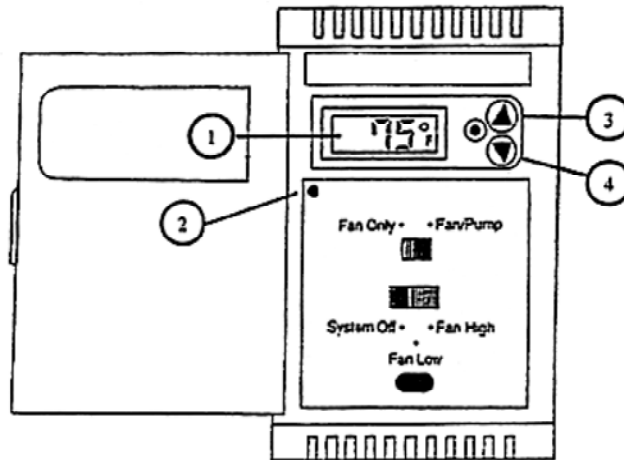


Model 7619 (2001 / 2002)



Warning: House Voltage can be lethal. Turn off power before installing Controller. The installer must be technically qualified for this type of installation. A qualified electrician should check all wiring and circuit breakers and be sure that the cooler is correctly grounded.

Caution: Turn the Controller switch to "off" position before turning power "on". Read all instructions first before installation.

1. Introduction

Your Cooler Controller controls a standard 115vac, 60Hz, residential evaporative cooler with blower motors from 1/3 HP up to 1 HP.

Manual slide switches allow for 5 different cooler settings: Off, Fan Only - High Speed, Fan Only - Low Speed, Fan / Pump - High Speed and Fan / Pump - Low Speed. With the respective slide switch in the Fan / Pump position, an integral pad pre-wetting feature automatically operates the pump for 2 minutes prior to starting the blower motor.

A Liquid Crystal Display (LCD) constantly displays the room temperature. Once a SET POINT TEMPERATURE (SPT) is defined, the Controller will operate the cooler until it reaches a temperature that is 3° below the SPT. The default SPT is 80° F (for example, in the event of power failure).

2. Features

- Electrical Ratings: 115vac, 60Hz, up to 1 HP blower motor @ 20 amp, 2 speed, 1.5 amp pump
- Room temperature constantly displayed
- Temperature adjustment always accessible
- Case door covers operating control slide switches
- Power/Pump "ON" red LED indicator light
- High impact ABS case
- Two minute pad pre-wetting feature
- Automatic 5 minute "OFF-TO-ON" delay
- Dual slide switch controls for SYSTEM OFF, or FAN LOW, or FAN HIGH, and FAN ONLY or FAN/PUMP
- Installs in standard single gang electrical junction box
- Two gang wall plate adapter available separately (PN 7616)
- Loss of power default temperature setting of 80° F

3. Installation

Important: Turn off electricity at circuit breaker before working on Controller or Evaporative Cooler.

Your Controller mounts into a standard 2" x 4" single gang electrical junction box. An adapter plate is available separately to mount the Controller into a two-gang box. For new installations, locate your Controller so that it senses average house temperatures and is not subject to unusual temperature variations. Avoid positioning it nearby an air conditioning vent or within an immediate area of a heat-generating appliance. Normally a hallway location is ideal.

With circuit breaker turned off, connect the thermostat wires as shown within the schematic. Use the wire nuts supplied. Position all wiring into junction box. Mount thermostat to junction box using the screws provided. Turn circuit breaker back on.

If replacing a manual, 6 position rotary wall switch with the Digital Thermostat...

Your old manual, 6 position rotary wall switch has 4 wires connected to it. Most of these switches have wire terminal designations as follows: terminal "L1" is input power; terminal "2" is pump; terminal "1" is blower motor, low speed; terminal "C" is blower motor, high speed.

ELECTRICAL DIAGRAM

Power - Black	Pump - Light Blue with Black Stripe
Ground - Green	Low Fan - Red
Common - White	High Fan - Yellow with Black Stripe

4. Set-Up and Operation

Once your Controller is properly installed, only two other steps need to be performed in order for your digital thermostat to operate as intended. The first is to program the SET POINT TEMPERATURE (SPT) and the second is to position the two slide switches for the desired cooler operating setting.

With the power on, the LCD shows the current temperature. Simply push the UP or DOWN arrow buttons until the desired SPT value is displayed on the LCD. At this point, the Controller will flash that value for 15 seconds and will then operate the cooler until it reaches a temperature that is 3° below the SPT. To change the SPT, again simply push the UP or DOWN arrow buttons per above.

Open the case door and position the two slide switches to the desired operating setting. The manual slide switches allow for 5 different cooler settings. Off, Fan Only - High Speed, Fan Only - Low Speed, Fan / Pump - High Speed and Fan / Pump - Low Speed. Again, with the top slide switch in the Fan / Pump position, an integral pad pre-wetting feature automatically operates the pump for 2 minutes prior to starting the blower motor. Note: (Pad pre-wetting feature will only function if the cooler has been "off" for over 20 consecutive minutes). A red LED light indicates when the pump is pre-wetting and when the cooler is "ON". With the top slide switch in the Fan Only position, the blower will turn on immediately.

An automatic 5-minute "OFF-TO-ON" delay is built into your thermostat. Therefore, once the thermostat turns the cooler "off", it will not turn the cooler back "on" for at least 5 minutes.

5. Temperature Calibration

Some installations may require temperature calibration. A display temperature calibration adjustment screw is located above and to the left of the slide switches. A calibration tool is provided. "Always calibrate with the cooler running". If the temperature difference between the Controller and the calibrating thermostat is 4 or more°, calibrate only 1/2 the difference, or 2°. As an example, if the Controller displays 76° and the calibrating thermostat reads 72°, calibrate the Controller using the adjustment screw and tool to read 74°.

With circuit breaker turned off, connect the thermostat wires as shown within the schematic. Use the wire nuts supplied. Position all wiring into junction box. Mount thermostat to junction box using the screws provided. Turn circuit breaker back on.

Important Notes

- Not for use with 240VAC, nor low voltage (e.g. 24vac), input power.
- One speed blower motors can be used with your digital thermostat. Simply connect the high or low speed wire of the thermostat to the blower motor, cap the unused thermostat wire (low or high) and position the bottom slide switch to the corresponding compatible speed.

Limited Warranty

1. Cooler Controller is warranted under normal use for 90 days from date of sale to user. In event of defect or failure, replacement is made through your authorized dealer or retailer.
2. Reason for replacement, purchase date, failure date, and sales receipt must accompany Controller returned for replacement.
3. Warranty is void if Controller has been abused, altered or improperly installed.
4. We do not pay the cost of a service call at the site of installation to diagnose cause of trouble or the cost of labor or transportation to replace a defective Controller.
5. We are not responsible for any incidental or consequential damage resulting from any malfunction unless required to do so by law.
6. For information call 1-800-350-3425.