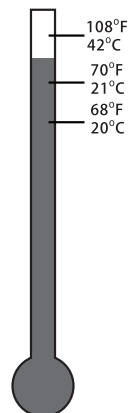# CULTIV8™

HEAT MAT
THERMOSTAT

Temperature controller with digital interface

Instruction Manual

OPTIMUM TEMPERATURE CHART

The ideal temperature is crucial to growing strong healthy plants.
Excessive heat or cold can result in poor quality growth.

Optimum plant temperatures	Temperature for seed germination		Temperature for transplant growth			
			DAY		NIGHT	
Plant type	°C	°F	°C	°F	°C	°F
Verbena family Herb, shrubs, trees	18	65	24	75	18	65
Flowering plants						
Alyssum	21	70	16	60	10	50
Aster	21	70	24	75	18	65
Calendula	21	70	16	60	10	50
Dahlia	21	70	24	75	18	65
Dianthis	21	70	16	60	10	50
Petunia	21-27	70-80	16	60	10	50
Marigold	21-24	70-75	24	75	18	65

108°F
42°C
70°F
21°C
68°F
20°C

This digital thermostat allows gardeners to select and maintain optimal rooting temperatures for faster seedling or cutting growth.
It is compatible with all Cultiv8 heat mats.

SET UP THE THERMOSTAT

1 Insert the probe approximately 25mm into the rooting area.

2 Position the thermostat up and away from the seedling trays.
   DO NOT SUBMERGE THE THERMOSTAT IN WATER.

3 Plug the heat mat into the thermostat.

4 Plug the thermostat's power cord into the electrical outlet.
   The **POWER** LED will light up.

5 Set the desired temperature for the heat mat.

USING THE CONTROLLER

1 Power on thermostat and it will show ambient temperature on the screen.

2 Press 'up' button to show temperature in Fahrenheit.

3 Press "down" button to show temperature in Celsius.

4 Press "set" button to show set temperature (if in the last step you chose Fahrenheit, it will show Fahrenheit, if not, it will show Celsius).

5 Press and hold "set" button for 3 seconds to set temperature. Press "+" or "-" button to adjust temperature (Celsius range 20° C - 42° C) and (Fahrenheit range is 68° F - 168° F) Press "set" button again to retain setting and exit.

6 If "ERR" is displayed, unplug unit and check for faults.

TIPS

The **Cultiv8 Heat Mat Thermostat** is designed to achieve the desired heat temperature within 5 hours. If it takes longer than 5 hours, or if the mat runs for longer than 5 hours, desired temperatures are not being reached.

To conserve power and increase the mats effectiveness, move the mat to a more insulated surface. You can also add a humidity dome to cover the seeding tray, which aides in heat retention.

WARNING: DO NOT IMMERSE CONTROLLER IN WATER

If the probe's temperature reaches 42 degrees C, the automatic safety shut-off is activated. In the event that you would like to use your thermostat to control air temperature, we've included a suction cup so that the probe can be mounted outside the rooting area. Simply clip the suction cup over the probe and apply to desired area. It may help to moisten the suction cup prior to sticking it.

1 **LED display**: °C and °F display current temperature.
2 **HEATING Indicator Lamp**: When the light is on the heat mat is operating.
3 **POWER Indicator Lamp**: When the light is on it means that the unit has power and can be used normally.
4 **UP key**: under setting mode press to INCREASE value.
5 **SET key**: Press "SET" key for 3 seconds to enter menu for temperature setting. If you press "set" button again, it retains the setting and exits.
6 **DOWN key**: under setting mode press to DECREASE value.

SPECIFICATIONS

Temperature Control Range	68-108°F / 20~48°C
Temperature Resolution	0.1°F / 0.1°C
Temperature Accuracy	±1°F(-68~108°F) / 0.1°C(-50~70°C)
Temperature Control Mode	On/Off Control,Heating
Input Power	100~240VAC,50Hz/60Hz
Temperature Control Output	Max. 1000W
Sensor Type	NTC sensor
Sensor Length	1.9m / 6.23ft
Relay Contact Capacity	Heating (8-4.3A,100-240VAC)
Input Power Cable Length	1.45m(4.7ft)
Output Power Cable Length	10cm(0.32ft)
Dimension	Body:142x65.5x32mm(5.5x2.5x1.2inch.)
NET Weight	About 0.43kg (0.94lb)
Ambient Temperature	-22~167°F / -30~75°C
Storage	Temperature -20~60°C / -4~140°F
	Humidity 20~85%(No Condensate)
Warranty	1 Year

Cultiv8 Heat Mat Thermostat controls the temperature of heat mats by providing constant optimum temperature for plants, seedlings and cuttings. It is ideal for maintaining root zone/rooting temperatures in a tray and dome. Easy plug-in operation with LED indicator light, digital temperature selection, and three prong ground plug. Controllable range from 20 to 42 degrees Celsius. Includes temperature probe with 1.8 metre cord. Choice of Fahrenheit or Celsius digital readout. Heat mats are not just for gardening anymore! They are very useful for providing consistent, controllable heating for other hobbies including reptile and arachnid keeping (heating for enclosures and terrariums), homebrewing (maintaining of fermentation temperatures), and more. With this thermostat you can easily expand any heat mat's functionality so that it provides the precise level of warmth your pets and projects require to flourish. The ability to dial in and maintain your preferred temperature means you can rest assured and no longer need to constantly monitor temperature, whether in colder or warmer environments.

CULTIV8™ CODE / 4793