42 | 48 | 60 |
|----------------------|---------------------------------------|----|----|----|----|----|----|----|
| <b>KSAFT0101AAA</b>  | FRZ THERM KIT                         | X  | X  | X  | X  | X  | X  | X  |
| KAATD0101TDR         | TIME DELAY KIT (90 second TDR)        | X  | X  | X  | X  | X  | X  | X  |
| KAATD0201TDR         | TIME DELAY KIT (30 second TDR)        | X  | X  | X  | X  | X  | X  | X  |
| <b>KSALA0301410</b>  | LOW AMBIENT COOLING KIT               | X  | X  | X  | X  | X  | X  | X  |
| KSALA1001AAA         | MOTORMASTER KIT                       | X  | X  | X  | X  | X  | X  | X  |
| <b>KSASHS2501AAA</b> | HARD START KIT                        | X  | X  | X  | X  | X  | X  | X  |
| KSACY0101AAA         | CYCLE PROTR KIT                       | X  | X  | X  | X  | X  | X  | X  |
| KSASF0201AAA         | SPRT FEET KIT                         | X  | X  | X  | X  | X  | X  | X  |
| KAALS0201LLS*        | SOL VALVE KIT                         | X  | X  | X  | X  | X  | X  | X  |
| <b>KAAWS0101AAA</b>  | <b>WINTER ST KIT</b>                  | X  | X  | X  | X  | X  | X  | X  |
| <b>KAALP0401PUR</b>  | LOW PRESSURE SW KIT                   | X  | X  | X  | X  | X  | X  | X  |
| <b>KAAGHI0501PUR</b> | HIGH PRESSURE SW KIT                  | X  | X  | X  | X  | X  | X  | X  |
| KAACH1701AAA         | CRKC HTR KIT                          | X  | X  | X  | X  |    |    |    |
| KAACH1601AAA         | CRKC HTR KIT                          |    |    |    |    | X  | X  | X  |
| KSATX0201PUR         | TXV KIT (For use with copper coils)   | X  | X  | X  |    |    |    |    |
| KSATX0301PUR         | TXV KIT (For use with copper coils)   |    |    |    | X  | X  |    |    |
| KSATX0401PUR         | TXV KIT (For use with copper coils)   |    |    |    |    |    | X  | X  |
| KSBTX0201PUR         | TXV KIT (For use with aluminum coils) | X  | X  | X  |    |    |    |    |
| KSBTX0301PUR         | TXV KIT (For use with aluminum coils) |    |    |    | X  | X  |    |    |
| KSBTX0401PUR         | TXV KIT (For use with aluminum coils) |    |    |    |    |    | X  | X  |
| KSASH2301COP         | SOUND BLKT KIT                        | X  | X  | X  | X  |    |    |    |
| KSASH2401COP         | SOUND BLKT KIT                        |    |    |    |    | X  | X  | X  |

X = Accessory

## ACCESSORY USAGE GUIDELINE

| ACCESSORY                                              | REQUIRED FOR<br>LOW-AMBIENT COOLING<br>APPLICATIONS<br>(Below 55°F/12.8°C) | REQUIRED FOR LONG<br>LINE APPLICATIONS* | REQUIRED FOR<br>SEA COAST<br>APPLICATIONS<br>(Within 2 miles/3.22 km) |
|--------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------|-----------------------------------------------------------------------|
| Ball Bearing Fan Motor                                 | Standard                                                                   | Standard                                | Standard                                                              |
| Compressor Start Assist Capacitor and Relay            | Yes                                                                        | Yes                                     | No                                                                    |
| Crankcase Heater                                       | Yes                                                                        | Yes                                     | No                                                                    |
| Evaporator Freeze Thermostat                           | Yes                                                                        | No                                      | No                                                                    |
| Hard Shut-Off TXV                                      | Yes                                                                        | Yes                                     | No                                                                    |
| Liquid Line Solenoid Valve                             | No                                                                         | See Long Line Guideline                 | No                                                                    |
| MotorMaster® Control or<br>Low-ambient Pressure Switch | Yes                                                                        | No                                      | No                                                                    |
| Support Feet                                           | Recommended                                                                | No                                      | Recommended                                                           |
| Winter Start Control                                   | Yes†                                                                       | No                                      | No                                                                    |

\*.For tubing set lengths between 80 and 200 ft. (24 and 61 m) horizontal or 35 ft. (10.7 m) vertical differential (total equivalent length), refer to the Residential Split-System Long Line Application Guideline.

†.Required if Low Pressure Switch is factory or field installed.

### Accessory Description and Usage (Listed Alphabetically)

#### 1. Ball-Bearing Fan Motor

A fan motor with ball bearings which permits speed reduction while maintaining bearing lubrication.

Usage Guideline:

Required on all units when MotorMaster® is used.

#### 2. Compressor Start Assist - Capacitor and Relay

Start capacitor and relay gives a "hard" boost to compressor motor at each start up.

Usage Guideline:

Required for single-phase scroll compressors in the following applications:

Long line

Low ambient cooling

Suggested for all compressors in areas with a history of low voltage problems.

#### 3. Crankcase Heater

An electric resistance heater which mounts to the base of the compressor to keep the lubricant warm during off cycles. Improves compressor lubrication on restart and minimizes the chance of liquid slugging.

Usage Guideline:

Required in low ambient cooling applications.

Required in long line applications.

Suggested in all commercial applications.

#### 4. Cycle Protector

The cycle protector is designed to prevent compressor short cycling. This control provides an approximate 5-minute delay after power to the compressor has been interrupted for any reason, including power outage, protector control trip, thermostat jiggling, or normal cycling.

