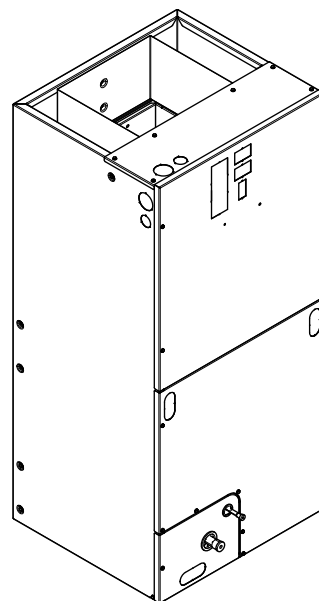




# Product Data

## Variable Speed Convertible Air Handlers 2 – 5 Ton

5TEMCB02AV21DA  
5TEMCB03AV31DA  
5TEMCD04AV31DA  
5TEMCD05AV41DA  
5TEMCD06AV41DA  
5TEMCD07AV51DA



The Diagnostics Mobile App is available by scanning a QR code located inside this unit or by searching for the Link Diagnostics App in your App Store.

**Note:** The 5TEMC series air handler is designed for installation in a closet, utility room, alcove, basement, crawlspace or attic. These versatile units are applicable to air conditioning and heat pump applications. Several models are available to meet the specific requirements of the outdoor equipment. Field installed electric resistance heaters are available.

**Note:** This unit can be used in Link Communicating mode or 24 volt mode.

**Note:** Use Diagnostics App to configure blower delays, accessories, ect. in 24 volt mode.



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## Features and Benefits

- Link™ Communicating or 24V control
- Painted metal cabinet with captured foil face insulation
- 2% or less air leakage
- R-4.2 Insulating Value
- Multi-Position UP/Down Flow, Horizontal Left /Right
- ALL Aluminum Coil
- Electric Heaters with polarized plug connections (sold as accessory)
- R-454B Thermal Expansion Valve
- Variable Speed ECM Motor
- Low Voltage Pigtail Connections
- Draw Through Design
- Horizontal Drain Pan
- Single Color
- Fused 24V Power
- **5 Year Base Limited Warranty**
- **10 Year Registered Limited Warranty**
- **Optional extended warranty available**



## Features and Benefits

### Optional Equipment

| Accessory Number         | Description                                                                              | Fits Cabinet Size |
|--------------------------|------------------------------------------------------------------------------------------|-------------------|
| BAYHTR1504BRK            | Electric Heater, 4KW, Breaker, 24V Control, 1 Ph                                         | 18.5" and 23.5"   |
| BAYHTR1504LUG            | Electric Heater, 4KW, Lug, 24V Control, 1 Ph                                             | 18.5" and 23.5"   |
| BAYHTR1505BRK            | Electric Heater, 5KW, Breaker, 24V Control, 1 Ph                                         | 18.5" and 23.5"   |
| BAYHTR1505LUG            | Electric Heater, 5KW, Lug, 24V Control, 1 Ph                                             | 18.5" and 23.5"   |
| BAYHTR1508BRK            | Electric Heater, 8KW, Breaker, 24V Control, 1 Ph                                         | 18.5" and 23.5"   |
| BAYHTR1508LUG            | Electric Heater, 8KW, Lug, 24V Control, 1 Ph                                             | 18.5" and 23.5"   |
| BAYHTR1510BRK            | Electric Heater, 10KW, Breaker, 24V Control, 1 Ph                                        | 18.5" and 23.5"   |
| BAYHTR1510LUG            | Electric Heater, 10KW, Lug, 24V Control, 1 Ph                                            | 18.5" and 23.5"   |
| BAYHTR3510LUG            | Electric Heater, 10KW, Lug, 24V Control, 3 Ph                                            | 18.5" and 23.5"   |
| BAYHTR1517BRK            | Electric Heater, 15KW, Breaker, 24V Control, 1 Ph                                        | 18.5" and 23.5"   |
| BAYHTR3517LUG            | Electric Heater, 15KW, Lug, 24V Control, 3 Ph                                            | 18.5" and 23.5"   |
| BAYHTR1523BRK            | Electric Heater, 20KW, Breaker, 24V Control, 1 Ph                                        | 23.5"             |
| BAYHTR1525BRK            | Electric Heater, 25KW, Breaker, 24V Control, 1 Ph                                        | 23.5"             |
| BAYTEMSPFG1A             | Supply Duct Flange Kit                                                                   | 18.5" and 23.5"   |
| BAYSPEKT201A             | Single Point Power Entry Kit                                                             | 18.5" and 23.5"   |
| TAYBASE185               | Air Handler Downflow Sub-Bases                                                           | 18.5"             |
| TAYBASE235 (TAYBASE 100) | Air Handler Downflow Sub-Bases                                                           | 23.5"             |
| BAYSF1185AAA             | Slim Fit Filter Box                                                                      | 18.5"             |
| BAYSF1235AAA             | Slim Fit Filter Box                                                                      | 23.5"             |
| FLRSF1185                | 1" Slim Fit Replacement Filter, 17.75"x19.75", Qty 12                                    | 18.5"             |
| FLRSF1235                | 1" Slim Fit Replacement Filter, 22.75"x19.75", Qty 12                                    | 23.5"             |
| TEMBRKSEALT01A           | Breaker Seal Kit for sure with BAYHTR15 4kW — 20kW Heaters                               | 18.5" and 23.5"   |
| TEMBRKSEALT25A           | Breaker Seal Kit for use with 25 kW electric heaters & heater kits used with BAYSPEKT201 | 18.5" and 23.5"   |
| BAYTEMDFKT1A             | Downflow Condensate Management Kit                                                       | 18.5" and 23.5"   |
| BAYAHEMIKIT001           | Air handler Electronic Noise Kit used on Variable Speed Blower Motor                     | 18.5" and 23.5"   |



# Product Specifications

| MODEL                                                           | STEMCB02AV21DA                                                                                                                                               | STEMCB03AV31DA                                                                                                                                               | STEMCD04AV31DA                                                                                                                                               |
|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Family Description                                              | R-454B Variable Speed Air Handler                                                                                                                            | R-454B Variable Speed Air Handler                                                                                                                            | R-454B Variable Speed Air Handler                                                                                                                            |
| Description                                                     | R-454B Variable Speed Air Handler, All-Aluminum Plate Fin Coil, 4-Way Poise, Link Communicating or 24V System Control, 208-230/1/60, 18K - 24K BTUH Capacity | R-454B Variable Speed Air Handler, All-Aluminum Plate Fin Coil, 4-Way Poise, Link Communicating or 24V System Control, 208-230/1/60, 18K - 30K BTUH Capacity | R-454B Variable Speed Air Handler, All-Aluminum Plate Fin Coil, 4-Way Poise, Link Communicating or 24V System Control, 208-230/1/60, 24K - 42K BTUH Capacity |
| Application Configuration                                       | 4-Way                                                                                                                                                        | 4-Way                                                                                                                                                        | 4-Way                                                                                                                                                        |
| <b>RATED CAPACITY RANGE (BTUH)</b>                              | 18K - 24K                                                                                                                                                    | 18K - 30K                                                                                                                                                    | 24K - 42K                                                                                                                                                    |
| <b>SYSTEM CONTROL TYPE</b>                                      | Link Communicating or 24V                                                                                                                                    | Link Communicating or 24V                                                                                                                                    | Link Communicating or 24V                                                                                                                                    |
| <b>POWER CONN. - V/PH/HZ</b>                                    | 208-230/1/60                                                                                                                                                 | 208-230/1/60                                                                                                                                                 | 208-230/1/60                                                                                                                                                 |
| Max Breaker Size, Without Electric Heater (Amps) <sup>(a)</sup> | 15                                                                                                                                                           | 15                                                                                                                                                           | 15                                                                                                                                                           |
| Max Breaker Size, With Electric Heater (Amps)                   | 60                                                                                                                                                           | 60                                                                                                                                                           | 60                                                                                                                                                           |
| Name Plate                                                      | See Unit Nameplate                                                                                                                                           | See Unit Nameplate                                                                                                                                           | See Unit Nameplate                                                                                                                                           |
| <b>COIL TYPE</b>                                                | All-Aluminum Plate Fin                                                                                                                                       | All-Aluminum Plate Fin                                                                                                                                       | All-Aluminum Plate Fin                                                                                                                                       |
| Refrigerant Type                                                | R-454B                                                                                                                                                       | R-454B                                                                                                                                                       | R-454B                                                                                                                                                       |
| Refrigerant Control                                             | TXV                                                                                                                                                          | TXV                                                                                                                                                          | TXV                                                                                                                                                          |
| Refrigerant Line Connection - Gas (in.)                         | 3/4                                                                                                                                                          | 3/4                                                                                                                                                          | 7/8                                                                                                                                                          |
| Refrigerant Line Connection - Liquid (in.)                      | 3/8                                                                                                                                                          | 3/8                                                                                                                                                          | 3/8                                                                                                                                                          |
| <b>BLOWER TYPE</b>                                              | Direct Drive Centrifugal                                                                                                                                     | Direct Drive Centrifugal                                                                                                                                     | Direct Drive Centrifugal                                                                                                                                     |
| Configuration                                                   | Draw Through                                                                                                                                                 | Draw Through                                                                                                                                                 | Draw Through                                                                                                                                                 |
| Dimensions (Diameter x Width (in.))                             | 11 x 8                                                                                                                                                       | 11 x 8                                                                                                                                                       | 11 x 8                                                                                                                                                       |
| Motor Type                                                      | Variable Speed                                                                                                                                               | Variable Speed                                                                                                                                               | Variable Speed                                                                                                                                               |
| Nominal CFM <sup>(b)</sup>                                      | 800                                                                                                                                                          | 1000                                                                                                                                                         | 1200                                                                                                                                                         |
| Speed (RPM)                                                     | 1050                                                                                                                                                         | 1050                                                                                                                                                         | 1050                                                                                                                                                         |
| Volts/Ph/Hz                                                     | 208-230/1/60                                                                                                                                                 | 208-230/1/60                                                                                                                                                 | 208-230/1/60                                                                                                                                                 |
| Full Load Amps                                                  | 2.6                                                                                                                                                          | 3.9                                                                                                                                                          | 3.9                                                                                                                                                          |
| <b>FILTER RACK (YES, NO)</b>                                    | No                                                                                                                                                           | No                                                                                                                                                           | No                                                                                                                                                           |
| Dimensions (Length x Width (in.))                               | n/a                                                                                                                                                          | n/a                                                                                                                                                          | n/a                                                                                                                                                          |
| <b>DUCT CONNECTIONS</b>                                         | L x W                                                                                                                                                        | L x W                                                                                                                                                        | L x W                                                                                                                                                        |
| Supply (in.)                                                    | 12.15 x 16.50                                                                                                                                                | 12.15 x 16.50                                                                                                                                                | 12.15 x 21.50                                                                                                                                                |
| Return (in.)                                                    | 18.75 x 16.75                                                                                                                                                | 18.75 x 16.75                                                                                                                                                | 18.75 x 21.75                                                                                                                                                |
| <b>DRAIN CONN. SIZE (IN.)</b>                                   | 3/4 NPT                                                                                                                                                      | 3/4 NPT                                                                                                                                                      | 3/4 NPT                                                                                                                                                      |
| <b>DIMENSIONS</b>                                               | H x W x D                                                                                                                                                    | H x W x D                                                                                                                                                    | H x W x D                                                                                                                                                    |
| Uncrated (in.)                                                  | 46-3/4 x 18-1/2 x 21-1/8                                                                                                                                     | 46-3/4 x 18-1/2 x 21-1/8                                                                                                                                     | 51-3/8 x 23-1/2 x 21-1/8                                                                                                                                     |
| Crated (in.)                                                    | 48-1/4 x 22-1/2 x 25-1/2                                                                                                                                     | 48-1/4 x 22-1/2 x 25-1/2                                                                                                                                     | 52-3/4 x 27-1/2 x 25-1/2                                                                                                                                     |
| <b>WEIGHT - SHIPPING/NET (LBS.)</b>                             | 126/117                                                                                                                                                      | 126/117                                                                                                                                                      | 155/144                                                                                                                                                      |

<sup>(a)</sup> Maximum overcurrent protection is dependent on which electric heater is installed. See Installation, Operation, and Maintenance manual or unit name plate.

<sup>(b)</sup> For CFM versus external static pressure (in. w.c.), refer to Installation, Operation, and Maintenance manual.



