



## TECHNICAL GUIDE

### SINGLE PIECE ECM AIR HANDLERS

#### FOR USE WITH SPLIT-SYSTEM AIR CONDITIONERS & HEAT PUMPS

#### MODELS: AHV18 THRU 60



Due to continuous product improvement, specifications are subject to change without notice.

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### WARRANTY

Standard 5-year limited parts warranty.

**Extended 10-year limited parts warranty when product is registered online within 90 days of purchase for replacement or closing for new home construction.**

## DESCRIPTION

The AHV Air Handler line offers the ultimate in comfort, sound and application flexibility. This unit may be used for upflow, downflow, horizontal right, or horizontal left applications. No special kits are required to install this deluxe product. 036-21047-001 Rev. A (4/00)

Air handlers are shipped with "Flex-coils" without a factory installed metering device. Flex coil models allow these coils to be used with R-22 or R-410A for added flexibility to meet refrigerant choices. An orifice metering device or a R-410A TXV should be installed in the field to meet your system requirements.

## FEATURES

**Thermostatic Expansion Valve** - Provides the ultimate refrigerant control required for today's high efficient product. The UPG bolt-on TXV provides easy installation to convert the air handler to the required refrigerant, which is a true bolt-on design that does not require brazing to replace or install.

**Rust-proof Plastic Drain Pans** - The vertical and horizontal drain pans in these units are made of a fiberglass reinforced thermoset polymer that will not rust or compromise stability at high temperatures.

**Insulated Cabinet** - All air handler cabinets are thermally insulated with 3/4" foil faced insulation to prevent sweating.

**Factory Sealed** - Achieves 2% or less total airflow leakage rate at duct leakage test conditions for system airflow verification.

**Durable Finish Inside and Out** - Air handler casings are made of pre-painted galvanized steel which provides a better paint to steel bond that resists corrosion and rust creep. All internal coil sheet metal parts are made of G60 galvanized or prepainted G30 galvanized steel.

**Filters** - All models have internal filter racks provided for use with 1" thick standard size filters.

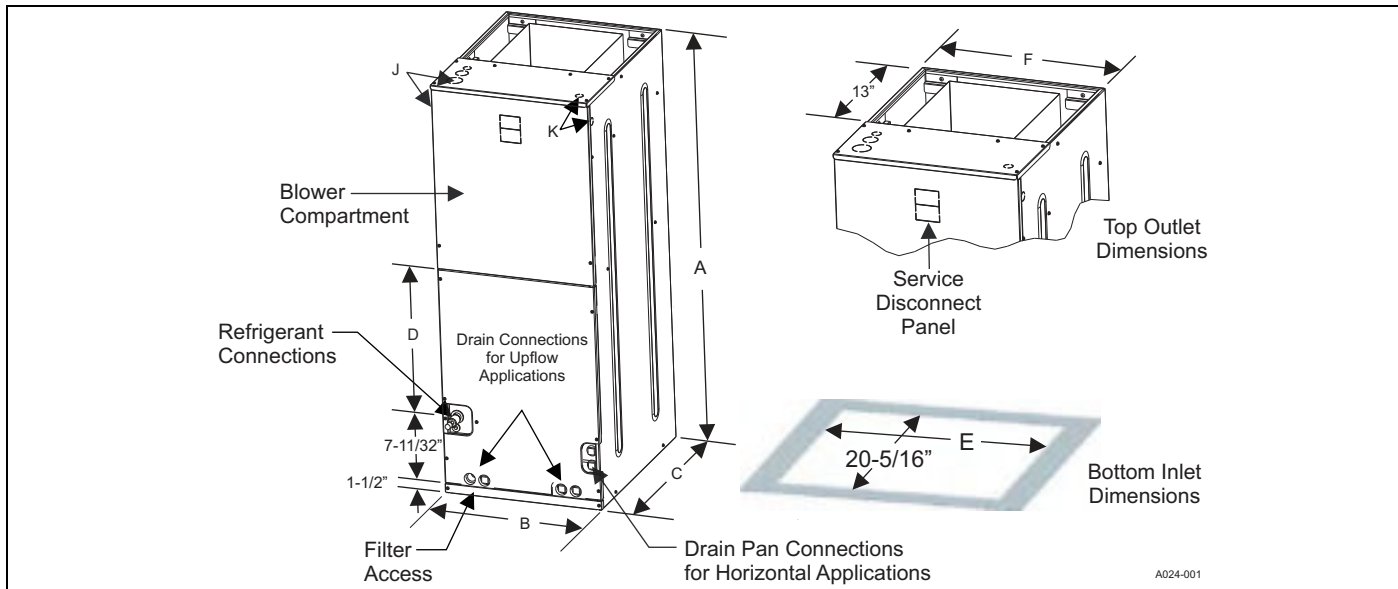
**Electric Heat Kits** - The 6HK series of field installed electric heat kits are available for installation friendly and easy service applications. These 6HK kits have heat capacities from 2 kW to 25 kW to meet the application requirements.

**ECM Variable Speed Motor** - Designed for efficient, quiet operation with added indoor comfort control. With the use of a humidistat, the system will monitor the humidity in the home and automatically keep the desired humidity level in both winter and summer seasons. The ECM motor utilizes only 24% of the energy used by standard blower motors to reduce your overall heating and cooling costs.

The climate comfort system allows dealer to customize comfort settings based on regional location.

**Communications** - These models may be connected as part of a communications system using a 4-wire connection bus.

## DIMENSIONS & DUCT CONNECTION DIMENSIONS



### Dimensions

| Models          | Dimensions |         |         |         |           |         | Wiring Knockouts                                            |             | Refrigerant Connections Line Size |       |
|-----------------|------------|---------|---------|---------|-----------|---------|-------------------------------------------------------------|-------------|-----------------------------------|-------|
|                 | A          | B       | C       | D       | E         | F       | J                                                           | K           | Liquid                            | Vapor |
|                 | Height     | Width   | Depth   |         |           |         | Power                                                       | Control     |                                   |       |
| AHV18B3X(H,T)21 | 46"        | 17 1/2" | 21 1/2" | 16 1/2" | 13-29/32" | 16 1/2" | 7/8" (1/2") <sup>1</sup><br>1-3/8"(1")<br>1-23/32" (1-1/4") | 7/8" (1/2") | 3/8"                              | 3/4"  |
| AHV24B3X(H,T)21 | 46"        | 17 1/2" |         | 16 1/2" | 13-29/32" | 16 1/2" |                                                             |             |                                   |       |
| AHV30B3X(H,T)21 | 46"        | 17 1/2" |         | 16 1/2" | 13-29/32" | 16 1/2" |                                                             |             |                                   |       |
| AHV36C3X(H,T)21 | 52"        | 21"     |         | 21 1/2" | 17-13/32" | 20"     |                                                             |             |                                   |       |
| AHV42D3X(H,T)21 | 57"        | 24 1/2" |         | 26"     | 20-29/32" | 23-1/2" |                                                             |             |                                   | 7/8"  |
| AHV48D3X(H,T)21 | 57"        | 24 1/2" |         | 26"     | 20-29/32" | 23-1/2" |                                                             |             |                                   |       |
| AHV60D3X(H,T)21 | 57"        | 24 1/2" |         | 26"     | 20-29/32" | 23-1/2" |                                                             |             |                                   |       |

1. Actual size (Conduit size).

### COIL TECHNICAL DATA

| Models          | Application        | Refrig. Conn. Types | Face Area (Sq. Ft.) | Rows Deep | Fins Per In. | Coil Size     | Tube Geometry | Tube Dia. | Fin Type |
|-----------------|--------------------|---------------------|---------------------|-----------|--------------|---------------|---------------|-----------|----------|
| AHV18B3X(H,T)21 | Cooling /Heat Pump | Sweat               | 3.4                 | 2         | 14           | (2) 14 x 17.5 | 1 x 0.866     | 3/8       | Enhanced |
| AHV24B3X(H,T)21 | Cooling /Heat Pump | Sweat               | 3.9                 | 3         | 12           | (2) 16 x 17.5 | 1 x 0.866     | 3/8       | Enhanced |
| AHV30B3X(H,T)21 | Cooling /Heat Pump | Sweat               | 3.9                 | 3         | 12           | (2) 16 x 17.5 | 1 x 0.866     | 3/8       | Enhanced |
| AHV36C3X(H,T)21 | Cooling /Heat Pump | Sweat               | 4.9                 | 3         | 12           | (2) 20 x 17.5 | 1 x 0.866     | 3/8       | Enhanced |
| AHV42D3X(H,T)21 | Cooling /Heat Pump | Sweat               | 5.4                 | 3         | 12           | (2) 22 x 17.5 | 1 x 0.866     | 3/8       | Enhanced |
| AHV48D3X(H,T)21 | Cooling /Heat Pump | Sweat               | 5.8                 | 3         | 11           | (2) 24 x 17.5 | 1 x 0.866     | 3/8       | Enhanced |
| AHV60D3X(H,T)21 | Cooling /Heat Pump | Sweat               | 6.8                 | 3         | 12           | (2) 28 x 17.5 | 1 x 0.866     | 3/8       | Enhanced |

