



TECHNICAL GUIDE

SINGLE PIECE VARIABLE SPEED ECM COMMUNICATING AIR HANDLERS WITH ELECTRONIC EXPANSION VALVE

FOR USE WITH SPLIT-SYSTEM COOLING & HEAT PUMPS

MODELS: AVV SERIES



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

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WARRANTY SUMMARY

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 AVV Air Handler model line offers the ultimate in comfort, low sound and application flexibility. This unit can be used in upflow, downflow, horizontal right and horizontal left applications with no additional parts or kits.

All AVV air handlers employ a high efficiency ECM variable speed, constant CFM blower motor and a factory mounted EEV valve. The AVV product line is specifically designed to match with the YZV and YXV high-efficiency variable capacity outdoor units. The AVV is designed to work as part of a 4-wire communicating system which employs the *Hx™* Wi-Fi Thermostat for control.

FEATURES

Rigid Case Construction - an interior endoskeleton provides structural support eliminating screw heads protruding from the side of the cabinet that could damage property when being installed.

Cabinet - Constructed of heavy gauge galvanized steel with a primer and finish coat providing a high quality corrosion resistant finish.

MaxAlloy™ Coil - Long life aluminum coils built to deliver lasting performance, efficiency and reliability.

Foil faced insulation - The entire cabinet is insulated with a single piece of cleanable foil faced insulation retained by the endoskeleton. The cabinet design is such that all edges of the insulation are contained.

Electronic Expansion Valve (EEV) - Factory installed and sized to match with specific YZV and YXV high-efficiency variable capacity outdoor units.

Compact Cabinet - With the coil and access doors removed the cabinet has a 20.5" casing depth in all models, which provide ease of attic access and space constrained applications.

Thermoset Drain Pan - Corrosion and UV resistant with a positive slope for proper drainage. Low water retention design maximizes indoor air quality and consumer comfort.

Low Leakage Cabinet Design - Fully gasketed doors minimizes air leakage to no more than 2% when measured at 1.0" esp. minimizing conditioned air leakage and infiltration.

Integrated Filter Rack - All models have an internal filter rack for use with 1" thick standard size filters.

Electric Heat Kits - 208/230V single and three phase field installed electric heat kits are available from 5 through 25 kW. Make sure to check the technical guide for proper application. Electric heat kits are common between the different air handler families including the modular designs.

ECM Variable Speed Motors - All models use variable speed ECM motors for efficient, quiet operation. The blower can be independently controlled to optimize the system for specific comfort requirements.

Duct Flange - Duct flanges are supplied to be field installed when required.

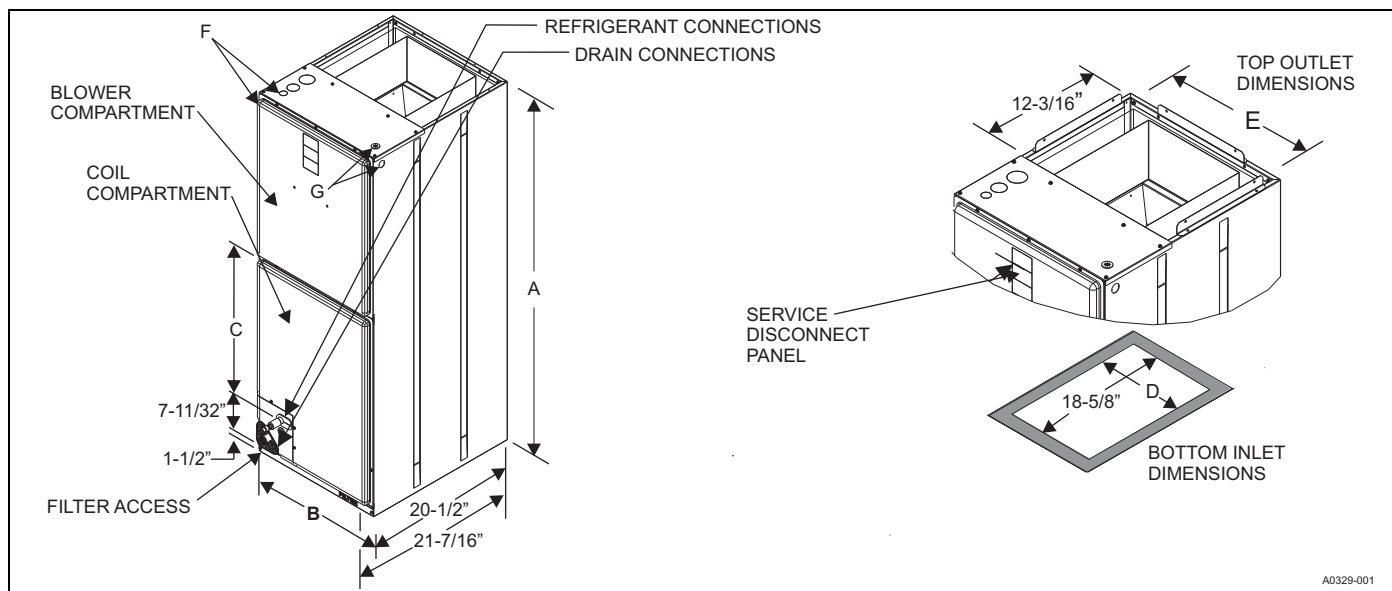
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NOMENCLATURE

| | | |
|--|-----------|--|
| PRODUCT TYPE | A | A = Single Piece Air Handler |
| POSITION MOTOR TYPE | V | P = Multi PSC E = Multi Std ECM V = Multi VS ECM Z = Compact Up Std ECM |
| OPTIONS | V | C = Communications Ready V = Communication and Variable - = Standard (No Options) |
| NOMINAL UNIT CAPACITY | 36 | 18 = 1.5 Ton 42 = 3.5 Ton 24 = 2 Ton 48 = 4-Ton 25 = 2 Ton 49 = 4-Ton 30 = 2.5 Ton 50 = 5-Ton 36 = 3 Ton 60 = 5-Ton 37 = 3 Ton 61 = 5-Ton 38 = 3 Ton |
| CABINET WIDTH | B | A = 14.5" B = 17.5" C = 21.0" D = 24.5" |
| TXV INDICATOR | E1 | BA-BF = Valve Size E1-E9 = Valve Size X = No Valve |
| VOLTAGE (Voltage-Phase-Hertz) | 2 | 1 = 115-1-60 3 = 208/230-3-60 2 = 208/230-1-60 4 = 460-3-60 |
| GENERATION (MAJOR REVISION) | 1 | 1 = 1st Gen 2 = 2nd Gen etc. |
| STYLE LETTER (MINOR REVISION) NOT USED FOR ORDERING | A | A = Style A B = Style B etc. |

DIMENSIONS & DUCT CONNECTION DIMENSIONS



DIMENSIONS¹

| Models | Dimensions | | | | | Wiring Knockouts ² | | Refrigerant Connections Line Size | |
|--------|------------|--------|--------|--------|--------|---|-----------|-----------------------------------|-------|
| | A | B | C | D | E | F | G | Liquid | Vapor |
| | Height | Width | | | | Power | Control | | |
| AVV25B | 47-1/2 | 17-1/2 | 19-1/2 | 14-1/4 | 16-1/2 | 7/8 (1/2) 1-3/8 (1) 1-23/32 (1-1/4) | 7/8 (1/2) | 3/8 | 3/4 |
| AVV37B | 47-1/2 | 17-1/2 | 19-1/2 | 14-1/4 | 16-1/2 | | | | |
| AVV37C | 51-1/2 | 21 | 22-5/8 | 17-3/4 | 20 | | | | |
| AVV38B | 47-1/2 | 17-1/2 | 22-5/8 | 14-1/4 | 16-1/2 | | | | |
| AVV38C | 55-3/4 | 21 | 26-7/8 | 17-3/4 | 20 | | | | |
| AVV49C | 55-3/4 | 21 | 26-7/8 | 17-3/4 | 20 | | | 7/8 | |
| AVV49D | 51-1/2 | 24-1/2 | 26-5/8 | 21-3/4 | 23-1/2 | | | | |
| AVV50C | 60 | 21 | 31-3/8 | 17-3/4 | 20 | | | | |
| AVV50D | 60 | 24-1/2 | 31-3/8 | 21-3/4 | 23-1/2 | | | | |
| AVV61C | 60 | 21 | 31-3/8 | 17-3/4 | 20 | | | | |
| AVV61D | 60 | 24-1/2 | 31-3/8 | 21-3/4 | 23-1/2 | | | | |

- 1. All dimensions are in inches.
- 2. Actual size (Conduit size in parenthesis.).

