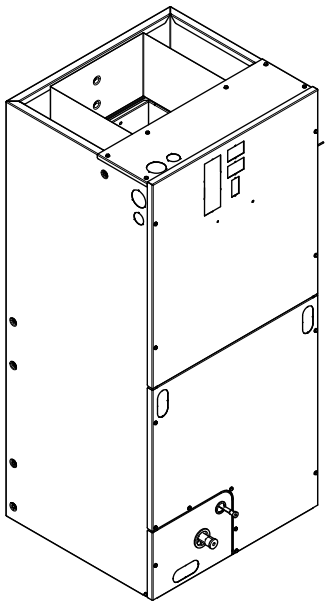
# Product Data

## Variable Speed Convertible Air Handlers
## 2 to 5 Tons

5TEMCB02AV21DA
5TEMCB03AV31DA
5TEMCD04AV31DA
5TEMCD05AV41DA
5TEMCD06AV41DA
5TEMCD07AV51DA
5TEMCD07BV51DA



***Note:*** *Graphics in this document are for representation only. Actual model may differ in appearance.*

November 2025

**AHR-PSD012B-EN**

# Introduction

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.

## Diagnostic Mobile App

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

***Notes:***

- *This unit can be used in Link Communicating mode or 24 volt mode.*
- *Use Diagnostics App to configure blower delays, and accessories in 24 volt mode.*

## Copyright



## Trademark



## Revision History

- Updated model numbers across the document.
- Updated the table note (a) in the Product Specification chapter.
- Updated the Field Wiring chapter.
- Updated TEM Convertibility chapter name to Unit Convertibility.

# Table of Contents

# 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

# Optional Equipment

**Table 1. Optional equipment**

| Accessory Number | Description | Fits Cabinet Size (in.) |
|---|---|---|
| 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 |

**Table 1. Optional equipment (continued)**

| Accessory Number | Description | Fits Cabinet Size (in.) |
|---|---|---|
| FLRSF1185 | 1 in. Slim Fit Replacement Filter, 17.75 in. x 19.75 in., Qty 12 | 18.5 |
| FLRSF1235 | 1 in. Slim Fit Replacement Filter, 22.75 in. x 19.75 in., 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

**Table 2. Models – 5TEMCB02AV21DA, 5TEMCB03AV31DA, and 5TEMCD04AV31DA**

| Model | 5TEMCB02AV21DA | 5TEMCB03AV31DA | 5TEMCD04AV31DA |
|---|---|---|---|
| Family Description | R-454B Variable Speed Air Handler | R-454B Variable Speed Air Handler | R-454B Variable Speed Air Handler |
| Application Configuration | 4-Way | 4-Way | 4-Way |
| **Rated Capacity Range (BTUH)** | 18K - 24K | 18K - 30K | 24K - 42K |
| **System Control Type** | Link Communicating or 24v | Link Communicating or 24v | Link Communicating or 24v |
| **Power Conn. - V/Ph/Hz** | 208-230/1/60 | 208-230/1/60 | 208-230/1/60 |
| Max Breaker Size, Without Electric Heater (Amps)[a] | 15 | 15 | 15 |
| Max Breaker Size, With Electric Heater (Amps) | 60 | 60 | 60 |
| **Coil Type** | 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 |
| **Blower Type** | 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[b] | 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 | 2.8 | 3.9 | 3.9 |
| **Filter Rack (Yes, No)** | No | No | No |
| Dimensions (Length x Width (in.)) | — | — | — |
| **Duct Connections** | 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 |
| **Drain Conn. Size (in.)** | 3/4 NPT | 3/4 NPT | 3/4 NPT |
| **Dimensions** | 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 |
| **Weight — Shipping/Net (lbs.)** | 126/117 | 126/117 | 155/144 |

[a] Maximum overcurrent protection is dependent on which electric heater is installed. See Electrical Data, p. 13.
[b] For CFM versus external static pressure (in. w.c.), see Performance Data, p. 9

**Table 3. Models – 5TEMCD05AV41DA, 5TEMCD06AV41DA, 5TEMCD07AV51DA, and 5TEMCD07BV51DA**

| Model | 5TEMCD05AV41DA | 5TEMCD06AV41DA | 5TEMCD07AV51DA | 5TEMCD07BV51DA |
|---|---|---|---|---|
| Family Description | R-454B Variable Speed Air Handler | R-454B Variable Speed Air Handler | R-454B Variable Speed Air Handler | R-454B Variable Speed Air Handler |
| Application Configuration | 4-Way | 4-Way | 4-Way | 4-Way |
| **Rated Capacity Range (BTUH)** | 36K - 48K | 36K - 60K | 42K - 60K | 42K - 60K |
| **System Control Type** | Link Communicating or 24v | Link Communicating or 24v | Link Communicating or 24v | Link Communicating or 24V |
| **Power Conn. - V/Ph/Hz** | 208-230/1/60 | 208-230/1/60 | 208-230/1/60 | 208-230/1/60 |
| Max Breaker Size, Without Electric Heater (Amps) | 15 | 15 | 15 | 15 |
| Max Breaker Size, With Electric Heater (Amps)[a] | 60 | 60 | 60 | 60 |
| **Coil Type** | All-Aluminum Plate Fin | All-Aluminum Plate Fin | All-Aluminum Plate Fin | All-Aluminum Plate Fin |
| Refrigerant Type | R-454B | R-454B | R-454B | R-454B |
| Refrigerant Control | TXV | TXV | TXV | TXV |
| Refrigerant Line Connection - Gas (in.) | 7/8 | 7/8 | 7/8 | 7/8 |
| Refrigerant Line Connection - Liquid (in.) | 3/8 | 3/8 | 3/8 | 3/8 |
| **Blower Type** | Direct Drive Centrifugal | Direct Drive Centrifugal | Direct Drive Centrifugal | Direct Drive Centrifugal |
| Configuration | Draw Through | Draw Through | Draw Through | Draw Through |
| Dimensions (Diameter x Width (in.)) | 11 x 8 | 11 x 8 | 11 x 8 | 11 x 8 |
| Motor Type | Variable Speed | Variable Speed | Variable Speed | Variable Speed |
| Nominal CFM[b] | 1400 | 1600 | 2000 | 2000 |
| Speed (RPM) | 1050 | 1050 | 1050 | 1050 |
| Volts/Ph/Hz | 208-230/1/60 | 208-230/1/60 | 208-230/1/60 | 208-230/1/60 |
| Full Load Amps | 3.9 | 5.7 | 5.7 | 6.9 |
| **Filter Rack (Yes, No)** | No | No | No | No |
| Dimensions (Length x Width (in.)) | — | — | — | — |
| **Duct Connections** | L x W | 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 | 12.15 x 21.50 |
| Return (in.) | 18.75 x 21.75 | 18.75 x 21.75 | 18.75 x 21.75 | 18.75 x 21.75 |
| **Drain Conn. Size (in.)** | 3/4 NPT | 3/4 NPT | 3/4 NPT | 3/4 NPT |
| **Dimensions** | H x W x D | 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 | 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 | 58-1/8 x 25-7/8 x 25-1/2 |
| **Weight — Shipping/Net (lbs.)** | 155/144 | 185/174 | 185/174 | 187/176 |

[a] Maximum overcurrent protection is dependent on which electric heater is installed. See Electrical Data, p. 13.
[b] For CFM versus external static pressure (in. w.c.), see Performance Data, p. 9

# Heater Pressure Drop Table

**Table 4. Heater pressure drop**

| Airflow 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 | 0.04 | 0.08 | | — | — |
| 800 | 0.01 | 0.03 | — | — | | — | — |
| 700 | 0.01 | 0.02 | — | — | | — | — |
| 600 | 0.01 | 0.02 | — | — | | — | — |