**COOLING CAPACITY<sup>1</sup>**

| Models | Rated CFM <sup>2</sup> | Entering Air<br>Dry/Wet Bulb (°F) | MBH@ Evap. Temp. and Corresponding R-410A Pressure (°F/PSIG) |          |          |          |
|--------|------------------------|-----------------------------------|--------------------------------------------------------------|----------|----------|----------|
|        |                        |                                   | 35/107.9                                                     | 40/118.9 | 45/130.7 | 50/143.3 |
| AHV18B | 610                    | 85/72                             | 37.9                                                         | 33.7     | 28.3     | 23.3     |
|        |                        | 80/67                             | 31.8                                                         | 27       | 22.5     | 17.6     |
|        |                        | 75/62                             | 26.4                                                         | 21.5     | 16.7     | 11.6     |
|        |                        | 70/57                             | 20.7                                                         | 18.4     | 15.8     | 13.5     |
|        | 850                    | 85/72                             | 49.7                                                         | 43.2     | 36.9     | 28.4     |
|        |                        | 80/67                             | 42.1                                                         | 35.1     | 28.8     | 22.5     |
|        |                        | 75/62                             | 33.7                                                         | 28       | 21.4     | 14.7     |
|        |                        | 70/57                             | 26.5                                                         | 23.8     | 20.3     | 16.9     |
| AHV24B | 585                    | 85/72                             | 38.7                                                         | 34.4     | 30.1     | 24.7     |
|        |                        | 80/67                             | 33.6                                                         | 28.9     | 23.9     | 18.9     |
|        |                        | 75/62                             | 27.2                                                         | 22.7     | 17.8     | 12.8     |
|        |                        | 70/57                             | 21.2                                                         | 18.6     | 16.2     | 13.7     |
|        | 795                    | 85/72                             | 50.8                                                         | 45.2     | 38.4     | 32.0     |
|        |                        | 80/67                             | 43.7                                                         | 36.8     | 31       | 24.0     |
|        |                        | 75/62                             | 35.7                                                         | 29.5     | 23.1     | 16.1     |
|        |                        | 70/57                             | 27.9                                                         | 24.5     | 21       | 17.6     |
|        | 985                    | 85/72                             | 64.9                                                         | 54       | 45.6     | 37.8     |
|        |                        | 80/67                             | 52.3                                                         | 44.6     | 36.9     | 28.4     |
|        |                        | 75/62                             | 42.2                                                         | 35.2     | 26.8     | 19.3     |
|        |                        | 70/57                             | 33.6                                                         | 29.6     | 25.4     | 21.4     |
| AHV30B | 585                    | 85/72                             | 38.7                                                         | 34.4     | 30.1     | 24.7     |
|        |                        | 80/67                             | 33.6                                                         | 28.9     | 23.9     | 18.9     |
|        |                        | 75/62                             | 27.2                                                         | 22.7     | 17.8     | 12.8     |
|        |                        | 70/57                             | 21.2                                                         | 18.6     | 16.2     | 13.7     |
|        | 795                    | 85/72                             | 50.8                                                         | 45.2     | 38.4     | 32.0     |
|        |                        | 80/67                             | 43.7                                                         | 36.8     | 31       | 24.0     |
|        |                        | 75/62                             | 35.7                                                         | 29.5     | 23.1     | 16.1     |
|        |                        | 70/57                             | 27.9                                                         | 24.5     | 21       | 17.6     |
|        | 985                    | 85/72                             | 64.9                                                         | 54       | 45.6     | 37.8     |
|        |                        | 80/67                             | 52.3                                                         | 44.6     | 36.9     | 28.4     |
|        |                        | 75/62                             | 42.2                                                         | 35.2     | 26.8     | 19.3     |
|        |                        | 70/57                             | 33.6                                                         | 29.6     | 25.4     | 21.4     |
| AHV36C | 730                    | 85/72                             | 49.3                                                         | 45.2     | 38.3     | 31.4     |
|        |                        | 80/67                             | 43                                                           | 37.3     | 31       | 24.0     |
|        |                        | 75/62                             | 34.7                                                         | 28.8     | 22.8     | 16.2     |
|        |                        | 70/57                             | 26.8                                                         | 23.4     | 20.4     | 16.9     |
|        | 855                    | 85/72                             | 59.1                                                         | 51       | 44.1     | 36.5     |
|        |                        | 80/67                             | 49.3                                                         | 42.4     | 35.4     | 27.6     |
|        |                        | 75/62                             | 39.9                                                         | 33.1     | 26.1     | 18.2     |
|        |                        | 70/57                             | 31.1                                                         | 26.9     | 23.5     | 19.7     |
|        | 1000                   | 85/72                             | 65.2                                                         | 59.5     | 51.2     | 41.3     |
|        |                        | 80/67                             | 56.4                                                         | 48.3     | 39.9     | 31.3     |
|        |                        | 75/62                             | 45.8                                                         | 38.1     | 29.7     | 20.8     |
|        |                        | 70/57                             | 35.7                                                         | 31.2     | 26.9     | 22.6     |
|        | 1190                   | 85/72                             | 67.5                                                         | 65.9     | 59.8     | 48.7     |
|        |                        | 80/67                             | 64.9                                                         | 56.7     | 46.2     | 35.7     |
|        |                        | 75/62                             | 53.5                                                         | 43.2     | 34.1     | 24.0     |
|        |                        | 70/57                             | 41.4                                                         | 36.6     | 31.5     | 26.2     |

For notes see Page 4.

**COOLING CAPACITY<sup>1</sup>** (Continued)

| Models | Rated CFM <sup>2</sup> | Entering Air<br>Dry/Wet Bulb (°F) | MBH@ Evap. Temp. and Corresponding R-410A Pressure (°F/PSIG) |          |          |          |
|--------|------------------------|-----------------------------------|--------------------------------------------------------------|----------|----------|----------|
|        |                        |                                   | 35/107.9                                                     | 40/118.9 | 45/130.7 | 50/143.3 |
| AHV42D | 820                    | 85/72                             | 56.6                                                         | 51.1     | 42.8     | 35.6     |
|        |                        | 80/67                             | 48.6                                                         | 41.1     | 34.8     | 27.6     |
|        |                        | 75/62                             | 39.4                                                         | 33       | 26       | 18.3     |
|        |                        | 70/57                             | 30.5                                                         | 26.6     | 23.1     | 19.6     |
|        | 1000                   | 85/72                             | 65.7                                                         | 61       | 52.7     | 42.9     |
|        |                        | 80/67                             | 58                                                           | 49.6     | 41.1     | 32.1     |
|        |                        | 75/62                             | 46.7                                                         | 38.9     | 30.4     | 21.8     |
|        |                        | 70/57                             | 36.4                                                         | 31.6     | 27.6     | 23.3     |
|        | 1180                   | 85/72                             | 67.9                                                         | 71.4     | 60.2     | 48.8     |
|        |                        | 80/67                             | 65.6                                                         | 56.9     | 47.1     | 37.1     |
|        |                        | 75/62                             | 53.8                                                         | 45.2     | 34.7     | 24.6     |
|        |                        | 70/57                             | 42.2                                                         | 37.1     | 31.9     | 27.0     |
|        | 1385                   | 85/72                             | 69.4                                                         | 81       | 68       | 57.2     |
|        |                        | 80/67                             | 77.1                                                         | 65.4     | 54.1     | 41.6     |
|        |                        | 75/62                             | 62.1                                                         | 51       | 39.8     | 28.1     |
|        |                        | 70/57                             | 48.1                                                         | 42.5     | 36.8     | 30.6     |
| AHV48D | 1000                   | 85/72                             | 69                                                           | 59.8     | 51.3     | 41.5     |
|        |                        | 80/67                             | 56.5                                                         | 48.2     | 39.7     | 29.9     |
|        |                        | 75/62                             | 45.1                                                         | 36.8     | 28.3     | 18.9     |
|        |                        | 70/57                             | 34.4                                                         | 31       | 26.8     | 22.5     |
|        | 1195                   | 85/72                             | 79.5                                                         | 69.7     | 59.9     | 48.6     |
|        |                        | 80/67                             | 65.2                                                         | 55.5     | 45.5     | 34.9     |
|        |                        | 75/62                             | 52.2                                                         | 42.5     | 32.6     | 21.8     |
|        |                        | 70/57                             | 40.1                                                         | 36.1     | 31.1     | 26.2     |
|        | 1385                   | 85/72                             | 90                                                           | 78.1     | 66       | 54.5     |
|        |                        | 80/67                             | 73.5                                                         | 62.7     | 51.3     | 38.7     |
|        |                        | 75/62                             | 59.2                                                         | 48.2     | 36.9     | 24.0     |
|        |                        | 70/57                             | 45.2                                                         | 41       | 35.4     | 29.7     |
|        | 1600                   | 85/72                             | 102.2                                                        | 90       | 74.3     | 60.4     |
|        |                        | 80/67                             | 83.6                                                         | 70.6     | 57.2     | 43.1     |
|        |                        | 75/62                             | 66.1                                                         | 54       | 41.2     | 27.0     |
|        |                        | 70/57                             | 50.7                                                         | 46.1     | 39.8     | 33.4     |
| AHV60D | 1190                   | 85/72                             | 83.6                                                         | 73.7     | 62.9     | 51.6     |
|        |                        | 80/67                             | 68.2                                                         | 58.4     | 48.4     | 37.1     |
|        |                        | 75/62                             | 54.9                                                         | 45.3     | 34.8     | 23.9     |
|        |                        | 70/57                             | 42.2                                                         | 37.3     | 31.9     | 26.9     |
|        | 1390                   | 85/72                             | 95.9                                                         | 84.1     | 71.9     | 58.8     |
|        |                        | 80/67                             | 79.2                                                         | 67.4     | 54.4     | 41.6     |
|        |                        | 75/62                             | 62.4                                                         | 51.2     | 39.7     | 26.9     |
|        |                        | 70/57                             | 48                                                           | 42.5     | 36.8     | 30.6     |
|        | 1565                   | 85/72                             | 106.3                                                        | 94.2     | 78.5     | 63.5     |
|        |                        | 80/67                             | 87.6                                                         | 73.9     | 60.2     | 45.9     |
|        |                        | 75/62                             | 69.3                                                         | 56.8     | 43.5     | 29.7     |
|        |                        | 70/57                             | 53.1                                                         | 46.9     | 40.5     | 34.1     |
|        | 1835                   | 85/72                             | 122.1                                                        | 107.1    | 90.9     | 72.6     |
|        |                        | 80/67                             | 100.2                                                        | 85.9     | 69.8     | 51.8     |
|        |                        | 75/62                             | 79.7                                                         | 65.3     | 49.8     | 32.9     |
|        |                        | 70/57                             | 60.8                                                         | 54.1     | 46.4     | 38.7     |