COIL TECHNICAL DATA

| Models | Application | Refrigeration Tubing Connection Types | Face Area (Sq. Ft.) | Rows Deep | Fins Per Inch | Coil Size | Tube Geometry | Tube Diameter | Fin Type |
|--------|--------------------|---------------------------------------|---------------------|-----------|---------------|---------------|---------------|---------------|-----------|
| 25B | Cooling /Heat Pump | Sweat | 7.1 | 2 | 14 | (3) 20 x 17.1 | 1 x 0.866 | 3/8 | Sine Wave |
| 37B | Cooling /Heat Pump | Sweat | 7.1 | 2 | 14 | (3) 20 x 17.1 | 1 x 0.866 | 3/8 | Sine Wave |
| 37C | Cooling /Heat Pump | Sweat | 7.1 | 2 | 14 | (3) 20 x 17.1 | 1 x 0.866 | 3/8 | Sine Wave |
| 38B | Cooling /Heat Pump | Sweat | TBD | TBD | TBD | TBD | 1 x 0.866 | 3/8 | Sine Wave |
| 38C | Cooling /Heat Pump | Sweat | 6.7 | 3 | 12 | (2) 28 x 17.1 | 1 x 0.866 | 3/8 | Sine Wave |
| 49C | Cooling /Heat Pump | Sweat | 6.7 | 3 | 12 | (2) 28 x 17.1 | 1 x 0.866 | 3/8 | Sine Wave |
| 49D | Cooling /Heat Pump | Sweat | 6.7 | 3 | 12 | (2) 28 x 17.1 | 1 x 0.866 | 3/8 | Sine Wave |
| 50C | Cooling /Heat Pump | Sweat | 7.6 | 3 | 12 | (2) 32 x 17.1 | 1 x 0.866 | 3/8 | Sine Wave |
| 50D | Cooling /Heat Pump | Sweat | 7.6 | 3 | 12 | (2) 32 x 17.1 | 1 x 0.866 | 3/8 | Sine Wave |
| 61C | Cooling /Heat Pump | Sweat | 7.6 | 3 | 12 | (2) 32 x 17.1 | 1 x 0.866 | 3/8 | Sine Wave |
| 61D | Cooling /Heat Pump | Sweat | 7.6 | 3 | 12 | (2) 32 x 17.1 | 1 x 0.866 | 3/8 | Sine Wave |

COOLING CAPACITY¹

| Models | Rated CFM ² | Entering Air 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 |
| AVV25B | 780 | 85/72 | 55.1 | 48.8 | 40.7 | 31.5 |
| | | 80/67 | 45.5 | 37.3 | 29.3 | 22.1 |
| | | 75/62 | 33.9 | 27.8 | 20.8 | 14.2 |
| | | 70/57 | 26.1 | 19.5 | 14.3 | 10.5 |
| AVV37B | 1200 | 85/72 | 79.3 | 69.5 | 57.4 | 44.8 |
| | | 80/67 | 64.0 | 53.3 | 42.6 | 30.7 |
| | | 75/62 | 50.0 | 39.0 | 29.9 | 19.9 |
| | | 70/57 | 37.3 | 29.0 | 20.2 | 15.4 |
| AVV37C | 1200 | 85/72 | 79.3 | 69.5 | 57.4 | 44.8 |
| | | 80/67 | 64.0 | 53.3 | 42.6 | 30.7 |
| | | 75/62 | 50.0 | 39.0 | 29.9 | 19.9 |
| | | 70/57 | 37.3 | 29.0 | 20.2 | 15.4 |
| AVV38B | TBD | TBD | TBD | TBD | TBD | TBD |
| AVV38C | 1200 | 85/72 | 95.7 | 83.7 | 72.7 | 59.6 |
| | | 80/67 | 77.6 | 66.7 | 54.7 | 41.6 |
| | | 75/62 | 62.1 | 50.8 | 39.0 | 26.7 |
| | | 70/57 | 47.6 | 37.4 | 26.2 | 19.8 |
| AVV49C | 1500 | 85/72 | 100.9 | 89.3 | 76.9 | 61.9 |
| | | 80/67 | 82.7 | 70.7 | 57.6 | 44.1 |
| | | 75/62 | 65.7 | 53.9 | 41.0 | 28.0 |
| | | 70/57 | 50.2 | 38.5 | 27.7 | 21.2 |
| AVV49D | 1600 | 85/72 | 105.5 | 93.5 | 80.5 | 65.0 |
| | | 80/67 | 86.9 | 74.2 | 60.4 | 45.6 |
| | | 75/62 | 68.6 | 56.0 | 42.5 | 29.4 |
| | | 70/57 | 52.5 | 40.2 | 28.3 | 21.6 |
| AVV50C | 1600 | 85/72 | 112.6 | 99.2 | 83.5 | 68.6 |
| | | 80/67 | 91.9 | 77.3 | 60.5 | 39.7 |
| | | 75/62 | 72.1 | 44.3 | 38.5 | 29.3 |
| | | 70/57 | 43.2 | 37.1 | 28.2 | 23.2 |
| AVV50D | 1600 | 85/72 | 112.6 | 99.2 | 83.5 | 68.6 |
| | | 80/67 | 91.9 | 77.3 | 60.5 | 39.7 |
| | | 75/62 | 72.1 | 44.3 | 38.5 | 29.3 |
| | | 70/57 | 43.2 | 37.1 | 28.2 | 23.2 |
| AVV61C | 1600 | 85/72 | 112.6 | 99.2 | 83.5 | 68.6 |
| | | 80/67 | 91.9 | 77.3 | 60.5 | 39.7 |
| | | 75/62 | 72.1 | 44.3 | 38.5 | 29.3 |
| | | 70/57 | 43.2 | 37.1 | 28.2 | 23.2 |
| AVV61D | 1800 | 85/72 | 121.2 | 107.6 | 92.9 | 73.3 |
| | | 80/67 | 99.3 | 84.6 | 67.9 | 41.1 |
| | | 75/62 | 77.4 | 45.0 | 39.9 | 31.1 |
| | | 70/57 | 44.1 | 38.7 | 29.9 | 24.9 |

NOTES:

1. Actual capacity varies with the outdoor AC or HP that is used with the system.
2. Airflow is calculated for each system tonnage.

PHYSICAL & ELECTRICAL DATA - COOLING ONLY

| Models | | AVV25B | AVV37B | AVV37C | AVV38B | AVV38C | AVV49C | AVV49D | AVV50C | AVV50D | AVV61C | AVV61D |
|-----------------------------------|--------------------|-------------------------|-------------|-------------|--------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Blower - Diameter x Width | | 10 x 8 | 10 x 8 | 11 x 10 | TBD | 11 x 10 | 11 x 10 | 11 x 10 | 11 x 10 | 11 x 10 | 11 x 10 | 11 x 10 |
| Motor | HP | 1/2 HP | 1/2 HP | 1/2 HP | TBD | 1/2 HP | 3/4 HP | 3/4 HP | 3/4 HP | 3/4 HP | 3/4 HP | 3/4 HP |
| | Nominal RPM | 1050 | 1050 | 1050 | TBD | 1050 | 1050 | 1050 | 1050 | 1050 | 1050 | 1050 |
| Voltage | | 208/230 | 208/230 | 208/230 | TBD | 208/230 | 208/230 | 208/230 | 208/230 | 208/230 | 208/230 | 208/230 |
| Full Load Amps @230V | | 4.5 | 4.5 | 4.5 | TBD | 4.5 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 | 7.0 |
| Filter ¹ | Type | DISPOSABLE OR PERMANENT | | | | | | | | | | |
| | Size | 16 x 20 x 1 | 16 x 20 x 1 | 20 x 20 x 1 | TBD | 20 x 20 x 1 | 20 x 20 x 1 | 22 x 20 x 1 | 20 x 20 x 1 | 22 x 20 x 1 | 20 x 20 x 1 | 22 x 20 x 1 |
| | Permanent Type Kit | 1PF0601 | 1PF0601 | 1PF0602 | TBD | 1PF0602 | 1PF0602 | 1PF0603 | 1PF0602 | 1PF0603 | 1PF0602 | 1PF0603 |
| Shipping/Operating Weights (lbs.) | | 119/113 | 119/113 | 120/114 | TBD | 158/150 | 158/150 | 163/153 | 175/165 | 180/170 | 175/165 | 180/170 |

NOTES:

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 |

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 |

ELECTRICAL DATA - COOLING ONLY

| Models | Motor FLA ¹ | | Minimum Circuit Ampacity | | MOP ² |
|-----------------------------------|------------------------|------|--------------------------|------|------------------|
| | 208V | 230V | 208V | 230V | |
| 25B / 37B / 37C / 38B / 38C | 5.0 | 4.5 | 6.3 | 5.6 | 15 |
| 49C / 49D / 50C / 50D / 61C / 61D | 7.3 | 7.0 | 9.1 | 8.8 | 15 |

1. FLA = Full Load Amps

2. MOP = Maximum Overcurrent Protection device; must be HACR type circuit breaker or time delay fuse. Refer to the latest edition of the National Electric Code or in Canada the Canadian electrical Code and local codes to determine correct wire sizing.