#### 5. Evaporator Freeze Thermostat

An SPST temperature-actuated switch that stops unit operation when evaporator reaches freeze-up conditions.

Usage Guideline:

Required when low ambient kit has been added.

#### 6. Low-Ambient Pressure Switch Kit

A long life pressure switch which is mounted to outdoor unit service valve. It is designed to cycle the outdoor fan motor in order to maintain head pressure within normal operating limits (approximately 100 psig to 225 psig). The control will maintain working head pressure at low-ambient temperatures down to 0°F (-18°C) when properly installed and also using wind baffles. Instructions provided in accessory kit.

Usage Guideline:

A Low-Ambient Pressure Switch or MotorMaster® Low-Ambient Controller must be used when cooling operation is used at outdoor temperatures below 55°F (12.8°C).

#### 7. MotorMaster® Low-Ambient Controller

A fan-speed control device activated by a temperature sensor, designed to control condenser fan motor speed in response to the saturated, condensing temperature during operation in cooling mode only. For outdoor temperatures down to -10°F/-23.3°C, it maintains condensing temperature at 100°F ±10°F (37.8°C ±5.5°C).

Usage Guideline:

A MotorMaster® Low Ambient Controller or Low-Ambient Pressure Switch must be used when cooling operation is used at outdoor temperatures below 55°F (12.8°C).

Suggested for all commercial applications.

#### 8. Outdoor Air Temperature Sensor

This device enables the thermostat to display the outdoor temperature. This device is also required to enable special thermostat features such as auxiliary heat lock out.

Usage Guideline:

Suggested for use with compatible Carrier thermostats.

#### 9. Sound Hood

Wraparound sound reducing cover for the compressor. Reduces the sound level of the compressor.

Usage Guideline:

Suggested when unit is installed closer than 15 ft (4.57 m) to quiet areas, bedrooms, etc.

Suggested when unit is installed between two houses less than 10 ft (3 m) apart.

## Accessory Description and Usage (Listed Alphabetically) Continued

### 10. Support Feet

Four or five stick-on plastic feet that raise the unit 4 in. (101.6 mm) above the mounting pad. This allows sand, dirt, and other debris to be flushed from the unit base, minimizing corrosion.

Usage Guideline:

Suggested in the following applications:

- Coastal installations.
- Windy areas or where debris is normally circulating.
- Rooftop installations.
- For improved sound ratings.

### 11. Thermostatic Expansion Valve (TXV)

A modulating flow-control valve which meters refrigerant liquid flow rate into the evaporator in response to the superheat of the refrigerant gas leaving the evaporator.

Kit includes valve, adapter tubes, and external equalizer tube. Hard shut off types are available.

Usage Guideline:

- Required to achieve AHRI ratings in certain equipment combinations. Refer to combination ratings.
- Hard shut off TXV or LLS required in air conditioner long line applications.
- Required for use on all zoning systems.

### 12. Time-Delay Relay

An SPST delay relay which briefly continues operation of indoor blower motor to provide additional cooling after the compressor cycles off.

**NOTE:** Most indoor unit controls include this feature. For those that do not, use the guideline below.

Usage Guideline:

For improved efficiency ratings for certain combinations of indoor and outdoor units. Refer to AHRI Directory of Certified Product Performance (AHRI Directory).

When a Time-Delay Relay (TDR) is called for in the AHRI Directory, use a 30 second TDR for MicroChannel Indoor units and use a 90 second TDR for Round Tube Plate Fin Indoor units.

### 13. Winter Start Control

This control is designed to alleviate nuisance opening of the low-pressure switch by bypassing it for the first 3 minutes of operation.



## AHRI RATINGS

For AHRI ratings certificates, please refer to the AHRI directory [www.ahridirectory.org](http://www.ahridirectory.org)

Additional ratings and system combinations can be accessed via the Ratings Database here: [www.MyCarrierRatings.com](http://www.MyCarrierRatings.com)

## Electrical Data

| UNIT SIZE | V/PH      | OPER VOLTS* |     | COMPR |       | FAN  | MCA  | MAX FUSE† or CKT BRK AMPS |
|-----------|-----------|-------------|-----|-------|-------|------|------|---------------------------|
|           |           | MAX         | MIN | LRA   | RLA   | FLA  |      |                           |
| 18        | 208-230/1 | 253         | 197 | 48.0  | 8.00  | 0.40 | 10.4 | 15                        |
| 24        |           |             |     | 59.5  | 11.70 | 0.50 | 15.1 | 25                        |
| 30        |           |             |     | 64.3  | 11.80 | 0.75 | 15.6 | 25                        |
| 36        |           |             |     | 80.1  | 12.20 | 1.05 | 16.4 | 25                        |
| 42        |           |             |     | 110.2 | 17.70 | 1.40 | 23.5 | 40                        |
| 48        |           |             |     | 124.0 | 18.50 | 1.40 | 24.5 | 40                        |
| 60        |           |             |     | 150.0 | 25.60 | 1.52 | 33.5 | 50                        |

\*.Permissible limits of the voltage range at which the unit will operate satisfactorily

†.Time-Delay fuse.

FLA- Full Load Amps

LRA - Locked Rotor Amps

MCA- Minimum Circuit Amps

RLA- Rated Load Amps

NOTE:Control circuit is 24V on all units and requires external power source. Copper wire must be used from service disconnect to unit.

All motors/compressors contain internal overload protection.

