

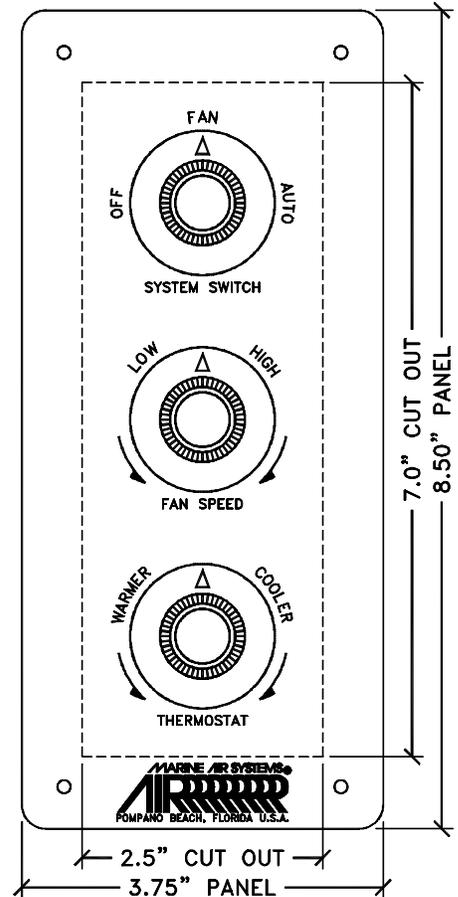
# CHILLED WATER AIR HANDLER MANUAL CONTROL (MCP-AH3KB)

The MCP-AH 3-knob control panel should be located within cap tube length of the air handler. By reversing the knobs to the other side of the plate, the 3-knob MCP-AH may be configured either vertically or horizontally. The cut out size is 2.5" (64mm) by 7.0" (178mm). Once the cut out is made, carefully uncoil the copper cap tube with return air sensor (copper bulb) and route the control wires and cap tube through the hole and back to the air handler *using caution not to kink the cap tube*. Mount the return air sensor, with the clips provided in the return air stream, i.e. behind the return grille. The sensor bulb must not be in contact with anything but the clips. Make electrical connections according to the wiring diagram provided. There is a 10amp fuse located behind the panel that protects the fan motor circuit, replace this fuse as needed.

## MCP-AH OPERATION

- 1) Turn SYSTEM SWITCH control knob to OFF.
- 2) Turn on air handler circuit breaker.
- 3) Turn the SYSTEM SWITCH control knob to FAN, this energizes the fan. Turn THERMOSTAT control knob to the coolest position by rotating fully clockwise. If the chilled water system is in heat mode, turn THERMOSTAT control knob counter-clockwise for heat.
- 4) Turn FAN SPEED control knob clockwise to highest setting.
- 5) Verify that the fan is running and that there is steady airflow out of the supply air grille.
- 6) Turn the SYSTEM SWITCH to AUTO, this will energize the water valve and/or energize the electric heat (if installed and needed). The light on the control will illuminate to indicate the valve is open.
- 7) To set the thermostat, allow sufficient time for the unit to cool/heat the area to the desired temperature. When the area is sufficiently cooled/heated, turn the thermostat knob slowly toward the center position until it clicks once (the indicator light will turn off). The thermostat is now set to maintain a constant temperature.

Note: The thermostat on the MCP-AH control panel serves to cycle the water valve opened or closed with a 3.5°F (6.3°C) differential.



## CONTROL KNOB SETTINGS

**FAN:** The fan runs continuously but the water valve remains closed, no cooling or heating.

**AUTO:** The fan runs continuously and the thermostat opens or closes the water valve and energizes the electric heat (if installed) as needed.

## CHANGEOVER SWITCH

Using the enclosed spring, attach the changeover switch on the copper pipe supplying water to the air handler valve. Cooling or heating depends on circulating water temperature. If the thermostat calls for cooling but the chiller is in heat mode, then the changeover switch will prevent the valve from energizing. If the thermostat calls for heat but the chiller is in cool mode, then the changeover switch will prevent the valve from energizing. The changeover switch will NOT prevent electric heat from energizing.