## Product Specifications

| MODEL                                                        | STEMCD05AV41DA                                                                                                                                               | STEMCD06AV41DA                                                                                                                                               | STEMCD07AV51DA                                                                                                                                               |
|--------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Family Description                                           | R-454B Variable Speed Air Handler                                                                                                                            | R-454B Variable Speed Air Handler                                                                                                                            | R-454B Variable Speed Air Handler                                                                                                                            |
| Description                                                  | R-454B Variable Speed Air Handler, All-Aluminum Plate Fin Coil, 4-Way Poise, Link Communicating or 24V System Control, 208-230/1/60, 36K - 60K BTUH Capacity | R-454B Variable Speed Air Handler, All-Aluminum Plate Fin Coil, 4-Way Poise, Link Communicating or 24V System Control, 208-230/1/60, 36K - 60K BTUH Capacity | R-454B Variable Speed Air Handler, All-Aluminum Plate Fin Coil, 4-Way Poise, Link Communicating or 24V System Control, 208-230/1/60, 42K - 60K BTUH Capacity |
| Application Configuration                                    | 4-Way                                                                                                                                                        | 4-Way                                                                                                                                                        | 4-Way                                                                                                                                                        |
| <b>RATED CAPACITY RANGE (BTUH)</b>                           | 36K - 48K                                                                                                                                                    | 36K - 60K                                                                                                                                                    | 42K - 60K                                                                                                                                                    |
| <b>SYSTEM CONTROL TYPE</b>                                   | Link Communicating or 24V                                                                                                                                    | Link Communicating or 24V                                                                                                                                    | Link Communicating or 24V                                                                                                                                    |
| <b>POWER CONN. - V/PH/HZ</b>                                 | 208-230/1/60                                                                                                                                                 | 208-230/1/60                                                                                                                                                 | 208-230/1/60                                                                                                                                                 |
| Max Breaker Size, Without Electric Heater (Amps)             | 15                                                                                                                                                           | 15                                                                                                                                                           | 15                                                                                                                                                           |
| Max Breaker Size, With Electric Heater (Amps) <sup>(a)</sup> | 60                                                                                                                                                           | 60                                                                                                                                                           | 60                                                                                                                                                           |
| Name Plate                                                   | See Unit Nameplate                                                                                                                                           | See Unit Nameplate                                                                                                                                           | See Unit Nameplate                                                                                                                                           |
| <b>COIL TYPE</b>                                             | All-Aluminum Plate Fin                                                                                                                                       | All-Aluminum Plate Fin                                                                                                                                       | All-Aluminum Plate Fin                                                                                                                                       |
| Refrigerant Type                                             | R-454B                                                                                                                                                       | R-454B                                                                                                                                                       | R-454B                                                                                                                                                       |
| Refrigerant Control                                          | TXV                                                                                                                                                          | TXV                                                                                                                                                          | TXV                                                                                                                                                          |
| Refrigerant Line Connection - Gas (in.)                      | 7/8                                                                                                                                                          | 7/8                                                                                                                                                          | 7/8                                                                                                                                                          |
| Refrigerant Line Connection - Liquid (in.)                   | 3/8                                                                                                                                                          | 3/8                                                                                                                                                          | 3/8                                                                                                                                                          |
| <b>BLOWER TYPE</b>                                           | Direct Drive Centrifugal                                                                                                                                     | Direct Drive Centrifugal                                                                                                                                     | Direct Drive Centrifugal                                                                                                                                     |
| Configuration                                                | Draw Through                                                                                                                                                 | Draw Through                                                                                                                                                 | Draw Through                                                                                                                                                 |
| Dimensions (Diameter x Width (in.))                          | 11 x 8                                                                                                                                                       | 11 x 8                                                                                                                                                       | 11 x 8                                                                                                                                                       |
| Motor Type                                                   | Variable Speed                                                                                                                                               | Variable Speed                                                                                                                                               | Variable Speed                                                                                                                                               |
| Nominal CFM <sup>(b)</sup>                                   | 1400                                                                                                                                                         | 1600                                                                                                                                                         | 2000                                                                                                                                                         |
| Speed (RPM)                                                  | 1050                                                                                                                                                         | 1050                                                                                                                                                         | 1050                                                                                                                                                         |
| Volts/Ph/Hz                                                  | 208-230/1/60                                                                                                                                                 | 208-230/1/60                                                                                                                                                 | 208-230/1/60                                                                                                                                                 |
| Full Load Amps                                               | 3.9                                                                                                                                                          | 6.0                                                                                                                                                          | 6.0                                                                                                                                                          |
| <b>FILTER RACK (YES, NO)</b>                                 | No                                                                                                                                                           | No                                                                                                                                                           | No                                                                                                                                                           |
| Dimensions (Length x Width (in.))                            | n/a                                                                                                                                                          | n/a                                                                                                                                                          | n/a                                                                                                                                                          |
| <b>DUCT CONNECTIONS</b>                                      | L x W                                                                                                                                                        | L x W                                                                                                                                                        | L x W                                                                                                                                                        |
| Supply (in.)                                                 | 12.15 x 21.50                                                                                                                                                | 12.15 x 21.50                                                                                                                                                | 12.15 x 21.50                                                                                                                                                |
| Return (in.)                                                 | 18.75 x 21.75                                                                                                                                                | 18.75 x 21.75                                                                                                                                                | 18.75 x 21.75                                                                                                                                                |
| <b>DRAIN CONN. SIZE (IN.)</b>                                | 3/4 NPT                                                                                                                                                      | 3/4 NPT                                                                                                                                                      | 3/4 NPT                                                                                                                                                      |
| <b>DIMENSIONS</b>                                            | H x W x D                                                                                                                                                    | H x W x D                                                                                                                                                    | H x W x D                                                                                                                                                    |
| Uncrated (in.)                                               | 51-3/8 x 23-1/2 x 21-1/8                                                                                                                                     | 57-3/8 x 23-1/2 x 21-1/8                                                                                                                                     | 57-3/8 x 23-1/2 x 21-1/8                                                                                                                                     |
| Crated (in.)                                                 | 52-3/4 x 27-1/2 x 25-1/2                                                                                                                                     | 58-1/8 x 25-7/8 x 25-1/2                                                                                                                                     | 58-1/8 x 25-7/8 x 25-1/2                                                                                                                                     |
| <b>WEIGHT - SHIPPING/NET (LBS.)</b>                          | 155/144                                                                                                                                                      | 185/174                                                                                                                                                      | 185/174                                                                                                                                                      |

<sup>(a)</sup> Maximum overcurrent protection is dependent on which electric heater is installed. See Installation, Operation, and Maintenance manual or unit name plate.

<sup>(b)</sup> For CFM versus external static pressure (in. w.c.), refer to Installation, Operation, and Maintenance manual.



# Heater Pressure Drop Table

| Airflow<br>CFM | Number of Racks                 |      |      |      |  | Heater Racks |              |
|----------------|---------------------------------|------|------|------|--|--------------|--------------|
|                | 1                               | 2    | 3    | 4    |  | Heater Model | No. of Racks |
|                | Air Pressure Drop — Inches W.G. |      |      |      |  |              |              |
| 1800           | 0.02                            | 0.04 | 0.06 | 0.14 |  | BAYHTR1504   | 1            |
| 1700           | 0.02                            | 0.04 | 0.06 | 0.14 |  | BAYHTR1505   | 1            |
| 1600           | 0.02                            | 0.04 | 0.06 | 0.13 |  | BAYHTR1508   | 2            |
| 1500           | 0.02                            | 0.04 | 0.06 | 0.12 |  | BAYHTR1510   | 2            |
| 1400           | 0.02                            | 0.04 | 0.06 | 0.12 |  | BAYHTR1517   | 3            |
| 1300           | 0.02                            | 0.04 | 0.05 | 0.11 |  | BAYHTR3510   | 3            |
| 1200           | 0.01                            | 0.04 | 0.05 | 0.10 |  | BAYHTR3517   | 3            |
| 1100           | 0.01                            | 0.03 | 0.05 | 0.09 |  | BAYHTR1523   | 4            |
| 1000           | 0.01                            | 0.03 | 0.04 | 0.09 |  | BAYHTR1525   | 4            |
| 900            | 0.01                            | 0.03 |      | 0.08 |  |              |              |
| 800            | 0.01                            | 0.03 |      |      |  |              |              |
| 700            | 0.01                            | 0.02 |      |      |  |              |              |
| 600            | 0.01                            | 0.02 |      |      |  |              |              |

# Performance Data

| 5STEMCB02AV21DA AIRFLOW PERFORMANCE CONSTANT CFM MODE / CONSTANT TORQUE MODE |                         |                                         |                                                           |                        |                        |                        |                        |                         |                            |                          |            |            |            |
|------------------------------------------------------------------------------|-------------------------|-----------------------------------------|-----------------------------------------------------------|------------------------|------------------------|------------------------|------------------------|-------------------------|----------------------------|--------------------------|------------|------------|------------|
| OUTDOOR MULTIPLIER (TONS)                                                    | COOLING AIRFLOW SETTING | AIRFLOW POWER                           | EXTERNAL STATIC PRESSURE (Constant CFM / Constant Torque) |                        |                        |                        |                        | HEATING AIRFLOW SETTING | AIRFLOW POWER              | EXTERNAL STATIC PRESSURE |            |            |            |
|                                                                              |                         |                                         | 0.1                                                       | 0.3                    | 0.5                    | 0.7                    | 0.9                    |                         |                            | 0.1                      | 0.3        | 0.5        | 0.7        |
| 1.5 tons                                                                     | 290 CFM/ton             | CFM<br>430 / 538<br>Watts<br>50 / 39    | 430 / 415<br>75 / 48                                      | 430 / 264<br>95 / 43   | 430 / NA<br>145 / NA   | 430 / NA<br>145 / NA   | 430 / NA<br>145 / NA   | 290 CFM/ton             | CFM<br>434<br>Watts<br>34  | 434<br>64                | 419<br>96  | 419<br>130 | 403<br>167 |
|                                                                              | 350 CFM/ton             | CFM<br>520 / 620<br>Watts<br>60 / 53    | 520 / 514<br>90 / 64                                      | 520 / 398<br>120 / 61  | 520 / NA<br>135 / NA   | 510 / NA<br>175 / NA   | 510 / NA<br>175 / NA   | 350 CFM/ton             | CFM<br>521<br>Watts<br>44  | 521<br>77                | 512<br>112 | 514<br>153 | 485<br>196 |
|                                                                              | 400 CFM/ton             | CFM<br>590 / 688<br>Watts<br>75 / 67    | 590 / 593<br>105 / 80                                     | 590 / 493<br>140 / 80  | 590 / NA<br>205 / NA   | 590 / NA<br>205 / NA   | 590 / NA<br>205 / NA   | 400 CFM/ton             | CFM<br>595<br>Watts<br>56  | 595<br>91                | 589<br>127 | 595<br>173 | 573<br>222 |
|                                                                              | 450 CFM/ton             | CFM<br>670 / 758<br>Watts<br>85 / 85    | 670 / 671<br>125 / 100                                    | 660 / 581<br>160 / 102 | 660 / NA<br>235 / NA   | 660 / NA<br>235 / NA   | 660 / NA<br>235 / NA   | 450 CFM/ton             | CFM<br>668<br>Watts<br>71  | 668<br>107               | 667<br>145 | 675<br>196 | 660<br>250 |
|                                                                              | 290 CFM/ton             | CFM<br>570 / 670<br>Watts<br>60 / 63    | 570 / 573<br>90 / 76                                      | 570 / 469<br>125 / 75  | 570 / NA<br>165 / NA   | 568 / NA<br>215 / NA   | 568 / NA<br>215 / NA   | 290 CFM/ton             | CFM<br>575<br>Watts<br>53  | 575<br>87                | 569<br>123 | 573<br>167 | 549<br>215 |
| 2 tons                                                                       | 350 CFM/ton             | CFM<br>690 / 781<br>Watts<br>85 / 91    | 690 / 696<br>120 / 107                                    | 690 / 609<br>160 / 110 | 690 / 518<br>210 / 98  | 680 / NA<br>259 / NA   | 680 / NA<br>259 / NA   | 350 CFM/ton             | CFM<br>693<br>Watts<br>76  | 693<br>113               | 693<br>152 | 702<br>204 | 689<br>259 |
|                                                                              | 400 CFM/ton             | CFM<br>790 / 875<br>Watts<br>110 / 122  | 790 / 798<br>150 / 140                                    | 790 / 720<br>195 / 145 | 780 / 639<br>250 / 137 | 780 / 555<br>301 / 115 | 780 / 555<br>301 / 115 | 400 CFM/ton             | CFM<br>791<br>Watts<br>103 | 791<br>143               | 795<br>184 | 805<br>240 | 798<br>301 |
|                                                                              | 450 CFM/ton             | CFM<br>890 / 971<br>Watts<br>145 / 161  | 890 / 899<br>185 / 181                                    | 880 / 827<br>235 / 189 | 880 / 754<br>295 / 184 | 880 / 680<br>347 / 184 | 880 / 680<br>347 / 184 | 450 CFM/ton             | CFM<br>889<br>Watts<br>138 | 889<br>181               | 895<br>226 | 902<br>284 | 891<br>347 |
|                                                                              | 290 CFM/ton             | CFM<br>720 / 823<br>Watts<br>90 / 104   | 720 / 741<br>140 / 120                                    | 710 / 659<br>170 / 124 | 710 / 573<br>220 / 115 | 710 / 481<br>260 / 91  | 710 / 481<br>260 / 91  | 290 CFM/ton             | CFM<br>717<br>Watts<br>82  | 717<br>120               | 718<br>159 | 728<br>212 | 717<br>269 |
|                                                                              | 350 CFM/ton             | CFM<br>870 / 963<br>Watts<br>140 / 157  | 860 / 892<br>182 / 177                                    | 873 / 819<br>235 / 185 | 860 / 746<br>280 / 180 | 850 / 671<br>330 / 161 | 850 / 671<br>330 / 161 | 350 CFM/ton             | CFM<br>865<br>Watts<br>128 | 865<br>170               | 871<br>214 | 879<br>272 | 869<br>335 |
| 2.5 tons †                                                                   | 390 † CFM/ton           | CFM<br>958 / 1075<br>Watts<br>147 / 170 | 975 / 1000<br>203 / 195                                   | 946 / 878<br>269 / 211 | 871 / 711<br>342 / 197 | 802 / 617<br>403 / 189 | 802 / 617<br>403 / 189 | 390 † CFM/ton           | CFM<br>958<br>Watts<br>138 | 958<br>192               | 979<br>257 | 957<br>336 | 822<br>406 |
|                                                                              | 400 CFM/ton             | CFM<br>980 / 1100<br>Watts<br>157 / 181 | 993 / 1019<br>213 / 205                                   | 958 / 889<br>280 / 219 | 875 / 714<br>357 / 205 | 801 / 616<br>418 / 196 | 801 / 616<br>418 / 196 | 400 CFM/ton             | CFM<br>980<br>Watts<br>146 | 980<br>202               | 998<br>268 | 969<br>351 | 821<br>422 |
|                                                                              | 450 CFM/ton             | CFM<br>980 / 1100<br>Watts<br>157 / 181 | 993 / 1019<br>213 / 205                                   | 958 / 889<br>280 / 219 | 875 / 714<br>357 / 205 | 801 / 616<br>418 / 196 | 801 / 616<br>418 / 196 | 450 CFM/ton             | CFM<br>980<br>Watts<br>146 | 980<br>202               | 998<br>268 | 969<br>351 | 821<br>422 |
|                                                                              | 450 CFM/ton             | CFM<br>980 / 1100<br>Watts<br>157 / 181 | 993 / 1019<br>213 / 205                                   | 958 / 889<br>280 / 219 | 875 / 714<br>357 / 205 | 801 / 616<br>418 / 196 | 801 / 616<br>418 / 196 | 450 CFM/ton             | CFM<br>980<br>Watts<br>146 | 980<br>202               | 998<br>268 | 969<br>351 | 821<br>422 |