ELECTRICAL HEAT - MINIMUM FAN SPEED

| Heater Kit Models ^{1,2,3} | Nom. kW @240V | Air Handler Models | | | | | | | | | | |
|------------------------------------|---------------|--------------------|------------|------------|--------|------------|------------|------------|------------|------------|------------|------------|
| | | AVV25B | AVV37B | AVV37C | AVV38B | AVV38C | AVV49C | AVV49D | AVV50C | AVV50D | AVV61C | AVV61D |
| 6HK(0,1)6500206 | 2.4kW | Med Lo (D) | Med Lo (D) | Med Lo (D) | TBD | Med Lo (D) | Med Lo (D) | Med Lo (D) | Med Lo (D) | Med Lo (D) | Med Lo (D) | Med Lo (D) |
| 6HK(0,1)6500506 | 4.8kW | Med Lo (D) | Med Lo (D) | Med (C) | TBD | Med (C) | Med Lo (D) | Med Lo (D) | Med Lo (D) | Med Lo (D) | Med Lo (D) | Med Lo (D) |
| 6HK(0,1)6500806 | 7.7kW | Med Lo (D) | Med Lo (D) | Med Hi (B) | TBD | Med Hi (B) | Med Lo (D) | Med Lo (D) | Med Lo (D) | Med Lo (D) | Med Lo (D) | Med Lo (D) |
| 6HK(0,1)6501006 6HK36501025 | 9.6kW | Med Lo (D) | Med Lo (D) | Med Hi (B) | TBD | Med Hi (B) | Med Lo (D) | Med Lo (D) | Med Lo (D) | Med Lo (D) | Med Lo (D) | Med Lo (D) |
| 6HK(1,2)6501306 | 12.5kW | Med (C) | Med (C) | Med Hi (B) | TBD | Med Hi (B) | Med Lo (D) | Med Lo (D) | Med Lo (D) | Med Lo (D) | Med Lo (D) | Med Lo (D) |
| 6HK(1,2)6501506 6HK36501525 | 14.4kW | - | Med Hi (B) | Med Hi (B) | TBD | Med Hi (B) | Med (C) | Med (C) | Med (C) | Med (C) | Med Lo (D) | Med Lo (D) |
| 6HK(1,2)6501806 6HK36501825 | 17.3kW | - | Med Hi (B) | Med Hi (B) | TBD | Med Hi (B) | Med (C) | Med Hi (B) | Med (C) | Med Hi (B) | Med (C) | Med (C) |
| 6HK(1,2)6502006 6HK36502025 | 19.2kW | - | Med Hi (B) | Hi (A) | TBD | Hi (A) | Med Hi (B) | Hi (A) | Med Hi (B) | Hi (A) | Med Hi (B) | Med Hi (B) |
| 6HK(1,2)6502506 6HK46502525 | 24kW | - | - | - | TBD | - | - | Hi (A) | - | Hi (A) | - | Med Hi (B) |

1. (0,1) - 0 = no service disconnect OR 1 = with service disconnect.
2. (1,2) - 1 = with service disconnect, no breaker jumper bar OR 2 = with service disconnect & breaker jumper bar.
3. 6HK3 = 3-Phase with terminal block connectors only, 6HK4 = 3-Phase with service disconnect.

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

| Heater Models ^{1,2,3} | | Nominal kW @240V | Total Heat ⁴ | | | | 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 | 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 | 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 | 15.9 | 44.3 | 54.2 | 6.5 | 7.9 | 13 | 15.9 |
| | 6HK(1,2)6502006 | 19.2 | 14.4 | 17.6 | 49.2 | 60.2 | 7.2 | 8.8 | 14.4 | 17.6 |
| | 6HK(1,2)6502506 | 24 | 18 | 22 | 61.5 | 75.2 | 7.2 | 8.8 | 18 | 22 |
| 3PH | 6HK36501025 | 9.6 | 7.2 | 8.8 | 24.6 | 30.1 | 7.2 | 8.8 | 7.2 | 8.8 |
| | 6HK36501525 | 14.4 | 10.8 | 13.2 | 36.9 | 45.1 | 10.8 | 13.2 | 10.8 | 13.2 |
| | 6HK36501825 | 17.3 | 13 | 15.9 | 44.3 | 54.2 | 13 | 15.9 | 13 | 15.9 |
| | 6HK46502025 | 19.2 | 14.4 | 17.6 | 49.2 | 60.2 | 7.2 | 8.8 | 14.4 | 17.6 |
| | 6HK46502525 | 24 | 18 | 22 | 61.5 | 75.2 | 9 | 11 | 18 | 22 |

NOTES:

1. (0,1) - 0 = no service disconnect OR 1 = with service disconnect.
2. (1,2) - 1 = with service disconnect, no breaker jumper bar OR 2 = with service disconnect & breaker jumper bar.
3. 6HK3 = 3-Phase with terminal block connectors only, 6HK4 = 3-Phase with service disconnect.
4. For different power distributions, see "kW & MBH CONVERSIONS" table on Page 5.