Complies with requirements of ASHRAE Standards 90.1

## Sound Power Level without sound shield

| UNIT SIZE | STANDARD RATING (dBA) | TYPICAL OCTAVE BAND SPECTRUM (without tone adjustment) (dB) |      |      |      |      |      |      |
|-----------|-----------------------|-------------------------------------------------------------|------|------|------|------|------|------|
|           |                       | 125                                                         | 250  | 500  | 1000 | 2000 | 4000 | 8000 |
| 18        | 75                    | 68.9                                                        | 65.3 | 65.6 | 71.4 | 68.4 | 63.8 | 61.2 |
| 24        | 74                    | 66.9                                                        | 72.6 | 70.0 | 70.7 | 66.6 | 62.7 | 59.2 |
| 30        | 73                    | 69.5                                                        | 68.9 | 68.9 | 68.5 | 62.8 | 60.0 | 57.4 |
| 36        | 75                    | 70.8                                                        | 73.6 | 71.5 | 69.5 | 66.1 | 63.6 | 58.1 |
| 42        | 73                    | 73.9                                                        | 72.6 | 70.3 | 68.2 | 64.3 | 61.2 | 57.3 |
| 48        | 76                    | 72.3                                                        | 74.1 | 71.2 | 70.6 | 63.8 | 61.6 | 55.9 |
| 60        | 76                    | 70.0                                                        | 75.0 | 71.9 | 73.7 | 66.0 | 61.7 | 56.3 |

NOTE: Tested in compliance with AHRI 270 but not listed with AHRI.

## Sound Power Level with Accessory sound shield

| UNIT SIZE | STANDARD RATING (dBA) | TYPICAL OCTAVE BAND SPECTRUM (without tone adjustment) (dB) |      |      |      |      |      |      |
|-----------|-----------------------|-------------------------------------------------------------|------|------|------|------|------|------|
|           |                       | 125                                                         | 250  | 500  | 1000 | 2000 | 4000 | 8000 |
| 18        | 75                    | 66.4                                                        | 67.0 | 66.1 | 71.5 | 66.6 | 62.5 | 61.1 |
| 24        | 74                    | 68.4                                                        | 72.2 | 70.4 | 70.2 | 66.0 | 62.3 | 58.5 |
| 30        | 72                    | 69.3                                                        | 69.7 | 68.8 | 68.0 | 62.4 | 59.5 | 55.7 |
| 36        | 75                    | 71.0                                                        | 73.7 | 71.2 | 69.0 | 65.4 | 63.0 | 57.7 |
| 42        | 73                    | 75.3                                                        | 71.7 | 70.0 | 68.1 | 63.9 | 60.2 | 55.3 |
| 48        | 74                    | 73.3                                                        | 74.2 | 71.6 | 69.9 | 63.8 | 60.4 | 54.7 |
| 60        | 75                    | 70.2                                                        | 73.9 | 71.8 | 72.4 | 64.2 | 60.4 | 54.6 |

NOTE: Tested in compliance with AHRI 270 but not listed with AHRI.

## Charging Subcooling (TXV-Type Expansion Device)

| UNIT SIZE | REQUIRED SUBCOOLING (F) | Indoor |
|-----------|-------------------------|--------|
| 18        | 14                      | TXV    |
| 24        | 10                      |        |
| 30        | 10                      |        |
| 36        | 10                      |        |
| 42        | 11                      |        |
| 48        | 12                      |        |
| 60        | 12                      |        |