**Table 5. Model – 5TEMCB02AV21DA**

| 5TEMCB02AV21DA 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/ton | CFM Watts | 430 / 538 50 / 39 | 430 / 415 75 / 48 | 430 / 264 95 / 43 | 430 / NA 110 / NA | 430 / NA 145 / NA | 290 CFM/ton | CFM Watts | 434 34 | 419 64 | 419 96 | 403 130 | 384 167 |
| | 350 CFM/ton | CFM Watts | 520 / 620 60 / 53 | 520 / 514 90 / 64 | 520 / 398 120 / 61 | 520 / NA 135 / NA | 510 / NA 175 / NA | 350 CFM/ton | CFM Watts | 521 44 | 512 77 | 514 112 | 500 153 | 485 196 |
| | 400 CFM/ton | CFM Watts | 590 / 688 75 / 67 | 590 / 593 105 / 80 | 590 / 493 140 / 80 | 590 / NA 160 / NA | 590 / NA 205 / NA | 400 CFM/ton | CFM Watts | 595 56 | 589 91 | 595 127 | 584 173 | 573 222 |
| | 450 CFM/ton | CFM Watts | 670 / 758 85 / 85 | 670 / 671 125 / 100 | 660 / 581 160 / 102 | 660 / NA 190 / NA | 660 / NA 235 / NA | 450 CFM/ton | CFM Watts | 668 71 | 667 107 | 675 145 | 668 196 | 660 250 |
| 2 Tons | 290 CFM/ton | CFM Watts | 570 / 670 60 / 63 | 570 / 573 90 / 76 | 570 / 469 125 / 75 | 570 / NA 165 / NA | 568 / NA 215 / NA | 290 CFM/ton | CFM Watts | 575 53 | 569 87 | 573 123 | 561 167 | 549 215 |
| | 350 CFM/ton | CFM Watts | 690 / 781 85 / 91 | 690 / 696 120 / 107 | 690 / 609 160 / 110 | 690 / 518 210 / 98 | 680 / NA 259 / NA | 350 CFM/ton | CFM Watts | 693 76 | 693 113 | 702 152 | 696 204 | 689 259 |
| | 400 CFM/ton | CFM Watts | 790 / 875 110 / 122 | 790 / 798 150 / 140 | 790 / 720 195 / 145 | 780 / 639 250 / 137 | 780 / 555 301 / 115 | 400 CFM/ton | CFM Watts | 791 103 | 795 143 | 805 184 | 803 240 | 798 301 |
| | 450 CFM/ton | CFM Watts | 890 / 971 145 / 161 | 890 / 899 185 / 181 | 880 / 827 235 / 189 | 880 / 754 295 / 184 | 880 / 680 347 / 184 | 450 CFM/ton | CFM Watts | 889 138 | 895 181 | 902 226 | 899 284 | 891 347 |
| 2.5 Tons † | 290 CFM/ton | CFM Watts | 720 / 823 90 / 104 | 720 / 741 140 / 120 | 710 / 659 170 / 124 | 710 / 573 220 / 115 | 710 / 481 260 / 91 | 290 CFM/ton | CFM Watts | 717 82 | 718 120 | 728 159 | 723 212 | 717 269 |
| | 350 CFM/ton | CFM Watts | 870 / 963 140 / 157 | 860 / 892 182 / 177 | 873 / 819 235 / 185 | 860 / 746 280 / 180 | 850 / 671 330 / 161 | 350 CFM/ton | CFM Watts | 865 128 | 871 170 | 879 214 | 876 272 | 869 335 |
| | 390 † CFM/ton | CFM Watts | 958 / 1075 147 / 170 | 975 / 1000 203 / 195 | 946 / 878 269 / 211 | 871 / 711 342 / 197 | 802 / 617 403 / 189 | 390 † CFM/ton | CFM Watts | 958 138 | 979 192 | 957 257 | 878 336 | 822 406 |
| | 400 CFM/ton | CFM Watts | 980 / 1100 157 / 181 | 993 / 1019 213 / 205 | 958 / 889 280 / 219 | 875 / 714 357 / 205 | 801 / 616 418 / 196 | 400 CFM/ton | CFM Watts | 980 146 | 998 202 | 969 268 | 882 351 | 821 422 |
| | 450 CFM/ton | CFM Watts | 980 / 1100 157 / 181 | 993 / 1019 213 / 205 | 958 / 889 280 / 219 | 875 / 714 357 / 205 | 801 / 616 418 / 196 | 450 CFM/ton | CFM Watts | 980 146 | 998 202 | 969 268 | 882 351 | 821 422 |

- † 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-inch water column.
- All heating modes default to Constant CFM.
- Cooling airflow values are with wet coil, no filter.

## Table 6. Model – 5TEMCB03AV31DA

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

- † 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.
- Torque mode will reduce airflow when static is above approximately 0.3-inch water column.
- All heating modes default to Constant CFM.
- Cooling airflow values are with wet coil, no filter.

## Table 7. Models – 5TEMCD04AV31DA and 5TEMCD05AV41DA

| 5TEMCD04AV31DA and 5TEMCD05AV41DA 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/ton | CFM | 864 / 1015 | 856 / 883 | 851 / 772 | 850 / 676 | 820 / 590 | 290 CFM/ton | CFM | 864 | 856 | 851 | 843 | 822 |
| | | Watts | 80 / 96 | 119 / 121 | 170 / 141 | 217 / 160 | 276 / 182 | | Watts | 76 | 119 | 168 | 219 | 276 |
| | 350 CFM/ton | CFM | 1037 / 1179 | 1037 / 1059 | 1040 / 957 | 1030 / 866 | 1030 / 784 | 350 CFM/ton | CFM | 1037 | 1037 | 1040 | 1039 | 1032 |
| | | Watts | 120 / 137 | 170 / 164 | 224 / 185 | 265 / 204 | 334 / 221 | | Watts | 110 | 158 | 213 | 271 | 334 |
| | 400 CFM/ton | CFM | 1184 / 1317 | 1187 / 1207 | 1193 / 1110 | 1180 / 1024 | 1190 / 945 | 400 CFM/ton | CFM | 1184 | 1187 | 1193 | 1196 | 1197 |
| | | Watts | 160 / 180 | 215 / 209 | 275 / 233 | 325 / 251 | 380 / 268 | | Watts | 149 | 200 | 260 | 324 | 393 |
| | 450 CFM/ton | CFM | 1334 / 1457 | 1336 / 1354 | 1343 / 1263 | 1340 / 1181 | 1340 / 1105 | 450 CFM/ton | CFM | 1334 | 1336 | 1343 | 1348 | 1353 |
| | | Watts | 205 / 232 | 265 / 265 | 335 / 290 | 395 / 310 | 460 / 327 | | Watts | 198 | 254 | 318 | 388 | 461 |
| 3.5 Tons | 290 CFM/ton | CFM | 1015 / 1147 | 1000 / 1025 | 1000 / 921 | 1000 / 829 | 1000 / 746 | 290 CFM/ton | CFM | 1003 | 1002 | 1004 | 1002 | 992 |
| | | Watts | 115 / 128 | 160 / 155 | 205 / 176 | 255 / 194 | 309 / 212 | | Watts | 103 | 149 | 203 | 260 | 322 |
| | 350 CFM/ton | CFM | 1210 / 1341 | 1210 / 1231 | 1210 / 1136 | 1210 / 1050 | 1210 / 971 | 350 CFM/ton | CFM | 1209 | 1212 | 1218 | 1222 | 1224 |
| | | Watts | 165 / 188 | 220 / 218 | 280 / 241 | 335 / 260 | 395 / 277 | | Watts | 157 | 208 | 269 | 334 | 403 |
| | 400 CFM/ton | CFM | 1380 / 1503 | 1380 / 1403 | 1390 / 1314 | 1390 / 1233 | 1390 / 1159 | 400 CFM/ton | CFM | 1384 | 1386 | 1393 | 1397 | 1402 |
| | | Watts | 195 / 252 | 285 / 286 | 355 / 312 | 420 / 332 | 485 / 349 | | Watts | 217 | 275 | 340 | 412 | 487 |
| | 450 CFM/ton | CFM | 1560 / 1667 | 1560 / 1575 | 1570 / 1492 | 1570 / 1416 | 1579 / 1345 | 450 CFM/ton | CFM | 1563 | 1563 | 1566 | 1566 | 1564 |
| | | Watts | 295 / 332 | 365 / 369 | 440 / 398 | 515 / 421 | 595 / 439 | | Watts | 293 | 362 | 429 | 507 | 588 |
| 4 Tons | 290 CFM/ton | CFM | 1140 / 1304 | 1140 / 1192 | 1140 / 1095 | 1140 / 1008 | 1150 / 929 | 290 CFM/ton | CFM | 1144 | 1147 | 1152 | 1155 | 1154 |
| | | Watts | 145 / 175 | 200 / 204 | 255 / 227 | 310 / 246 | 365 / 263 | | Watts | 138 | 188 | 247 | 309 | 376 |
| | 350 CFM/ton | CFM | 1380 / 1525 | 1380 / 1426 | 1390 / 1338 | 1390 / 1257 | 1390 / 1183 | 350 CFM/ton | CFM | 1384 | 1386 | 1393 | 1397 | 1402 |
| | | Watts | 220 / 262 | 285 / 295 | 355 / 322 | 420 / 343 | 485 / 360 | | Watts | 217 | 275 | 340 | 412 | 487 |
| | 400 CFM/ton | CFM | 1590 / 1711 | 1590 / 1621 | 1590 / 1539 | 1590 / 1464 | 1600 / 1394 | 400 CFM/ton | CFM | 1589 | 1588 | 1591 | 1589 | 1585 |
| | | Watts | 305 / 356 | 380 / 267 | 455 / 356 | 535 /267 | 610 / 466 | | Watts | 305 | 376 | 444 | 522 | 604 |
| | 450 CFM/ton | CFM | 1790 / 1898 | 1790 / 1816 | 1800 / 1741 | 1800 / 1670 | 1810 / 1604 | 450 CFM/ton | CFM | 1800 | 1794 | 1791 | 1773 | 1745 |
| | | Watts | 410 / 474 | 495 / 597 | 585 / 548 | 670 / 575 | 760 / 597 | | Watts | 419 | 509 | 575 | 660 | 749 |
| 5Tons † | 290 CFM/ton | CFM | 1430 / 1571 | 1440 / 1475 | 1440 / 1388 | 1440 / 1309 | 1440 / 1236 | 290 CFM/ton | CFM | 1435 | 1436 | 1442 | 1446 | 1450 |
| | | Watts | 240 / 283 | 310 / 318 | 375 / 345 | 445 / 367 | 515 / 384 | | Watts | 237 | 297 | 364 | 437 | 514 |
| | 350 † CFM/ton | CFM | 1740 / 1851 | 1740 / 1767 | 1750 / 1690 | 1750 / 1619 | 1760 / 1552 | 350 † CFM/ton | CFM | 1747 | 1742 | 1740 | 1728 | 1707 |
| | | Watts | 380 / 442 | 465 / 482 | 550 / 514 | 635 / 541 | 720 / 562 | | Watts | 388 | 472 | 539 | 623 | 710 |
| | 400 CFM/ton | CFM | 2000 / 2087 | 2000 / 2012 | 2010 / 1942 | 1980 / 1873 | 1870 / 317 | 400 CFM/ton | CFM | 2015 | 2007 | 1995 | 1951 | 1877 |
| | | Watts | 540 / 619 | 635 / 663 | 735 / 700 | 810 / 729 | 810 / 378 | | Watts | 559 | 679 | 739 | 810 | 810 |
| | 450 CFM/ton | CFM | 2260 / 2141 | 2210 / 2068 | 2100 / 1999 | 1980 / 903 | 1870 / 315 | 450 CFM/ton | CFM | 2125 | 2117 | 2100 | 2038 | 1932 |
| | | Watts | 745 / 686 | 810 / 729 | 810 / 766 | 810 / 359 | 810 / 405 | | Watts | 641 | 779 | 810 | 810 | 810 |