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

| Air Handler Models | Heater Models ^{1,2} | Heater Amps @240V | Field Wiring | | | |
|--------------------|------------------------------|-------------------|-----------------------|-------|------------------|------|
| | | | Min. Circuit Ampacity | | MOP ³ | |
| | | | 208V | 230V | 208V | 230V |
| AVV25B | 6HK(0,1)6500206 | 10 | 17.1 | 17.6 | 20 | 20 |
| | 6HK(0,1)6500506 | 20 | 27.9 | 29.5 | 30 | 30 |
| | 6HK(0,1)6500806 | 32 | 41.1 | 44.2 | 45 | 45 |
| | 6HK(0,1)6501006 | 40 | 49.5 | 53.5 | 50 | 60 |
| | 6HK(1,2)6501306 | 52 | 62.7 | 68.1 | 70 | 70 |
| AVV37B | 6HK(0,1)6500206 | 10 | 17.1 | 17.6 | 20 | 20 |
| | 6HK(0,1)6500506 | 20 | 27.9 | 29.5 | 30 | 30 |
| | 6HK(0,1)6500806 | 32 | 41.1 | 44.2 | 45 | 45 |
| | 6HK(0,1)6501006 | 40 | 49.5 | 53.5 | 50 | 60 |
| | 6HK(1,2)6501306 | 52 | 62.7 | 68.1 | 70 | 70 |
| | 6HK(1,2)6501506 | 60 | 71.2 | 77.4 | 80 | 80 |
| | 6HK(1,2)6501806 | 72 | 84.4 | 92.0 | 90 | 100 |
| | 6HK(1,2)6502006 | 80 | 92.8 | 101.3 | 100 | 110 |
| AVV37C | 6HK(0,1)6500206 | 10 | 17.1 | 17.6 | 20 | 20 |
| | 6HK(0,1)6500506 | 20 | 27.9 | 29.5 | 30 | 30 |
| | 6HK(0,1)6500806 | 32 | 41.1 | 44.2 | 45 | 45 |
| | 6HK(0,1)6501006 | 40 | 49.5 | 53.5 | 50 | 60 |
| | 6HK(1,2)6501306 | 52 | 62.7 | 68.1 | 70 | 70 |
| | 6HK(1,2)6501506 | 60 | 71.2 | 77.4 | 80 | 80 |
| | 6HK(1,2)6501806 | 72 | 84.4 | 92.0 | 90 | 100 |
| | 6HK(1,2)6502006 | 80 | 92.8 | 101.3 | 100 | 110 |
| AVV38B | TBD | TBD | TBD | TBD | TBD | TBD |
| AVV38C | 6HK(0,1)6500206 | 10 | 17.1 | 17.6 | 20 | 20 |
| | 6HK(0,1)6500506 | 20 | 27.9 | 29.5 | 30 | 30 |
| | 6HK(0,1)6500806 | 32 | 41.1 | 44.2 | 45 | 45 |
| | 6HK(0,1)6501006 | 40 | 49.5 | 53.5 | 50 | 60 |
| | 6HK(1,2)6501306 | 52 | 62.7 | 68.1 | 70 | 70 |
| | 6HK(1,2)6501506 | 60 | 71.2 | 77.4 | 80 | 80 |
| | 6HK(1,2)6501806 | 72 | 84.4 | 92.0 | 90 | 100 |
| | 6HK(1,2)6502006 | 80 | 92.8 | 101.3 | 100 | 110 |
| AVV49C | 6HK(0,1)6500206 | 10 | 19.9 | 20.7 | 25 | 25 |
| | 6HK(0,1)6500506 | 20 | 30.8 | 32.7 | 35 | 35 |
| | 6HK(0,1)6500806 | 32 | 44.0 | 47.3 | 45 | 50 |
| | 6HK(0,1)6501006 | 40 | 52.4 | 56.6 | 60 | 60 |
| | 6HK(1,2)6501306 | 52 | 65.6 | 71.3 | 70 | 80 |
| | 6HK(1,2)6501506 | 60 | 74.0 | 80.5 | 80 | 90 |
| | 6HK(1,2)6501806 | 72 | 87.3 | 95.2 | 90 | 100 |
| | 6HK(1,2)6502006 | 80 | 95.7 | 104.4 | 100 | 110 |
| AVV49D | 6HK(0,1)6500206 | 10 | 19.9 | 20.7 | 25 | 25 |
| | 6HK(0,1)6500506 | 20 | 30.8 | 32.7 | 35 | 35 |
| | 6HK(0,1)6500806 | 32 | 44.0 | 47.3 | 45 | 50 |
| | 6HK(0,1)6501006 | 40 | 52.4 | 56.6 | 60 | 60 |
| | 6HK(1,2)6501306 | 52 | 65.6 | 71.3 | 70 | 80 |
| | 6HK(1,2)6501506 | 60 | 74.0 | 80.5 | 80 | 90 |
| | 6HK(1,2)6501806 | 72 | 87.3 | 95.2 | 90 | 100 |
| | 6HK(1,2)6502006 | 80 | 95.7 | 104.4 | 100 | 110 |
| | 6HK(1,2)6502506 | 100 | 117.3 | 128.3 | 125 | 150 |

Continued on next page. See notes at end of table.

ELECTRICAL DATA FOR SINGLE SOURCE POWER SUPPLY: 208/230-1-60 (Continued)

| Air Handler Models | Heater Models ^{1,2} | Heater Amps @240V | Field Wiring | | | |
|--------------------|------------------------------|-------------------|-----------------------|-------|------------------|------|
| | | | Min. Circuit Ampacity | | MOP ³ | |
| | | | 208V | 230V | 208V | 230V |
| AVV50C | 6HK(0,1)6500206 | 10 | 9.1 | 8.8 | 25 | 25 |
| | 6HK(0,1)6500506 | 20 | 9.1 | 8.8 | 35 | 35 |
| | 6HK(0,1)6500806 | 32 | 9.1 | 8.8 | 45 | 50 |
| | 6HK(0,1)6501006 | 40 | 9.1 | 8.8 | 60 | 60 |
| | 6HK(1,2)6501306 | 52 | 9.1 | 8.8 | 70 | 80 |
| | 6HK(1,2)6501506 | 60 | 9.1 | 8.8 | 80 | 90 |
| | 6HK(1,2)6501806 | 72 | 9.1 | 8.8 | 90 | 100 |
| AVV50D | 6HK(1,2)6502006 | 80 | 9.1 | 8.8 | 100 | 110 |
| | 6HK(0,1)6500206 | 10 | 19.9 | 20.7 | 25 | 25 |
| | 6HK(0,1)6500506 | 20 | 30.8 | 32.7 | 35 | 35 |
| | 6HK(0,1)6500806 | 32 | 44.0 | 47.3 | 45 | 50 |
| | 6HK(0,1)6501006 | 40 | 52.4 | 56.6 | 60 | 60 |
| | 6HK(1,2)6501306 | 52 | 65.6 | 71.3 | 70 | 80 |
| | 6HK(1,2)6501506 | 60 | 74.0 | 80.5 | 80 | 90 |
| | 6HK(1,2)6501806 | 72 | 87.3 | 95.2 | 90 | 100 |
| AVV61C | 6HK(1,2)6502006 | 80 | 95.7 | 104.4 | 100 | 110 |
| | 6HK(1,2)6502506 | 100 | 117.3 | 128.3 | 125 | 150 |
| | 6HK(0,1)6500206 | 10 | 19.9 | 20.7 | 25 | 25 |
| | 6HK(0,1)6500506 | 20 | 30.8 | 32.7 | 35 | 35 |
| | 6HK(0,1)6500806 | 32 | 44.0 | 47.3 | 45 | 50 |
| | 6HK(0,1)6501006 | 40 | 52.4 | 56.6 | 60 | 60 |
| | 6HK(1,2)6501306 | 52 | 65.6 | 71.3 | 70 | 80 |
| | 6HK(1,2)6501506 | 60 | 74.0 | 80.5 | 80 | 90 |
| AVV61D | 6HK(1,2)6501806 | 72 | 87.3 | 95.2 | 90 | 100 |
| | 6HK(1,2)6502006 | 80 | 95.7 | 104.4 | 100 | 110 |
| | 6HK(1,2)6502506 | 100 | 117.3 | 128.3 | 125 | 150 |
| | 6HK(0,1)6500206 | 10 | 19.9 | 20.7 | 25 | 25 |
| | 6HK(0,1)6500506 | 20 | 30.8 | 32.7 | 35 | 35 |
| | 6HK(0,1)6500806 | 32 | 44.0 | 47.3 | 45 | 50 |
| | 6HK(0,1)6501006 | 40 | 52.4 | 56.6 | 60 | 60 |
| | 6HK(1,2)6501306 | 52 | 65.6 | 71.3 | 70 | 80 |

NOTES:

- (0,1) - 0 = no service disconnect OR 1 = with service disconnect.
- (1,2) - 1 = with service disconnect, no breaker jumper bar OR 2 = with service disconnect & breaker jumper bar.
- MOP = Maximum Overcurrent Protection device; must be HACR type circuit breaker or time delay fuse. Refer to the latest edition of the National Electric Code or in Canada the Canadian electrical Code and local codes to determine correct wire sizing.