# DIMENSIONS

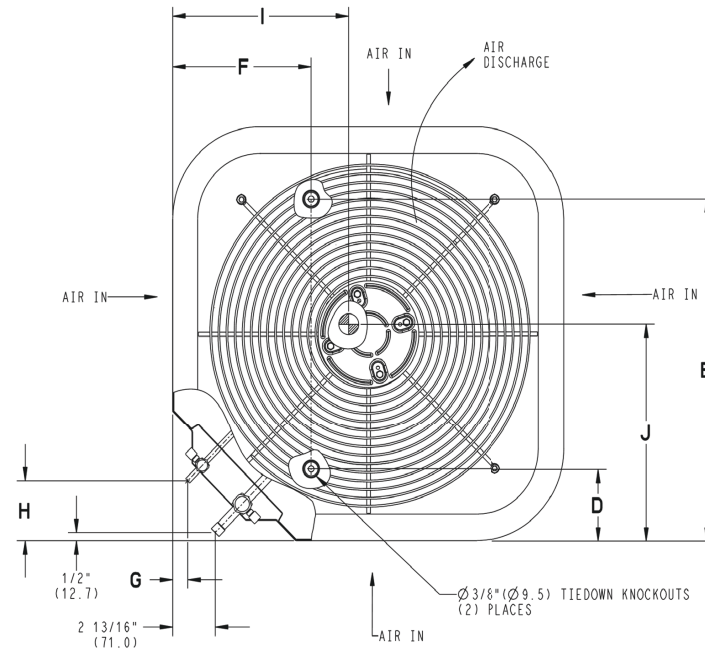
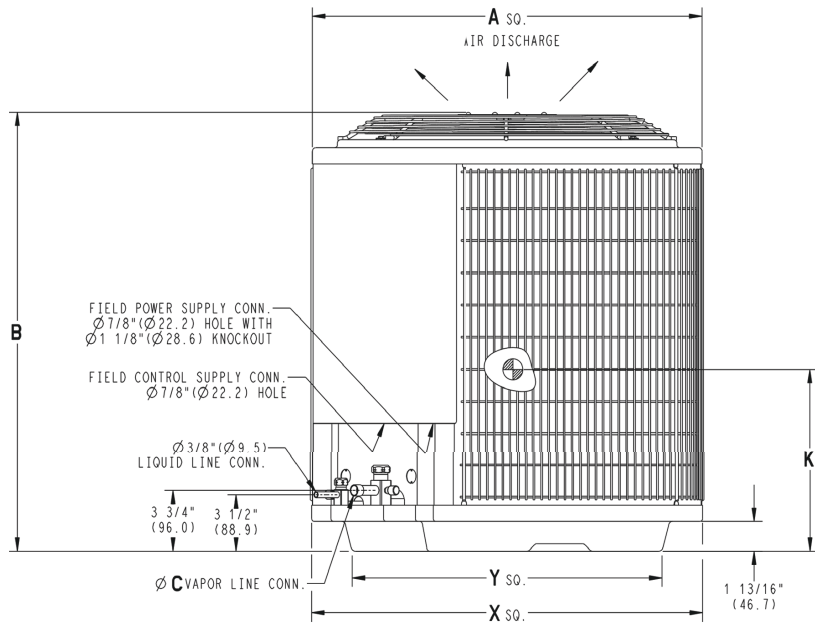
| UNIT        | SERIES | ELECTRICAL CHARACTERISTICS |   |   |   |         | A     |          | B      |     | C    |        | D     |          | E     |         | F     |      | G    |    | H    |        | I     |        | J     |        | K     |     | OPERATING WEIGHT |     | SHIPPING WEIGHT |        | SHIPPING LENGTH / WIDTH (Sq.) |          | SHIPPING HEIGHT |     |
|-------------|--------|----------------------------|---|---|---|---------|-------|----------|--------|-----|------|--------|-------|----------|-------|---------|-------|------|------|----|------|--------|-------|--------|-------|--------|-------|-----|------------------|-----|-----------------|--------|-------------------------------|----------|-----------------|-----|
|             |        |                            |   |   |   |         | INCH  | MM       | INCH   | MM  | INCH | MM     | INCH  | MM       | INCH  | MM      | INCH  | MM   | INCH | MM | INCH | MM     | INCH  | MM     | INCH  | MM     | INCH  | MM  | INCH             | MM  | INCH            | MM     | Lbs                           | Kgs      | Lbs             | Kgs |
| 24SCA418N°0 | 0      | Y                          | N | N | N | 23 1/8  | 587.3 | 25 5/16  | 642.9  | 3/4 | 19.1 | 4 7/16 | 113.0 | 18 1/16  | 459.0 | 7 13/16 | 197.9 | 5/16 | 7.9  | 3  | 76.2 | 11     | 279.4 | 10 1/2 | 266.7 | 10 1/4 | 260.4 | 100 | 45.4             | 109 | 49.4            | 26     | 660.0                         | 30 9/16  | 775.7           |     |
| 24SCA424N°0 | 0      | Y                          | N | N | N | 25 3/4  | 654.0 | 25 5/16  | 642.4  | 3/4 | 19.1 | 4 7/16 | 113.0 | 21 1/4   | 539.9 | 9 1/8   | 231.3 | 5/16 | 7.9  | 3  | 76.2 | 13 1/2 | 342.9 | 13     | 330.2 | 12 1/2 | 317.5 | 111 | 50.3             | 121 | 54.9            | 28 3/4 | 730.0                         | 30 9/16  | 775.7           |     |
| 24SCA430N°0 | 0      | Y                          | N | N | N | 31 3/16 | 792.5 | 32 1/16  | 815.1  | 3/4 | 19.1 | 6 9/16 | 166.1 | 24 11/16 | 626.3 | 9 1/8   | 231.3 | 5/16 | 7.9  | 3  | 76.2 | 15     | 381.0 | 15 3/4 | 400.1 | 16     | 406.4 | 139 | 63.0             | 161 | 73.0            | 34 1/4 | 870.0                         | 37 5/16  | 947.9           |     |
| 24SCA436N°0 | 0      | Y                          | N | N | N | 31 3/16 | 792.5 | 25 5/16  | 642.4  | 7/8 | 22.2 | 6 9/16 | 166.1 | 24 11/16 | 626.3 | 9 1/8   | 231.3 | 5/16 | 7.9  | 3  | 76.2 | 14 1/2 | 368.3 | 15     | 381.0 | 11 1/2 | 292.1 | 132 | 59.9             | 146 | 66.2            | 34 1/4 | 870.0                         | 30 1/2   | 775.2           |     |
| 24SCA442N°0 | 0      | Y                          | N | N | N | 31 3/16 | 792.5 | 42 5/16  | 1074.2 | 7/8 | 22.2 | 6 9/16 | 166.1 | 24 11/16 | 626.3 | 9 1/8   | 231.3 | 5/16 | 7.9  | 3  | 76.2 | 17     | 431.8 | 15 1/2 | 393.7 | 22 1/2 | 571.5 | 181 | 82.1             | 203 | 92.1            | 34 1/4 | 870.0                         | 47 1/2   | 1207.1          |     |
| 24SCA448N°0 | 0      | Y                          | N | N | N | 31 3/16 | 792.5 | 28 11/16 | 728.7  | 7/8 | 22.2 | 6 9/16 | 166.1 | 24 11/16 | 626.3 | 9 1/8   | 231.3 | 5/16 | 7.9  | 3  | 76.2 | 14 1/2 | 368.3 | 14 1/2 | 368.3 | 12 1/2 | 317.5 | 171 | 77.6             | 190 | 86.2            | 34 1/4 | 870.0                         | 33 15/16 | 861.6           |     |
| 24SCA460N°0 | 0      | Y                          | N | N | N | 31 3/16 | 792.5 | 35 1/2   | 901.4  | 7/8 | 22.2 | 6 9/16 | 166.1 | 24 11/16 | 626.3 | 9 1/8   | 231.3 | 5/16 | 7.9  | 3  | 76.2 | 15 1/2 | 393.7 | 16     | 406.4 | 18 1/2 | 469.9 | 190 | 86.2             | 206 | 93.4            | 34 1/4 | 870.0                         | 40 3/4   | 1034.3          |     |