1. Actual capacity varies with the outdoor AC or HP that is used with the system.

2. Airflow is calculated for each system tonnage.

**APPLICATION FACTORS - RATED CFM VS. ACTUAL CFM**

| % Of Rated Airflow (CFM) | 80%  | 90%  | 100% | 110% | 120% |
|--------------------------|------|------|------|------|------|
| Capacity Factor          | 0.96 | 0.98 | 1.00 | 1.02 | 1.03 |

**PHYSICAL & ELECTRICAL DATA - COOLING ONLY**

| ECM MODELS                         |                    |                         |             |             |             |             |             |             |
|------------------------------------|--------------------|-------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Models                             |                    | AHV18B                  | AHV24B      | AHV30B      | AHV36C      | AHV42D      | AHV48D      | AHV60D      |
| Blower - Diameter x Width          |                    | 10 x 8                  | 10 x 8      | 10 x 8      | 11 x 10     | 11 x 10     | 11 x 10     | 11 x 10     |
| Motor                              | HP                 | 1/3 HP                  | 1/3 HP      | 1/3 HP      | 1/2 HP      | 1/2 HP      | 3/4 HP      | 3/4 HP      |
|                                    | Nominal RPM        | 1050                    | 1050        | 1050        | 1050        | 1050        | 1050        | 1050        |
| Voltage                            |                    | 208/230                 | 208/230     | 208/230     | 208/230     | 208/230     | 208/230     | 208/230     |
| Full Load Amps @230V               |                    | 2.3                     | 2.3         | 2.3         | 3.2         | 3.2         | 4.9         | 4.9         |
| Filter <sup>1</sup>                | Type               | DISPOSABLE OR PERMANENT |             |             |             |             |             |             |
|                                    | Size               | 16 x 20 x 1             | 16 x 20 x 1 | 16 x 20 x 1 | 20 x 20 x 1 | 22 x 20 x 1 | 22 x 20 x 1 | 22 x 20 x 1 |
|                                    | Permanent Type Kit | 1PF0601BK               | 1PF0601BK   | 1PF0601BK   | 1PF0602BK   | 1PF0603BK   | 1PF0603BK   | 1PF0603BK   |
| Shipping / Operating Weight (lbs.) |                    | 116/104                 | 121/106     | 121/106     | 153/138     | 169/151     | 172/154     | 175/157     |

1. Field supplied.

**KW & MBH CONVERSIONS - FOR TOTAL POWER INPUT REQUIREMENT**

For a power distribution voltage that is different than the provided nominal voltage, multiply the kW and MBH data from the table by the conversion factor in the following table.

| DISTRIBUTION POWER | NOMINAL VOLTAGE | CONVERSION FACTOR |
|--------------------|-----------------|-------------------|
| 208V               | 240V            | 0.75              |
| 220V               | 240V            | 0.84              |
| 230V               | 240V            | 0.92              |

**ELECTRICAL DATA - COOLING ONLY**

| Models                 | Motor FLA <sup>1</sup> |      | Minimum Circuit Ampacity |      | MOP <sup>2</sup> | Minimum Wire Size (AWG) <sup>3</sup> |
|------------------------|------------------------|------|--------------------------|------|------------------|--------------------------------------|
|                        | 208V                   | 230V | 208V                     | 230V |                  |                                      |
| AHV18B, AHV24B, AHV30B | 2.7                    | 2.3  | 3.4                      | 2.9  | 15               | 14                                   |
| AHV36C, AHV42D         | 3.6                    | 3.2  | 4.5                      | 4.0  | 15               | 14                                   |
| AHV48D, AHV60D         | 5.3                    | 4.9  | 6.6                      | 6.1  | 15               | 14                                   |

1. FLA = Full Load Amps.

2. MOP = Maximum Overcurrent Protection device; must be HACR type circuit breaker or time delay fuse.

3. 75°C, copper wire only. If wire other than non-plated, 75°C ambient, copper wire is used, consult applicable tables of the NEC and local codes..

**ELECTRICAL HEAT: MINIMUM FAN SPEED<sup>1</sup>**

| Heater Kit Models <sup>2,3</sup> | Nom. kW @240V | Air Handler Models |             |             |              |              |         |         |
|----------------------------------|---------------|--------------------|-------------|-------------|--------------|--------------|---------|---------|
|                                  |               | AHV18B             | AHV24B      | AHV30B      | AHV36C       | AHV42D       | AHV48D  | AHV60D  |
| 6HK(0,1)6500206                  | 2.4kW         | Low (D)            | Low (D)     | Low (D)     | Low (D)      | Low (D)      | Low (D) | Low (D) |
| 6HK(0,1)6500506                  | 4.8kW         | Low (D)            | Low (D)     | Low (D)     | Low (D)      | Low (D)      | Low (D) | Low (D) |
| 6HK(0,1)6500806                  | 7.7kW         | Med-Low (C)        | Low (D)     | Low (D)     | Low (D)      | Low (D)      | Low (D) | Low (D) |
| 6HK(0,1)6501006<br>6HK06501025   | 9.6kW         | Med-Low (C)        | Low (D)     | Low (D)     | Low (D)      | Low (D)      | Low (D) | Low (D) |
| 6HK(1,2)6501306                  | 12.5kW        | -                  | Med-Low (C) | Med-Low (C) | Low (D)      | Low (D)      | Low (D) | Low (D) |
| 6HK(1,2)6501506<br>6HK06501525   | 14.4kW        | -                  | Med-Low (C) | Med-Low (C) | Med-Low (C)  | Low (D)      | Low (D) | Low (D) |
| 6HK(1,2)6501806<br>6HK06501825   | 17.3kW        | -                  | -           | -           | Med-Low (C)  | Med-Low (C)  | Low (D) | Low (D) |
| 6HK(1,2)6502006<br>6HK16502025   | 19.2kW        | -                  | -           | -           | Med-High (B) | Med-High (B) | Low (D) | Low (D) |
| 6HK(1,2)6502506<br>6HK16502525   | 24kW          | -                  | -           | -           | -            | -            | -       | Low (D) |

1. The referenced letter in this table is for the heat jumper tap.

2. (0,1) - 0 = no circuit breaker OR 1 = with circuit breaker.

3. (1,2) - 1 = with circuit breaker, no breaker jumper bar OR 2 = with circuit breaker &amp; breaker jumper bar.

