

Germination Chamber

Helpful Hints

- 1) **The temperature should be set around 72° or the recommended temperature for the seed being germinated.** In a warm environment it may be necessary to increase the temperature set point so that the heater will turn on adding moisture to the air so that the sprouts will not dry out.
- 2) **Some seeds may need to be covered with medium vermiculite and others may need no cover at all.**
- 3) **Use a soil thermometer to check the actual soil temperature.**
- 4) **Seed trays should be moist, but not saturated when placing them in the chamber.** The high moisture level inside the chamber will keep them moist.
- 5) **Monitor trays daily for germination and moisture levels.** If they are too wet, try to lower the temperature or limit the amount of times the unit is opened. Every time the heater comes on moisture levels are increased.
- 6) **The vent at the top helps control the amount of moisture in the chamber.** Opening the vent will increase moisture. By allowing hot air to escape from the top, cooler air is pulled in the bottom vents cooling the germination chamber. Which causes the heating element to come on raising the moisture level.
- 7) **Make sure the water is connected to a continuous water source for best performance.** The unit is equipped with a water level shut-off so if the flow of water stops the unit will not run the heating element to protect it from burning out. Simply add water and the unit will restart.
- 8) **Most seeds germinate in 7-10 days.** Some may be a shorter time and others longer. Remove trays when 50% germination is accomplished.

***For optimal results, checking on the seeds once per day, or less is recommended, Heat loss will occur every time the doors are opened- which delays seed germination.**



Germination Chamber Trouble Shooting



If the Germination Chamber does not seem to come on after it is plugged in make sure the water reservoir is full, the GFCI cord end shows a green light and the digital display, on the thermostat, is working. Finally make sure that the room the chamber is located in is not hotter than the “turn on” temperature for the heater.

**The S1 dif is how many degrees below the H1 set point it will turn on the heater. If you set the differential at 3° and the set point is 72° then when it drops to 69° the heater will turn on. The S2 dif is how many degrees above the C2 set point it will “turn on” the fans. If the set point is 80° and there is a 2° differential then it will turn on the fans at 82°, trying to bring the temperature back down to 80°.*

Heat On Lamp- Indicates that the thermostat is outputting a signal to the heating element. The thermostat will refer to this setting as S1.

Heat Element Lamp- This lamp will only light if the yellow lamp is lit and there are acceptable conditions for the heating coil to turn on. Acceptable conditions are: water level switch activated, and yellow light on. Normally yellow and red lamps will always be on or off together.

Both the red and yellow lamps will be lit during the heating cycle. If only the yellow lamp is lit then there may be insufficient water level. *First check to make sure the water supply is turned on; there is float valve to control the water level. The heating element must be submerged at all times so there is a water level cut-off switch installed that switches the heating element off so it will not burn out. The inside of chamber can spike in temperature if the doors are left open for an extended period of time then closed. Once the unit cools it will function as desired.*

Optional Fan Lamp- This is only useful when equipped with the optional ventilation fan kit, it gives a visual indicator that the fans are on. The ventilation mode is referenced as S2 on the digital readout.



This Germination chamber is protected with a GFCI equipped cord. If the digital display does not come on when the cord is plugged in check that the reset button is set and the green light is on. Once the cord is plugged in the digital display on the thermostat will cycle through its startup routine. If the display does not come on check to make sure there is power at the plug and that the reset button has been pressed. Unplug the germination chamber for storage or to turn off the thermostat.

Empty and clean the water reservoir between uses to prevent buildup of foreign material.