|              |
|--------------|
| 208-200-1-60 |
| 208/230-3-60 |
| 460-3-96     |
| 575-3-60     |

Y=YES  
N=NO

**NOTES:**

1. CENTER OF GRAVITY



NOTE: ALL DIMENSIONS IN INCH (MM)

U.S. ECCN: Not Subject to Regulation (N.S.R.)

SD5750-4 REV. A

Manufacturer reserves the right to change, at any time, specifications and designs without notice and without obligations.

**CONDENSER ONLY RATINGS**

| SST<br>°F (°C)               |     | CONDENSER ENTERING AIR TEMPERATURES °F (°C) |             |             |             |             |              |              |
|------------------------------|-----|---------------------------------------------|-------------|-------------|-------------|-------------|--------------|--------------|
|                              |     | 55.0 (12.8)                                 | 65.0 (18.3) | 75.0 (23.9) | 85.0 (29.4) | 95.0 (35.0) | 105.0 (40.6) | 115.0 (46.1) |
| <b>24SCA418N0030</b>         |     |                                             |             |             |             |             |              |              |
| <b>30.0</b><br><b>(-1.1)</b> | TCG | 15.10                                       | 14.10       | 13.10       | 12.20       | 11.30       | 10.40        | 9.50         |
|                              | SDT | 70.40                                       | 79.80       | 89.20       | 98.70       | 108.30      | 117.80       | 127.30       |
|                              | KW  | 0.80                                        | 0.91        | 1.02        | 1.15        | 1.30        | 1.46         | 1.65         |
| <b>35.0</b><br><b>(1.7)</b>  | TCG | 16.60                                       | 15.60       | 14.60       | 13.60       | 12.70       | 11.70        | 10.60        |
|                              | SDT | 71.50                                       | 80.80       | 90.30       | 99.70       | 109.20      | 118.70       | 128.20       |
|                              | KW  | 0.80                                        | 0.91        | 1.02        | 1.15        | 1.30        | 1.47         | 1.66         |
| <b>40.0</b><br><b>(4.4)</b>  | TCG | 18.30                                       | 17.20       | 16.10       | 15.10       | 14.10       | 13.00        | 11.90        |
|                              | SDT | 72.50                                       | 81.90       | 91.30       | 100.80      | 110.20      | 119.60       | 129.10       |
|                              | KW  | 0.79                                        | 0.90        | 1.02        | 1.15        | 1.30        | 1.47         | 1.66         |
| <b>45.0</b><br><b>(7.2)</b>  | TCG | 20.00                                       | 18.80       | 17.80       | 16.70       | 15.60       | 14.50        | 13.30        |
|                              | SDT | 73.70                                       | 83.00       | 92.40       | 101.90      | 111.20      | 120.70       | 130.10       |
|                              | KW  | 0.78                                        | 0.89        | 1.02        | 1.15        | 1.30        | 1.47         | 1.67         |
| <b>50.0</b><br><b>(10.0)</b> | TCG | 21.80                                       | 20.70       | 19.50       | 18.40       | 17.30       | 16.10        | 14.80        |
|                              | SDT | 74.90                                       | 84.20       | 93.50       | 103.00      | 112.40      | 121.70       | 131.10       |
|                              | KW  | 0.77                                        | 0.89        | 1.01        | 1.15        | 1.30        | 1.48         | 1.67         |
| <b>55.0</b><br><b>(12.8)</b> | TCG | 23.80                                       | 22.60       | 21.40       | 20.20       | 19.00       | 17.70        | 16.40        |
|                              | SDT | 76.10                                       | 85.40       | 94.80       | 104.20      | 113.60      | 122.90       | 132.10       |
|                              | KW  | 0.76                                        | 0.88        | 1.00        | 1.15        | 1.30        | 1.48         | 1.68         |
| <b>24SCA424N0030</b>         |     |                                             |             |             |             |             |              |              |
| <b>30.0</b><br><b>(-1.1)</b> | TCG | 19.34                                       | 18.30       | 17.26       | 16.17       | 15.01       | 13.77        | 12.40        |
|                              | SDT | 73.94                                       | 83.52       | 93.16       | 102.71      | 112.14      | 121.57       | 130.96       |
|                              | KW  | 0.98                                        | 1.12        | 1.29        | 1.47        | 1.68        | 1.92         | 2.20         |
| <b>35.0</b><br><b>(1.7)</b>  | TCG | 21.38                                       | 20.26       | 19.13       | 17.96       | 16.72       | 15.37        | 13.93        |
|                              | SDT | 75.24                                       | 84.81       | 94.38       | 103.89      | 113.31      | 122.73       | 132.06       |
|                              | KW  | 0.98                                        | 1.13        | 1.29        | 1.47        | 1.68        | 1.92         | 2.20         |