- † 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-inch water column.
- All heating modes default to Constant CFM.
- Cooling airflow values are with wet coil, no filter.

## Table 8. Models – 5TEMCD06AV41DA, 5TEMCD07AV51DA, and 5TEMCD07BV51DA

| 5TEMCD06AV41DA, 5TEMCD07AV51DA, and 5TEMCD07BV51DA 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/ton | CFM | 864 / 1015 | 856 / 883 | 851 / 772 | 850 / 676 | 820 / 590 | 290 CFM/ton | CFM | 864 | 856 | 851 | 843 | 822 |
| | | Watts | 80 / 96 | 119 / 121 | 170 / 141 | 217 / 160 | 276 / 182 | | Watts | 76 | 119 | 168 | 219 | 276 |
| | 350 CFM/ton | CFM | 1037 / 1179 | 1037 / 1059 | 1040 / 957 | 1030 / 866 | 1030 / 784 | 350 CFM/ton | CFM | 1037 | 1037 | 1040 | 1039 | 1032 |
| | | Watts | 120 / 137 | 170 / 164 | 224 / 185 | 265 / 204 | 334 / 221 | | Watts | 110 | 158 | 213 | 271 | 334 |
| | 400 CFM/ton | CFM | 1184 / 1317 | 1187 / 1207 | 1193 / 1110 | 1180 / 1024 | 1190 / 945 | 400 CFM/ton | CFM | 1184 | 1187 | 1193 | 1196 | 1197 |
| | | Watts | 160 / 180 | 215 / 209 | 275 / 233 | 325 / 251 | 380 / 268 | | Watts | 149 | 200 | 260 | 324 | 393 |
| | 450 CFM/ton | CFM | 1334 / 1457 | 1336 / 1354 | 1343 / 1263 | 1340 / 1181 | 1340 / 1105 | 450 CFM/ton | CFM | 1334 | 1336 | 1343 | 1348 | 1353 |
| | | Watts | 205 / 232 | 265 / 265 | 335 / 290 | 395 / 310 | 460 / 327 | | Watts | 198 | 254 | 318 | 388 | 461 |
| 3.5 tons | 290 CFM/ton | CFM | 1015 / 1147 | 1000 / 1025 | 1000 / 921 | 1000 / 829 | 1000 / 746 | 290 CFM/ton | CFM | 1003 | 1002 | 1004 | 1002 | 992 |
| | | Watts | 115 / 128 | 160 / 155 | 205 / 176 | 255 / 194 | 309 / 212 | | Watts | 103 | 149 | 203 | 260 | 322 |
| | 350 CFM/ton | CFM | 1210 / 1341 | 1210 / 1231 | 1210 / 1136 | 1210 / 1050 | 1210 / 971 | 350 CFM/ton | CFM | 1209 | 1212 | 1218 | 1222 | 1224 |
| | | Watts | 165 / 188 | 220 / 218 | 280 / 241 | 335 / 260 | 395 / 277 | | Watts | 157 | 208 | 269 | 334 | 403 |
| | 400 CFM/ton | CFM | 1380 / 1503 | 1380 / 1403 | 1390 / 1314 | 1390 / 1233 | 1390 / 1159 | 400 CFM/ton | CFM | 1384 | 1386 | 1393 | 1397 | 1402 |
| | | Watts | 195 / 252 | 285 / 286 | 355 / 312 | 420 / 332 | 485 / 349 | | Watts | 217 | 275 | 340 | 412 | 487 |
| | 450 CFM/ton | CFM | 1560 / 1667 | 1560 / 1575 | 1570 / 1492 | 1570 / 1416 | 1579 / 1345 | 450 CFM/ton | CFM | 1563 | 1563 | 1566 | 1566 | 1564 |
| | | Watts | 295 / 332 | 365 / 369 | 440 / 398 | 515 / 421 | 595 / 439 | | Watts | 293 | 362 | 429 | 507 | 588 |
| 4 tons | 290 CFM/ton | CFM | 1140 / 1304 | 1140 / 1192 | 1140 / 1095 | 1140 / 1008 | 1150 / 929 | 290 CFM/ton | CFM | 1144 | 1147 | 1152 | 1155 | 1154 |
| | | Watts | 145 / 175 | 200 / 204 | 255 / 227 | 310 / 246 | 365 / 263 | | Watts | 138 | 188 | 247 | 309 | 376 |
| | 350 CFM/ton | CFM | 1380 / 1525 | 1380 / 1426 | 1390 / 1338 | 1390 / 1257 | 1390 / 1183 | 350 CFM/ton | CFM | 1384 | 1386 | 1393 | 1397 | 1402 |
| | | Watts | 220 / 262 | 285 / 295 | 355 / 322 | 420 / 343 | 485 / 360 | | Watts | 217 | 275 | 340 | 412 | 487 |
| | 400 CFM/ton | CFM | 1590 / 1711 | 1590 / 1621 | 1590 / 1539 | 1590 / 1464 | 1600 / 1394 | 400 CFM/ton | CFM | 1589 | 1588 | 1591 | 1589 | 1585 |
| | | Watts | 305 / 356 | 380 / 267 | 455 / 356 | 535 /267 | 610 / 466 | | Watts | 305 | 376 | 444 | 522 | 604 |
| | 450 CFM/ton | CFM | 1790 / 1898 | 1790 / 1816 | 1800 / 1741 | 1800 / 1670 | 1810 / 1604 | 450 CFM/ton | CFM | 1800 | 1794 | 1791 | 1773 | 1745 |
| | | Watts | 410 / 474 | 495 / 597 | 585 / 548 | 670 / 575 | 760 / 597 | | Watts | 419 | 509 | 575 | 660 | 749 |
| 5 tons † | 290 CFM/ton | CFM | 1430 / 1571 | 1440 / 1475 | 1440 / 1388 | 1440 / 1309 | 1440 / 1236 | 290 CFM/ton | CFM | 1435 | 1436 | 1442 | 1446 | 1450 |
| | | Watts | 240 / 283 | 310 / 318 | 375 / 345 | 445 / 367 | 515 / 384 | | Watts | 237 | 297 | 364 | 437 | 514 |
| | 350 † CFM/ton | CFM | 1740 / 1851 | 1740 / 1767 | 1750 / 1690 | 1750 / 1619 | 1760 / 1552 | 350 † CFM/ton | CFM | 1747 | 1742 | 1740 | 1728 | 1707 |
| | | Watts | 380 / 442 | 465 / 482 | 550 / 514 | 635 / 541 | 720 / 562 | | Watts | 388 | 472 | 539 | 623 | 710 |
| | 400 CFM/ton | CFM | 2000 / 2087 | 2000 / 2012 | 2010 / 1942 | 1980 / 1873 | 1870 / 317 | 400 CFM/ton | CFM | 2015 | 2007 | 1995 | 1951 | 1877 |
| | | Watts | 540 / 619 | 635 / 663 | 735 / 700 | 810 / 729 | 810 / 378 | | Watts | 559 | 679 | 739 | 810 | 810 |
| | 450 CFM/ton | CFM | 2260 / 2141 | 2210 / 2068 | 2100 / 1999 | 1980 / 903 | 1870 / 315 | 450 CFM/ton | CFM | 2125 | 2117 | 2100 | 2038 | 1932 |
| | | Watts | 745 / 686 | 810 / 729 | 810 / 766 | 810 / 359 | 810 / 405 | | Watts | 641 | 779 | 810 | 810 | 810 |

