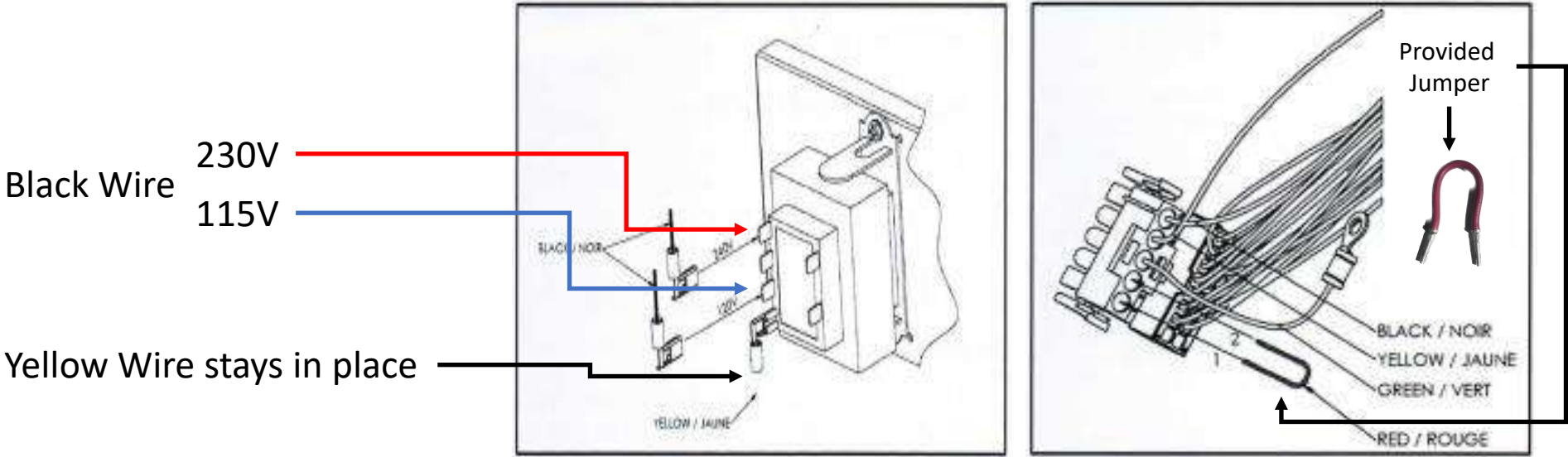


# Innovair Duotec Wiring Guide



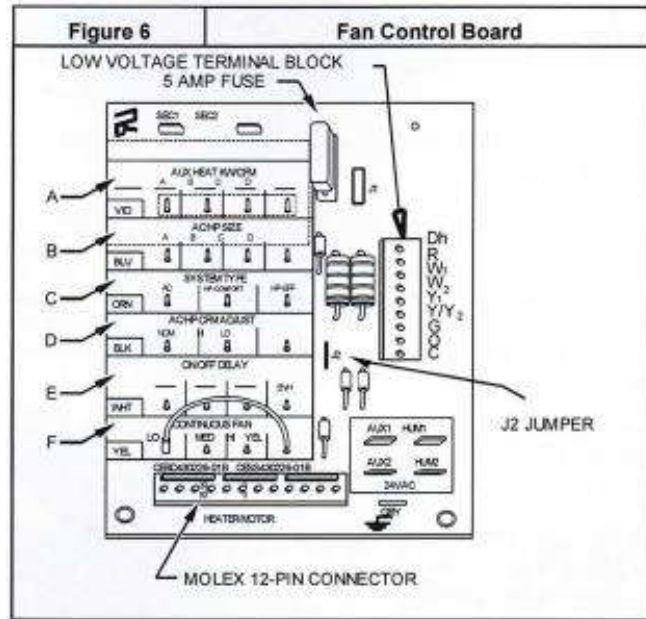
| Scenario                   | Voltage | Indoor unit  | 24V Step down Transformer Wiring                                     | 5 Pin Motor Connector                                      |
|----------------------------|---------|--------------|--|--|
| <a href="#">Scenario 1</a> | 230V    | Innovair AHU | Yellow – COM / Black – 240 (No need to do anything) Factory Default. | No need to do anything                                     |
| <a href="#">Scenario 2</a> | 115V    | Innovair AHU | Yellow – COM / Black - 120   | Install in position 1 and 2 the provided red jumper cable. |



# Innovair Duotec Initial Setup Guide



Indoor PCB



## A: Auxiliary Heat Kw/CFM (Violet Wire)

Select the capacity size of the electric heat strip is you are going to be installing one following the model of your air handler. Use: (Table 1)

## B: Outdoor Unit Size (Blue Wire)

Select the outdoor unit size that the indoor air handler will be working with following the model of your air handler. Use: (Table 2)

## C: System Type – AC/HP (Orange Wire)

Select one from the three types of systems. Use: (Table 3)

## D: AC/HP CFM Adjust (Black Wire)

This selection basically selects: Medium, Low, or High Airflow.

## E: ON/OFF Delay (White Wire)

This selection basically selects the desired time delay. **Note:** Delay selections are active in cooling and heat pump heating modes only. Auxiliary heating modes have a one (1) minute off delay and zero (0) on delay programmed into the ECM motor that cannot be overridden.

## F: Continuous Fan (Yellow Wire)

Select the desired continuous fan speed when thermostat is set on continuous fan operation by using the yellow jumper wire. **Note:** If installed with a two-stage outdoor unit, do not select HI speed continuous fan. If HI is selected, low stage compression (low-speed cooling) will also run HI fan speed possibly resulting in insufficient dehumidification.

| Table 1 | Airflow Adjust Table    |              |      |             |
|---------|-------------------------|--------------|------|-------------|
| Model # | AUX HEAT RANGE (Kw/CFM) |              |      |             |
|         | A                       | B            | C    | D           |
| AHV08   | 15Kw                    | ---          | 10Kw | 5Kw         |
| AHV12   | ---                     | 15 thru 20Kw | 10Kw | 5Kw         |
| AHV16   | ---                     | 25Kw         | ---  | 5 thru 20Kw |
| AHV20   | ---                     | ---          | 25Kw | 5 thru 20Kw |

| Table 2 | Outdoor Unit Size       |       |       |       |
|---------|-------------------------|-------|-------|-------|
| Model # | Outdoor Unit Size (BTU) |       |       |       |
|         | A                       | B     | C     | D     |
| AHV08   | 36000                   | 30000 | 24000 | 18000 |
| AHV12   | 48000                   | 36000 | 30000 | 24000 |
| AHV16   | 60000                   | 48000 | 42000 | 36000 |
| AHV20   | 60000                   | 48000 | 42000 | 36000 |

| Table 3    | System Type   |
|------------|---|
| AC         | Air Conditioner selection provides approx. 400 CFM / Ton. for greater efficiency and humidity control with the AC/HP CFM Adjust set to the NOM tap. (To achieve approx. 460 CFM / Ton. Move tap to (HI) position. Refer to appropriate airflow tables for exact CFM settings) |
| HP-COMFORT | Heat Pump Comfort selection provides approx. 350 CFM / Ton. For higher than normal heating air delivery temperature. Provides approx. 350 CFM / Ton. Cooling airflow for good humidity removal with the AC/HP CFM ADJUST set to the nominal (NOM) tap.                        |
| HP-EFF     | Heat Pump Efficiency selection provides same airflow for heating and cooling modes to increase overall HP efficiency; approx. 400 CFM / Ton. With the AC/HP CFM ADJUST set to nominal (NOM) tap.  |