

OPERATING INSTRUCTIONS FOR THE PRO-STAT THERMOSTAT CONTROL

SPECIAL FEATURES

- All information is saved during power failure or system shut-down and system returns to last operating mode when power is restored
- Programmable presets and 24 hour delay timer
- Programmed "soft" transition from high to low fan
- Automatic Pro Clean System
- No batteries required
- Large LCD display
- Temperatures displayed in either °F or °C

System ON/OFF Button

Press the ON/OFF button to turn the cooler on or off. The last used settings of COOL/VENT, set point, and FAN (AUTO, HIGH, LOW) will be displayed

FAN Button

Pressing the FAN button will select either AUTO, HIGH, or LOW fan speeds. In AUTO COOL, the cooler starts on HIGH when the room temp is 2 °F above the set point and starts on LOW when the room temperature is 1 °F above the set point. When the room temperature is 1 °F below the set point, the cooler shuts off. In either HIGH COOL or LOW COOL the fan runs continuously at the selected speed until the room temperature reaches 1 °F below the set point.

COOL/VENT Button

Press the COOL/VENT button to turn the cooler media pump on or off. When in the COOL mode, the last set point and AUTO fan speed will be displayed. To change the set point, press the up or down SET TEMP buttons. To change the fan speed, press the FAN button to operate on HIGH, LOW or AUTO. If the media pump was off for 10 minutes, the word "WAIT" will be displayed indicating pre-wetting of the media. Pre-wetting takes 1 minute followed by 30 seconds of HIGH fan, after which the fan returns to the appropriate speed. When in VENT, the fan will start in HIGH. To change to LOW, press the FAN button. Only HIGH and LOW fan speeds are available in VENT mode.

TIMER Button

The timer has a maximum of 24 hours of start or stop delay and is adjustable in 1 hour increments.

To set system STOP delay: Turn the cooler ON and press the TIMER button. The word "STOP" will be displayed along with "10 HRS FROM NOW". To increase or decrease the delay, use the "+" or "-" HOURS buttons. Operating modes can be changed during the delayed stop time period without affecting the TIMER. Pressing the ON or TIMER buttons will cancel the delayed stop. After the delay stop time period, the system will remain OFF until activated by the user.

To set system START delay: Turn the cooler OFF and press the TIMER button. The word "START" will be displayed along with "10 HRS FROM NOW". To adjust the start delay, use the "+" or "-" HOURS buttons to increase or decrease the start delay time. Set the desired operating mode and fan function.

Changes can be made at any time. Pressing the ON button will cancel the delay start and turn the cooler ON. Pressing the TIMER button will cancel the delay start and the system will remain OFF. After the delay period, the cooler will turn ON and remain ON until deactivated by the user.

ROOM TEMP Button

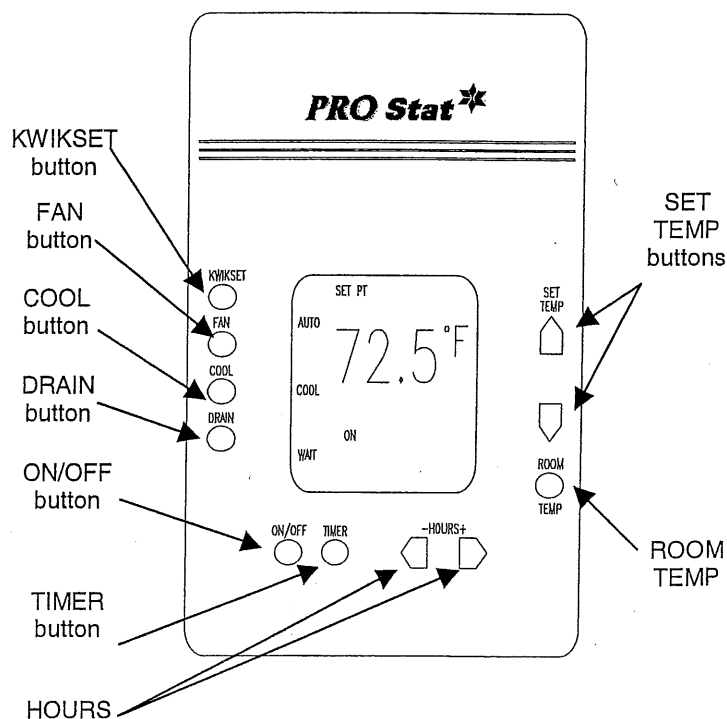
Press the ROOM TEMP button to display room temperature. The room temperature will be displayed for 6 seconds. The ROOM TEMP function can be used in any operating mode including system OFF. Note: Due to the variation in accuracy from one thermostat to the next, there will be some variation in the room temperature displayed by different thermostats.