**ELECTRIC HEAT PERFORMANCE DATA: 208/230-1-60 & 208/230-3-60**

| Heater Models <sup>1,2</sup> |                 | Nominal kW @240V | Total Heat <sup>3</sup> |      |      |      | kW Staging |      |         |      |
|------------------------------|-----------------|------------------|-------------------------|------|------|------|------------|------|---------|------|
|                              |                 |                  | kW                      |      | MBH  |      | W1 Only    |      | W1 + W2 |      |
|                              |                 |                  | 208V                    | 230V | 208V | 230V | 208V       | 230V | 208V    | 230V |
| 1PH                          | 6HK(0,1)6500206 | 2.4              | 1.8                     | 2.2  | 6.2  | 7.5  | 1.8        | 2.2  | 1.8     | 2.2  |
|                              | 6HK(0,1)6500506 | 4.8              | 3.6                     | 4.4  | 12.3 | 15.0 | 3.6        | 4.4  | 3.6     | 4.4  |
|                              | 6HK(0,1)6500806 | 7.7              | 5.8                     | 7.1  | 19.7 | 24.1 | 5.8        | 7.1  | 5.8     | 7.1  |
|                              | 6HK(0,1)6501006 | 9.6              | 7.2                     | 8.8  | 24.6 | 30.1 | 7.2        | 8.8  | 7.2     | 8.8  |
|                              | 6HK(1,2)6501306 | 12.5             | 9.4                     | 11.5 | 32.0 | 39.2 | 3.1        | 3.8  | 9.4     | 11.5 |
|                              | 6HK(1,2)6501506 | 14.4             | 10.8                    | 13.2 | 36.9 | 45.1 | 3.6        | 4.4  | 10.8    | 13.2 |
|                              | 6HK(1,2)6501806 | 17.3             | 13.0                    | 15.9 | 44.3 | 54.2 | 6.5        | 7.9  | 13.0    | 15.9 |
|                              | 6HK(1,2)6502006 | 19.2             | 14.4                    | 17.6 | 49.2 | 60.2 | 7.2        | 8.8  | 14.4    | 17.6 |
| 3PH                          | 6HK(1,2)6502506 | 24.0             | 18.0                    | 22.0 | 61.5 | 75.2 | 7.2        | 8.8  | 18.0    | 22.0 |
|                              | 6HK06501025     | 9.6              | 7.2                     | 8.8  | 24.6 | 30.1 | 7.2        | 8.8  | 7.2     | 8.8  |
|                              | 6HK06501525     | 14.4             | 10.8                    | 13.2 | 36.9 | 45.1 | 10.8       | 13.2 | 10.8    | 13.2 |
|                              | 6HK06501825     | 17.3             | 13.0                    | 15.9 | 44.3 | 54.2 | 13.0       | 15.9 | 13.0    | 15.9 |
|                              | 6HK16502025     | 19.2             | 14.4                    | 17.6 | 49.2 | 60.2 | 7.2        | 8.8  | 14.4    | 17.6 |
|                              | 6HK16502525     | 24.0             | 18.0                    | 22.0 | 61.5 | 75.2 | 9.0        | 11.0 | 18.0    | 22.0 |

1. (0,1) - 0 = no circuit breaker OR 1 = with circuit breaker.

2. (1,2) - 1 = with circuit breaker, no breaker jumper bar OR 2 = with circuit breaker &amp; breaker jumper bar.

3. For different power distributions, see conversion table on Page 5.

**ELECTRICAL DATA FOR SINGLE SOURCE POWER SUPPLY - 208/230-1-60**

| Air Handler Models | Heater Models <sup>1,2</sup> | Heater Amps @240V | Field Wiring          |       |                   |      |                                  |      |
|--------------------|------------------------------|-------------------|-----------------------|-------|-------------------|------|----------------------------------|------|
|                    |                              |                   | Min. Circuit Ampacity |       | MOP. <sup>3</sup> |      | Min Wire Size (AWG) <sup>4</sup> |      |
|                    |                              |                   | 208V                  | 230V  | 208V              | 230V | 208V                             | 230V |
| AHV18B             | 6HK(0,1)6500206              | 10.0              | 14.2                  | 15.4  | 15                | 20   | 12                               | 12   |
|                    | 6HK(0,1)6500506              | 20.0              | 25.0                  | 27.9  | 30                | 30   | 10                               | 10   |
|                    | 6HK(0,1)6500806              | 32.0              | 38.0                  | 42.9  | 40                | 45   | 8                                | 8    |
|                    | 6HK(0,1)6501006              | 40.0              | 46.7                  | 52.9  | 50                | 60   | 8                                | 6    |
| AHV24B<br>AHV30B   | 6HK(0,1)6500206              | 10.0              | 14.2                  | 15.4  | 15                | 20   | 12                               | 12   |
|                    | 6HK(0,1)6500506              | 20.0              | 25.0                  | 27.9  | 30                | 30   | 10                               | 10   |
|                    | 6HK(0,1)6500806              | 32.0              | 38.0                  | 42.9  | 40                | 45   | 8                                | 8    |
|                    | 6HK(0,1)6501006              | 40.0              | 46.7                  | 52.9  | 50                | 60   | 8                                | 6    |
|                    | 6HK(1,2)6501306              | 52.0              | 59.7                  | 67.9  | 60                | 70   | 6                                | 4    |
|                    | 6HK(1,2)6501506              | 60.0              | 68.4                  | 77.9  | 70                | 80   | 4                                | 4    |
| AHV36C<br>AHV42D   | 6HK(0,1)6500206              | 10.0              | 15.3                  | 16.5  | 20                | 20   | 12                               | 12   |
|                    | 6HK(0,1)6500506              | 20.0              | 26.2                  | 29.0  | 30                | 30   | 10                               | 10   |
|                    | 6HK(0,1)6500806              | 32.0              | 39.2                  | 44.0  | 40                | 45   | 8                                | 8    |
|                    | 6HK(0,1)6501006              | 40.0              | 47.8                  | 54.0  | 50                | 60   | 8                                | 6    |
|                    | 6HK(1,2)6501306              | 52.0              | 60.8                  | 69.0  | 70                | 70   | 6                                | 4    |
|                    | 6HK(1,2)6501506              | 60.0              | 69.5                  | 79.0  | 70                | 80   | 4                                | 4    |
|                    | 6HK(1,2)6501806              | 72.0              | 82.5                  | 94.0  | 90                | 100  | 3                                | 3    |
|                    | 6HK(1,2)6502006              | 80.0              | 91.2                  | 104.0 | 100               | 110  | 3                                | 3    |
| AHV48D             | 6HK(0,1)6500206              | 10.0              | 17.5                  | 18.6  | 20                | 20   | 12                               | 12   |
|                    | 6HK(0,1)6500506              | 20.0              | 28.3                  | 31.1  | 30                | 35   | 10                               | 8    |
|                    | 6HK(0,1)6500806              | 32.0              | 41.3                  | 46.1  | 45                | 50   | 8                                | 8    |
|                    | 6HK(0,1)6501006              | 40.0              | 50.0                  | 56.1  | 50                | 60   | 8                                | 6    |
|                    | 6HK(1,2)6501306              | 52.0              | 63.0                  | 71.1  | 70                | 80   | 6                                | 4    |
|                    | 6HK(1,2)6501506              | 60.0              | 71.6                  | 81.1  | 80                | 90   | 4                                | 4    |
|                    | 6HK(1,2)6501806              | 72.0              | 84.6                  | 96.1  | 90                | 100  | 4                                | 3    |
|                    | 6HK(1,2)6502006              | 80.0              | 93.3                  | 106.1 | 100               | 110  | 3                                | 2    |

For notes see Page 7.

**ELECTRICAL DATA FOR SINGLE SOURCE POWER SUPPLY - 208/230-1-60**

| Air Handler Models | Heater Models <sup>1,2</sup> | Heater Amps @240V | Field Wiring          |       |                   |      |                                  |      |
|--------------------|------------------------------|-------------------|-----------------------|-------|-------------------|------|----------------------------------|------|
|                    |                              |                   | Min. Circuit Ampacity |       | MOP. <sup>3</sup> |      | Min Wire Size (AWG) <sup>4</sup> |      |
|                    |                              |                   | 208V                  | 230V  | 208V              | 230V | 208V                             | 230V |
| AHV60D             | 6HK(0,1)6500206              | 10.0              | 17.5                  | 18.6  | 20                | 20   | 12                               | 12   |
|                    | 6HK(0,1)6500506              | 20.0              | 28.3                  | 31.1  | 30                | 35   | 10                               | 8    |
|                    | 6HK(0,1)6500806              | 32.0              | 41.3                  | 46.1  | 45                | 50   | 8                                | 8    |
|                    | 6HK(0,1)6501006              | 40.0              | 50.0                  | 56.1  | 50                | 60   | 8                                | 6    |
|                    | 6HK(1,2)6501306              | 52.0              | 63.0                  | 71.1  | 70                | 80   | 6                                | 4    |
|                    | 6HK(1,2)6501506              | 60.0              | 71.6                  | 81.1  | 80                | 90   | 4                                | 4    |
|                    | 6HK(1,2)6501806              | 72.0              | 84.6                  | 96.1  | 90                | 100  | 4                                | 3    |
|                    | 6HK(1,2)6502006              | 80.0              | 93.3                  | 106.1 | 100               | 110  | 3                                | 2    |
|                    | 6HK(1,2)6502506              | 100.0             | 115.0                 | 131.1 | 125               | 150  | 2                                | 1/0  |

1. (0,1) - 0 = no circuit breaker OR 1 = with circuit breaker.