| <b>40.0</b><br><b>(4.4)</b>  | TCG | 23.58                                       | 22.37       | 21.16       | 19.90       | 18.57       | 17.13        | 15.58        |
|                              | SDT | 76.62                                       | 86.14       | 95.61       | 105.11      | 114.51      | 123.92       | 133.17       |
|                              | KW  | 0.98                                        | 1.13        | 1.29        | 1.47        | 1.68        | 1.92         | 2.20         |
| <b>45.0</b><br><b>(7.2)</b>  | TCG | 25.95                                       | 24.65       | 23.35       | 22.00       | 20.56       | 19.03        | 17.39        |
|                              | SDT | 78.08                                       | 87.51       | 96.97       | 106.34      | 115.79      | 125.11       | 134.39       |
|                              | KW  | 0.98                                        | 1.13        | 1.29        | 1.47        | 1.68        | 1.92         | 2.19         |
| <b>50.0</b><br><b>(10.0)</b> | TCG | 28.48                                       | 27.09       | 25.69       | 24.26       | 22.72       | 21.08        | 19.32        |
|                              | SDT | 79.73                                       | 89.10       | 98.46       | 107.57      | 116.94      | 126.28       | 135.58       |
|                              | KW  | 0.98                                        | 1.13        | 1.28        | 1.46        | 1.67        | 1.91         | 2.19         |
| <b>55.0</b><br><b>(12.8)</b> | TCG | 31.22                                       | 29.72       | 28.21       | 26.66       | 25.02       | 23.26        | 21.38        |
|                              | SDT | 81.37                                       | 90.71       | 100.00      | 109.14      | 118.21      | 127.54       | 136.81       |
|                              | KW  | 0.98                                        | 1.12        | 1.28        | 1.45        | 1.65        | 1.89         | 2.17         |
| <b>24SCA430N0030</b>         |     |                                             |             |             |             |             |              |              |
| <b>30.0</b><br><b>(-1.1)</b> | TCG | 23.36                                       | 22.09       | 20.86       | 19.60       | 18.26       | 16.80        | 15.18        |
|                              | SDT | 77.76                                       | 87.66       | 97.65       | 107.75      | 117.95      | 128.31       | 138.89       |
|                              | KW  | 1.20                                        | 1.35        | 1.53        | 1.74        | 1.99        | 2.28         | 2.64         |
| <b>35.0</b><br><b>(1.7)</b>  | TCG | 25.77                                       | 24.41       | 23.07       | 21.70       | 20.25       | 18.65        | 16.96        |
|                              | SDT | 79.48                                       | 89.29       | 99.26       | 109.32      | 119.51      | 129.88       | 140.34       |
|                              | KW  | 1.21                                        | 1.36        | 1.54        | 1.75        | 2.01        | 2.31         | 2.67         |
| <b>40.0</b><br><b>(4.4)</b>  | TCG | 28.37                                       | 26.91       | 25.46       | 23.98       | 22.39       | 20.67        | 18.83        |
|                              | SDT | 81.25                                       | 91.02       | 100.97      | 110.97      | 121.09      | 131.37       | 141.69       |
|                              | KW  | 1.22                                        | 1.37        | 1.55        | 1.77        | 2.02        | 2.33         | 2.69         |
| <b>45.0</b><br><b>(7.2)</b>  | TCG | 31.18                                       | 29.61       | 28.04       | 26.43       | 24.70       | 22.83        | 20.81        |
|                              | SDT | 83.07                                       | 92.90       | 102.76      | 112.64      | 122.70      | 132.94       | 143.15       |
|                              | KW  | 1.23                                        | 1.38        | 1.56        | 1.78        | 2.04        | 2.35         | 2.72         |
| <b>50.0</b><br><b>(10.0)</b> | TCG | 34.21                                       | 32.51       | 30.81       | 29.05       | 27.19       | 25.16        | 22.98        |
|                              | SDT | 85.18                                       | 94.87       | 104.65      | 114.51      | 124.32      | 134.42       | 144.49       |
|                              | KW  | 1.24                                        | 1.39        | 1.57        | 1.80        | 2.06        | 2.37         | 2.74         |
| <b>55.0</b><br><b>(12.8)</b> | TCG | 37.46                                       | 35.63       | 33.78       | 31.87       | 29.86       | 27.66        | 25.32        |
|                              | SDT | 87.34                                       | 96.88       | 106.60      | 116.34      | 125.94      | 135.92       | 145.81       |
|                              | KW  | 1.24                                        | 1.40        | 1.58        | 1.81        | 2.07        | 2.39         | 2.75         |

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**CONDENSER ONLY RATINGS (Continued)**