Automatic Pro Clean System

Your cooler is equipped with two LSP-93 "low sump" pumps. The cooler pump supplies water to the media and the drain pump dumps the contents of the sump every 5 hours of media pump operation. The sump automatically fills with fresh water. The drain cycle is controlled automatically by the Pro-Stat and the word "DRAIN" will flash on the display while the drain cycle is active.

DRAIN Button

Pressing the DRAIN Button will activate the drain pump for 1 ½ minutes and cause the timed drain cycle to reset. The word "DRAIN" will flash on the display. The DRAIN cycle can be initiated in any operating mode including system OFF. If the DRAIN cycle is initiated during a prewet cycle, the word "WAIT" will flash on the display, and the DRAIN cycle will start after the prewet cycle is completed. The DRAIN button can be used to drain the cooler at the end of the season by first closing the water supply to the cooler.



SPECIAL FUNCTIONS

KWIKSET Presets

Press the KWIKSET button to display the DAY or NITE preset or to return to the standard display mode. Pressing the KWIKSET button to either the DAY or NITE preset causes the set point, FAN and COOL settings to assume the values stored in memory. Settings for set point, FAN, and COOL modes are displayed for each preset. The cooler will then operate with the displayed preset settings until the user leaves the KWIKSET mode or enters a different preset.

Change/Save a Preset: Press the KWIKSET button until the desired preset is displayed. To initiate the edit mode, press either COOL, FAN, Up or Down buttons. The edit mode is activated when the DAY or NITE icon is flashing on the display. Choose the new operating mode (COOL or VENT), the new set point, and the new FAN mode (AUTO, HIGH, LOW) with the appropriate buttons. To save the new settings, press the KWIKSET button. The NITE or DAY icon will stop flashing indicating that the new operating modes have been stored in memory.

Save a Preset With Delayed Stop Timer: Press KWIKSET until the desired preset is displayed. Enter the editing mode (press either FAN, COOL, Up or Down buttons). The NITE (or DAY) icon should be flashing. Activate the delay timer by pressing TIMER. Set the desired delay using the "+" or "-" HOURS buttons. Make any other changes to COOL, FAN, or set point as desired. Save the changes by pressing the KWIKSET button. The stop delay is now part of the preset. To remove the stop delay from the preset, enter the editing mode, press the TIMER button to turn off the timer, and save the changes.

Save a Preset With Delayed Start Timer: Press KWIKSET until the desired preset is displayed. Enter the editing mode and make desired changes to set point, FAN, and COOL modes (the NITE or DAY icon will be flashing). Next, press the ON/OFF button. The control will automatically set the system OFF and start delay timer when the edit mode is active. Adjust the start delay time using the "+" and "-" HOURS buttons. Change any of the operating modes (COOL, FAN, and set point) as desired. Press the KWIKSET button to save the preset with start delay. To remove the start delay from the preset, Press KWIKSET until the desired preset is displayed, initiate editing, and press either the ON/OFF or the TIMER button. The control will automatically be set to ON. Press the KWIKSET button to save the preset without the start delay.

