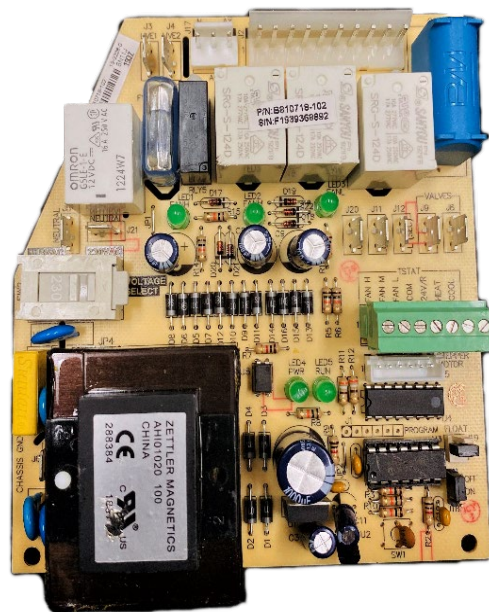


PCB-U-HW-B 24V Thermostat Adapter Board

MULTIAQUA

The PCB-U-HW-B Thermostat Adapter Board is a field installed accessory **designed to be used with MultiAqua fan coil model MHW**. This adapter board allows the fan coil to be connected to and controlled by a common 24V thermostat. This board is **3 speed fan** capable. The use of this adapter board will also allow the application of a **24V Building Automation System (BAS) compatible** thermostat. Only the thermostat will communicate to the BAS. The unit is controlled from the 24V of the thermostat. Wiring diagram and functions on are on pages 2 and 3.



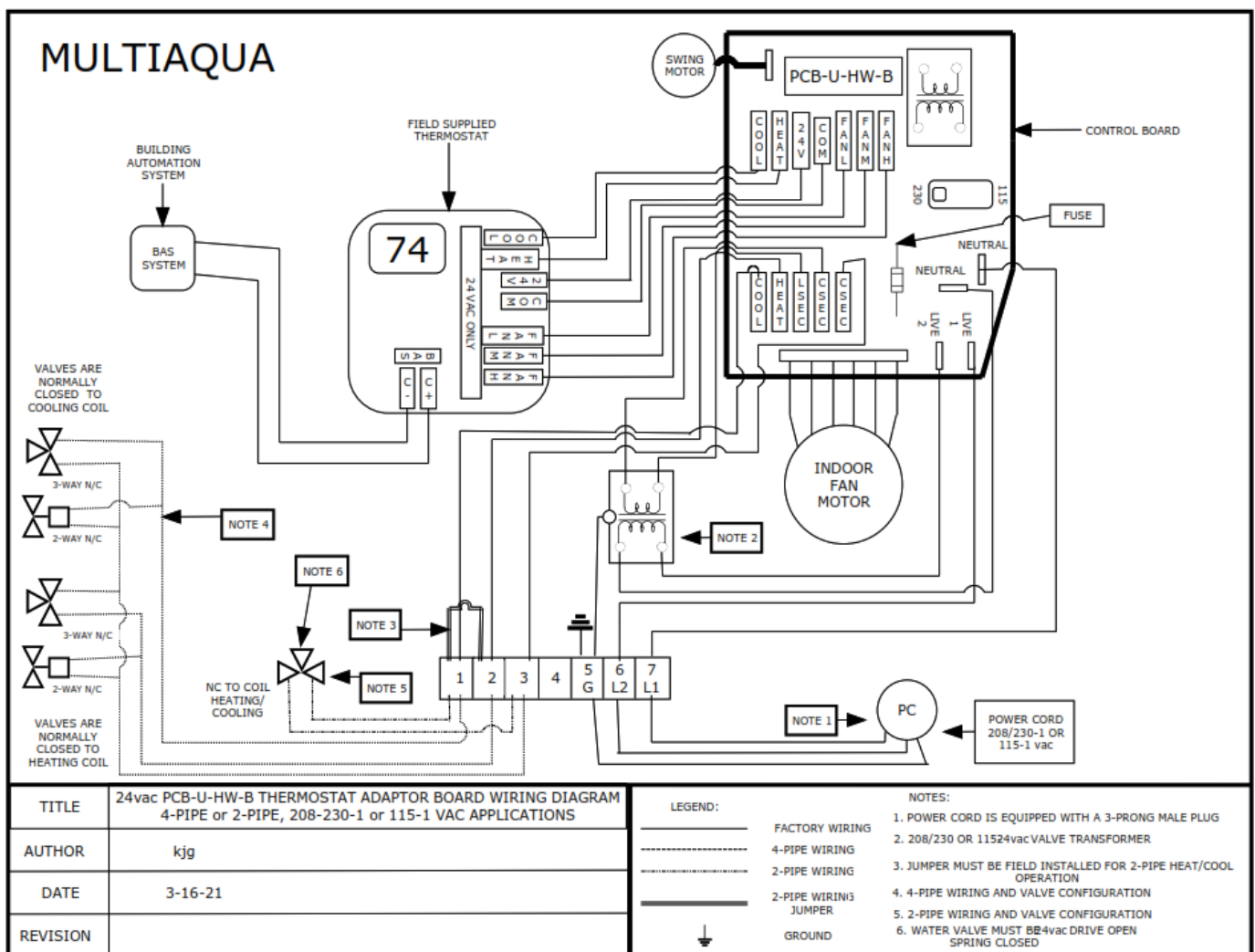
TITLE	PCB-U-HW-B Submittal & Wiring Diagram	Model Number	Main Voltage
AUTHOR	KIG	PCB-U-HW-B	115V OR 230V
DATE	3-17-21	Thermostat Voltage	Width/Height
REVISION	1.5	24V	116.5 (mm) x 127.5 (mm)