- † Factory Setting
- Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.
- Torque mode will reduce airflow when static is above approximately 0.3" water column.
- All heating modes default to Constant CFM.
- Cooling airflow values are with wet coil, no filter



# Performance Data

| 5TEMCB03AV31DA AIRFLOW PERFORMANCE |                         |               |                                                           |           |          |          |          |                         |               |                          |      |      |      | CONSTANT CFM MODE / CONSTANT TORQUE MODE |  |  |  |  |  |
|------------------------------------|-------------------------|---------------|-----------------------------------------------------------|-----------|----------|----------|----------|-------------------------|---------------|--------------------------|------|------|------|------------------------------------------|--|--|--|--|--|
| OUTDOOR MULTIPLIER (TONS)          | COOLING AIRFLOW SETTING | AIRFLOW POWER | EXTERNAL STATIC PRESSURE (Constant CFM / Constant Torque) |           |          |          |          | HEATING AIRFLOW SETTING | AIRFLOW POWER | EXTERNAL STATIC PRESSURE |      |      |      |                                          |  |  |  |  |  |
|                                    |                         |               | 0.1                                                       | 0.3       | 0.5      | 0.7      | 0.9      |                         |               | 0.1                      | 0.3  | 0.5  | 0.7  | 0.9                                      |  |  |  |  |  |
| 1.5 tons                           | 290                     | CFM           | 430/538                                                   | 430/415   | 430/264  | 430/NA   | 430/NA   | 290                     | CFM           | 434                      | 419  | 419  | 403  | 384                                      |  |  |  |  |  |
|                                    | CFM/ton                 | Watts         | 50/39                                                     | 75/48     | 95/43    | 110/NA   | 145/NA   | CFM/ton                 | Watts         | 34                       | 64   | 96   | 130  | 167                                      |  |  |  |  |  |
|                                    | 350                     | CFM           | 520/620                                                   | 520/514   | 520/398  | 520/NA   | 510/NA   | 350                     | CFM           | 521                      | 512  | 514  | 500  | 485                                      |  |  |  |  |  |
|                                    | CFM/ton                 | Watts         | 60/53                                                     | 90/64     | 120/61   | 135/NA   | 175/NA   | CFM/ton                 | Watts         | 44                       | 77   | 112  | 153  | 196                                      |  |  |  |  |  |
|                                    | 400                     | CFM           | 590/688                                                   | 590/593   | 590/493  | 590/NA   | 590/NA   | 400                     | CFM           | 595                      | 589  | 595  | 584  | 573                                      |  |  |  |  |  |
|                                    | CFM/ton                 | Watts         | 75/67                                                     | 105/80    | 140/80   | 160/NA   | 205/NA   | CFM/ton                 | Watts         | 56                       | 91   | 127  | 173  | 222                                      |  |  |  |  |  |
| 2 tons                             | 450                     | CFM           | 670/758                                                   | 670/671   | 660/581  | 660/NA   | 660/NA   | 450                     | CFM           | 668                      | 667  | 675  | 668  | 660                                      |  |  |  |  |  |
|                                    | CFM/ton                 | Watts         | 85/85                                                     | 125/100   | 160/102  | 190/NA   | 235/NA   | CFM/ton                 | Watts         | 71                       | 107  | 145  | 196  | 250                                      |  |  |  |  |  |
|                                    | 290                     | CFM           | 570/670                                                   | 570/573   | 570/469  | 570/NA   | 568/NA   | 290                     | CFM           | 575                      | 569  | 573  | 561  | 549                                      |  |  |  |  |  |
|                                    | CFM/ton                 | Watts         | 60/63                                                     | 90/76     | 125/75   | 165/NA   | 215/NA   | CFM/ton                 | Watts         | 53                       | 87   | 123  | 167  | 215                                      |  |  |  |  |  |
|                                    | 350                     | CFM           | 690/781                                                   | 690/696   | 690/609  | 690/518  | 680/NA   | 350                     | CFM           | 693                      | 693  | 702  | 696  | 689                                      |  |  |  |  |  |
|                                    | CFM/ton                 | Watts         | 85/91                                                     | 120/107   | 160/110  | 210/98   | 259/NA   | CFM/ton                 | Watts         | 76                       | 113  | 152  | 204  | 259                                      |  |  |  |  |  |
| 2.5 tons                           | 400                     | CFM           | 790/875                                                   | 790/798   | 790/720  | 780/639  | 780/555  | 400                     | CFM           | 791                      | 795  | 805  | 803  | 798                                      |  |  |  |  |  |
|                                    | CFM/ton                 | Watts         | 110/122                                                   | 150/140   | 195/145  | 250/137  | 301/115  | CFM/ton                 | Watts         | 103                      | 143  | 184  | 240  | 301                                      |  |  |  |  |  |
|                                    | 450                     | CFM           | 890/971                                                   | 890/899   | 880/827  | 880/754  | 880/680  | 450                     | CFM           | 889                      | 895  | 902  | 899  | 891                                      |  |  |  |  |  |
|                                    | CFM/ton                 | Watts         | 145/161                                                   | 185/181   | 235/189  | 295/184  | 347/184  | CFM/ton                 | Watts         | 138                      | 181  | 226  | 284  | 347                                      |  |  |  |  |  |
|                                    | 290                     | CFM           | 720/823                                                   | 720/741   | 710/659  | 710/573  | 710/481  | 290                     | CFM           | 717                      | 718  | 728  | 723  | 717                                      |  |  |  |  |  |
|                                    | CFM/ton                 | Watts         | 90/104                                                    | 140/120   | 170/124  | 220/115  | 260/91   | CFM/ton                 | Watts         | 82                       | 120  | 159  | 212  | 269                                      |  |  |  |  |  |
| 2.5 tons                           | 350                     | CFM           | 870/963                                                   | 860/892   | 873/819  | 860/746  | 850/671  | 350                     | CFM           | 865                      | 871  | 879  | 876  | 869                                      |  |  |  |  |  |
|                                    | CFM/ton                 | Watts         | 140/157                                                   | 182/177   | 235/185  | 280/180  | 330/161  | CFM/ton                 | Watts         | 128                      | 170  | 214  | 272  | 335                                      |  |  |  |  |  |
|                                    | 390                     | CFM           | 969/1087                                                  | 985/1011  | 993/921  | 992/809  | 1000/770 | 390                     | CFM           | 969                      | 989  | 1004 | 999  | 1026                                     |  |  |  |  |  |
|                                    | CFM/ton                 | Watts         | 143/166                                                   | 198/191   | 262/205  | 329/189  | 399/187  | CFM/ton                 | Watts         | 134                      | 188  | 250  | 323  | 402                                      |  |  |  |  |  |
|                                    | 400                     | CFM           | 993/1114                                                  | 1008/1035 | 1017/943 | 1015/828 | 1022/787 | 400                     | CFM           | 993                      | 1013 | 1028 | 1023 | 1049                                     |  |  |  |  |  |
|                                    | CFM/ton                 | Watts         | 152/176                                                   | 208/200   | 273/214  | 341/196  | 413/194  | CFM/ton                 | Watts         | 142                      | 197  | 261  | 335  | 416                                      |  |  |  |  |  |
| 3 tons †                           | 450                     | CFM           | 993/1114                                                  | 1008/1035 | 1017/943 | 1015/828 | 1022/787 | 450                     | CFM           | 993                      | 1013 | 1028 | 1023 | 1049                                     |  |  |  |  |  |
|                                    | CFM/ton                 | Watts         | 152/176                                                   | 208/200   | 273/214  | 341/196  | 413/194  | CFM/ton                 | Watts         | 142                      | 197  | 261  | 335  | 416                                      |  |  |  |  |  |
|                                    | 290                     | CFM           | 868/974                                                   | 884/907   | 891/826  | 893/729  | 894/688  | 290                     | CFM           | 868                      | 888  | 901  | 900  | 917                                      |  |  |  |  |  |
|                                    | CFM/ton                 | Watts         | 111/128                                                   | 163/156   | 220/173  | 281/162  | 345/162  | CFM/ton                 | Watts         | 103                      | 154  | 211  | 277  | 347                                      |  |  |  |  |  |
|                                    | 350                     | CFM           | 993/1114                                                  | 1008/1035 | 1017/943 | 1015/828 | 1022/787 | 350                     | CFM           | 993                      | 1013 | 1028 | 1023 | 1049                                     |  |  |  |  |  |
|                                    | CFM/ton                 | Watts         | 152/176                                                   | 208/200   | 273/214  | 341/196  | 413/194  | CFM/ton                 | Watts         | 142                      | 197  | 261  | 335  | 416                                      |  |  |  |  |  |
| 3 tons †                           | 390 †                   | CFM           | 993/1114                                                  | 1008/1035 | 1017/943 | 1015/828 | 1022/787 | 390 †                   | CFM           | 993                      | 1013 | 1028 | 1023 | 1049                                     |  |  |  |  |  |
|                                    | CFM/ton                 | Watts         | 152/176                                                   | 208/200   | 273/214  | 341/196  | 413/194  | CFM/ton                 | Watts         | 142                      | 197  | 261  | 335  | 416                                      |  |  |  |  |  |
|                                    | 400                     | CFM           | 993/1114                                                  | 1008/1035 | 1017/943 | 1015/828 | 1022/787 | 400                     | CFM           | 993                      | 1013 | 1028 | 1023 | 1049                                     |  |  |  |  |  |
|                                    | CFM/ton                 | Watts         | 152/176                                                   | 208/200   | 273/214  | 341/196  | 413/194  | CFM/ton                 | Watts         | 142                      | 197  | 261  | 335  | 416                                      |  |  |  |  |  |
|                                    | 450                     | CFM           | 993/1114                                                  | 1008/1035 | 1017/943 | 1015/828 | 1022/787 | 450                     | CFM           | 993                      | 1013 | 1028 | 1023 | 1049                                     |  |  |  |  |  |
|                                    | CFM/ton                 | Watts         | 152/176                                                   | 208/200   | 273/214  | 341/196  | 413/194  | CFM/ton                 | Watts         | 142                      | 197  | 261  | 335  | 416                                      |  |  |  |  |  |
| † Factory Setting                  |                         |               |                                                           |           |          |          |          |                         |               |                          |      |      |      |                                          |  |  |  |  |  |
|                                    |                         |               |                                                           |           |          |          |          |                         |               |                          |      |      |      |                                          |  |  |  |  |  |
|                                    |                         |               |                                                           |           |          |          |          |                         |               |                          |      |      |      |                                          |  |  |  |  |  |
|                                    |                         |               |                                                           |           |          |          |          |                         |               |                          |      |      |      |                                          |  |  |  |  |  |