- † 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-inch 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 9. Model – 5TEMCB02AV21DA**

| 5TEMCB02AV21DA Heater Data | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Heater Model No. | No. of Circuits/ Phases | 240 Volt | | | | | 208 Volt | | | | |
| | | Capacity | | Heater Amps per Circuit | Minimum Circuit Ampacity | Maximum Overload Protection | Capacity | | Heater Amps per Circuit | Minimum Circuit Ampacity | Maximum Overload Protection |
| | | kW | BTUH | | | | kW | BTUH | | | |
| No Heater | — | — | — | 2.8[a] | 4 | 15 | — | — | 2.8[a] | 4 | 15 |
| BAYHTR1504BRK BAYHTR1504LUG | 1/1 | 3.84 | 13100 | 16.0 | 24 | 25 | 2.88 | 9800 | 13.8 | 21 | 25 |
| BAYHTR1505BRK BAYHTR1505LUG | 1/1 | 4.80 | 16400 | 20.0 | 29 | 30 | 3.60 | 12300 | 17.3 | 25 | 25 |
| BAYHTR1508BRK BAYHTR1508LUG | 1/1 | 7.68 | 26200 | 32.0 | 44 | 45 | 5.76 | 19700 | 27.7 | 38 | 40 |
| BAYHTR1510BRK BAYHTR1510LUG | 1/1 | 9.60 | 32800 | 40.0 | 54 | 60 | 7.20 | 24600 | 34.6 | 47 | 50 |
| BAYHTR1517BRK Circuit 1 [b] | 2/1 | 9.60 | 32800 | 40.0 | 54 | 60 | 7.20 | 24600 | 34.6 | 47 | 50 |
| BAYHTR1517BRK 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 |

[a] Motor Amps

[b] MCA and MOP for circuit 1 contains the motor amps.

**Table 10. Model – 5TEMCB03AV31DA**

| 5TEMCB03AV31DA Heater Data | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Heater Model No. | No. of Circuits/ Phases | 240 Volt | | | | | 208 Volt | | | | |
| | | Capacity | | Heater Amps per Circuit | Minimum Circuit Ampacity | Maximum Overload Protection | Capacity | | Heater Amps per Circuit | Minimum Circuit Ampacity | Maximum Overload Protection |
| | | kW | BTUH | | | | kW | BTUH | | | |
| No Heater | — | — | — | 3.9[a] | 5 | 15 | — | — | 3.9[a] | 5 | 15 |
| BAYHTR1504BRK BAYHTR1504LUG | 1/1 | 3.84 | 13100 | 16.0 | 25 | 25 | 2.88 | 9800 | 13.8 | 22 | 25 |
| BAYHTR1505BRK BAYHTR1505LUG | 1/1 | 4.80 | 16400 | 20.0 | 30 | 30 | 3.60 | 12300 | 17.3 | 27 | 30 |
| BAYHTR1508BRK BAYHTR1508LUG | 1/1 | 7.68 | 26200 | 32.0 | 45 | 45 | 5.76 | 19700 | 27.7 | 39 | 40 |
| BAYHTR1510BRK BAYHTR1510LUG | 1/1 | 9.60 | 32800 | 40.0 | 55 | 60 | 7.20 | 24600 | 34.6 | 48 | 50 |
| BAYHTR1517BRK Circuit 1 [b] | 2/1 | 9.60 | 32800 | 40.0 | 55 | 60 | 7.20 | 24600 | 34.6 | 48 | 50 |
| BAYHTR1517BRK 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 |

[a] Motor Amps

[b] MCA and MOP for circuit 1 contains the motor amps.

**Table 11. Models – 5TEMCD04AV31DA and 5TEMCD05AV41DA**

| 5TEMCD04AV31DA and 5TEMCD05AV41DA Heater Data | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Heater Model No. | No. of Circuits/ Phases | 240 Volt | | | | | 208 Volt | | | | |
| | | Capacity | | Heater Amps per Circuit | Minimum Circuit Ampacity | Maximum Overload Protection | Capacity | | Heater Amps per Circuit | Minimum Circuit Ampacity | Maximum Overload Protection |
| | | kW | BTUH | | | | kW | BTUH | | | |
| No Heater | — | — | — | 3.9[a] | 5 | 15 | — | — | 3.9[a] | 5 | 15 |
| BAYHTR1504BRK BAYHTR1504LUG | 1/1 | 3.84 | 13100 | 16.0 | 25 | 25 | 2.88 | 9800 | 13.8 | 22 | 25 |
| BAYHTR1505BRK BAYHTR1505LUG | 1/1 | 4.80 | 16400 | 20.0 | 30 | 30 | 3.60 | 12300 | 17.3 | 27 | 30 |
| BAYHTR1508BRK BAYHTR1508LUG | 1/1 | 7.68 | 26200 | 32.0 | 45 | 45 | 5.76 | 19700 | 27.7 | 39 | 40 |
| BAYHTR1510BRK BAYHTR1510LUG | 1/1 | 9.60 | 32800 | 40.0 | 55 | 60 | 7.20 | 24600 | 34.6 | 48 | 50 |

### Table 11. Models – 5TEMCD04AV31DA and 5TEMCD05AV41DA (continued)

| 5TEMCD04AV31DA and 5TEMCD05AV41DA Heater Data | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Heater Model No. | No. of Circuits/ Phases | 240 Volt | | | | | 208 Volt | | | | |
| | | Capacity | | Heater Amps per Circuit | Minimum Circuit Ampacity | Maximum Overload Protection | Capacity | | Heater Amps per Circuit | Minimum Circuit Ampacity | Maximum Overload Protection |
| | | kW | BTUH | | | | kW | BTUH | | | |
| BAYHTR1517BRK Circuit 1 (b) | 2/1 | 9.60 | 32800 | 40.0 | 55 | 60 | 7.20 | 24600 | 34.6 | 48 | 50 |
| BAYHTR1517BRK Circuit 2 | | 4.80 | 16400 | 20.0 | 25 | 25 | 3.60 | 12300 | 17.3 | 22 | 25 |
| BAYHTR1523BRK Circuit 1 (b) | 2/1 | 9.60 | 32800 | 40.0 | 55 | 60 | 7.20 | 24600 | 34.6 | 48 | 50 |
| BAYHTR1523BRK 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 |

(a) Motor Amps
(b) MCA and MOP for circuit 1 contains the motor amps.

### Table 12. Models – 5TEMCD06AV41DA and 5TEMCD07AV51DA

| 5TEMCD06AV41DA and 5TEMCD07AV51DA Heater Data | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Heater Model No. | No. of Circuits/ Phases | 240 Volt | | | | | 208 Volt | | | | |
| | | Capacity | | Heater Amps per Circuit | Minimum Circuit Ampacity | Maximum Overload Protection | Capacity | | Heater Amps per Circuit | Minimum Circuit Ampacity | Maximum Overload Protection |
| | | kW | BTUH | | | | kW | BTUH | | | |
| No Heater | — | — | — | 5.7(a) | 7 | 15 | — | — | 5.7(a) | 7 | 15 |
| BAYHTR1504BRK BAYHTR1504LUG | 1/1 | 3.84 | 13100 | 16.0 | 27 | 30 | 2.88 | 9800 | 13.8 | 24 | 25 |
| BAYHTR1505BRK BAYHTR1505LUG | 1/1 | 4.80 | 16400 | 20.0 | 32 | 35 | 3.60 | 12300 | 17.3 | 29 | 30 |
| BAYHTR1508BRK BAYHTR1508LUG | 1/1 | 7.68 | 26200 | 32.0 | 47 | 50 | 5.76 | 19700 | 27.7 | 42 | 45 |
| BAYHTR1510BRK BAYHTR1510LUG | 1/1 | 9.60 | 32800 | 40.0 | 57 | 60 | 7.20 | 24600 | 34.6 | 50 | 50 |
| BAYHTR1517BRK Circuit 1(b) | 2/1 | 9.60 | 32800 | 40.0 | 57 | 60 | 7.20 | 24600 | 34.6 | 50 | 50 |
| BAYHTR1517BRK Circuit 2 | | 4.80 | 16400 | 20.0 | 25 | 25 | 3.60 | 12300 | 17.3 | 22 | 25 |
| BAYHTR1523BRK Circuit 1(b) | 2/1 | 9.60 | 32800 | 40.0 | 57 | 60 | 7.20 | 24600 | 34.6 | 50 | 50 |
| BAYHTR1523BRK Circuit 2 | | 9.60 | 32800 | 40.0 | 50 | 50 | 7.20 | 24600 | 34.6 | 43 | 45 |
| BAYHTR1525BRK Circuit 1(b) | 4/1 | 6.00 | 20500 | 25.0 | 38 | 40 | 4.50 | 15400 | 21.6 | 34 | 35 |
| BAYHTR1525BRK Circuit 2 | | 6.00 | 20500 | 25.0 | 31 | 35 | 4.50 | 15400 | 21.6 | 27 | 30 |
| BAYHTR1525BRK Circuit 3 | | 6.00 | 20500 | 25.0 | 31 | 35 | 4.50 | 15400 | 21.6 | 27 | 30 |
| BAYHTR1525BRK 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 |

(a) Motor Amps
(b) MCA and MOP for circuit 1 contains the motor amps.