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

| Air Handlers Models | Heater Models ^{1,2} | Heater Amps @240V | Min. Circuit Ampacity | | | | | | MOP ³ | | | | | |
|---------------------|------------------------------|-------------------|-----------------------|------|------|------------------|------|------|------------------|-----|-----|------------------|-----|-----|
| | | | 208V | | | 230V | | | 208V | | | 230V | | |
| | | | Circuit | | | | | | Circuit | | | | | |
| | | | 1st ³ | 2nd | 3rd | 1st ³ | 2nd | 3rd | 1st ³ | 2nd | 3rd | 1st ³ | 2nd | 3rd |
| 25B | 6HK16501306 | 52 | 25.0 | 37.6 | – | 26.4 | 41.5 | – | 25 | 40 | – | 30 | 45 | – |
| | 6HK16501506 | 60 | 27.9 | 43.3 | – | 29.6 | 47.9 | – | 30 | 45 | – | 30 | 50 | – |
| | 6HK16501806 | 72 | 45.3 | 39.0 | – | 48.8 | 43.1 | – | 50 | 40 | – | 50 | 45 | – |
| | 6HK16502006 | 80 | 49.6 | 43.3 | – | 53.5 | 47.9 | – | 50 | 45 | – | 60 | 50 | – |
| 37B | 6HK16501306 | 52 | 25.0 | 37.6 | – | 26.4 | 41.5 | – | 25 | 40 | – | 30 | 45 | – |
| | 6HK16501506 | 60 | 27.9 | 43.3 | – | 29.6 | 47.9 | – | 30 | 45 | – | 30 | 50 | – |
| | 6HK16501806 | 72 | 45.3 | 39.0 | – | 48.8 | 43.1 | – | 50 | 40 | – | 50 | 45 | – |
| | 6HK16502006 | 80 | 49.6 | 43.3 | – | 53.5 | 47.9 | – | 50 | 45 | – | 60 | 50 | – |
| 37C | 6HK16501306 | 52 | 25.0 | 37.6 | – | 26.4 | 41.5 | – | 25 | 40 | – | 30 | 45 | – |
| | 6HK16501506 | 60 | 27.9 | 43.3 | – | 29.6 | 47.9 | – | 30 | 45 | – | 30 | 50 | – |
| | 6HK16501806 | 72 | 45.3 | 39.0 | – | 48.8 | 43.1 | – | 50 | 40 | – | 50 | 45 | – |
| | 6HK16502006 | 80 | 49.6 | 43.3 | – | 53.5 | 47.9 | – | 50 | 45 | – | 60 | 50 | – |
| 38B | TBD | TBD | TBD | TBD | TBD | TBD | TBD | TBD | TBD | TBD | TBD | TBD | TBD | TBD |
| 38C | 6HK16501306 | 52 | 25.0 | 37.6 | – | 26.4 | 41.5 | – | 25 | 40 | – | 30 | 45 | – |
| | 6HK16501506 | 60 | 27.9 | 43.3 | – | 29.6 | 47.9 | – | 30 | 45 | – | 30 | 50 | – |
| | 6HK16501806 | 72 | 45.3 | 39.0 | – | 48.8 | 43.1 | – | 50 | 40 | – | 50 | 45 | – |
| | 6HK16502006 | 80 | 49.6 | 43.3 | – | 53.5 | 47.9 | – | 50 | 45 | – | 60 | 50 | – |
| 49C | 6HK16501306 | 52 | 27.9 | 37.6 | – | 29.5 | 41.5 | – | 30 | 40 | – | 30 | 45 | – |
| | 6HK16501506 | 60 | 30.8 | 43.3 | – | 32.7 | 47.9 | – | 35 | 45 | – | 35 | 50 | – |
| | 6HK16501806 | 72 | 48.1 | 39.0 | – | 51.9 | 43.1 | – | 50 | 40 | – | 60 | 45 | – |
| | 6HK16502006 | 80 | 52.5 | 43.3 | – | 56.7 | 47.9 | – | 60 | 45 | – | 60 | 50 | – |
| 49D | 6HK16501306 | 52 | 27.9 | 37.6 | – | 29.5 | 41.5 | – | 30 | 40 | – | 30 | 45 | – |
| | 6HK16501506 | 60 | 30.8 | 43.3 | – | 32.7 | 47.9 | – | 35 | 45 | – | 35 | 50 | – |
| | 6HK16501806 | 72 | 48.1 | 39.0 | – | 51.9 | 43.1 | – | 50 | 40 | – | 60 | 45 | – |
| | 6HK16502006 | 80 | 52.5 | 43.3 | – | 56.7 | 47.9 | – | 60 | 45 | – | 60 | 50 | – |
| | 6HK16502506 | 100 | 52.5 | 43.3 | 21.7 | 56.7 | 47.9 | 24.0 | 60 | 45 | 25 | 60 | 50 | 25 |
| 50C | 6HK16501306 | 52 | 27.9 | 37.6 | – | 29.5 | 41.5 | – | 30 | 40 | – | 30 | 45 | – |
| | 6HK16501506 | 60 | 30.8 | 43.3 | – | 32.7 | 47.9 | – | 35 | 45 | – | 35 | 50 | – |
| | 6HK16501806 | 72 | 48.1 | 39.0 | – | 51.9 | 43.1 | – | 50 | 40 | – | 60 | 45 | – |
| | 6HK16502006 | 80 | 52.5 | 43.3 | – | 56.7 | 47.9 | – | 60 | 45 | – | 60 | 50 | – |
| 50D | 6HK16501306 | 52 | 27.9 | 37.6 | – | 29.5 | 41.5 | – | 30 | 40 | – | 30 | 45 | – |
| | 6HK16501506 | 60 | 30.8 | 43.3 | – | 32.7 | 47.9 | – | 35 | 45 | – | 35 | 50 | – |
| | 6HK16501806 | 72 | 48.1 | 39.0 | – | 51.9 | 43.1 | – | 50 | 40 | – | 60 | 45 | – |
| | 6HK16502006 | 80 | 52.5 | 43.3 | – | 56.7 | 47.9 | – | 60 | 45 | – | 60 | 50 | – |
| | 6HK16502506 | 100 | 52.5 | 43.3 | 21.7 | 56.7 | 47.9 | 24.0 | 60 | 45 | 25 | 60 | 50 | 25 |
| 61C | 6HK16501306 | 52 | 27.9 | 37.6 | – | 29.5 | 41.5 | – | 30 | 40 | – | 30 | 45 | – |
| | 6HK16501506 | 60 | 30.8 | 43.3 | – | 32.7 | 47.9 | – | 35 | 45 | – | 35 | 50 | – |
| | 6HK16501806 | 72 | 48.1 | 39.0 | – | 51.9 | 43.1 | – | 50 | 40 | – | 60 | 45 | – |
| | 6HK16502006 | 80 | 52.5 | 43.3 | – | 56.7 | 47.9 | – | 60 | 45 | – | 60 | 50 | – |
| 61D | 6HK16501306 | 52 | 27.9 | 37.6 | – | 29.5 | 41.5 | – | 30 | 40 | – | 30 | 45 | – |
| | 6HK16501506 | 60 | 30.8 | 43.3 | – | 32.7 | 47.9 | – | 35 | 45 | – | 35 | 50 | – |
| | 6HK16501806 | 72 | 48.1 | 39.0 | – | 51.9 | 43.1 | – | 50 | 40 | – | 60 | 45 | – |
| | 6HK16502006 | 80 | 52.5 | 43.3 | – | 56.7 | 47.9 | – | 60 | 45 | – | 60 | 50 | – |
| | 6HK16502506 | 100 | 52.5 | 43.3 | 21.7 | 56.7 | 47.9 | 24.0 | 60 | 45 | 25 | 60 | 50 | 25 |

NOTES:

- (0,1) - 0 = no service disconnect OR 1 = with service disconnect.
- (1,2) - 1 = with service disconnect, no breaker jumper bar OR 2 = with service disconnect & breaker jumper bar.
- MOP = Maximum Overcurrent Protection device; must be HACR type circuit breaker or time delay fuse. The 1st circuit includes blower motor amps. Refer to the latest edition of the National Electric Code or in Canada the Canadian electrical Code and local codes to determine correct wire sizing.