- † Factory Setting
- Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.
- In horizontal and downflow applications, airflow should be limited to 1000 CFM due to condensate blowoff
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- Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.
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| 5STEMCD04AV31DA & 5STEMCD05AV41DA AIRFLOW PERFORMANCE                                                          |                         |               |                                                           |           |           |           |           |                         |               |                          |      |      |      | CONSTANT CFM MODE / CONSTANT TORQUE MODE                                                |  |  |  |  |  |  |  |  |  |  |  |  |  |
|----------------------------------------------------------------------------------------------------------------|-------------------------|---------------|-----------------------------------------------------------|-----------|-----------|-----------|-----------|-------------------------|---------------|--------------------------|------|------|------|-----------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| OUTDOOR MULTIPLIER (TONS)                                                                                      | COOLING AIRFLOW SETTING | AIRFLOW POWER | EXTERNAL STATIC PRESSURE (Constant CFM / Constant Torque) |           |           |           |           | HEATING AIRFLOW SETTING | AIRFLOW POWER | EXTERNAL STATIC PRESSURE |      |      |      |                                                                                         |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                |                         |               | 0.1                                                       | 0.3       | 0.5       | 0.7       | 0.9       |                         |               | 0.1                      | 0.3  | 0.5  | 0.7  | 0.9                                                                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2.5 tons                                                                                                       | 290                     | CFM           | 735/837                                                   | 727/702   | 700/593   | 673/415   | 660/415   | 290                     | CFM           | 735                      | 727  | 700  | 673  | 660                                                                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                |                         | Watts         | 59/72                                                     | 96/90     | 138/105   | 176/123   | 215/148   |                         | Watts         | 59                       | 96   | 138  | 176  | 215                                                                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                | 350                     | CFM           | 883/972                                                   | 884/849   | 882/746   | 881/657   | 870/577   | 350                     | CFM           | 883                      | 884  | 882  | 881  | 870                                                                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                |                         | Watts         | 82/103                                                    | 124/123   | 170/138   | 223/152   | 270/168   |                         | Watts         | 82                       | 124  | 170  | 223  | 270                                                                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                | 400                     | CFM           | 1007/1084                                                 | 1016/971  | 1033/874  | 1020/788  | 1010/711  | 400                     | CFM           | 1007                     | 1016 | 1033 | 1020 | 1010                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3 tons                                                                                                         |                         | Watts         | 109/136                                                   | 154/158   | 204/174   | 269/187   | 320/200   |                         | Watts         | 109                      | 154  | 204  | 269  | 320                                                                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                | 450                     | CFM           | 1133/1198                                                 | 1146/1093 | 1176/1001 | 1140/919  | 1130/845  | 450                     | CFM           | 1133                     | 1146 | 1176 | 1140 | 1130                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                |                         | Watts         | 143/177                                                   | 192/202   | 246/220   | 321/233   | 375/244   |                         | Watts         | 143                      | 192  | 246  | 321  | 375                                                                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                | 290                     | CFM           | 878/993                                                   | 879/872   | 876/771   | 874/682   | 865/602   | 290                     | CFM           | 878                      | 879  | 876  | 874  | 865                                                                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                |                         | Watts         | 82/108                                                    | 123/129   | 169/144   | 221/157   | 270/173   |                         | Watts         | 82                       | 123  | 169  | 221  | 270                                                                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3.5 tons                                                                                                       | 350                     | CFM           | 1057/1154                                                 | 1068/1045 | 1091/952  | 1070/869  | 1060/793  | 350                     | CFM           | 1057                     | 1068 | 1091 | 1070 | 1060                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                |                         | Watts         | 122/160                                                   | 168/184   | 220/201   | 289/213   | 340/225   |                         | Watts         | 122                      | 168  | 220  | 289  | 340                                                                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                | 400                     | CFM           | 1209/1289                                                 | 1223/1190 | 1255/1102 | 1210/1024 | 1190/952  | 400                     | CFM           | 1209                     | 1223 | 1255 | 1210 | 1190                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                |                         | Watts         | 168/216                                                   | 219/243   | 277/262   | 355/276   | 410/287   |                         | Watts         | 168                      | 219  | 277  | 355  | 410                                                                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                | 450                     | CFM           | 1364/1426                                                 | 1375/1334 | 1393/1253 | 1340/1179 | 1330/1110 | 450                     | CFM           | 1364                     | 1375 | 1393 | 1340 | 1330                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3.5 tons                                                                                                       |                         | Watts         | 230/287                                                   | 286/317   | 350/339   | 429/355   | 480/367   |                         | Watts         | 230                      | 286  | 350  | 429  | 480                                                                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                | 290                     | CFM           | 1022/1123                                                 | 1031/1012 | 1050/917  | 1030/832  | 1030/756  | 290                     | CFM           | 1022                     | 1031 | 1050 | 1030 | 1030                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                |                         | Watts         | 113/148                                                   | 158/172   | 209/188   | 275/201   | 325/213   |                         | Watts         | 113                      | 158  | 209  | 275  | 325                                                                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                | 350                     | CFM           | 1235/1312                                                 | 1249/1214 | 1242/1128 | 1230/1050 | 1220/978  | 350                     | CFM           | 1235                     | 1249 | 1242 | 1230 | 1220                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                |                         | Watts         | 178/227                                                   | 229/254   | 288/274   | 367/288   | 420/299   |                         | Watts         | 178                      | 229  | 288  | 367  | 420                                                                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3.5 tons                                                                                                       | 400                     | CFM           | 1416/1471                                                 | 1424/1383 | 1399/1303 | 1380/1230 | 1370/1163 | 400                     | CFM           | 1416                     | 1424 | 1399 | 1303 | 1370                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                |                         | Watts         | 254/314                                                   | 313/263   | 378/368   | 455/385   | 510/398   |                         | Watts         | 254                      | 313  | 378  | 455  | 510                                                                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                | 450                     | CFM           | 1601/1618                                                 | 1591/1536 | 1547/1462 | 1500/1394 | 1390/1330 | 450                     | CFM           | 1601                     | 1591 | 1547 | 1500 | 1390                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                |                         | Watts         | 356/420                                                   | 423/454   | 497/480   | 553/500   | 520/514   |                         | Watts         | 356                      | 423  | 497  | 553  | 520                                                                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                | 290                     | CFM           | 1168/1276                                                 | 1182/1175 | 1182/1087 | 1170/1007 | 1160/935  | 290                     | CFM           | 1168                     | 1182 | 1182 | 1170 | 1160                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 tons †                                                                                                       |                         | Watts         | 155/209                                                   | 204/235   | 260/254   | 337/268   | 390/279   |                         | Watts         | 155                      | 204  | 260  | 337  | 390                                                                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                | 350 †                   | CFM           | 1416/1492                                                 | 1424/1404 | 1399/1325 | 1380/1252 | 1370/1185 | 350 †                   | CFM           | 1416                     | 1424 | 1399 | 1380 | 1370                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                |                         | Watts         | 254/326                                                   | 313/357   | 378/381   | 455/398   | 510/411   |                         | Watts         | 254                      | 313  | 378  | 455  | 510                                                                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                | 400                     | CFM           | 1628/1616                                                 | 1614/1535 | 1534/1461 | 1500/1393 | 1390/1329 | 400                     | CFM           | 1628                     | 1614 | 1534 | 1500 | 1390                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                |                         | Watts         | 373/435                                                   | 441/468   | 517/492   | 568/510   | 520/524   |                         | Watts         | 373                      | 441  | 517  | 568  | 520                                                                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4 tons †                                                                                                       | 450                     | CFM           | 1714/1605                                                 | 1686/1525 | 1550/1452 | 1500/1385 | 1390/1321 | 450                     | CFM           | 1714                     | 1686 | 1550 | 1500 | 1390                                                                                    |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                                                                                                                |                         | Watts         | 431/435                                                   | 505/468   | 584/492   | 617/510   | 520/570   |                         | Watts         | 431                      | 505  | 584  | 617  | 520                                                                                     |  |  |  |  |  |  |  |  |  |  |  |  |  |
| † Factory Setting                                                                                              |                         |               |                                                           |           |           |           |           |                         |               |                          |      |      |      | • Torque mode will reduce airflow when static is above approximately 0.3" water column. |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.                 |                         |               |                                                           |           |           |           |           |                         |               |                          |      |      |      | • All heating modes default to Constant CFM.                                            |  |  |  |  |  |  |  |  |  |  |  |  |  |
| In horizontal and downflow applications, airflow should be limited to 1700 CFM due to secondary static losses. |                         |               |                                                           |           |           |           |           |                         |               |                          |      |      |      | • Cooling airflow values are with wet coil, no filter                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |

- † Factory Setting
- Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.
- In horizontal and downflow applications, airflow should be limited to 1700 CFM due to condensate blowoff.
- Torque mode will reduce airflow when static is above approximately 0.3" water column.
- All heating modes default to Constant CFM.
- Cooling airflow values are with wet coil, no filter