| SST<br>°F (°C)       |     | CONDENSER ENTERING AIR TEMPERATURES °F (°C) |             |             |             |             |              |              |
|----------------------|-----|---------------------------------------------|-------------|-------------|-------------|-------------|--------------|--------------|
|                      |     | 55.0 (12.8)                                 | 65.0 (18.3) | 75.0 (23.9) | 85.0 (29.4) | 95.0 (35.0) | 105.0 (40.6) | 115.0 (46.1) |
| <b>24SCA436N0030</b> |     |                                             |             |             |             |             |              |              |
| 30.0<br>(-1.1)       | TCG | 30.00                                       | 28.36       | 26.78       | 25.19       | 23.53       | 21.80        | 19.97        |
|                      | SDT | 75.41                                       | 84.88       | 94.32       | 103.73      | 113.17      | 122.50       | 131.71       |
|                      | KW  | 1.39                                        | 1.66        | 1.90        | 2.14        | 2.39        | 2.66         | 2.98         |
| 35.0<br>(1.7)        | TCG | 33.10                                       | 31.32       | 29.60       | 27.86       | 26.04       | 24.12        | 22.12        |
|                      | SDT | 76.81                                       | 86.28       | 95.69       | 105.00      | 114.37      | 123.69       | 132.82       |
|                      | KW  | 1.41                                        | 1.68        | 1.92        | 2.16        | 2.41        | 2.70         | 3.03         |
| 40.0<br>(4.4)        | TCG | 36.40                                       | 34.50       | 32.61       | 30.66       | 28.71       | 26.61        | 24.41        |
|                      | SDT | 78.36                                       | 87.68       | 97.07       | 106.39      | 115.63      | 124.86       | 133.91       |
|                      | KW  | 1.43                                        | 1.69        | 1.93        | 2.17        | 2.43        | 2.73         | 3.07         |
| 45.0<br>(7.2)        | TCG | 39.90                                       | 37.87       | 35.82       | 33.74       | 31.53       | 29.24        | 26.79        |
|                      | SDT | 80.19                                       | 89.25       | 98.51       | 107.73      | 116.97      | 126.07       | 135.21       |
|                      | KW  | 1.46                                        | 1.70        | 1.94        | 2.18        | 2.45        | 2.75         | 3.12         |
| 50.0<br>(10.0)       | TCG | 43.65                                       | 41.42       | 39.21       | 36.90       | 34.51       | 32.00        | 29.36        |
|                      | SDT | 81.93                                       | 91.11       | 99.94       | 109.21      | 118.32      | 127.31       | 136.24       |
|                      | KW  | 1.47                                        | 1.72        | 1.94        | 2.19        | 2.46        | 2.77         | 3.14         |
| 55.0<br>(12.8)       | TCG | 47.55                                       | 45.19       | 42.78       | 40.26       | 37.63       | 34.90        | 32.03        |
|                      | SDT | 84.02                                       | 92.82       | 101.95      | 110.58      | 119.68      | 128.54       | 137.29       |
|                      | KW  | 1.48                                        | 1.72        | 1.95        | 2.19        | 2.47        | 2.78         | 3.15         |
| <b>24SCA442N0030</b> |     |                                             |             |             |             |             |              |              |
| 30.0<br>(-1.1)       | TCG | 33.37                                       | 31.78       | 30.15       | 28.45       | 26.69       | 24.84        | 22.89        |
|                      | SDT | 69.65                                       | 79.17       | 88.69       | 98.22       | 107.73      | 117.17       | 126.59       |
|                      | KW  | 1.86                                        | 2.07        | 2.31        | 2.58        | 2.87        | 3.21         | 3.58         |
| 35.0<br>(1.7)        | TCG | 36.81                                       | 35.06       | 33.26       | 31.40       | 29.46       | 27.44        | 25.34        |
|                      | SDT | 70.90                                       | 80.29       | 89.76       | 99.21       | 108.68      | 118.11       | 127.43       |
|                      | KW  | 1.87                                        | 2.08        | 2.32        | 2.59        | 2.89        | 3.22         | 3.60         |
| 40.0<br>(4.4)        | TCG | 40.55                                       | 38.61       | 36.62       | 34.56       | 32.45       | 30.26        | 27.97        |
|                      | SDT | 72.12                                       | 81.47       | 90.89       | 100.36      | 109.73      | 119.04       | 128.37       |
|                      | KW  | 1.88                                        | 2.09        | 2.33        | 2.60        | 2.90        | 3.24         | 3.62         |
| 45.0<br>(7.2)        | TCG | 44.61                                       | 42.45       | 40.25       | 37.99       | 35.72       | 33.31        | 30.81        |
|                      | SDT | 73.45                                       | 82.79       | 92.17       | 101.54      | 110.71      | 120.07       | 129.36       |
|                      | KW  | 1.88                                        | 2.10        | 2.34        | 2.61        | 2.91        | 3.26         | 3.64         |
| 50.0<br>(10.0)       | TCG | 49.00                                       | 46.61       | 44.20       | 41.72       | 39.18       | 36.60        | 33.89        |
|                      | SDT | 74.85                                       | 84.11       | 93.40       | 102.71      | 112.06      | 121.16       | 130.34       |
|                      | KW  | 1.89                                        | 2.10        | 2.35        | 2.62        | 2.93        | 3.27         | 3.66         |
| 55.0<br>(12.8)       | TCG | 53.74                                       | 51.14       | 48.46       | 45.75       | 42.97       | 40.14        | 37.20        |
|                      | SDT | 76.40                                       | 85.41       | 94.76       | 104.00      | 113.27      | 122.31       | 131.40       |
|                      | KW  | 1.89                                        | 2.11        | 2.35        | 2.63        | 2.94        | 3.29         | 3.68         |
| <b>24SCA448N0030</b> |     |                                             |             |             |             |             |              |              |
| 30.0<br>(-1.1)       | TCG | 38.05                                       | 36.11       | 34.19       | 32.26       | 30.26       | 28.17        | 25.97        |
|                      | SDT | 70.62                                       | 79.92       | 89.27       | 98.66       | 108.06      | 117.49       | 126.92       |
|                      | KW  | 2.25                                        | 2.45        | 2.70        | 3.00        | 3.34        | 3.75         | 4.21         |
| 35.0<br>(1.7)        | TCG | 41.87                                       | 39.78       | 37.70       | 35.60       | 33.43       | 31.17        | 28.79        |
|                      | SDT | 72.00                                       | 81.22       | 90.51       | 99.85       | 109.22      | 118.60       | 127.96       |
|                      | KW  | 2.26                                        | 2.46        | 2.72        | 3.02        | 3.37        | 3.77         | 4.24         |
| 40.0<br>(4.4)        | TCG | 46.02                                       | 43.75       | 41.49       | 39.20       | 36.85       | 34.40        | 31.71        |
|                      | SDT | 73.48                                       | 82.63       | 91.89       | 101.17      | 110.47      | 119.77       | 129.03       |
|                      | KW  | 2.26                                        | 2.47        | 2.73        | 3.04        | 3.39        | 3.80         | 4.27         |
| 45.0<br>(7.2)        | TCG | 50.50                                       | 48.04       | 45.58       | 43.10       | 40.54       | 37.88        | 35.10        |
|                      | SDT | 75.10                                       | 84.21       | 93.39       | 102.59      | 111.81      | 121.04       | 130.22       |
|                      | KW  | 2.27                                        | 2.48        | 2.75        | 3.06        | 3.42        | 3.83         | 4.30         |
| 50.0<br>(10.0)       | TCG | 55.39                                       | 52.67       | 50.00       | 47.30       | 44.52       | 41.64        | 38.62        |
|                      | SDT | 76.95                                       | 85.90       | 94.99       | 104.12      | 113.25      | 122.35       | 131.43       |
|                      | KW  | 2.27                                        | 2.49        | 2.76        | 3.08        | 3.45        | 3.86         | 4.34         |
| 55.0<br>(12.8)       | TCG | 60.58                                       | 57.73       | 54.77       | 51.83       | 48.81       | 45.68        | 42.41        |
|                      | SDT | 78.82                                       | 87.79       | 96.72       | 105.73      | 114.73      | 123.74       | 132.72       |
|                      | KW  | 2.27                                        | 2.51        | 2.78        | 3.10        | 3.47        | 3.89         | 4.37         |

