

## INSTRUCTIONS

### SunPack™ Heat Mat Temperature Controller

The SunPack™ Heat Mat Temperature Controller allows growers to select and maintain optimal rooting temperatures when germinating seeds or rooting cuttings for fastest growth. It is compatible with all DSM&T heat mats and most other seedling heat mats.

#### SETTING UP THE TEMPERATURE PROBE

1. Insert the temperature probe about 1" to 1.5" into the root zone, preferably into a media pellet dedicated to this purpose.
2. Place the controller somewhere up and away from the tray and any stray water. **DO NOT SUBMERGE THE CONTROLLER OR ALLOW IT TO COME INTO CONTACT WITH WATER.** Avoid immersing the probe in water as well.
3. Plug the heat mat into the power receptacle on the controller.
4. Plug the controller's power cord into a 120V power outlet. The **POWER** LED should light up.
5. Set the maximum temperature you desire for germination or rooting. Most gardeners find that the optimal range for this is between 68-72°F

#### USING THE CONTROLLER

1. Press the **SET** button. The numeric LED display will show the unit's current temperature setting (preset). By default, the controller's LED display will always show the temperature being currently read by the probe until **SET** is pressed.
2. Press and hold the **SET** button until the LED display flashes. Now you can adjust to your desired temperature setting by pressing the **UP** and **DOWN** buttons.

Once you get to your desired temperature, press **SET** again. This will confirm the setting.

- Note that the controller will cycle power on and off to the heat mat according to temperature information it is getting from the probe. This is normal, and you will see the **HEATING** LED light up and turn off intermittently. When the **HEATING** LED is lit, this means the controller is giving power to the mat and it is heating. When the **HEATING** LED is not lit, the mat will not be providing any heat at those moments.
- To switch to Celsius display, press and hold the **DOWN** button continuously for three seconds. To go back to Fahrenheit display, press and hold the **UP** arrow for three seconds.

#### ADDITIONAL INFORMATION

The controller is designed to be able to reach the set temperature within five hours. If the controller is powering the mat constantly for longer than five hours, it indicates that the desired temperature is not being reached and that the surface where the mat is situated may not be insulated enough.

To remedy this and increase the mat's effectiveness, relocate the mat to a more insulated spot or place insulative material underneath the mat. Surfaces made of concrete, cement, or steel are unsuitable as they absorb too much of the mat's heat. The use of a humidity

dome is strongly recommended, as this helps with heat retention.

If the probe senses a temperature of 108°F, the controller will shut down via the automatic safety shutoff.

A suction cup for the probe is included in case you would like to use the controller to control air temperature. This is done by clipping the suction cup over the probe and then affixing the suction cup to the inside wall of the dome (wetting the suction cup is helpful).

## **WARRANTY**

DSM&T warrants this product to the original purchaser against defective material and workmanship that occurs during normal use for a period of 12 months from the date of purchase. At the company's option, DSM&T will either repair or replace the product with the same product free of charge during the warranty period. This warranty is limited to replacement or repair of the product only and does not include personal injury, property loss or damage arising from the use of the product. Purchaser is responsible for retaining the original proof of purchase receipt to validate this warranty. Damage resulting from accident, misuse, abuse, modification or tampering with the product, lack of reasonable care or other failure not resulting from defects in materials or workmanship. Some states do not

allow the exclusion or limitation of consequential damages, so the above limitations may not apply to you.

### **Disclaimer:**

SUNPAD Heat Mats have been designed and tested only for use in their specified application. It is the responsibility of the customer to ensure that the product is used according to DSM&T's instructions and warnings.

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