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

| Air Handler Models | Heater Models ¹ | Heater Amps @240V | Field Wiring | | | |
|--------------------|----------------------------|-------------------|-----------------------|------|------------------|------|
| | | | Min. Circuit Ampacity | | MOP ² | |
| | | | 208V | 230V | 208V | 230V |
| 25B | 6HK36501025 | 23.1 | 31.3 | 33.3 | 35 | 35 |
| | 6HK36501525 | 34.6 | 43.7 | 47.1 | 45 | 50 |
| | 6HK36501825 | 41.6 | 51.3 | 55.5 | 50 | 60 |
| | 6HK46502025 ³ | 46.2 | 56.3 | 61.0 | 60 | 70 |
| 37B | 6HK36501025 | 23.1 | 31.3 | 33.3 | 35 | 35 |
| | 6HK36501525 | 34.6 | 43.7 | 47.1 | 45 | 50 |
| | 6HK36501825 | 41.6 | 51.3 | 55.5 | 55 | 60 |
| | 6HK46502025 ³ | 46.2 | 56.3 | 61.0 | 60 | 70 |
| 37C | 6HK36501025 | 23.1 | 31.3 | 33.3 | 35 | 35 |
| | 6HK36501525 | 34.6 | 43.7 | 47.1 | 45 | 50 |
| | 6HK36501825 | 41.6 | 51.3 | 55.5 | 55 | 60 |
| | 6HK46502025 ³ | 46.2 | 56.3 | 61.0 | 60 | 70 |
| 38B | TBD | TBD | TBD | TBD | TBD | TBD |
| 38C | 6HK36501025 | 23.1 | 31.3 | 33.3 | 35 | 35 |
| | 6HK36501525 | 34.6 | 43.7 | 47.1 | 45 | 50 |
| | 6HK36501825 | 41.6 | 51.3 | 55.5 | 55 | 60 |
| | 6HK46502025 ³ | 46.2 | 56.3 | 61.0 | 60 | 70 |
| 49C | 6HK36501025 | 23.1 | 34.2 | 36.4 | 35 | 40 |
| | 6HK36501525 | 34.6 | 46.6 | 50.2 | 50 | 55 |
| | 6HK36501825 | 41.6 | 54.2 | 58.6 | 55 | 60 |
| | 6HK46502025 ³ | 46.2 | 59.2 | 64.1 | 60 | 70 |
| 49D | 6HK36501025 | 23.1 | 34.2 | 36.4 | 35 | 40 |
| | 6HK36501525 | 34.6 | 46.6 | 50.2 | 50 | 55 |
| | 6HK36501825 | 41.6 | 54.2 | 58.6 | 55 | 60 |
| | 6HK46502025 ³ | 46.2 | 59.2 | 64.1 | 60 | 70 |
| | 6HK46502525 ³ | 57.7 | 71.6 | 77.9 | 80 | 80 |
| 50C | 6HK36501025 | 23.1 | 34.2 | 36.4 | 35 | 40 |
| | 6HK36501525 | 34.6 | 46.6 | 50.2 | 50 | 55 |
| | 6HK36501825 | 41.6 | 54.2 | 58.6 | 55 | 60 |
| | 6HK46502025 ³ | 46.2 | 59.2 | 64.1 | 60 | 70 |
| 50D | 6HK36501025 | 23.1 | 34.2 | 36.4 | 35 | 40 |
| | 6HK36501525 | 34.6 | 46.6 | 50.2 | 50 | 55 |
| | 6HK36501825 | 41.6 | 54.2 | 58.6 | 55 | 60 |
| | 6HK46502025 ³ | 46.2 | 59.2 | 64.1 | 60 | 70 |
| | 6HK46502525 ³ | 57.7 | 71.6 | 77.9 | 80 | 80 |
| 61C | 6HK36501025 | 23.1 | 34.2 | 36.4 | 35 | 40 |
| | 6HK36501525 | 34.6 | 46.6 | 50.2 | 50 | 55 |
| | 6HK36501825 | 41.6 | 54.2 | 58.6 | 55 | 60 |
| | 6HK46502025 ³ | 46.2 | 59.2 | 64.1 | 60 | 70 |
| 61D | 6HK36501025 | 23.1 | 34.2 | 36.4 | 35 | 40 |
| | 6HK36501525 | 34.6 | 46.6 | 50.2 | 50 | 55 |
| | 6HK36501825 | 41.6 | 54.2 | 58.6 | 55 | 60 |
| | 6HK46502025 ³ | 46.2 | 59.2 | 64.1 | 60 | 70 |
| | 6HK46502525 ³ | 57.7 | 71.6 | 77.9 | 80 | 80 |

NOTES:

1. 6HK3 = 3-Phase with terminal block connections only, 6HK4 = 3-Phase with service disconnect
2. MOP = Maximum Overcurrent Protection device; must be HACR type circuit breaker or time delay fuse. The 1st circuit includes blower motor amps. Refer to the latest edition of the National Electric Code or in Canada the Canadian electrical Code and local codes to determine correct wire sizing.
3. The 20kW and 25kW heater models (6HK46502025 and 6HK46502525) 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.

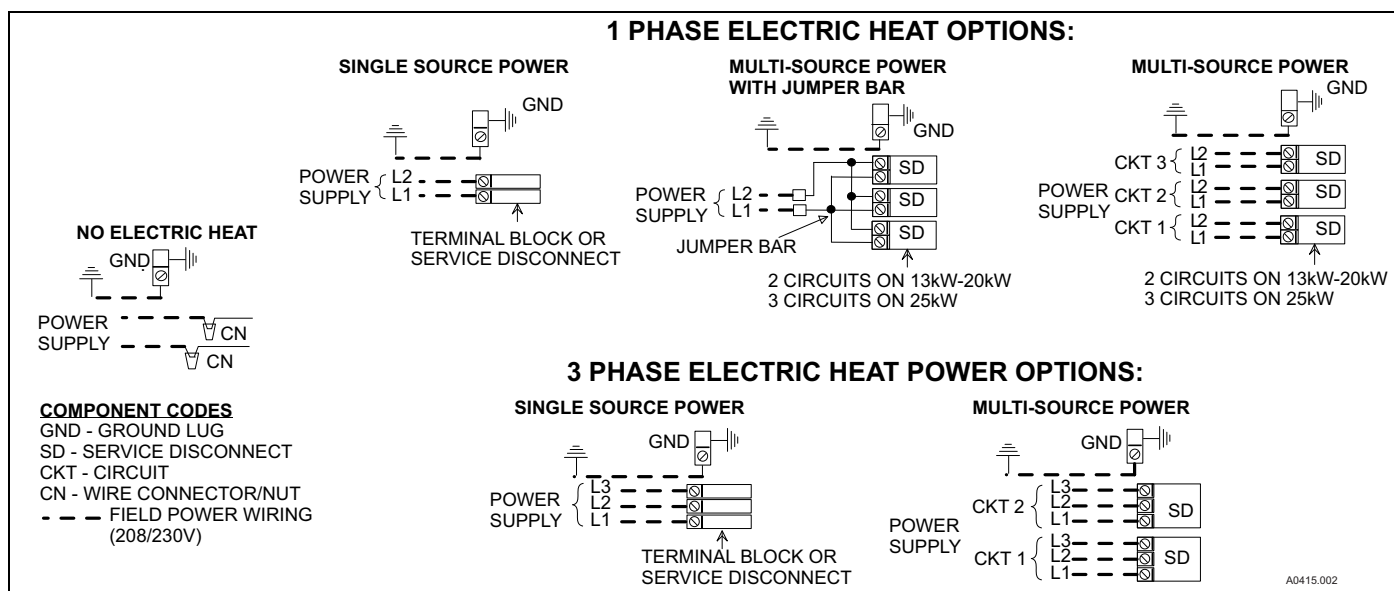
ELECTRICAL DATA FOR MULTI-SOURCE POWER SUPPLY: 208/230-3-60

| Air Handlers Models | Heater Models ¹ | Heater Amps @240V | Min. Circuit Ampacity | | | | MOP ² | | | |
|---------------------|----------------------------|-------------------|-----------------------|------|------------------|------|------------------|-----|------------------|-----|
| | | | 208V | | 230V | | 208V | | 230V | |
| | | | Circuit | | | | Circuit | | | |
| | | | 1st ² | 2nd | 1st ² | 2nd | 1st ² | 2nd | 1st ² | 2nd |
| 25B | 6HK46502025 | 46.2 | 31.3 | 25.0 | 33.3 | 27.6 | 35 | 25 | 35 | 30 |
| 37B | 6HK46502025 | 46.2 | 28.8 | 22.6 | 30.6 | 25.0 | 35 | 25 | 35 | 30 |
| 37C | 6HK46502025 | 46.2 | 31.3 | 25.0 | 33.3 | 27.6 | 35 | 25 | 35 | 30 |
| 38B | TBD | TBD | TBD | TBD | TBD | TBD | TBD | TBD | TBD | TBD |
| 38C | 6HK46502025 | 46.2 | 31.3 | 25.0 | 33.3 | 27.6 | 35 | 25 | 35 | 30 |
| 49C | 6HK46502025 | 46.2 | 34.1 | 25.0 | 36.4 | 27.6 | 35 | 25 | 40 | 30 |
| 49D | 6HK46502025 | 46.2 | 34.1 | 25.0 | 36.4 | 27.6 | 35 | 25 | 40 | 30 |
| | 6HK46502525 | 57.7 | 40.4 | 31.3 | 43.3 | 34.6 | 45 | 35 | 45 | 35 |
| 50C | 6HK46502025 | 46.2 | 9.1 | 0.0 | 8.8 | 0.0 | 35 | 25 | 40 | 30 |
| | 6HK46502525 | 57.7 | 9.1 | 0.0 | 8.8 | 0.0 | 45 | 35 | 45 | 35 |
| 50D | 6HK46502025 | 46.2 | 27.9 | 18.8 | 29.5 | 20.7 | 35 | 25 | 40 | 30 |
| | 6HK46502525 | 57.7 | 31.7 | 22.6 | 33.7 | 25.0 | 45 | 35 | 45 | 35 |
| 61C | 6HK46502025 | 46.2 | 34.1 | 25.0 | 36.4 | 27.6 | 35 | 25 | 40 | 30 |
| 61D | 6HK46502025 | 46.2 | 34.1 | 25.0 | 36.4 | 27.6 | 35 | 25 | 40 | 30 |
| | 6HK46502525 | 57.7 | 40.4 | 31.3 | 43.3 | 34.6 | 45 | 35 | 45 | 35 |

NOTES:

1. The 20kW and 25kW heater models (6HK46502025 and 6HK46502525) come with service disconnects standard.
2. MOP = Maximum Overcurrent Protection device; must be HACR type circuit breaker or time delay fuse. The 1st circuit includes blower motor amps. Refer to the latest edition of the National Electric Code or in Canada the Canadian electrical Code and local codes to determine correct wire sizing.