Advanced Delay Timer

If a preset is saved with a delayed stop, it is possible to set a delayed start for this preset (this feature only works for presets with delayed stop). Press the KWIKSET button until the desired preset (with stop delay) is displayed. Press the ON/OFF button to turn the system OFF. Press the TIMER button to activate the start delay and use the "+" and "-" HOURS buttons to adjust the start delay. The start delay will count down until the preset is activated and then the stop delay will count down until the system is turned OFF. Changes to the operating modes made while the advanced start delay is active will not affect the preset, but will be temporarily saved and will be displayed when the system is turned ON after the preset is finished running.

Change Scale

To change the temperature scale, press COOL to view set point. Press and hold the SET TEMP up and down buttons and release when the displayed temperature changes from °F to °C or vice versa. The new temperature scale will remain active until an ERASE command is issued. Scale change can only occur in the COOL mode.

Erase Function

The ERASE function will restore all settings to the factory default values. First, turn the system ON and hold the ON/OFF button down until ERASE is complete. Wait for 1 second, and then hold the SET TEMP up and down buttons down. After about 3 seconds, the number "0.9" will be displayed and will begin to count down to "0.0". When the set point of 72.5 °F is displayed, the ERASE function is complete.

Program Differential Value

The differential value is the difference between the turn off temp and the turn on temp. To change the differential, press and hold the ROOM TEMP and SET TEMP down buttons until the display changes to the program display. Press the SET TEMP up button to increase the differential and the down button to decrease the differential. Press the ROOM TEMP button to save the new differential. The new differential will remain active until the ERASE function is executed.

Reset

To perform a control reset, press and hold the timer buttons (TIMER and both HOURS buttons) until the display goes blank. Release the buttons and the display will return to normal. NOTE: If the operating mode was changed or if a delay timer was set after the last power up or power failure, the changes will not be recalled. Only the last saved data will be restored. KWIKSET presets and differential settings will remain intact. In the event of power failure, delay timer settings will be maintained for a minimum of 8 hours and up to 15 hours. At the end of the 15 hours, the timers will no longer be updated. Any remaining time left in the delay will continue after power is restored.

Mounting Instructions For Thermostat

Using the mounting template on this sheet locate the two screw anchor centers and the center for the cable feed hole.

Drive the screw anchors into the wall and tighten the screws to mount the anchor permanently in place.

Drill the cable feed hole using a $\frac{3}{4}$ " drill bit. Fish the thermostat wire through the hole.

Connect the thermostat wires to the terminal block on the thermostat base as shown below.

The thermostat wires should be connected to printed circuit board in the cooler electrical box in exactly the same way as shown below.

White wire	_____	C
Brown wire	_____	H
Red wire	_____	L
Green wire	_____	P
Yellow wire	_____	D
Blue wire	_____	R

Terminal Block

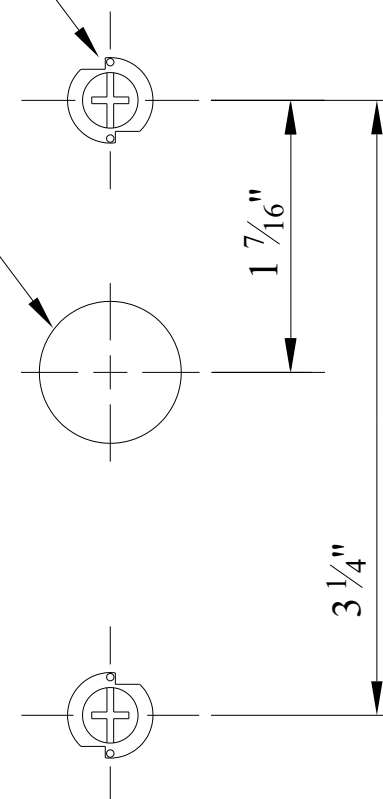
Mount the thermostat base to the wall using the screws in the wall anchors. Snap the thermostat cover into place on the thermostat base.

THERMOSTAT MOUNTING TEMPLATE

INSTALL HOLLOW WALL
SCREW ANCHORS
PER MOUNTING INSTRUCTION

TOP

DRILL 1 HOLE
 $\frac{3}{4}$ " DIAMETER
FOR CABLE FEED
THROUGH.



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