2. (1,2) - 1 = with circuit breaker, no breaker jumper bar OR 2 = with circuit breaker & breaker jumper bar.

3. MOP = Maximum Overcurrent Protection device; must be HACR type circuit breaker or time delay fuse.

4. Stated sizes are for 75°C, copper wire only. If wire other than non-plated, 75°C ambient, copper wire is used, consult applicable tables of the NEC and local codes.

**ELECTRICAL DATA FOR SINGLE SOURCE POWER SUPPLY - 208/230-3-60**

| Air Handler Models | Heater Models            | Heater Amps @ 240V | Field Wiring          |      |                  |      |                                   |      |
|--------------------|--------------------------|--------------------|-----------------------|------|------------------|------|-----------------------------------|------|
|                    |                          |                    | Min. Circuit Ampacity |      | MOP <sup>1</sup> |      | Min. Wire Size (AWG) <sup>2</sup> |      |
|                    |                          |                    | 208V                  | 230V | 208V             | 230V | 208V                              | 230V |
| AHV24B<br>AHV30B   | 6HK06501025              | 23.1               | 28.4                  | 31.8 | 30               | 35   | 10                                | 8    |
|                    | 6HK06501525              | 34.6               | 40.9                  | 46.1 | 45               | 50   | 8                                 | 8    |
| AHV36C<br>AHV42D   | 6HK06501025              | 23.1               | 29.5                  | 32.9 | 30               | 35   | 10                                | 8    |
|                    | 6HK06501525              | 34.6               | 42.0                  | 47.3 | 45               | 50   | 8                                 | 8    |
|                    | 6HK06501825              | 41.6               | 49.6                  | 56.0 | 50               | 60   | 8                                 | 6    |
|                    | 6HK16502025 <sup>3</sup> | 46.2               | 54.6                  | 61.8 | 60               | 70   | 6                                 | 6    |
| AHV48D             | 6HK06501025              | 23.1               | 31.7                  | 35.0 | 35               | 35   | 8                                 | 8    |
|                    | 6HK06501525              | 34.6               | 44.1                  | 49.4 | 45               | 50   | 8                                 | 8    |
|                    | 6HK06501825              | 41.6               | 51.7                  | 58.1 | 60               | 60   | 6                                 | 6    |
|                    | 6HK16502025 <sup>3</sup> | 46.2               | 56.7                  | 63.9 | 60               | 70   | 6                                 | 6    |
| AHV60D             | 6HK06501025              | 23.1               | 31.7                  | 35.0 | 35               | 35   | 8                                 | 8    |
|                    | 6HK06501525              | 34.6               | 44.1                  | 49.4 | 45               | 50   | 8                                 | 8    |
|                    | 6HK06501825              | 41.6               | 51.7                  | 58.1 | 60               | 60   | 6                                 | 6    |
|                    | 6HK16502025 <sup>3</sup> | 46.2               | 56.7                  | 63.9 | 60               | 70   | 6                                 | 6    |
|                    | 6HK16502525 <sup>3</sup> | 57.7               | 69.1                  | 78.3 | 70               | 80   | 4                                 | 4    |

1. MOP = Maximum Overcurrent Protection device; must be HACR type circuit breaker or time delay fuse.

2. Stated sizes are for 75°C, copper wire only. If wire other than non-plated, 75°C ambient, copper wire is used, consult applicable tables of the NEC and local codes..

3. The 20kW and 25kW heater models (6HK16502025 and 6HK16502525) come with circuit breakers standard. Single source power MCA and MOP requirements are given here only for reference if used with field installed single point power modification.

**ELECTRICAL DATA FOR MULTI-SOURCE POWER SUPPLY: 208/230-1-60**

| Air<br>Handlers<br>Models | Heater<br>Models | Total<br>Heater<br>Amps<br>@240<br>V | Min. Circuit Ampacity |      |      |                  |      |      | MOP <sup>1</sup> |     |     |                  |     |     | Min. Wire Size (AWG) <sup>2</sup> |     |     |                  |     |     |
|---------------------------|------------------|--------------------------------------|-----------------------|------|------|------------------|------|------|------------------|-----|-----|------------------|-----|-----|-----------------------------------|-----|-----|------------------|-----|-----|
|                           |                  |                                      | 208V                  |      |      | 230V             |      |      | 208V             |     |     | 230V             |     |     | 208V                              |     |     | 230V             |     |     |
|                           |                  |                                      | Circuit               |      |      |                  |      |      | Circuit          |     |     |                  |     |     | Circuit                           |     |     |                  |     |     |
|                           |                  |                                      | 1st <sup>3</sup>      | 2nd  | 3rd  | 1st <sup>3</sup> | 2nd  | 3rd  | 1st <sup>3</sup> | 2nd | 3rd | 1st <sup>3</sup> | 2nd | 3rd | 1st <sup>3</sup>                  | 2nd | 3rd | 1st <sup>3</sup> | 2nd | 3rd |
| AHV24B                    | 6HK16501306      | 52.0                                 | 22.2                  | 37.6 | —    | 24.6             | 43.3 | —    | 25               | 40  | —   | 25               | 45  | —   | 10                                | 8   | —   | 10               | 8   | —   |
| AHV30B                    | 6HK16501506      | 60.0                                 | 25.1                  | 43.3 | —    | 27.9             | 50.0 | —    | 30               | 45  | —   | 30               | 50  | —   | 10                                | 8   | —   | 10               | 8   | —   |
| AHV36C<br>AHV42D          | 6HK16501306      | 52.0                                 | 23.3                  | 37.6 | —    | 25.7             | 43.3 | —    | 25               | 40  | —   | 30               | 45  | —   | 10                                | 8   | —   | 10               | 8   | —   |
|                           | 6HK16501506      | 60.0                                 | 26.2                  | 43.3 | —    | 29.0             | 50.0 | —    | 30               | 45  | —   | 30               | 50  | —   | 10                                | 8   | —   | 10               | 8   | —   |
|                           | 6HK16501806      | 72.0                                 | 43.5                  | 39.0 | —    | 49.0             | 45.0 | —    | 45               | 40  | —   | 50               | 45  | —   | 8                                 | 8   | —   | 8                | 8   | —   |
|                           | 6HK16502006      | 80.0                                 | 47.8                  | 43.3 | —    | 54.0             | 50.0 | —    | 50               | 45  | —   | 60               | 50  | —   | 8                                 | 8   | —   | 6                | 8   | —   |
| AHV48D                    | 6HK16501306      | 52.0                                 | 25.4                  | 37.6 | —    | 27.8             | 43.3 | —    | 30               | 40  | —   | 30               | 45  | —   | 10                                | 8   | —   | 10               | 8   | —   |
|                           | 6HK16501506      | 60.0                                 | 28.3                  | 43.3 | —    | 31.1             | 50.0 | —    | 30               | 45  | —   | 35               | 50  | —   | 10                                | 8   | —   | 8                | 8   | —   |
|                           | 6HK16501806      | 72.0                                 | 45.6                  | 39.0 | —    | 51.1             | 45.0 | —    | 50               | 40  | —   | 60               | 45  | —   | 8                                 | 8   | —   | 6                | 8   | —   |
|                           | 6HK16502006      | 80.0                                 | 49.9                  | 43.3 | —    | 56.1             | 50.0 | —    | 50               | 45  | —   | 60               | 50  | —   | 8                                 | 8   | —   | 6                | 8   | —   |
| AHV60D                    | 6HK16501306      | 52.0                                 | 25.4                  | 37.6 | —    | 27.8             | 43.3 | —    | 30               | 40  | —   | 30               | 45  | —   | 10                                | 8   | —   | 10               | 8   | —   |
|                           | 6HK16501506      | 60.0                                 | 28.3                  | 43.3 | —    | 31.1             | 50.0 | —    | 30               | 45  | —   | 35               | 50  | —   | 10                                | 8   | —   | 8                | 8   | —   |
|                           | 6HK16501806      | 72.0                                 | 45.6                  | 39.0 | —    | 51.1             | 45.0 | —    | 50               | 40  | —   | 60               | 45  | —   | 8                                 | 8   | —   | 6                | 8   | —   |
|                           | 6HK16502006      | 80.0                                 | 49.9                  | 43.3 | —    | 56.1             | 50.0 | —    | 50               | 45  | —   | 60               | 50  | —   | 8                                 | 8   | —   | 6                | 8   | —   |
|                           | 6HK16502506      | 100.0                                | 49.9                  | 43.3 | 21.7 | 56.1             | 50.0 | 25.0 | 50               | 45  | 25  | 60               | 50  | 25  | 8                                 | 8   | 10  | 6                | 8   | 10  |

1. MOP = Maximum Overcurrent Protection device; must be HACR type circuit breaker or time delay fuse.

2. Stated sizes are for 75°C, copper wire only. If wire other than non-plated, 75°C ambient, copper wire is used, consult applicable tables of the NEC and local codes.

3. 1st Circuit includes the blower motor amps.