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**CONDENSER ONLY RATINGS (Continued)**

| SST<br>°F (°C)               |     | CONDENSER ENTERING AIR TEMPERATURES °F (°C) |             |             |             |             |              |              |
|------------------------------|-----|---------------------------------------------|-------------|-------------|-------------|-------------|--------------|--------------|
|                              |     | 55.0 (12.8)                                 | 65.0 (18.3) | 75.0 (23.9) | 85.0 (29.4) | 95.0 (35.0) | 105.0 (40.6) | 115.0 (46.1) |
| <b>24SCA460N0030</b>         |     |                                             |             |             |             |             |              |              |
| <b>30.0</b><br><b>(-1.1)</b> | TCG | 48.86                                       | 46.38       | 43.92       | 41.41       | 38.79       | 36.02        | 33.09        |
|                              | SDT | 71.15                                       | 80.38       | 89.65       | 98.97       | 108.25      | 117.49       | 126.66       |
|                              | KW  | 2.73                                        | 2.99        | 3.30        | 3.67        | 4.10        | 4.59         | 5.16         |
| <b>35.0</b><br><b>(1.7)</b>  | TCG | 53.79                                       | 51.10       | 48.43       | 45.70       | 42.85       | 39.87        | 36.67        |
|                              | SDT | 72.64                                       | 81.80       | 91.01       | 100.26      | 109.46      | 118.64       | 127.76       |
|                              | KW  | 2.75                                        | 3.01        | 3.33        | 3.70        | 4.14        | 4.64         | 5.21         |
| <b>40.0</b><br><b>(4.4)</b>  | TCG | 59.10                                       | 56.19       | 53.28       | 50.30       | 47.20       | 43.95        | 40.47        |
|                              | SDT | 74.25                                       | 83.34       | 92.49       | 101.64      | 110.78      | 119.88       | 128.91       |
|                              | KW  | 2.77                                        | 3.04        | 3.36        | 3.74        | 4.18        | 4.69         | 5.27         |
| <b>45.0</b><br><b>(7.2)</b>  | TCG | 64.80                                       | 61.64       | 58.47       | 55.23       | 51.85       | 48.30        | 44.54        |
|                              | SDT | 75.99                                       | 84.99       | 94.06       | 103.14      | 112.20      | 121.20       | 130.14       |
|                              | KW  | 2.78                                        | 3.06        | 3.39        | 3.78        | 4.23        | 4.74         | 5.32         |
| <b>50.0</b><br><b>(10.0)</b> | TCG | 70.91                                       | 67.48       | 64.02       | 60.48       | 56.80       | 52.92        | 48.82        |
|                              | SDT | 77.86                                       | 86.77       | 95.77       | 104.76      | 113.70      | 122.61       | 131.43       |
|                              | KW  | 2.79                                        | 3.08        | 3.42        | 3.81        | 4.27        | 4.79         | 5.37         |
| <b>55.0</b><br><b>(12.8)</b> | TCG | 77.45                                       | 73.70       | 69.92       | 66.05       | 62.03       | 57.81        | 53.36        |
|                              | SDT | 79.90                                       | 88.70       | 97.59       | 106.47      | 115.30      | 124.08       | 132.77       |
|                              | KW  | 2.81                                        | 3.10        | 3.44        | 3.85        | 4.31        | 4.83         | 5.42         |

KW - Outdoor Unit Kilowatts Only.

SDT -Saturated Temperature Leaving Compressor (°F)

SST -Saturated Temperature Entering Compressor (°F/°C)

TCG -Gross Cooling Capacity (1000 Btuh)