### Table 13. Model – 5TEMCD07BV51DA

| 5TEMCD07BV51DA Heater Data | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Heater Model No. | No. of Circuits/ Phases | 240 Volt | | | | | 208 Volt | | | | |
| | | Capacity | | Heater Amps per Circuit | Minimum Circuit Ampacity | Maximum Overload Protection | Capacity | | Heater Amps per Circuit | Minimum Circuit Ampacity | Maximum Overload Protection |
| | | kW | BTUH | | | | kW | BTUH | | | |
| No Heater | — | — | — | 6.9(a) | 9 | 15 | — | — | 6.9(a) | 9 | 15 |
| BAYHTR1504BRK BAYHTR1504LUG | 1/1 | 3.84 | 13100 | 16.0 | 29 | 30 | 2.88 | 9800 | 13.8 | 26 | 30 |
| BAYHTR1505BRK BAYHTR1505LUG | 1/1 | 4.80 | 16400 | 20.0 | 34 | 35 | 3.60 | 12300 | 17.3 | 30 | 30 |
| BAYHTR1508BRK BAYHTR1508LUG | 1/1 | 7.68 | 26200 | 32.0 | 49 | 50 | 5.76 | 19700 | 27.7 | 43 | 45 |
| BAYHTR1510BRK BAYHTR1510LUG | 1/1 | 9.60 | 32800 | 40.0 | 59 | 60 | 7.20 | 24600 | 34.6 | 52 | 60 |

**Table 13. Model – 5TEMCD07BV51DA (continued)**

| 5TEMCD07BV51DA Heater Data | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Heater Model No. | No. of Circuits/ Phases | 240 Volt | | | | | 208 Volt | | | | |
| | | Capacity | | Heater Amps per Circuit | Minimum Circuit Ampacity | Maximum Overload Protection | Capacity | | Heater Amps per Circuit | Minimum Circuit Ampacity | Maximum Overload Protection |
| | | kW | BTUH | | | | kW | BTUH | | | |
| BAYHTR1517BRK-Circuit 1[b] | 2/1 | 9.60 | 32800 | 40.0 | 59 | 60 | 7.20 | 24600 | 34.6 | 52 | 60 |
| BAYHTR1517BRK-Circuit 2[b] | | 4.80 | 16400 | 20.0 | 25 | 25 | 3.60 | 12300 | 17.3 | 22 | 25 |
| BAYHTR1523BRK-Circuit 1[b] | 2/1 | 9.60 | 32800 | 40.0 | 59 | 60 | 7.20 | 24600 | 34.6 | 52 | 60 |
| BAYHTR1523BRK-Circuit 2[b] | | 9.60 | 32800 | 40.0 | 50 | 50 | 7.20 | 24600 | 34.6 | 43 | 45 |
| BAYHTR1525BRK-Circuit 1 | 4/1 | 6.00 | 20500 | 25.0 | 40 | 40 | 4.50 | 15400 | 21.6 | 36 | 40 |
| BAYHTR1525BRK-Circuit 2 | | 6.00 | 20500 | 25.0 | 31 | 35 | 4.50 | 15400 | 21.6 | 27 | 30 |
| BAYHTR1525BRK-Circuit 3 | | 6.00 | 20500 | 25.0 | 31 | 35 | 4.50 | 15400 | 21.6 | 27 | 30 |
| BAYHTR1525BRK-Circuit 4 | | 6.00 | 20500 | 25.0 | 31 | 35 | 4.50 | 15400 | 21.6 | 27 | 30 |
| BAYHTR3510LUG | 1/3 | 9.60 | 32800 | 23.1 | 37 | 40 | 7.20 | 24600 | 20.0 | 33 | 35 |
| BAYHTR3517LUG | 1/3 | 14.40 | 49100 | 34.6 | 51 | 60 | 10.80 | 36900 | 30.0 | 45 | 50 |

[a] Motor Amps

[b] MCA and MOP for circuit 1 contains the motor amps.

# Minimum Airflow CFM

**Table 14. Models – 5TEMCB02AV21DA and 5TEMCB03AV31DA**

| 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 |

**Table 15. Models – 5TEMCD04AV31DA and 5TEMCD05AV41DA**

| 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 |

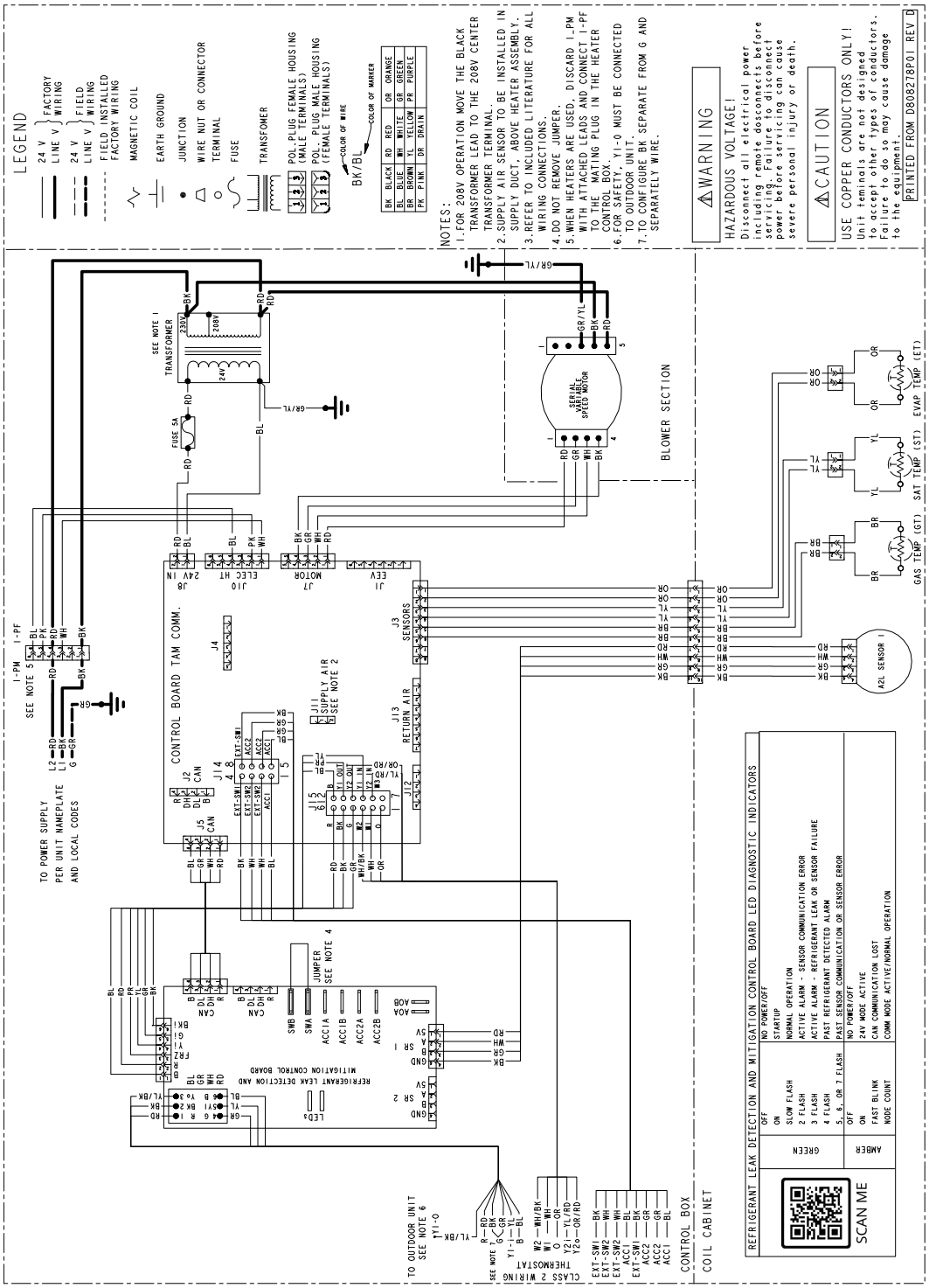
**Table 16. Models – 5TEMCD06AV41DA, 5TEMCD07AV51DA, and 5TEMCD07BV51DA**

| 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

**Figure 1. Wiring diagram**




***Note:*** *For refrigerant and leak detection and mitigation control board diagnostic flash codes, see Variable Speed Convertible Air Handlers 2 to 5 Ton, Installation, Operation, and Maintenance (AHR-SVX004*-EN).*