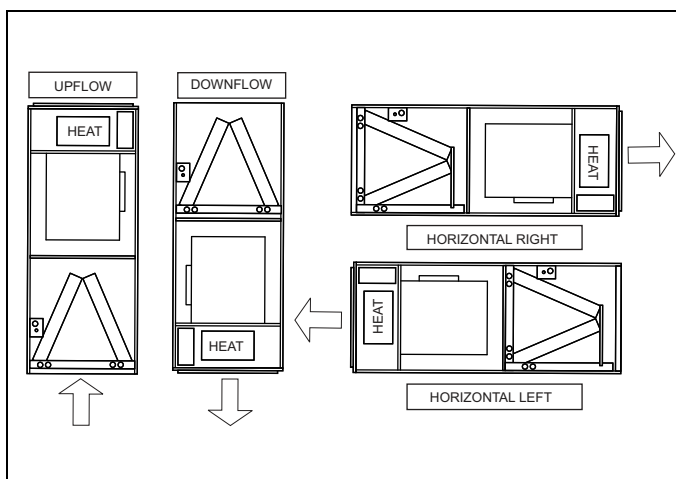
**ELECTRICAL DATA FOR MULTI-SOURCE POWER SUPPLY: 208/230-3-60**

| Air Handler Models | Heater Models | Total Heater Amps @ 240V | Min. Circuit Ampacity |      |                  |      | MOP <sup>1</sup> |     |                  |     | Min. Wire Size (AWG) <sup>2</sup> |     |                  |     |
|--------------------|---------------|--------------------------|-----------------------|------|------------------|------|------------------|-----|------------------|-----|-----------------------------------|-----|------------------|-----|
|                    |               |                          | 208V                  |      | 230V             |      | 208V             |     | 230V             |     | 208V                              |     | 230V             |     |
|                    |               |                          | Circuit               |      |                  |      | Circuit          |     |                  |     | Circuit                           |     |                  |     |
|                    |               |                          | 1st <sup>3</sup>      | 2nd  | 1st <sup>3</sup> | 2nd  | 1st <sup>3</sup> | 2nd | 1st <sup>3</sup> | 2nd | 1st <sup>3</sup>                  | 2nd | 1st <sup>3</sup> | 2nd |
| AHV36C<br>AHV42D   | 6HK16502025   | 46.2                     | 29.5                  | 25.0 | 32.9             | 28.9 | 30               | 25  | 35               | 30  | 10                                | 10  | 8                | 10  |
| AHV48D             | 6HK16502025   | 46.2                     | 31.7                  | 25.0 | 35.0             | 28.9 | 35               | 25  | 35               | 30  | 8                                 | 10  | 8                | 10  |
| AHV60D             | 6HK16502025   | 46.2                     | 31.7                  | 25.0 | 35.0             | 28.9 | 35               | 25  | 35               | 30  | 8                                 | 10  | 8                | 10  |
|                    | 6HK16502525   | 57.7                     | 37.9                  | 31.3 | 42.2             | 36.1 | 40               | 35  | 45               | 40  | 8                                 | 8   | 8                | 8   |

1. MOP = Maximum Overcurrent Protection device; must be HACR type circuit breaker or time delay fuse.

2. Stated sizes are for 75°C, copper wire only. If wire other than non-plated, 75°C ambient, copper wire is used, consult applicable tables of the NEC and local codes.

3. 1st Circuit includes the fan motor.

**TYPICAL APPLICATIONS****ACCESSORIES**

Refer to Price Manual for specific model numbers where not shown.

**TXV Kits** - TXV kits are available for "flex-coil" applications and converting R-22 to R-410A or as a service replacement. All kits are bolt-on and require no brazing to install.

**Electric Heaters** - 6HK models shown under electrical data include sequential operation and temperature dual limit switches for safe, efficient operation. Circuit breakers are provided where shown.

**LIMITATIONS**

These units must be wired and installed in accordance with all national and local safety codes.

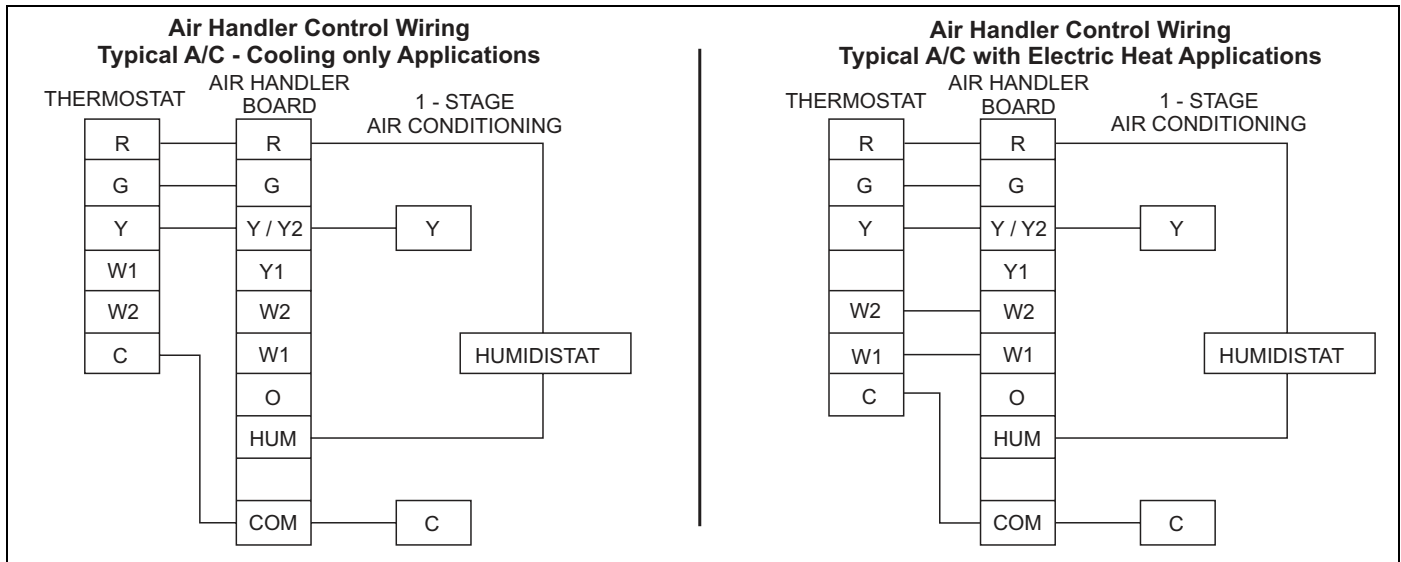
Voltage limits are as follows:

| Air Handler Voltage | <sup>1</sup> Normal Operating Voltage Range |
|---------------------|---------------------------------------------|
| 208/230-1-60        | 187-253                                     |

1. Rated in accordance with ARI Standard 110, utilization range "A".

Airflow must be within the minimum and maximum limits approved for electric heat, evaporator coils and outdoor units.

## TYPICAL THERMOSTAT CONNECTION



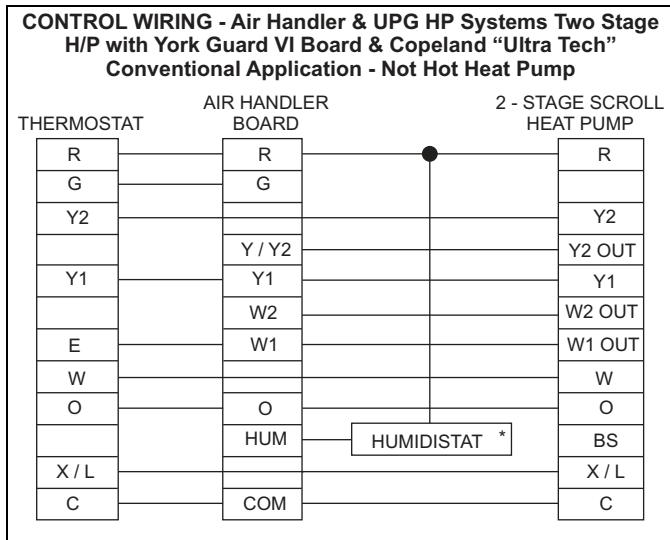
Cooling Models with and without Electric Heat Wiring

\* Optional dehumidification humidistat switch contacts open on humidity rise.

### NOTES:

1. "Y/Y2" Thermostat wire must be connected for full CFM and applications requiring 60 second blower off delay for SEER enhancement.
2. Remove humidistat jumper on air handler control board.
3. For heat pump applications - set AC/HP jumper on air handler control board to the HP position.

## TYPICAL THERMOSTAT WIRING FOR 2-STAGE HEAT PUMP WITH ECM BLOWER MOTOR



\* Optional dehumidification humidistat switch contacts open on humidity rise.

### NOTES:

1. "Y/Y2" Thermostat wire must be connected for full CFM and applications requiring 60 second blower off delay for SEER enhancement.
2. Set humidistat jumper to "YES" if using humidistat or communicating control.
3. For heat pump applications - set AC/HP jumper on air handler control board to the HP position.