| 5STEMCD06AV41DA & 5STEMCD07AV51DA AIRFLOW PERFORMANCE                                                    |                         |               |                                                           |           |           |           |           |                         |               |                          |      |      |      |      |  |  | CONSTANT CFM MODE / CONSTANT TORQUE MODE                                              |  |  |  |  |  |  |  |  |  |
|----------------------------------------------------------------------------------------------------------|-------------------------|---------------|-----------------------------------------------------------|-----------|-----------|-----------|-----------|-------------------------|---------------|--------------------------|------|------|------|------|--|--|---------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|
| OUTDOOR MULTIPLIER (TONS)                                                                                | COOLING AIRFLOW SETTING | AIRFLOW POWER | EXTERNAL STATIC PRESSURE (Constant CFM / Constant Torque) |           |           |           |           | HEATING AIRFLOW SETTING | AIRFLOW POWER | EXTERNAL STATIC PRESSURE |      |      |      |      |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |
|                                                                                                          |                         |               | 0.1                                                       | 0.3       | 0.5       | 0.7       | 0.9       |                         |               | 0.1                      | 0.3  | 0.5  | 0.7  | 0.9  |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |
| 3 tons                                                                                                   | 290                     | CFM           | 864/1015                                                  | 856/883   | 851/772   | 850/676   | 820/590   | 290                     | CFM           | 864                      | 856  | 851  | 843  | 822  |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |
|                                                                                                          | CFM/ton                 | Watts         | 80/96                                                     | 119/121   | 170/141   | 217/160   | 276/182   | CFM/ton                 | Watts         | 76                       | 119  | 168  | 219  | 276  |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |
|                                                                                                          | 350                     | CFM           | 1037/1179                                                 | 1037/1059 | 1040/957  | 1030/866  | 1030/784  | 350                     | CFM           | 1037                     | 1037 | 1040 | 1039 | 1032 |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |
|                                                                                                          | CFM/ton                 | Watts         | 120/137                                                   | 170/164   | 224/185   | 265/204   | 334/221   | CFM/ton                 | Watts         | 110                      | 158  | 213  | 271  | 334  |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |
|                                                                                                          | 400                     | CFM           | 1184/1317                                                 | 1187/1207 | 1193/1110 | 1180/1024 | 1190/945  | 400                     | CFM           | 1184                     | 1187 | 1193 | 1196 | 1197 |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |
|                                                                                                          | CFM/ton                 | Watts         | 160/180                                                   | 215/209   | 275/233   | 325/251   | 380/268   | CFM/ton                 | Watts         | 149                      | 200  | 260  | 324  | 393  |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |
| 3.5 tons                                                                                                 | 290                     | CFM           | 1015/1147                                                 | 1000/1025 | 1000/921  | 1000/829  | 1000/746  | 290                     | CFM           | 1003                     | 1002 | 1004 | 1002 | 992  |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |
|                                                                                                          | CFM/ton                 | Watts         | 115/128                                                   | 160/155   | 205/176   | 255/194   | 309/212   | CFM/ton                 | Watts         | 103                      | 149  | 203  | 260  | 322  |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |
|                                                                                                          | 350                     | CFM           | 1210/1341                                                 | 1210/1231 | 1210/1136 | 1210/1050 | 1210/971  | 350                     | CFM           | 1209                     | 1212 | 1218 | 1222 | 1224 |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |
|                                                                                                          | CFM/ton                 | Watts         | 165/188                                                   | 220/218   | 280/241   | 335/260   | 395/277   | CFM/ton                 | Watts         | 157                      | 208  | 269  | 334  | 403  |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |
|                                                                                                          | 400                     | CFM           | 1380/1503                                                 | 1380/1403 | 1390/1314 | 1390/1233 | 1390/1159 | 400                     | CFM           | 1384                     | 1386 | 1393 | 1397 | 1402 |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |
|                                                                                                          | CFM/ton                 | Watts         | 195/252                                                   | 285/286   | 355/312   | 420/332   | 485/349   | CFM/ton                 | Watts         | 217                      | 275  | 340  | 412  | 487  |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |
| 4 tons                                                                                                   | 450                     | CFM           | 1560/1667                                                 | 1560/1575 | 1570/1492 | 1570/1416 | 1579/1345 | 450                     | CFM           | 1563                     | 1563 | 1566 | 1566 | 1564 |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |
|                                                                                                          | CFM/ton                 | Watts         | 295/332                                                   | 365/369   | 440/398   | 515/421   | 595/439   | CFM/ton                 | Watts         | 293                      | 362  | 429  | 507  | 588  |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |
|                                                                                                          | 290                     | CFM           | 1140/1304                                                 | 1140/1192 | 1140/1095 | 1140/1008 | 1150/929  | 290                     | CFM           | 1144                     | 1147 | 1152 | 1155 | 1154 |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |
|                                                                                                          | CFM/ton                 | Watts         | 145/175                                                   | 200/204   | 255/227   | 310/246   | 365/263   | CFM/ton                 | Watts         | 138                      | 188  | 247  | 309  | 376  |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |
|                                                                                                          | 350                     | CFM           | 1380/1525                                                 | 1380/1426 | 1390/1338 | 1390/1257 | 1390/1183 | 350                     | CFM           | 1384                     | 1386 | 1393 | 1397 | 1402 |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |
|                                                                                                          | CFM/ton                 | Watts         | 220/262                                                   | 285/295   | 355/322   | 420/343   | 485/360   | CFM/ton                 | Watts         | 217                      | 275  | 340  | 412  | 487  |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |
| 5 tons †                                                                                                 | 400                     | CFM           | 1590/1711                                                 | 1590/1621 | 1590/1539 | 1590/1464 | 1600/1394 | 400                     | CFM           | 1589                     | 1588 | 1591 | 1589 | 1585 |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |
|                                                                                                          | CFM/ton                 | Watts         | 305/356                                                   | 380/267   | 455/356   | 535/267   | 610/466   | CFM/ton                 | Watts         | 305                      | 376  | 444  | 522  | 604  |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |
|                                                                                                          | 450                     | CFM           | 1790/1898                                                 | 1790/1816 | 1800/1741 | 1800/1670 | 1810/1604 | 450                     | CFM           | 1800                     | 1794 | 1791 | 1773 | 1745 |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |
|                                                                                                          | CFM/ton                 | Watts         | 410/474                                                   | 495/597   | 585/548   | 670/575   | 760/597   | CFM/ton                 | Watts         | 419                      | 509  | 575  | 660  | 749  |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |
|                                                                                                          | 290                     | CFM           | 1430/1571                                                 | 1440/1475 | 1440/1388 | 1440/1309 | 1440/1236 | 290                     | CFM           | 1435                     | 1436 | 1442 | 1446 | 1450 |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |
|                                                                                                          | CFM/ton                 | Watts         | 240/283                                                   | 310/318   | 375/345   | 445/367   | 515/384   | CFM/ton                 | Watts         | 237                      | 297  | 364  | 437  | 514  |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |
| 5 tons †                                                                                                 | 350 †                   | CFM           | 1740/1851                                                 | 1740/1767 | 1750/1690 | 1750/1619 | 1760/1552 | 350 †                   | CFM           | 1747                     | 1742 | 1740 | 1728 | 1707 |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |
|                                                                                                          | CFM/ton                 | Watts         | 380/442                                                   | 465/482   | 550/514   | 635/541   | 720/562   | CFM/ton                 | Watts         | 388                      | 472  | 539  | 623  | 710  |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |
|                                                                                                          | 400                     | CFM           | 2000/2087                                                 | 2000/2012 | 2010/1942 | 1980/1873 | 1870/317  | 400                     | CFM           | 2015                     | 2007 | 1995 | 1951 | 1877 |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |
|                                                                                                          | CFM/ton                 | Watts         | 540/619                                                   | 635/663   | 735/700   | 810/729   | 810/378   | CFM/ton                 | Watts         | 559                      | 679  | 739  | 810  | 810  |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |
|                                                                                                          | 450                     | CFM           | 2260/2141                                                 | 2210/2068 | 2100/1999 | 1980/903  | 1870/315  | 450                     | CFM           | 2125                     | 2117 | 2100 | 2038 | 1932 |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |
|                                                                                                          | CFM/ton                 | Watts         | 745/686                                                   | 810/729   | 810/766   | 810/359   | 810/405   | CFM/ton                 | Watts         | 641                      | 779  | 810  | 810  | 810  |  |  |                                                                                       |  |  |  |  |  |  |  |  |  |
| † Factory Setting                                                                                        |                         |               |                                                           |           |           |           |           |                         |               |                          |      |      |      |      |  |  | Torque mode will reduce airflow when static is above approximately 0.3" water column. |  |  |  |  |  |  |  |  |  |
| Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.           |                         |               |                                                           |           |           |           |           |                         |               |                          |      |      |      |      |  |  | All heating modes default to Constant CFM.                                            |  |  |  |  |  |  |  |  |  |
| In horizontal and downflow applications, airflow should be limited to 1800 CFM due to condensate blowoff |                         |               |                                                           |           |           |           |           |                         |               |                          |      |      |      |      |  |  | Cooling airflow values are with wet coil - no filter                                  |  |  |  |  |  |  |  |  |  |

- † Factory Setting
- Status LED will blink once per 100 CFM requested. In torque mode, actual airflow may be lower.
- In horizontal and downflow applications, airflow should be limited to 1800 CFM due to condensate blowoff.
- Torque mode will reduce airflow when static is above approximately 0.3" water column.
- All heating modes default to Constant CFM.
- Cooling airflow values are with wet coil, no filter



# Electrical Data

**Note:** Heater size needs to be set in Configuration Menu.

**Table 1. Electrical Data**

| STEMCB02AV21DA HEATER DATA                |                            |          |       |                               |                                |                                   |          |       |                               |                                |                                   |
|-------------------------------------------|----------------------------|----------|-------|-------------------------------|--------------------------------|-----------------------------------|----------|-------|-------------------------------|--------------------------------|-----------------------------------|
| Heater Model No.                          | No. of Circuits/<br>Phases | 240 Volt |       |                               |                                |                                   | 208 Volt |       |                               |                                |                                   |
|                                           |                            | Capacity |       | Heater<br>Amps per<br>Circuit | Minimum<br>Circuit<br>Ampacity | Maximum<br>Overload<br>Protection | Capacity |       | Heater<br>Amps per<br>Circuit | Minimum<br>Circuit<br>Ampacity | Maximum<br>Overload<br>Protection |
|                                           |                            | kW       | BTUH  |                               |                                |                                   | kW       | BTUH  |                               |                                |                                   |
| No Heater                                 |                            |          |       | 2.8 *                         | 4                              | 15                                |          |       | 2.8 *                         | 4                              | 15                                |
| BAYHTR1504BRK<br>BAYHTR1504LUG            | 1/1                        | 3.84     | 13100 | 16.0                          | 24                             | 25                                | 2.88     | 9800  | 13.8                          | 21                             | 25                                |
| BAYHTR1505BRK<br>BAYHTR1505LUG            | 1/1                        | 4.80     | 16400 | 20.0                          | 29                             | 30                                | 3.60     | 12300 | 17.3                          | 25                             | 25                                |
| BAYHTR1508BRK<br>BAYHTR1508LUG            | 1/1                        | 7.68     | 26200 | 32.0                          | 44                             | 45                                | 5.76     | 19700 | 27.7                          | 38                             | 40                                |
| BAYHTR1510BRK<br>BAYHTR1510LUG            | 1/1                        | 9.60     | 32800 | 40.0                          | 54                             | 60                                | 7.20     | 24600 | 34.6                          | 47                             | 50                                |
| BAYHTR1517BRK<br>Circuit 1 <sup>(a)</sup> | 2/1                        | 9.60     | 32800 | 40.0                          | 54                             | 60                                | 7.20     | 24600 | 34.6                          | 47                             | 50                                |
| BAYHTR1517BRK<br>Circuit 2                |                            | 4.80     | 16400 | 20.0                          | 25                             | 25                                | 3.60     | 12300 | 17.3                          | 22                             | 25                                |
| BAYHTR3510LUG                             | 1/3                        | 9.60     | 32800 | 23.1                          | 32                             | 35                                | 7.20     | 24600 | 20.0                          | 28                             | 30                                |
| BAYHTR3517LUG                             | 1/3                        | 14.40    | 49100 | 34.6                          | 46                             | 50                                | 10.80    | 36900 | 30.0                          | 41                             | 45                                |

\* = Motor Amps

<sup>(a)</sup> MCA and MOP for circuit 1 contains the motor amps

**Table 2. Electrical Data**

| STEMCB03AV31DA HEATER DATA                |                            |          |       |                               |                                |                                   |          |       |                               |                                |                                   |
|-------------------------------------------|----------------------------|----------|-------|-------------------------------|--------------------------------|-----------------------------------|----------|-------|-------------------------------|--------------------------------|-----------------------------------|
| Heater Model No.                          | No. of Circuits/<br>Phases | 240 Volt |       |                               |                                |                                   | 208 Volt |       |                               |                                |                                   |
|                                           |                            | Capacity |       | Heater<br>Amps per<br>Circuit | Minimum<br>Circuit<br>Ampacity | Maximum<br>Overload<br>Protection | Capacity |       | Heater<br>Amps per<br>Circuit | Minimum<br>Circuit<br>Ampacity | Maximum<br>Overload<br>Protection |
|                                           |                            | kW       | BTUH  |                               |                                |                                   | kW       | BTUH  |                               |                                |                                   |
| No Heater                                 |                            |          |       | 3.9 *                         | 5                              | 15                                |          |       | 3.9 *                         | 5                              | 15                                |
| BAYHTR1504BRK<br>BAYHTR1504LUG            | 1/1                        | 3.84     | 13100 | 16.0                          | 25                             | 25                                | 2.88     | 9800  | 13.8                          | 22                             | 25                                |
| BAYHTR1505BRK<br>BAYHTR1505LUG            | 1/1                        | 4.80     | 16400 | 20.0                          | 30                             | 30                                | 3.60     | 12300 | 17.3                          | 27                             | 30                                |
| BAYHTR1508BRK<br>BAYHTR1508LUG            | 1/1                        | 7.68     | 26200 | 32.0                          | 45                             | 45                                | 5.76     | 19700 | 27.7                          | 39                             | 40                                |
| BAYHTR1510BRK<br>BAYHTR1510LUG            | 1/1                        | 9.60     | 32800 | 40.0                          | 55                             | 60                                | 7.20     | 24600 | 34.6                          | 48                             | 50                                |
| BAYHTR1517BRK<br>Circuit 1 <sup>(a)</sup> | 2/1                        | 9.60     | 32800 | 40.0                          | 55                             | 60                                | 7.20     | 24600 | 34.6                          | 48                             | 50                                |
| BAYHTR1517BRK<br>Circuit 2                |                            | 4.80     | 16400 | 20.0                          | 25                             | 25                                | 3.60     | 12300 | 17.3                          | 22                             | 25                                |
| BAYHTR3510LUG                             | 1/3                        | 9.60     | 32800 | 23.1                          | 33                             | 35                                | 7.20     | 24600 | 20.0                          | 29                             | 30                                |
| BAYHTR3517LUG                             | 1/3                        | 14.40    | 49100 | 34.6                          | 48                             | 50                                | 10.80    | 36900 | 30.0                          | 42                             | 45                                |