# 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.

**Figure 2. Link communicating low voltage connection diagrams**

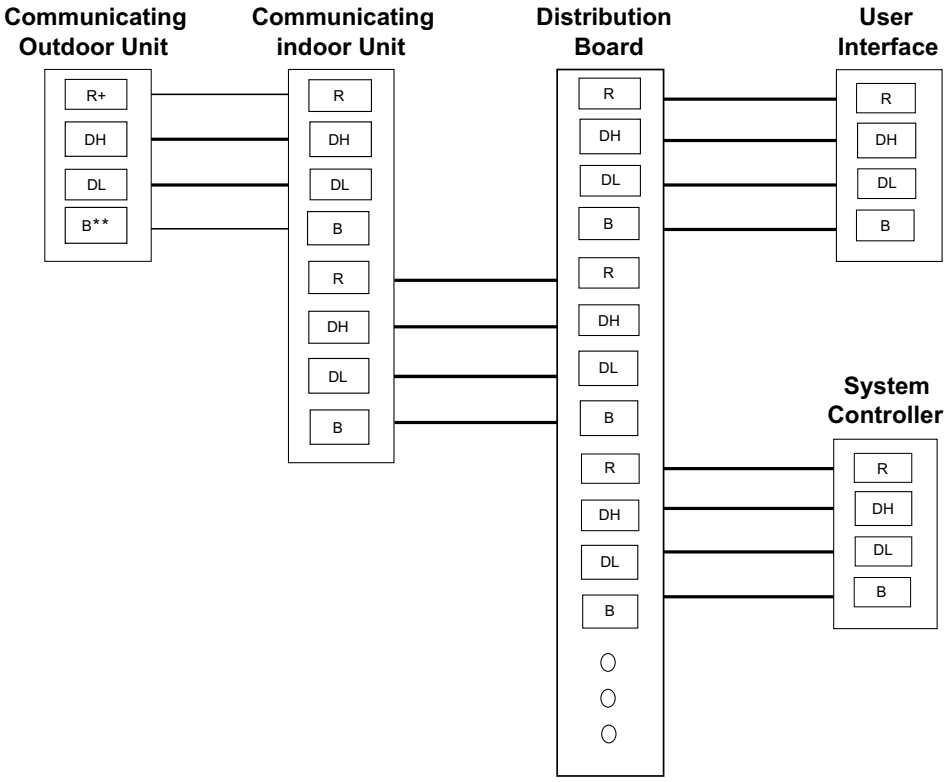


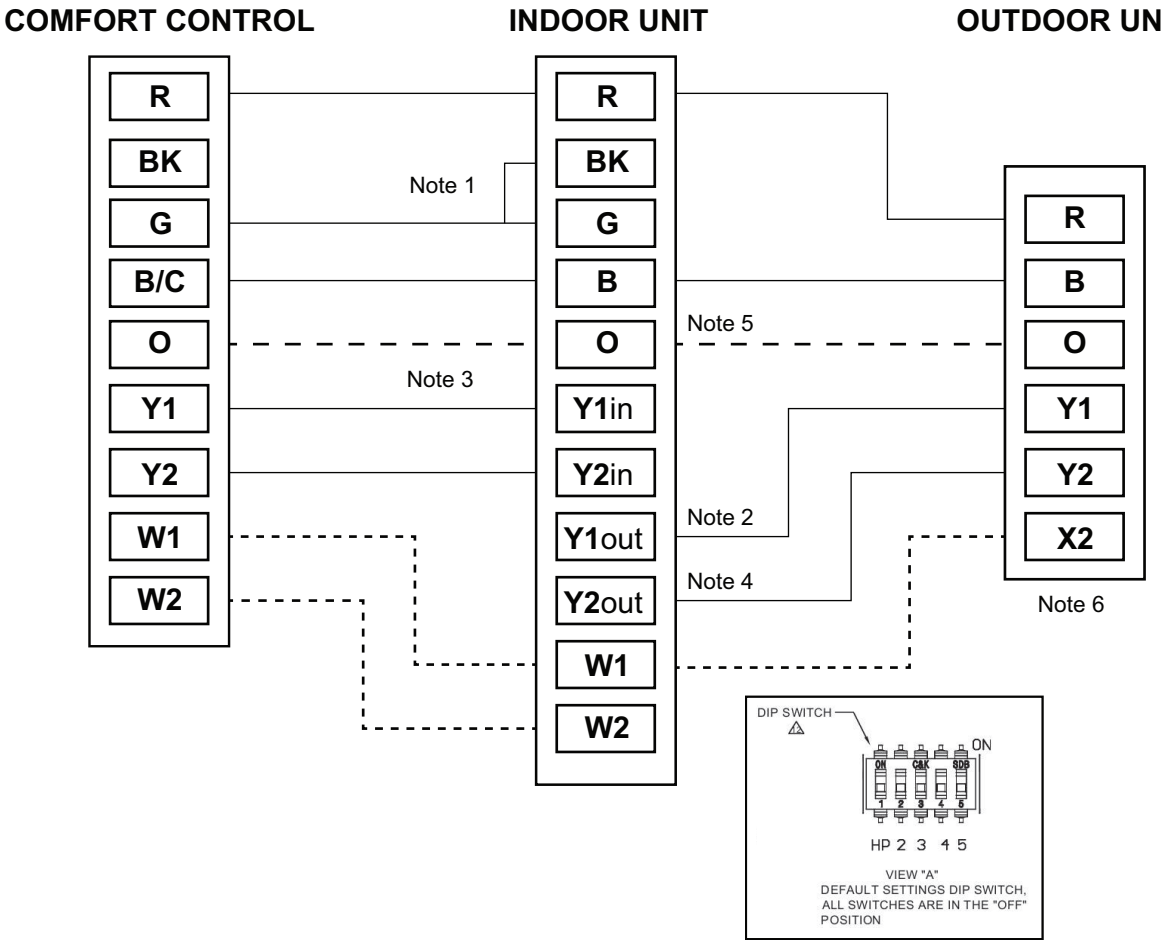

**Table 17. Wire colors**

| Wire Colors | |
|---|---|
| R | Red |
| DH | White |
| DL | Green |
| B | Blue |

***Notes:***

- *Wire colors are for illustration purposes only. If using a different color, ensure it lands at the correct terminal throughout all of the communicating control wiring.*
- *Drawing is for reference only - wiring can be done many different ways.*