POWER WIRING - LINE CONNECTIONS



ACCESSORIES

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

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

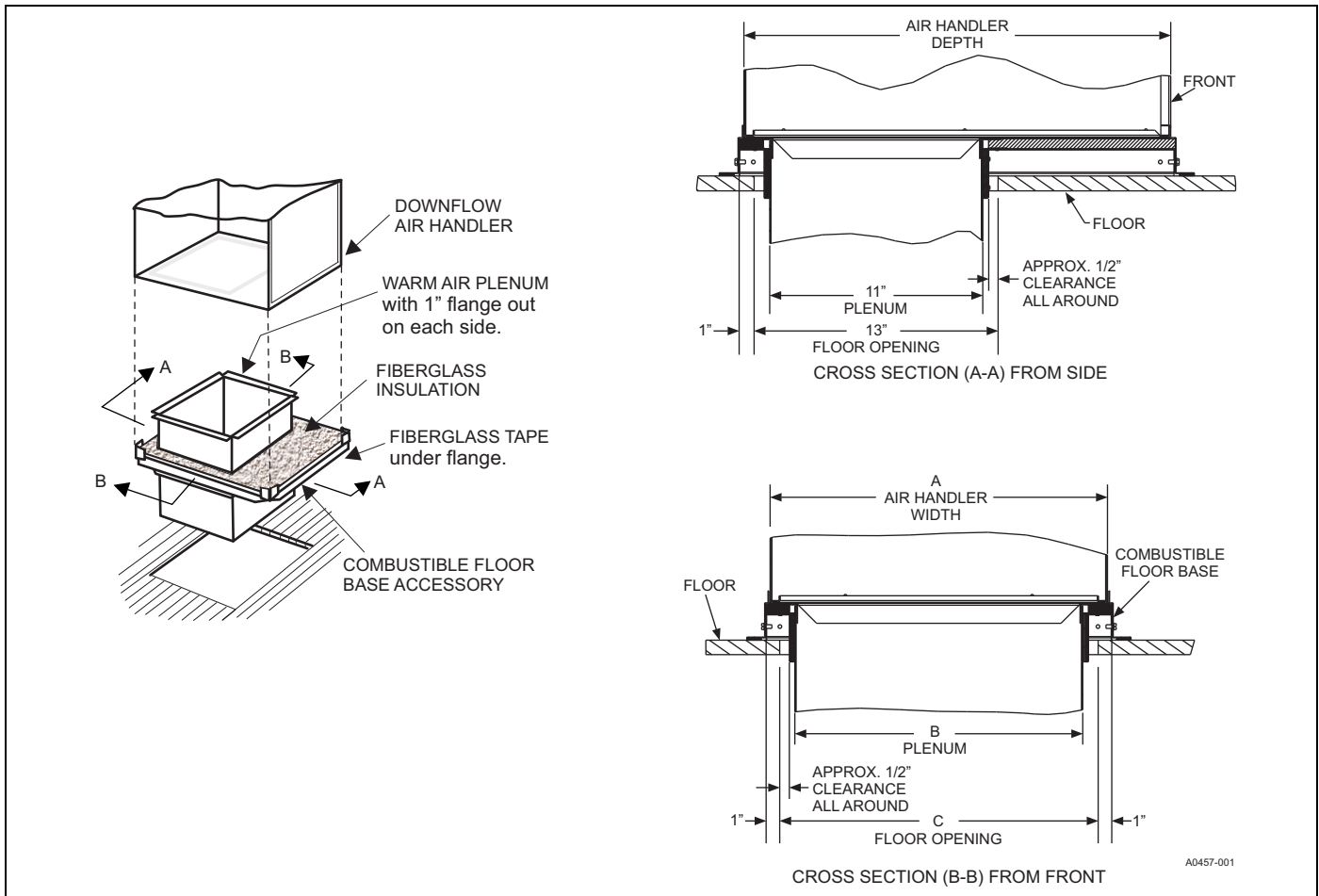
| SINGLE SOURCE POWER ACCESSORIES (SINGLE PHASE) | |
|--|---|
| S1-02435670000 | For heat kits with 2 service disconnects. |
| S1-02435671000 | For heat kits with 3 service disconnects. |
| SINGLE SOURCE POWER ACCESSORY (THREE PHASE) | |
| S1-32436041000 | Contains a terminal block and wiring to connect service disconnects together. |

Combustible Floor Base Accessory - If an electric heat accessory which is rated for greater than zero clearance to combustible surfaces is installed in these air handlers in the downflow operating positions on a combustible floor, one of the following combustible floor base accessory models is required: S1-1FB1917, S1-1FB1921, S1-1FB1924.

Breaker Moisture Seal Accessory - A clear circuit breaker moisture barrier seals the breakers from humidity and dust. The flexibility of the clear cover allows circuit breakers to be turned ON or OFF without removing the cover. The cover firmly attaches to the access panel around the circuit breakers with the use of double backed adhesive tape. To ensure that moisture or dust does not contaminate circuit breakers, an S1-02435672000, Circuit Breaker, Cover Seal may be ordered.

Thermostat - Use the compatible *HxTM* thermostat with the AVV air handler for the communicating system to function. Use only the York S1-THXU280* *HxTM* Touchscreen Thermostat. For more information, see the thermostat section of the Product Equipment Catalog.

COMBUSTIBLE FLOOR BASE ACCESSORY



| Floor Base Models | Used with | Dimensions | | |
|-------------------|-----------------------------------|------------|------|------|
| | | A | B | C |
| 1FB1917 | AVV25B / AVV37B / AVV38B | 17.5 | 14.0 | 16.0 |
| 1FB1921 | AVV37C / AVV38C / AVV49C / AVV61C | 21.0 | 17.5 | 19.5 |
| 1FB1924 | AVV49D / AVV50D / AVV61D | 24.5 | 21.0 | 23.0 |

LIMITATIONS

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

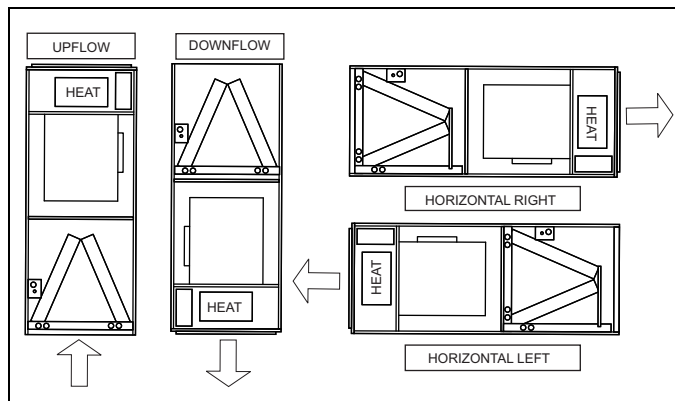
Voltage limits are as follows:

| Air Handler Voltage | Voltage code | Normal Operating Voltage Range ¹ |
|---------------------|--------------|---|
| 208/230-1-60 | 06 | 187-253 |

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

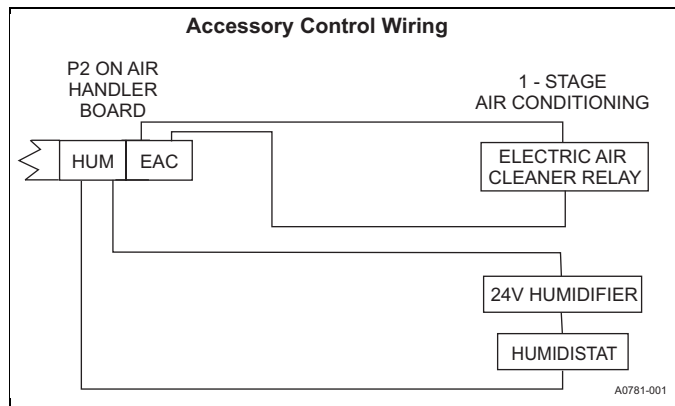
Airflow must be within the minimum and maximum limits approved for electric heat, evaporator coils and outdoor units.