\* = Motor Amps

<sup>(a)</sup> MCA and MOP for circuit 1 contains the motor amps

**Table 3. Electrical Data**

| <b>5STEMCD04AV31DA HEATER DATA</b><br><b>5STEMCD05AV41DA HEATER DATA</b> |                            |          |       |                               |                                |                                   |          |       |                               |                                |                                   |
|--------------------------------------------------------------------------|----------------------------|----------|-------|-------------------------------|--------------------------------|-----------------------------------|----------|-------|-------------------------------|--------------------------------|-----------------------------------|
| Heater Model No.                                                         | No. of Circuits/<br>Phases | 240 Volt |       |                               |                                |                                   | 208 Volt |       |                               |                                |                                   |
|                                                                          |                            | Capacity |       | Heater<br>Amps per<br>Circuit | Minimum<br>Circuit<br>Ampacity | Maximum<br>Overload<br>Protection | Capacity |       | Heater<br>Amps per<br>Circuit | Minimum<br>Circuit<br>Ampacity | Maximum<br>Overload<br>Protection |
|                                                                          |                            | kW       | BTUH  |                               |                                |                                   | kW       | BTUH  |                               |                                |                                   |
| No Heater                                                                |                            |          |       | 3.9 *                         | 5                              | 15                                |          |       | 3.9 *                         | 5                              | 15                                |
| BAYHTR1504BRK<br>BAYHTR1504LUG                                           | 1/1                        | 3.84     | 13100 | 16.0                          | 25                             | 25                                | 2.88     | 9800  | 13.8                          | 22                             | 25                                |
| BAYHTR1505BRK<br>BAYHTR1505LUG                                           | 1/1                        | 4.80     | 16400 | 20.0                          | 30                             | 30                                | 3.60     | 12300 | 17.3                          | 27                             | 30                                |
| BAYHTR1508BRK<br>BAYHTR1508LUG                                           | 1/1                        | 7.68     | 26200 | 32.0                          | 45                             | 45                                | 5.76     | 19700 | 27.7                          | 39                             | 40                                |
| BAYHTR1510BRK<br>BAYHTR1510LUG                                           | 1/1                        | 9.60     | 32800 | 40.0                          | 55                             | 60                                | 7.20     | 24600 | 34.6                          | 48                             | 50                                |
| BAYHTR1517BRK<br>Circuit 1 (a)                                           | 2/1                        | 9.60     | 32800 | 40.0                          | 55                             | 60                                | 7.20     | 24600 | 34.6                          | 48                             | 50                                |
| BAYHTR1517BRK<br>Circuit 2                                               |                            | 4.80     | 16400 | 20.0                          | 25                             | 25                                | 3.60     | 12300 | 17.3                          | 22                             | 25                                |
| BAYHTR1523BRK<br>Circuit 1 (a)                                           | 2/1                        | 9.60     | 32800 | 40.0                          | 55                             | 60                                | 7.20     | 24600 | 34.6                          | 48                             | 50                                |
| BAYHTR1523BRK<br>Circuit 2                                               |                            | 9.60     | 32800 | 40.0                          | 50                             | 50                                | 7.20     | 24600 | 34.6                          | 43                             | 45                                |
| BAYHTR3510LUG                                                            | 1/3                        | 9.60     | 32800 | 23.1                          | 33                             | 35                                | 7.20     | 24600 | 20.0                          | 29                             | 30                                |
| BAYHTR3517LUG                                                            | 1/3                        | 14.40    | 49100 | 34.6                          | 48                             | 50                                | 10.80    | 36900 | 30.0                          | 42                             | 45                                |

\* = Motor Amps

(a) MCA and MOP for circuit 1 contains the motor amps

**Table 4. Electrical Data**

| <b>5STEMCD06AV41DA, HEATER DATA</b><br><b>5STEMCD07AV51DA HEATER DATA</b> |                            |          |       |                               |                                |                                   |          |       |                               |                                |                                   |
|---------------------------------------------------------------------------|----------------------------|----------|-------|-------------------------------|--------------------------------|-----------------------------------|----------|-------|-------------------------------|--------------------------------|-----------------------------------|
| Heater Model No.                                                          | No. of Circuits/<br>Phases | 240 Volt |       |                               |                                |                                   | 208 Volt |       |                               |                                |                                   |
|                                                                           |                            | Capacity |       | Heater<br>Amps per<br>Circuit | Minimum<br>Circuit<br>Ampacity | Maximum<br>Overload<br>Protection | Capacity |       | Heater<br>Amps per<br>Circuit | Minimum<br>Circuit<br>Ampacity | Maximum<br>Overload<br>Protection |
|                                                                           |                            | kW       | BTUH  |                               |                                |                                   | kW       | BTUH  |                               |                                |                                   |
| No Heater                                                                 |                            |          |       | 5.7 *                         | 7                              | 15                                |          |       | 5.7 *                         | 7                              | 15                                |
| BAYHTR1504BRK<br>BAYHTR1504LUG                                            | 1/1                        | 3.84     | 13100 | 16.0                          | 27                             | 30                                | 2.88     | 9800  | 13.8                          | 24                             | 25                                |
| BAYHTR1505BRK<br>BAYHTR1505LUG                                            | 1/1                        | 4.80     | 16400 | 20.0                          | 32                             | 35                                | 3.60     | 12300 | 17.3                          | 29                             | 30                                |
| BAYHTR1508BRK<br>BAYHTR1508LUG                                            | 1/1                        | 7.68     | 26200 | 32.0                          | 47                             | 50                                | 5.76     | 19700 | 27.7                          | 42                             | 45                                |
| BAYHTR1510BRK<br>BAYHTR1510LUG                                            | 1/1                        | 9.60     | 32800 | 40.0                          | 57                             | 60                                | 7.20     | 24600 | 34.6                          | 50                             | 50                                |
| BAYHTR1517BRK<br>Circuit 1 (a)                                            | 2/1                        | 9.60     | 32800 | 40.0                          | 57                             | 60                                | 7.20     | 24600 | 34.6                          | 50                             | 50                                |
| BAYHTR1517BRK<br>Circuit 2                                                |                            | 4.80     | 16400 | 20.0                          | 25                             | 25                                | 3.60     | 12300 | 17.3                          | 22                             | 25                                |
| BAYHTR1523BRK<br>Circuit 1 (a)                                            | 2/1                        | 9.60     | 32800 | 40.0                          | 57                             | 60                                | 7.20     | 24600 | 34.6                          | 50                             | 50                                |
| BAYHTR1523BRK<br>Circuit 2                                                |                            | 9.60     | 32800 | 40.0                          | 50                             | 50                                | 7.20     | 24600 | 34.6                          | 43                             | 45                                |
| BAYHTR1525BRK<br>Circuit 1 (a)                                            | 4/1                        | 6.00     | 20500 | 25.0                          | 38                             | 40                                | 4.50     | 15400 | 21.6                          | 34                             | 35                                |
| BAYHTR1525BRK<br>Circuit 2                                                |                            | 6.00     | 20500 | 25.0                          | 31                             | 35                                | 4.50     | 15400 | 21.6                          | 27                             | 30                                |
| BAYHTR1525BRK<br>Circuit 3                                                |                            | 6.00     | 20500 | 25.0                          | 31                             | 35                                | 4.50     | 15400 | 21.6                          | 27                             | 30                                |
| BAYHTR1525BRK<br>Circuit 4                                                |                            | 6.00     | 20500 | 25.0                          | 31                             | 35                                | 4.50     | 15400 | 21.6                          | 27                             | 30                                |
| BAYHTR3510LUG                                                             | 1/3                        | 9.60     | 32800 | 23.1                          | 35                             | 40                                | 7.20     | 24600 | 20.0                          | 31                             | 35                                |
| BAYHTR3517LUG                                                             | 1/3                        | 14.40    | 49100 | 34.6                          | 50                             | 60                                | 10.80    | 36900 | 30.0                          | 44                             | 45                                |

\* = Motor Amps

(a) MCA and MOP for circuit 1 contains the motor amps



# Minimum Airflow CFM

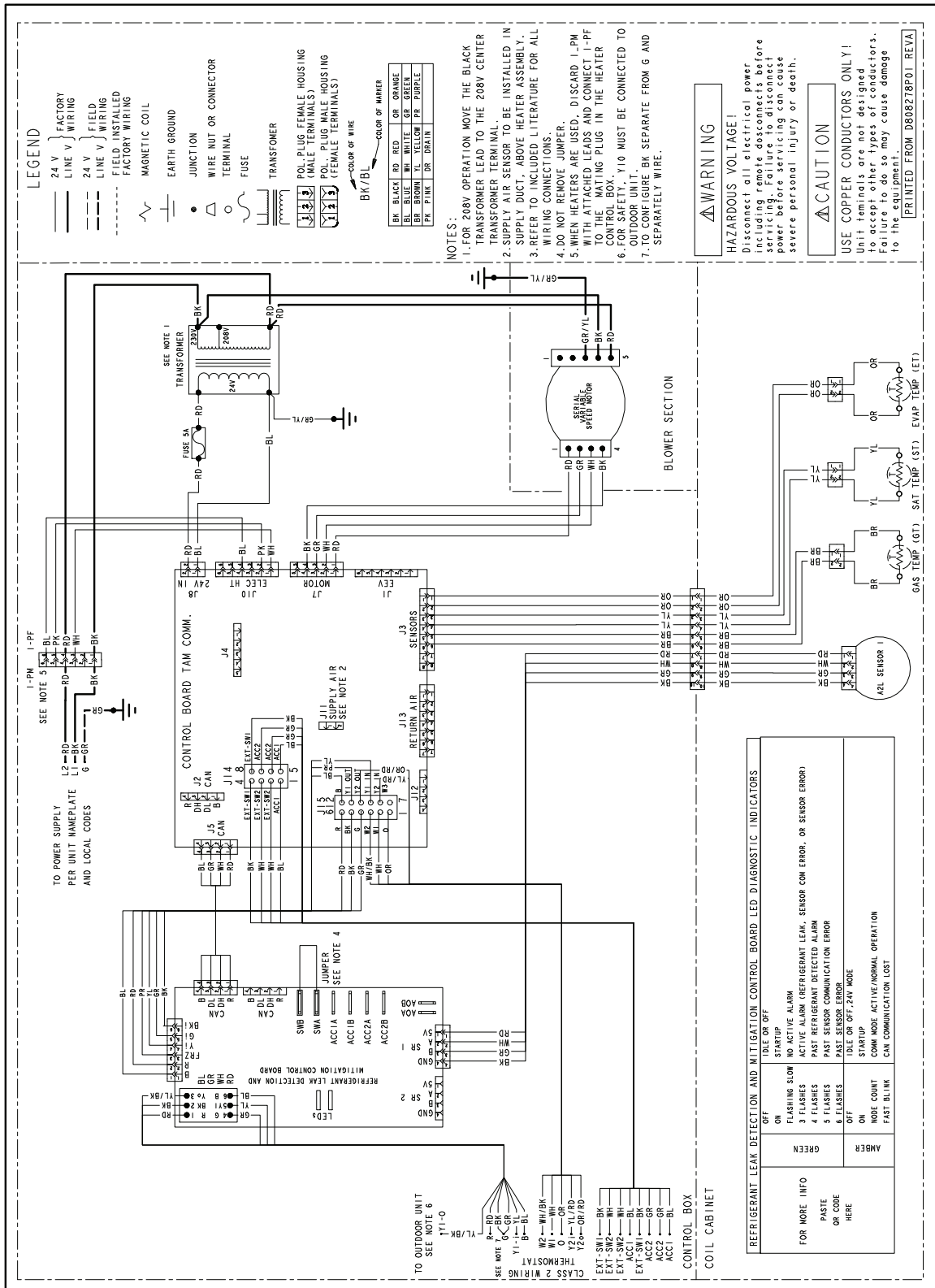
| 5STEMCB02AV21DA, 5STEMCB03AV31DA |                            |                   |
|----------------------------------|----------------------------|-------------------|
| Heater                           | Minimum Heater Airflow CFM |                   |
|                                  | With Heat Pump             | Without Heat Pump |
| BAYHTR1504+++, BAYHTR1505+++     | 650                        | 600               |
| BAYHTR1508+++, BAYHTR1510+++     | 850                        | 700               |
| BAYHTR1517BRK, BAYHTR3517LUG     | 1000                       | 850               |
| BAYHTR3510LUG                    | 850                        | 700               |

| 5STEMCD04AV31DA, 5STEMCD05AV41DA                           |                            |                   |
|------------------------------------------------------------|----------------------------|-------------------|
| Heater                                                     | Minimum Heater Airflow CFM |                   |
|                                                            | With Heat Pump             | Without Heat Pump |
| BAYHTR1504+++, BAYHTR1505+++                               | 675                        | 675               |
| BAYHTR1508+++, BAYHTR1510+++, BAYHTR1517BRK, BAYHTR3510LUG | 950                        | 900               |
| BAYHTR3517LUG                                              | 1050                       | 950               |
| BAYHTR1523BRK                                              | 1500                       | 1300              |

| 5STEMCD06AV41DA, 5STEMCD07AV51DA |                            |                   |
|----------------------------------|----------------------------|-------------------|
| Heater                           | Minimum Heater Airflow CFM |                   |
|                                  | With Heat Pump             | Without Heat Pump |
| BAYHTR1504+++, BAYHTR1505+++     | 900                        | 800               |
| BAYHTR1508+++, BAYHTR3510LUG     | 1200                       | 1000              |
| BAYHTR1510+++                    | 1350                       | 1000              |
| BAYHTR1517BRK, BAYHTR3517LUG     | 1400                       | 1100              |
| BAYHTR1523BRK                    | 1430                       | 1300              |
| BAYHTR1525BRK                    | 1850                       | 1600              |