**Figure 3. 24 volt low voltage wiring - 2 stage cooling or heat pump with 5TEMC variable speed air handler**

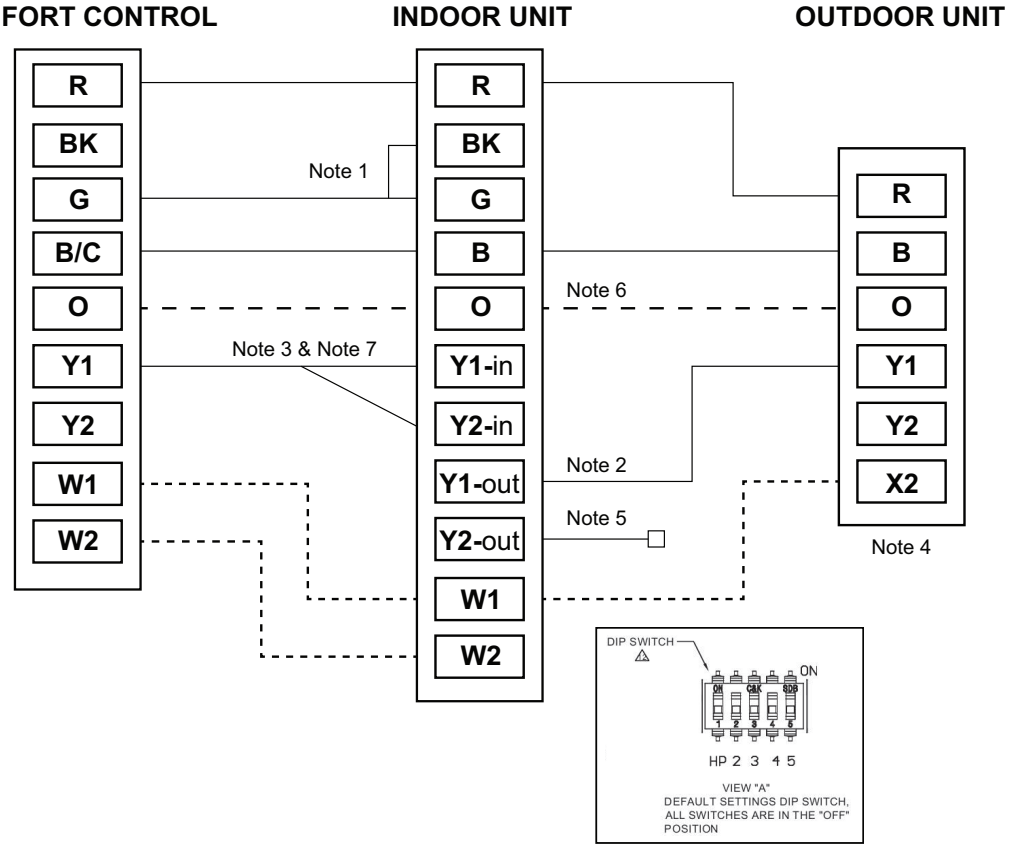



For AC only units, move dip switch 1 to the ON position.
*if not using tech app for configuration.
*24 volt mode only.

***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. *Y2-out connections at outdoor unit only required for two stage units and should be capped off when not in use.*
5. *Only needed for heat pump operation.*
6. *X2 is necessary if not using select Trane or American Standard thermostats.*

**Figure 4. 24 volt low voltage wiring - 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.
*24 volt mode only.

***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.*

**Table 18. 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 | | — | — |

# External Switches and Accessories

Use stripped wire connections in control box when connecting a humidifier, external switch, or other accessory to the air handler.

- 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.
- Accessory 1 and 2 are dry contacts and need source voltage provided from either the accessory or internally.

The external switches and accessories can be configured through the Smart Thermostat or the Diagnostics Mobile App.

***Notes:***

- *See step 2 of Low Voltage Connection Instructions for switch location in Variable Speed Convertible Air Handlers 2 to 5 Ton, Installation, Operation, and Maintenance (AHR-SVX004*-EN).*
- *Accessories can be configured in the UX360 User Interface or Diagnostics Mobile App.*
- *Accessories need configured using the Diagnostics Mobile App in 24 volt mode. There are no defaults in 24 volt mode.*

**Table 19. Wire colors**

| | |
|---|---|
| **Black Wires** | **Ext Switch 1**<br>External condensate, Smoke Detector |
| **White Wires** | **Ext Switch 2**<br>External condensate, Smoke Detector |
| **Blue Wires** | **Accessory 1**<br>EAC, Humidifier (Fan assist/ Bypass) Steam Humidifier |
| **Green Wires** | **Accessory 2**<br>EAC, Humidifier (Fan Assist/ Bypass) Steam Humidifier |

The following optional connections are available on the mitigation control board (see connection diagrams Figure 5, p. 22):

- 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.

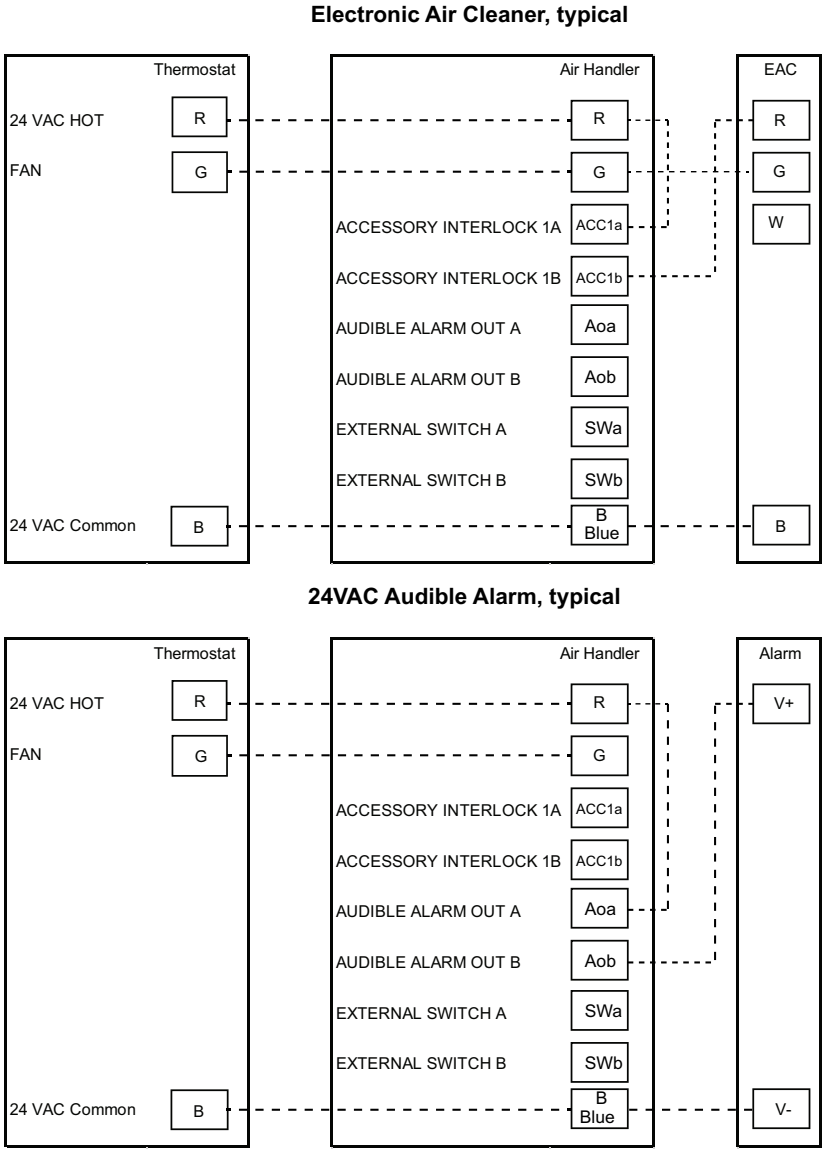
ACC1, ACC2, and Aoa/Aob are dry contacts and need source voltage provided from either the accessory or the unit's control wiring.