TYPICAL APPLICATIONS



TYPICAL THERMOSTAT CONNECTION

Cooling Models with and without Electric Heat Wiring

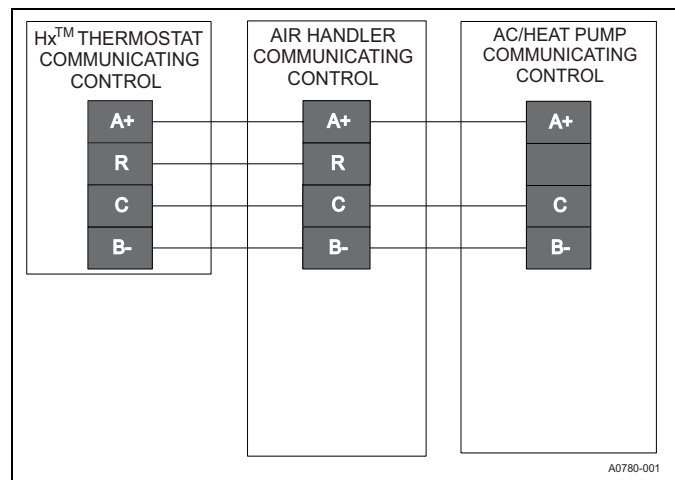


* Optional dehumidification humidistat switch contacts open on humidity rise.

NOTES:

- "Y/Y2" Thermostat wire must be connected for full CFM and applications requiring 60 second blower off delay for SEER enhancement.
- Move HUM STAT jumper on air handler control board to YES position if humidistat is used.
- For heat pump applications - set AC/HP jumper on air handler control board to the HP position.

Air Handler with Communicating AC or HP



TEMPORARY REPAIR MODE COOLING AIR FLOW DATA (CFM)^{1,3, 4}
(Only applicable when wired for temporary operation in REPAIR MODE. Not applicable to normal variable capacity operation.)

| High/Low Speed Cooling and Heat Pump CFM | | | | | | | |
|--|----------------------|--------|--------|--------|--------|--------|--------|
| Cool Tap | ADJ Tap ² | AVV25B | AVV37B | AVV37C | AVV38B | AVV38C | AVV49C |
| | | High | High | High | High | High | High |
| A | B | 1350 | 1350 | 1350 | TBD | 1596 | 1760 |
| B | B | 1238 | 1238 | 1238 | TBD | 1400 | 1540 |
| A | A | 1200 | 1200 | 1200 | TBD | 1425 | 1600 |
| B | A | 1100 | 1100 | 1100 | TBD | 1250 | 1400 |
| A | C | 1050 | 1050 | 1050 | TBD | 1268 | 1424 |
| C | B | 1125 | 1125 | 1125 | TBD | 1344 | 1320 |
| B | C | 963 | 963 | 963 | TBD | 1113 | 1246 |
| D | B | 900 | 900 | 900 | TBD | 1120 | 1100 |
| C | A | 1000 | 1000 | 1000 | TBD | 1200 | 1200 |
| D | A | 800 | 800 | 800 | TBD | 1000 | 1000 |
| C | C | 875 | 875 | 875 | TBD | 1068 | 1068 |
| D | C | 700 | 700 | 700 | TBD | 890 | 890 |

| Cool Tap | ADJ Tap ² | AVV49D | AVV50C | AVV50D | AVV61C | AVV61D | |
|----------|----------------------|--------|--------|--------|--------|--------|--|
| | | High | High | High | High | High | |
| A | B | 1760 | 1760 | 1760 | 1860 | 1935 | |
| B | B | 1540 | 1540 | 1540 | 1840 | 1772 | |
| A | A | 1600 | 1600 | 1600 | 1750 | 1800 | |
| B | A | 1400 | 1400 | 1400 | 1600 | 1575 | |
| A | C | 1424 | 1424 | 1424 | 1531 | 1665 | |
| C | B | 1320 | 1320 | 1320 | 1581 | 1491 | |
| B | C | 1246 | 1246 | 1246 | 1400 | 1457 | |
| D | B | 1100 | 1100 | 1100 | 1323 | 1350 | |
| C | A | 1200 | 1200 | 1200 | 1375 | 1325 | |
| D | A | 1000 | 1000 | 1000 | 1150 | 1200 | |
| C | C | 1068 | 1068 | 1068 | 1203 | 1226 | |
| D | C | 890 | 890 | 890 | 1006 | 1110 | |

NOTES:

- Air handler units have been tested to UL 1995 / CSA 22.2 No. 236 standards up to 0.50" wc. external static pressure.
 Dry coil conditions only, tested without filters.
 For optimal performance, external static pressures of 0.2" to 0.5" are recommended. Heating applications tested at 0.50" w.c. esp. Above 0.5" CFM is reduced by 2% per 0.1" increase in static.
- The ADJ tap does not affect the HEAT tap setting.
 Low speed cooling used only with two stage outdoor units. Speed is preset to 65% of high speed.
 Dehumidification speed is 85% of jumper selected COOL tap and ADJUST tap.
 When operating in both heat pump and electric heat modes, the airflow (CFM) will be per HEAT tap CFM values only.
 At some settings, LOW COOL and/or LOW HEAT 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.
 Airflow (CFM) indicator light (LED2) flashes once for every 100 CFM (i.e.: 12 flashes is 1200 CFM) - blinks are approximate +/- 10% of actual CFM.
- All CFMs are shown at 0.5" 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.
- The ADJ "D" tap should not be used.
 The outdoor unit controls the indoor fan speed during heat pump heating or cooling operation.
 The indoor circulating only fan speed operates at approximately 63% of the HIGH cooling speed tap setting.

ELECTRIC HEATING AIR FLOW DATA (CFM)^{1, 2, 3, 4}

| High/Low Speed Heat CFM | | | | | | | | | | | | |
|-------------------------|--------|------|--------|------|--------|------|--------|-----|--------|------|--------|------|
| Heat Tap | AVV25B | | AVV37B | | AVV37C | | AVV38B | | AVV38C | | AVV49C | |
| | High | Low | High | Low | High | Low | High | Low | High | Low | High | Low |
| A | 1225 | 1020 | 1225 | 1020 | 1425 | 1150 | TBD | TBD | 1430 | 1200 | 1650 | 1200 |
| B | 1150 | 950 | 1150 | 950 | 1150 | 1000 | TBD | TBD | 1375 | 1150 | 1550 | 1150 |
| C | 950 | 750 | 950 | 750 | 925 | 925 | TBD | TBD | 1150 | 1050 | 1375 | 1050 |
| D | 725 | 725 | 725 | 725 | 675 | 675 | TBD | TBD | 900 | 900 | 1150 | 1000 |

| Heat Tap | AVV49D | | AVV50C | | AVV50D | | AVV61C | | AVV61D | | | |
|----------|--------|------|--------|------|--------|------|--------|------|--------|------|--|--|
| | High | Low | High | Low | High | Low | High | Low | High | Low | | |
| A | 1650 | 1150 | 1650 | 1200 | 1650 | 1150 | 1850 | 1250 | 1825 | 1150 | | |
| B | 1600 | 1050 | 1550 | 1150 | 1600 | 1050 | 1775 | 1200 | 1775 | 1050 | | |
| C | 1325 | 1000 | 1375 | 1050 | 1325 | 1000 | 1570 | 1150 | 1570 | 1000 | | |
| D | 1125 | 780 | 1150 | 1000 | 1125 | 780 | 1370 | 1050 | 1375 | 950 | | |

NOTES:

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For optimal performance, external static pressures of 0.2" to 0.5" are recommended. Heating applications tested at 0.50" w.c. esp. Above 0.5" CFM is reduced by 2% per 0.1" increase in static.
- The ADJ tap does not affect the HEAT tap setting.
Airflow (CFM) indicator light (LED2) flashes once for every 100 CFM (i.e.: 12 flashes is 1200 CFM) - blinks are approximate +/- 10% of actual CFM.
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- 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.

NOTES