**Note:** Heater model number digits "+++" are LUG or BRK.

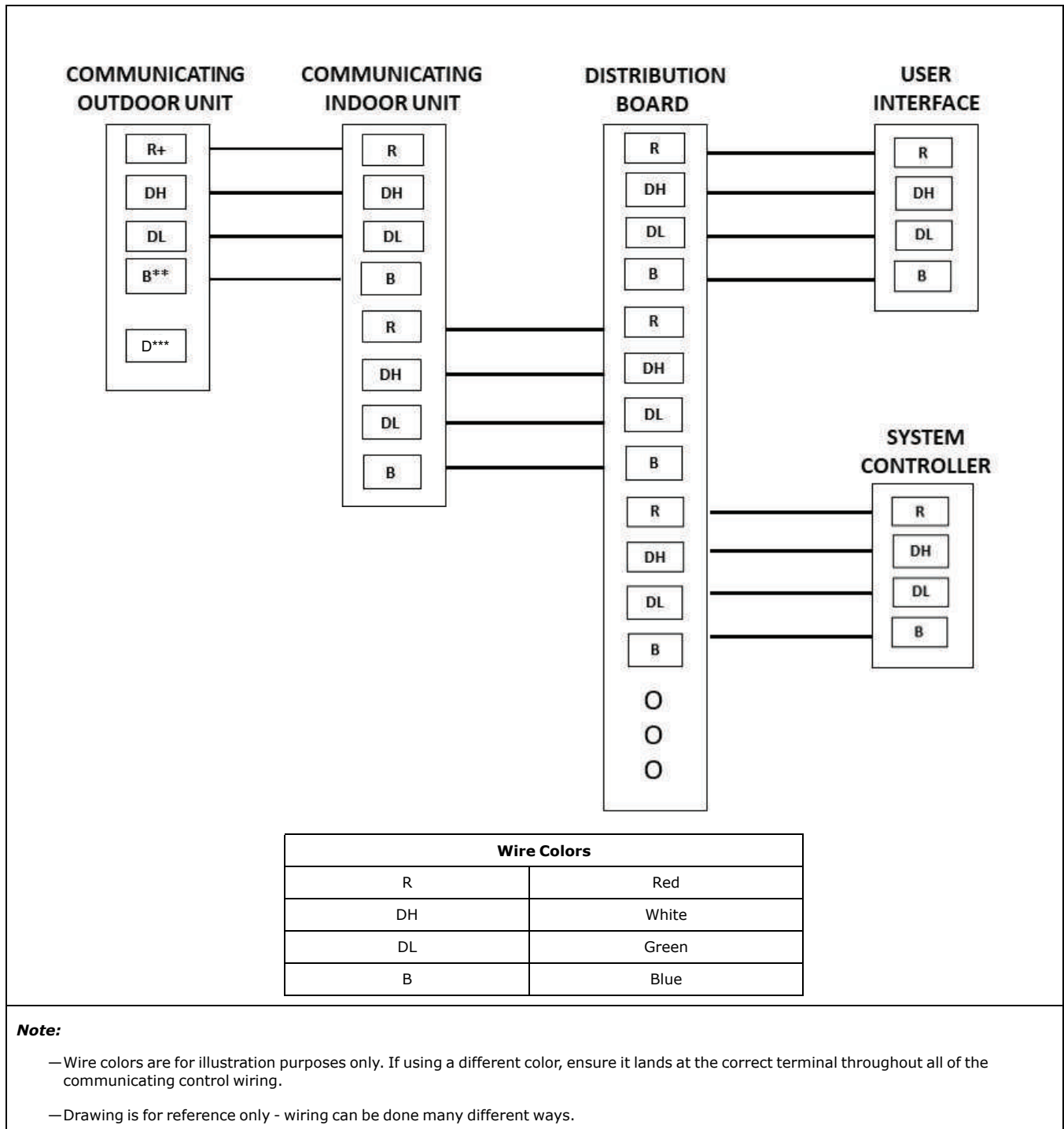
# Wiring Diagram



# Field Wiring

5TEMC can be used in either Link Communicating mode or 24 volt mode. In Link Communicating mode, all configurations are made by using the configuration menu in the User Interface (UX360) or from the Diagnostic Mobile App. In 24 volt mode, basic operation is configured from the factory with no defaults for accessories. All configurations for blower delays, accessories etc., need accomplished using the Diagnostic Mobile App.

**Table 5. Link Communicating Low Voltage Hook-Up Diagrams**





**Table 6. 24 Volt Low Voltage Wiring**

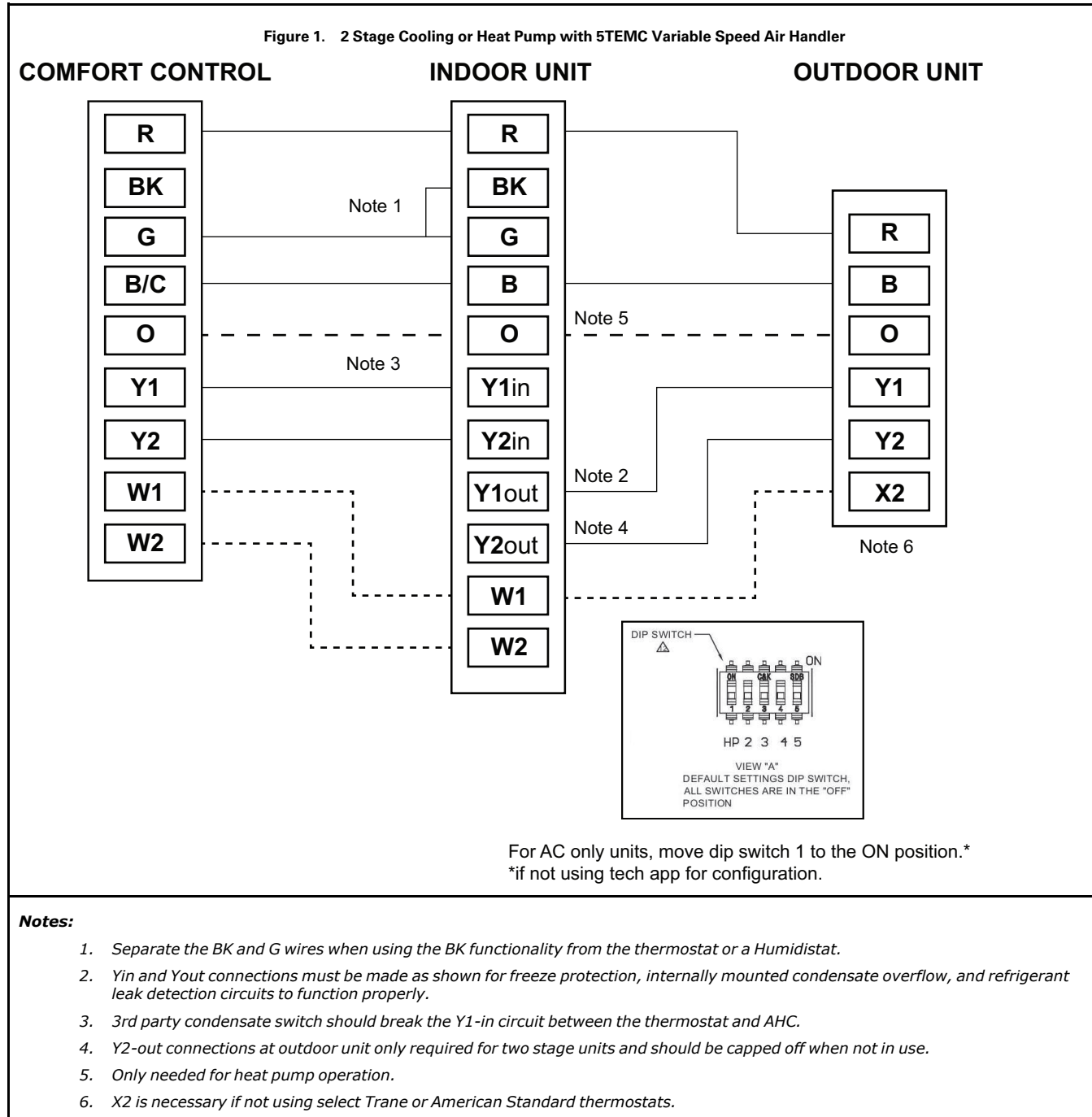
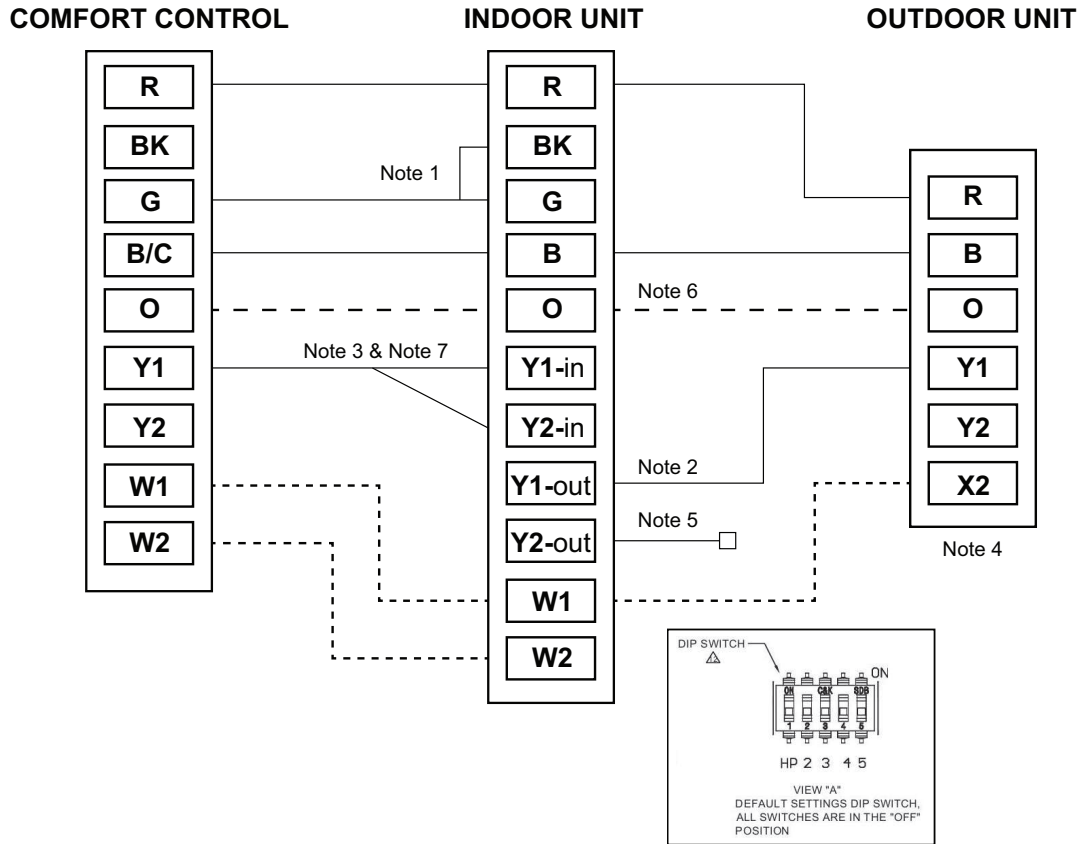


Figure 2. 1 Stage Cooling or Heat Pump with 5TEMC Variable Speed Air Handler



For AC only units, move dip switch 1 to the ON position.\*  
\*if not using tech app for configuration.

**Notes:**

1. Separate the BK and G wires when using the BK functionality from the thermostat or a Humidistat.
2. Yin and Yout connections must be made as shown for freeze protection, internally mounted condensate overflow, and refrigerant leak detection circuits to function properly.
3. 3rd party condensate switch should break the Y1-in circuit between the thermostat and AHC.
4. X2 is necessary if not using select Trane or American Standard thermostats.
5. For single speed operation, use Y1-out and cap off Y2-out wire.
6. Only needed for heat pump operation.
7. For single stage outdoor operation, must connect Y1-in and Y2-in for full airflow.

| 5TEMC 24 Volt Wire Harness Colors |               |       |             |
|-----------------------------------|---------------|-------|-------------|
| R                                 | Red           | Y2out | Orange/Red  |
| B                                 | Blue          | G     | Green       |
| O                                 | Orange        | BK    | Black       |
| Y1in                              | Yellow        | W1    | White       |
| Y2in                              | Yellow/Red    | W2    | White/Black |
| Y1out                             | Yellow/ Black |       |             |

**Table 7. External Switches and Accessories**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <p>Use stripped wire connections in control box when connecting a humidifier, external switch, or other accessory to the air handler.</p> <ul style="list-style-type: none"> <li>External switch 1 and 2 do have 24 volts AC source voltage and are to be connected to Normally Closed (NC) contacts on the external device.</li> <li>Accessory 1 and 2 are dry contacts and need source voltage provided from either the accessory or internally.</li> </ul> <p>The external switches and accessories can be configured through the Smart Thermostat or the Diagnostics Mobile App.</p> <p><b>Note:</b> See step 2 of <b>Low Voltage Hook-up Instructions</b> for switch location.</p> <p><b>Note:</b> Accessories can be configured in the UX360 User Interface or Diagnostics Mobile App.</p> <p><b>Note:</b> Accessories need configured using the Diagnostics Mobile App in 24 volt mode. There are no defaults in 24 volt mode.</p> | <p><b>Black Wires</b></p> <p><b>Ext Switch 1</b><br/>External condensate, Smoke Detector</p>                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <p><b>White Wires</b></p> <p><b>Ext Switch 2</b><br/>External condensate, Smoke Detector</p>                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <p><b>Blue Wires</b></p> <p><b>Accessory 1</b><br/>EAC, Humidifier (Fan assist/ Bypass)<br/>Steam Humidifier</p>  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <p><b>Green Wires</b></p> <p><b>Accessory 2</b><br/>EAC, Humidifier (Fan Assist/ Bypass)<br/>Steam Humidifier</p> |

The following optional connections are available on the mitigation control board (see hook-up diagrams [Figure 3, p. 20](#)):

- ACC1 and ACC2 accessory connections. Use when connecting an accessory to the air handler that could be considered a source of ignition (ex. electronic air cleaner).
- Aoa/Aob audible alarm connections. Use when configuring an audible alarm on the refrigerant detection system of the air handler.