## AIR HANDLER WITH COMMUNICATING AC OR HP

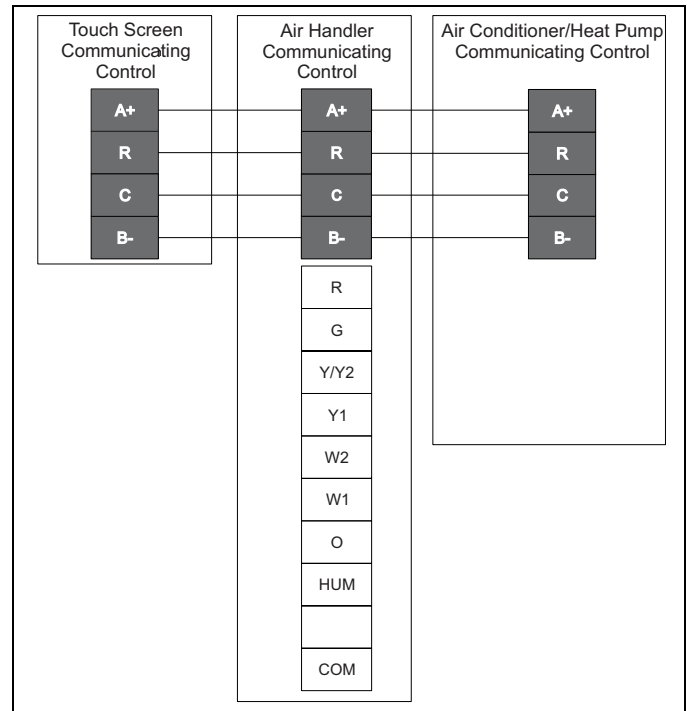


FIGURE 1: Air Handler with Communicating AC or HP

**AIR FLOW DATA (CFM)<sup>1</sup>**

| High/Low Speed Cooling and Heat Pump CFM |                      |       |     |       |     |       |     |       |     |
|------------------------------------------|----------------------|-------|-----|-------|-----|-------|-----|-------|-----|
| Cool Tap                                 | ADJ Tap <sup>2</sup> | AHV18 |     | AHV24 |     | AHV30 |     | AHV36 |     |
|                                          |                      | High  | Low | High  | Low | High  | Low | High  | Low |
| A                                        | B                    | 805   | 523 | 1035  | 673 | 1150  | 748 | 1380  | 897 |
| B                                        | B                    | 690   | 449 | 920   | 598 | 1035  | 673 | 1208  | 794 |
| A                                        | A                    | 700   | 455 | 900   | 585 | 1000  | 650 | 1200  | 780 |
| B                                        | A                    | 600   | 390 | 800   | 520 | 900   | 585 | 1050  | 690 |
| A                                        | C                    | 630   | 410 | 810   | 527 | 900   | 585 | 1080  | 702 |
| C                                        | B                    | 575   | 374 | 776   | 506 | 920   | 598 | 1035  | 673 |
| B                                        | C                    | 540   | 351 | 720   | 468 | 810   | 527 | 945   | 621 |
| D                                        | B                    | 460   | 299 | 633   | 414 | 805   | 523 | 863   | 564 |
| C                                        | A                    | 500   | 325 | 675   | 440 | 800   | 520 | 900   | 585 |
| D                                        | A                    | 400   | 260 | 550   | 360 | 700   | 455 | 750   | 490 |
| C                                        | C                    | 450   | 293 | 608   | 396 | 720   | 468 | 810   | 527 |
| D                                        | C                    | 360   | 234 | 495   | 324 | 630   | 410 | 675   | 441 |

| Cool Tap | ADJ Tap <sup>2</sup> | AHV42 |      | AHV48 |      | AHV60 |      |  |  |
|----------|----------------------|-------|------|-------|------|-------|------|--|--|
|          |                      | High  | Low  | High  | Low  | High  | Low  |  |  |
| A        | B                    | 1610  | 1047 | 1840  | 1196 | 2070  | 1346 |  |  |
| B        | B                    | 1495  | 972  | 1668  | 1093 | 1811  | 1179 |  |  |
| A        | A                    | 1400  | 910  | 1600  | 1040 | 1800  | 1170 |  |  |
| B        | A                    | 1300  | 845  | 1450  | 950  | 1575  | 1025 |  |  |
| A        | C                    | 1260  | 819  | 1440  | 936  | 1620  | 1053 |  |  |
| C        | B                    | 1380  | 897  | 1495  | 972  | 1668  | 1081 |  |  |
| B        | C                    | 1170  | 761  | 1305  | 855  | 1418  | 923  |  |  |
| D        | B                    | 1265  | 822  | 1323  | 863  | 1570  | 1024 |  |  |
| C        | A                    | 1200  | 780  | 1300  | 845  | 1450  | 940  |  |  |
| D        | A                    | 1100  | 715  | 1150  | 750  | 1365  | 890  |  |  |
| C        | C                    | 1080  | 702  | 1170  | 761  | 1305  | 846  |  |  |
| D        | C                    | 990   | 644  | 1035  | 675  | 1229  | 801  |  |  |

| High/Low Speed Heat CFM |                      |       |     |       |     |       |     |       |     |
|-------------------------|----------------------|-------|-----|-------|-----|-------|-----|-------|-----|
| Heat Tap                | ADJ Tap <sup>2</sup> | AHV18 |     | AHV24 |     | AHV30 |     | AHV36 |     |
|                         |                      | High  | Low | High  | Low | High  | Low | High  | Low |
| A                       | Any                  | 850   | 650 | 1100  | 740 | 1100  | 740 | 1360  | 900 |
| B                       | Any                  | 700   | 600 | 960   | 650 | 960   | 650 | 1150  | 770 |
| C                       | Any                  | 550   | 550 | 830   | 600 | 830   | 600 | 1000  | 630 |
| D                       | Any                  | 400   | 400 | 580   | 550 | 580   | 550 | 720   | 550 |

| Heat Tap | ADJ Tap <sup>2</sup> | AHV42 |     | AHV48 |      | AHV60 |      |  |  |
|----------|----------------------|-------|-----|-------|------|-------|------|--|--|
|          |                      | High  | Low | High  | Low  | High  | Low  |  |  |
| A        | Any                  | 1550  | 950 | 1775  | 1000 | 2000  | 1150 |  |  |
| B        | Any                  | 1350  | 800 | 1600  | 850  | 1840  | 1050 |  |  |
| C        | Any                  | 1150  | 670 | 1360  | 750  | 1570  | 950  |  |  |
| D        | Any                  | 900   | 550 | 1170  | 600  | 1370  | 830  |  |  |

1. All CFMs are shown at 0.3" w.c. external static pressure. These units have variable-speed ECM motors that automatically adjust to provide constant CFM from 0.0" to 0.4" wc. external static pressure. From 0.4" to 0.8" external static pressure, CFM is reduced by 2% per 0.1" static pressure. Operation of these units on duct systems with external static pressure greater than 0.8" is not recommended.

At some settings, airflow may be lower than what is required to operate an airflow switch on certain models of electronic air cleaners. Consult the instructions for the electronic air cleaner for further details.

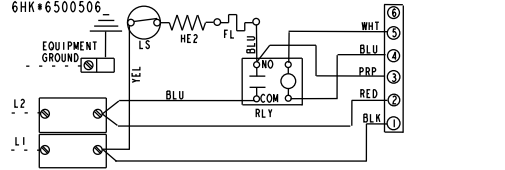
Data is for 208V or 230V.

2. The ADJ "D" tap should not be used.

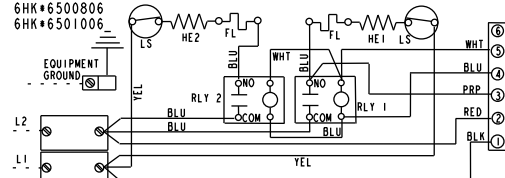
# WIRING DIAGRAMS

WHEN INSTALLING HEATER KIT, BE SURE THE BLOWER SPEED IS SET TO THE SPEED SPECIFIED FOR THE AIR HANDLER/HEATER KIT COMBINATION ON THIS UNIT'S INSTALLATION INSTRUCTIONS.