1. APPLICATION

This adaptor board is designed to replace the proprietary control board on the MHW fan coils. This device will allow the fan coil to be controlled with a standard 24V thermostat and an external 24V transformer for valve control. The 24V transformer is supplied with the unit. The water control valves must be a 24V drive open and spring return closed type.

1.1 Features

- 24V Thermostat input.
- Power LED for operational status.
- 3 fan motor relays for 3-Speed fan operation.
- 3 fan speed LEDs (High/Medium/Low)
- Swing motor driver to open and close the discharge air louver.
- Run LED for operation status of Swing motor.
- Adapter board available in 208/230 or 115V.
- 2 or 4-pipe operation



2. LOCAL CONTROL

2.1. Supply voltage selections

- 115V: for 115V
- 230V: for 208/230V

2.2. Fan motor relays

- Controlled by fan speed outputs from the thermostat (High, Medium, Low)

2.3. Swing motor driver

- Swing motor will operate the discharge air louver together with the Hi-wall operation
- When the fan motor starts operation, the swing motor will drive the louver to fully open and hold that position
- When fan motor stops operation, the swing motor will drive the louver to fully closed position

2.4. LED display lights

- Fan high, medium and low LEDs: Displays fan motor speed operational status
- Power LED
- OFF: Fan motor relays are turned off. No fan operation
- ON: One of the fan motor relays is turned on

2.5. Run LEDs

- Flashing 1Hz: Swing motor is running
- OFF: Swing motor stopped
- ON: Swing motor at maximum position

2.6. Valve control

- Dedicated 24V terminations for the operation of a hot and or cold-water control valve(s)

3. TECHNICAL DATA

Fan Relay Board

Primary Operating Voltage

115V or 208/230V - 50/60Hz (Select by voltage switch)

Secondary Operating Voltage

24V 20V

Fuse type and rating

Cylinder (20mm.) 3.15A 250vac (Fast-blow)

Board dimensions

116.5mm x 127.5mm (Tolerance +/- 1.0mm)

Thermostat

Normal Operating Voltage

24V 50/60Hz

Swing motor

Normal Operating Voltage

12Vdc Unipolar drive