ACC1, ACC2, and Aoa/Aob are dry contacts and need source voltage provided from either the accessory or the unit's control wiring.

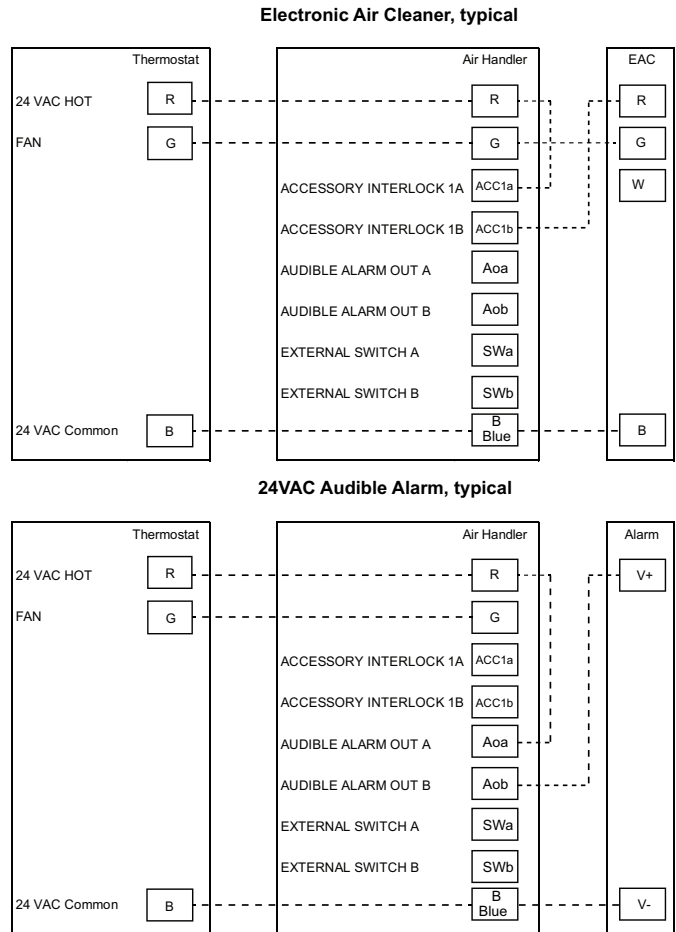
Connect using field-supplied 3/16" (Aoa/Aob) or 1/4" (ACC1, ACC2) female spade connections.

**Figure 3. Accessories Diagram**



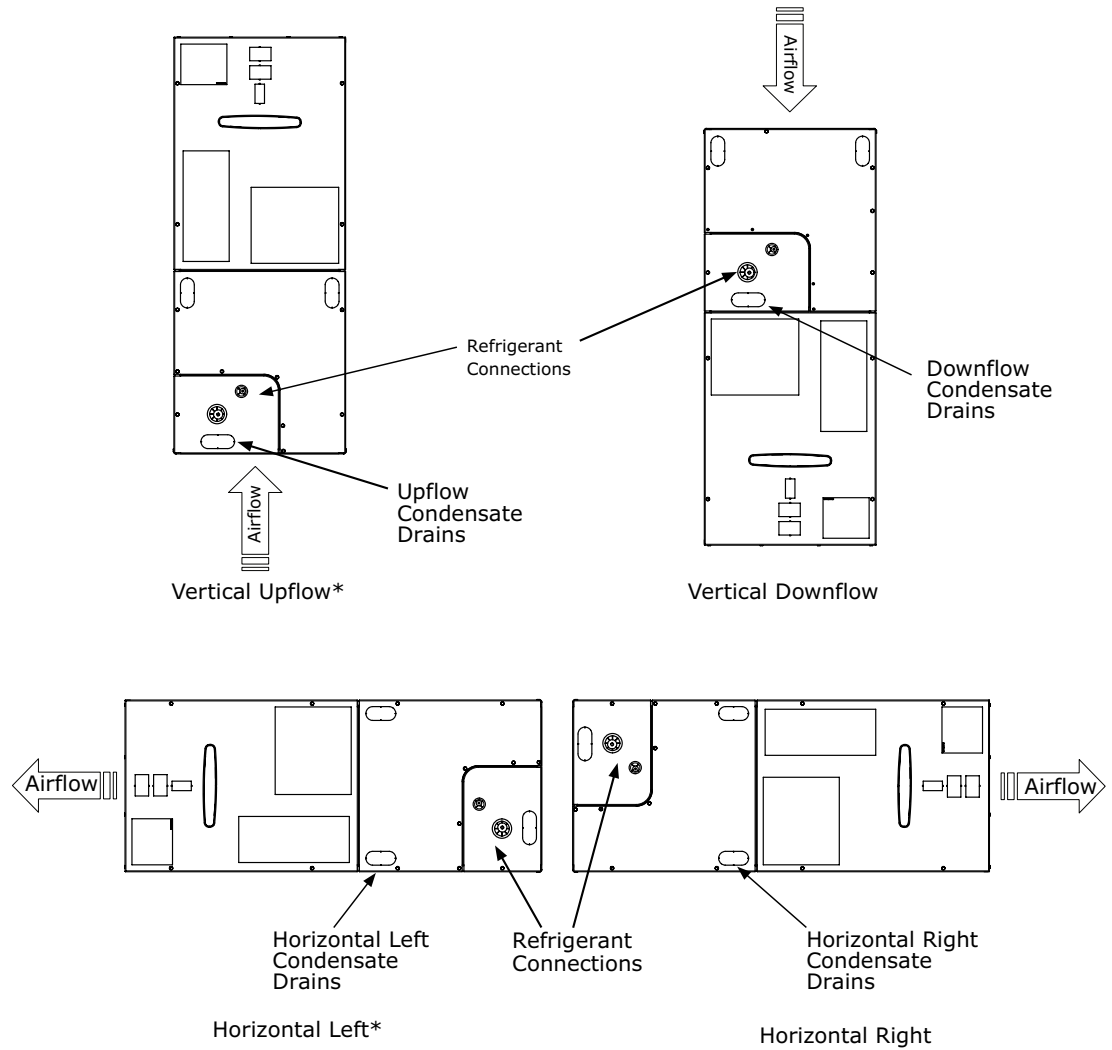
**SCAN ME**

Scan QR code to view instructional videos on field wiring for CleanEffects or AccuClean electronic air cleaners.

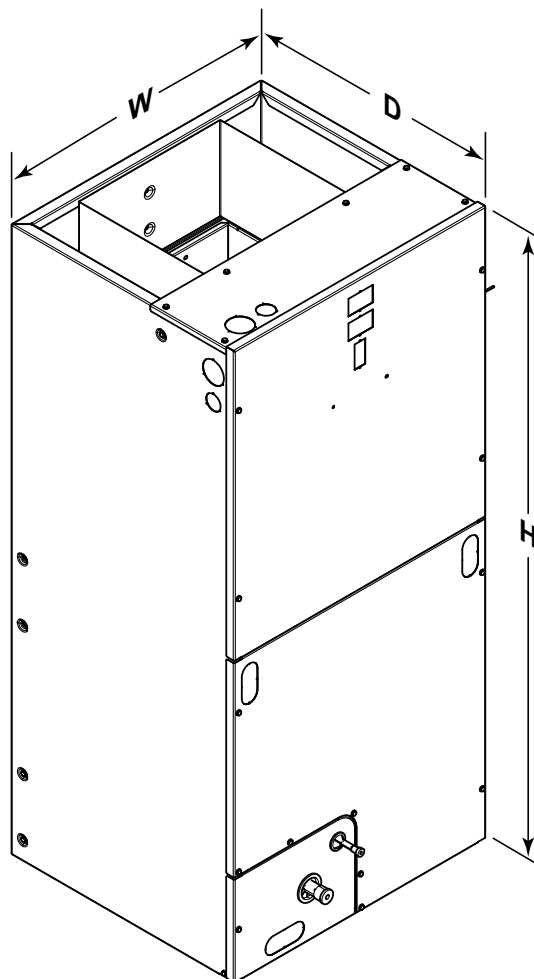


# TEM Convertibility

**Figure 4. Multi-Position Air Handler**  
 \* = No Internal Modifications Required.



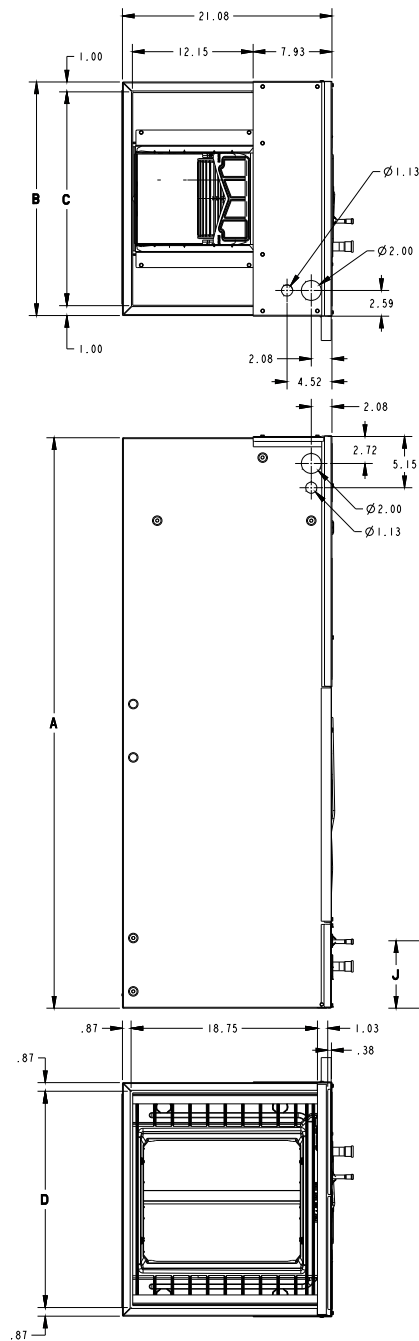
## Air Handler Dimensional Data



| Model No.      | H     | W     | D     |
|----------------|-------|-------|-------|
| 5TEMCB02AV21DA | 46.77 | 18.50 | 21.08 |
| 5TEMCB03AV31DA | 46.77 | 18.50 | 21.08 |
| 5TEMCD04AV31DA | 51.27 | 23.50 | 21.08 |
| 5TEMCD05AV41DA | 51.27 | 23.50 | 21.08 |
| 5TEMCD06AV41DA | 57.40 | 23.50 | 21.08 |
| 5TEMCD07AV51DA | 57.40 | 23.50 | 21.08 |



# Outline Drawing



| Minimum Unit Clearance Table |                               |
|------------------------------|-------------------------------|
|                              | Service Clearance Recommended |
| Sides                        | 2"                            |
| Front                        | 21"                           |
| Back                         | 0"                            |
| Inlet Duct                   | 1"                            |
| Outlet Duct                  | N/A                           |

**Note:** This unit is approved for installation clearances to combustible material as stated on the unit rating nameplate.

**ALL DIMENSIONS ARE REFERENCE DIMENSIONS**

Dwg No. D808390 Rev A

| PRODUCT DIMENSIONS           |       |       |       |       |      |      |       |      |              |                |
|------------------------------|-------|-------|-------|-------|------|------|-------|------|--------------|----------------|
| Air Handler Model            | A     | B     | C     | D     | E    | F    | H     | J    | Flow Control | Gas Line Braze |
| STEMCB02, 03                 | 46.77 | 18.50 | 16.50 | 16.75 | 5.43 | 7.08 | 20.07 | 5.76 | TXV          | 3/4            |
| STEMCB04, 05                 | 51.27 | 23.50 | 21.50 | 21.75 | 7.01 | 9.66 | 24.58 | 6.76 | TXV          | 7/8            |
| STEMCB06, 07                 | 57.40 | 23.50 | 21.50 | 21.75 | 7.01 | 9.66 | 30.71 | 6.76 | TXV          | 7/8            |
| All dimensions are in inches |       |       |       |       |      |      |       |      |              |                |



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