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

**Figure 5. Accessories diagram**

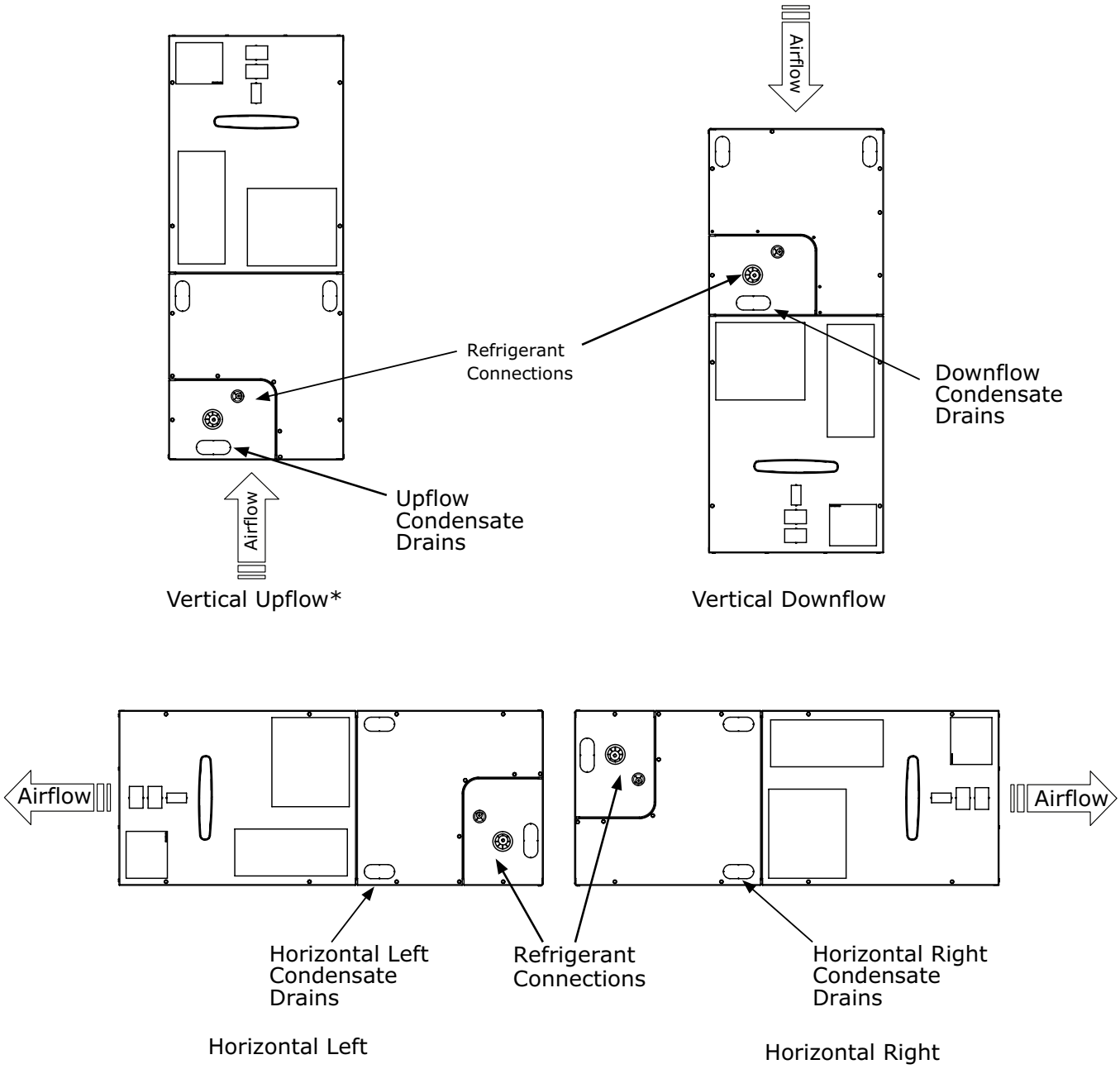
SCAN ME

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



# Unit Convertibility

**Figure 6. Multi-position air handler**




***Note:*** ** = No internal modifications required.*

# Dimensional Data

**Figure 7. Dimensional data**

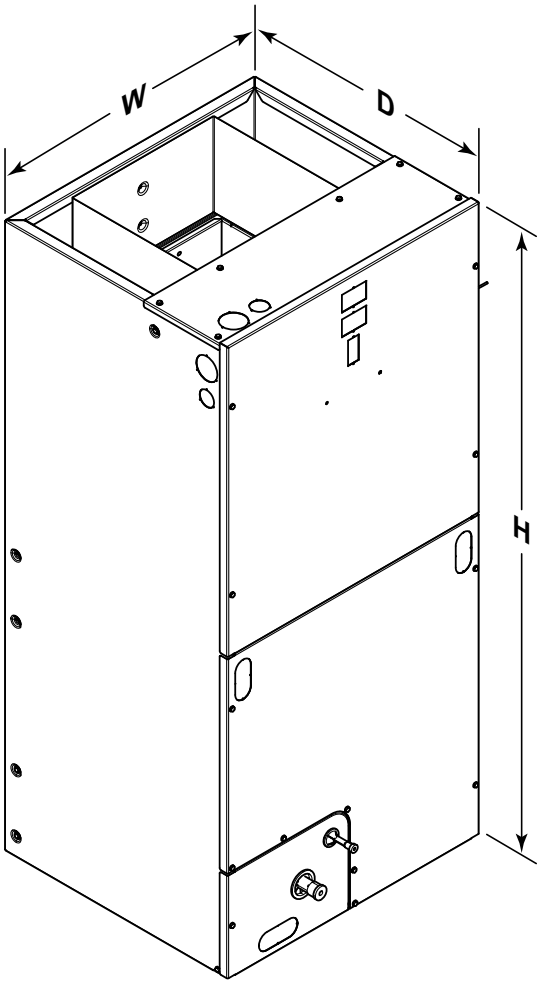
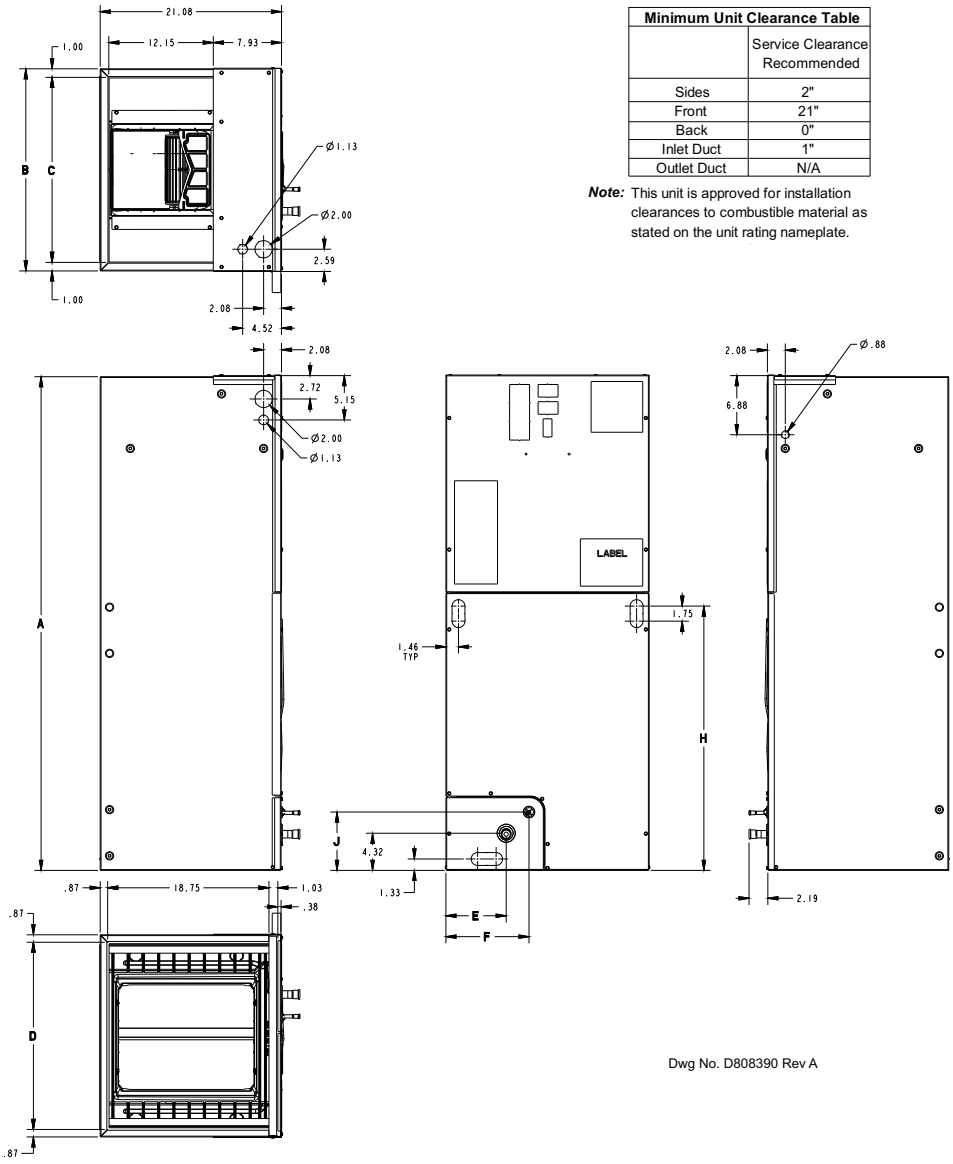



**Table 20. Dimensions (inch)**

| Model No. | H | W | D |
|---|---|---|---|
| 5TEMCB02 | 46.77 | 18.50 | 21.08 |
| 5TEMCB03 | 46.77 | 18.50 | 21.08 |
| 5TEMCD04 | 51.27 | 23.50 | 21.08 |
| 5TEMCD05 | 51.27 | 23.50 | 21.08 |
| 5TEMCD06 | 57.40 | 23.50 | 21.08 |
| 5TEMCD07 | 57.40 | 23.50 | 21.08 |

**Figure 8. Dimensional data**




| 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.

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***Note:*** *All dimensions are reference dimensions.*

**Table 21. Dimensions (inch)**

| Air Handler Model | A | B | C | D | E | F | H | J | Flow Control | Gas Line Braze |
|---|---|---|---|---|---|---|---|---|---|---|
| 5TEMCB02, 03 | 46.77 | 18.50 | 16.50 | 16.75 | 5.43 | 7.08 | 20.07 | 5.76 | TXV | 3/4 |
| 5TEMCD04, 05 | 51.27 | 23.50 | 21.50 | 21.75 | 7.01 | 9.66 | 24.58 | 6.76 | TXV | 7/8 |
| 5TEMCD06, 07 | 57.40 | 23.50 | 21.50 | 21.75 | 7.01 | 9.66 | 30.71 | 6.76 | TXV | 7/8 |

## Notes

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Trane has a policy of continuous data improvement and it reserves the right to change design and specifications without notice. We are committed to using environmentally conscious print practices.

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Supersedes AHR-PSD012A-EN (June 2025)