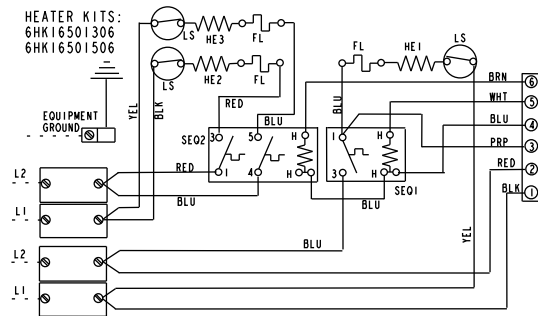
HEATER KITS:  
6HK\*6500206  
6HK\*6500506



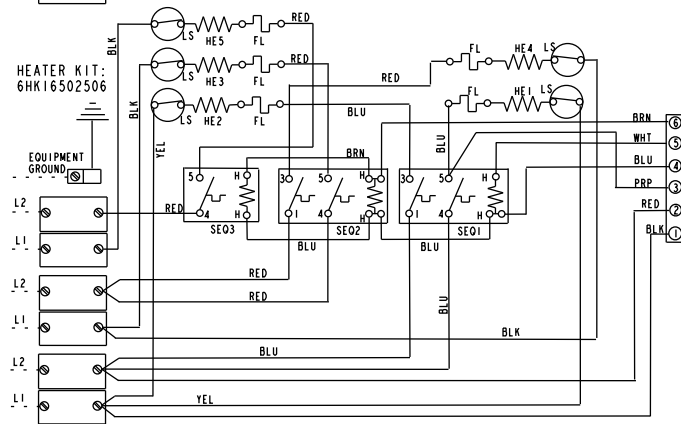
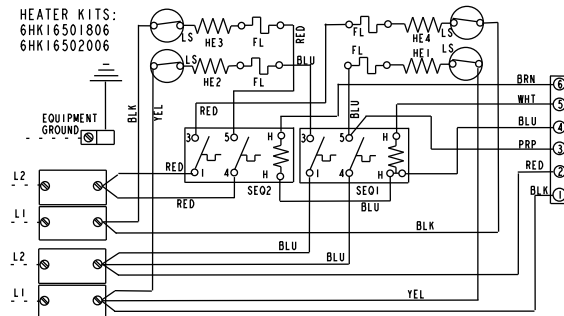
HEATER KITS:  
6HK\*6500806  
6HK\*6501006



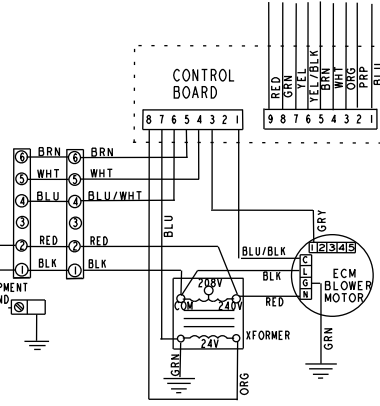
HEATER KITS:  
6HK16501306  
6HK16501506



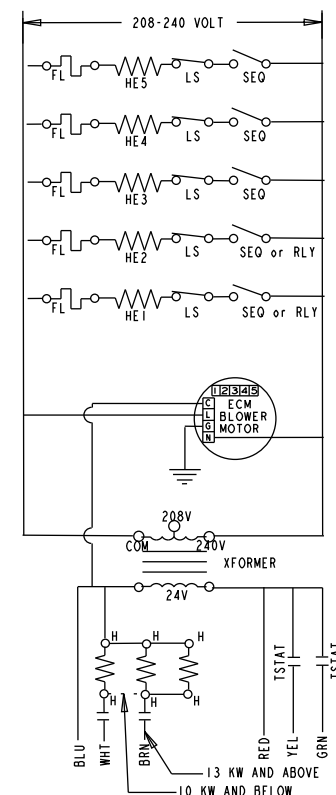
HEATER KITS:  
6HK16501806  
6HK16502006



SEE INSTALLATION INSTRUCTIONS FOR PROPER LOW VOLTAGE FIELD WIRING CONNECTIONS.



ECM AIR HANDLER WITH NO HEAT KIT WIRING DIAGRAM



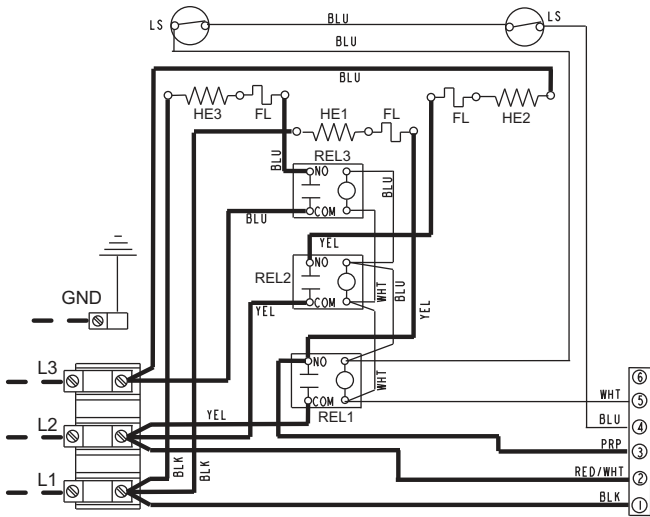
LEGEND  
LS - LIMIT SWITCH  
SEQ - SEQUENCER  
HE - HEATING ELEMENT  
FL - FUSIBLE LINK  
H - SEQUENCER HEATER  
RLY - RELAY  
TSTAT - WALL THERMOSTAT

USE COPPER CONDUCTORS ONLY.  
IF ALUMINUM CONDUCTORS ARE PRESENT,  
ALL APPLICABLE LOCAL AND NATIONAL  
CODES MUST BE FOLLOWED.

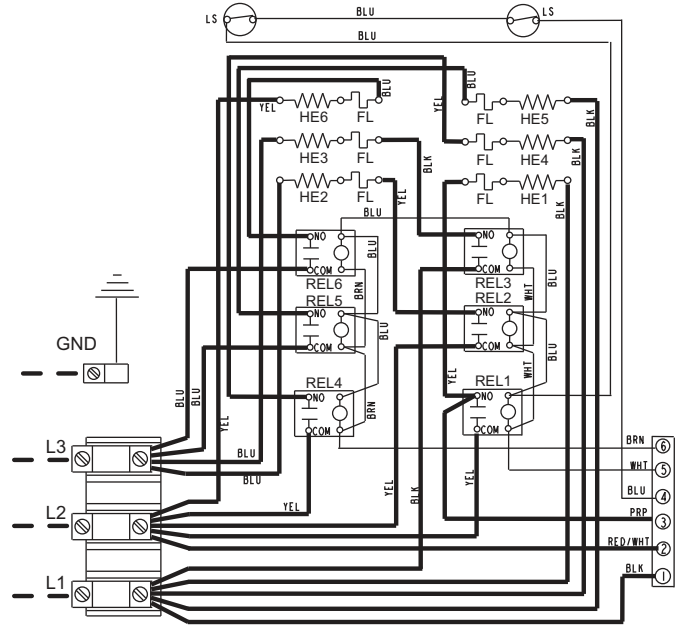
818695-UWD-A-1111

## WIRING DIAGRAM - SINGLE PHASE HEAT KITS

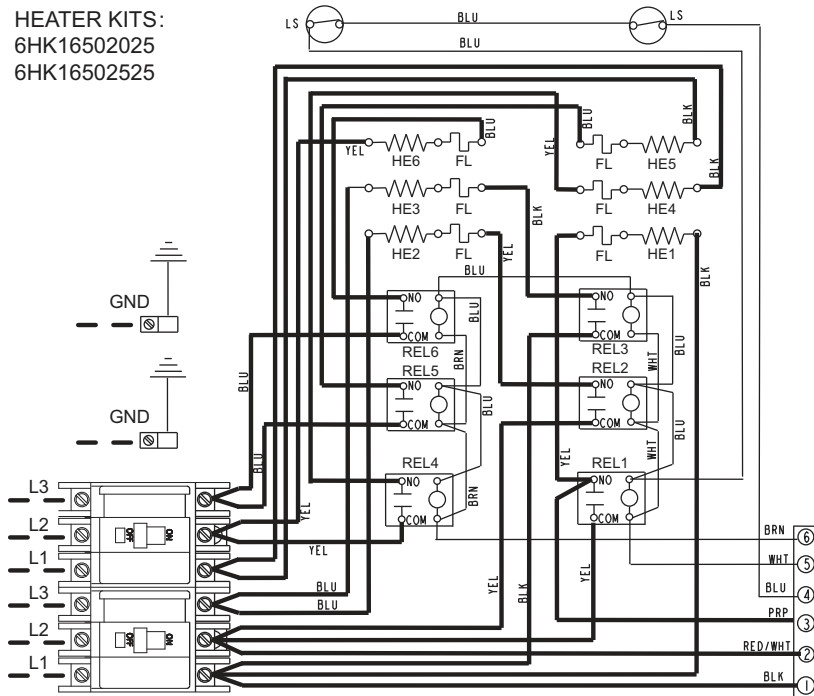
HEATER KITS:  
6HK06501025  
6HK06501525



HEATER KITS:  
6HK06501825



HEATER KITS:  
6HK16502025  
6HK16502525



#### COMPONENT CODES

GND – EQUIPMENT GROUND  
FL – FUSIBLE LINK  
HE – HEATING ELEMENT  
LS – LIMIT SWITCH  
REL – RELAY

--- FIELD POWER WIRING  
(208/230V)  
— FACTORY WIRING  
(208/230V)  
— FACTORY WIRING  
LOW VOLTAGE

#### WIRING DIAGRAM - 3 PHASE HEAT KITS