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Seedburo[®]
Equipment Company

Instructions for Operation and Maintenance Table Top Germinators



Model 548

Receiving:

Remove the packing material. Uncrate and remove item from shipping box, remove tape and padding which secured the doors, shelves, racks and cord during shipment.

If the unit was not shipped with the thermometer already installed, simply place the dial thermometer in the mounting hole and secure with provided washer / retaining nut.

Installation:

Select a location for use:

- Install to assure the location is safe.
- Install to assure the location is level surface.
- Install to assure the location is away from extreme heat or cold.
- Install to assure the location is appropriate area(s) that are conducive to electrical appliances.
- Install trays as required.

Proper Electrical Hook-up:

- CAUTION: to protect from bodily harm or equipment failure, verify power source matches the requirements of the product. The power requirements of the product can be found on the name/data/serial plate affixed to the unit.
- Verify that the power switch on the face of the product is in the "off" position before plugging in the electrical cord.
- Plug the power cord into proper voltage and grounded outlet.
- Outlet: Units are not "GFI" rated or approved and should be used on a standard voltage outlet.

Definitions:

- "Heated Test" - **Above** room ambient temperature
"Cool Test" - **Below** room ambient temperature

Controls:

The control panel, located beneath the chamber door, contains an adjustable thermostat and lighted On/Off switch. The switch serves as a indicating light when the unit is in the ON position and will remain illuminated while the unit is in operation.

Operation:

- Plug Germinator into appropriate electrical outlet.
- Adjust Thermostat to desired setting.
- Adjust the power on/off switch to the ON position.

Heated Test:

- Preheat chamber 60 minutes, adjusting the thermostat as needed to reach the required temperature.

Choosing a Setting:

A stable bi-metal thermostat is provided and is marked with setting numbers one (1) through seven (7), 1 = Low / 7 = High.

The actual temperature the unit will run at will depend on several factors, such as the ambient room temperature the unit is used, electrical (50 or 60cy) voltage (120 or 220), the type and the quantity of the test matter. In most conditions, your tabletop germinator should be able to produce an approximate temperature range of 70°F (24°C) to 110°F (43°C). It is recommended that you run your unit at **setting # 4 or # 5** for 60 to 90 minutes, note the temperature on the dial thermometer, and adjust your setting up or down as required to meet your specific needs and conditions.

Please note: The above provided temperatures are starting recommendations. Each unit will vary according to particular conditions. (Temperatures can be recorded on back page.)

The dial thermometer provided is accurate and is representative of the internal temperature.

- An ice / water pan is provided for convenience used for holding water for added humidity to the chamber for procedures that require higher RH% in “Heated Test”, above room ambient temperature. Simply pour approximately 3/4 of the water pan with warm or hot water, that will steam during the heated test.

Cool Test:

- A Ice/Water pan is provided and should be left in the unit at all times, even when Ice or Water is NOT required for test purposes or to achieve desired temperatures, allowing for a more constant and uniform temperature from test to test.
- The pan is to be used for holding ice for cooling the chamber for procedures that require “Cool Test”, **below room ambient temperature.**
- Samples should be examined daily to assure that the test matter, Kimpak or paper blotters are not dry. If need be, sprinkle the test matter with water as the samples typically should be moist at all times. If over-dehydration is accruing or excessive drying out of the samples, place a thoroughly saturated piece of Kimpak on each shelf, then placing the blotters of test material to be germinated on the Kimpak. If bottom trays are drying out more than the top tray samples, rotate the trays, to maintain a more consistent moisture / temperature level.

Cleaning:

- Keep chamber clean by wiping the interior and exterior after each use and as needed, with a damp cloth, sponge or a mild soap solution. Never use abrasives, acids or strong cleaners as these will harm the stainless steel and can harm the metal.

Spare Parts Listing:

Test paper, blotters and replacement parts are carried in stock.

Call, fax or write:

Seedburo Equipment Company

2293 S Mt Prospect Rd

Des Plaines, IL 60018

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PART NUMBER	DESCRIPTION
28-SEC	Indented Blotter Pads 3" x 3" 100 Indentations Packages of 1000
394A-SEC	Blotters 21" x 15" Model 548 Packages of 100
399-SEC	Kimpak Germinator Paper 21" x 15" Model 548
TOWELING	Non-Toxic Paper Toweling 12" x 18" Available in Regular Weight or in Extra Heavy-Duty Weight
501-LTK	Heating Element 120 V., 150 W., 1.25 amps
502-LTK	Heating Element 220 V., 150 W., .68 amps
507-LTK	Lighted ON/OFF Switch 120 V SWH RCK LE1
508-LTK	Lighted ON/OFF Switch 220 V SWH RCK LE1

PART NUMBER	DESCRIPTION
512-LTK	Thermostat 120 V / 220 V
513-LTK	Knob, Thermostat
514-LTK	Dial Plate, Thermostat
522-LTK	Cord, With Plug, 120 V
522-LTK	Cord, With Plug, 220 V
532-LTK	Thermometer (30°F - 120°F)
533-LTK	Thermometer, Teflon Washer
534-LTK	Thermometer, Brass Retaining Nut
611-LTK	Perforated Tray 15" x 21" Model 548
50908	Ice / Water Pan 12" x 16" Model 548
644-LTK	Rubber Feet - Set of 4
652-LTK	Door Handle with Screws
654-LTK	Door Latch with Strike
660-LTK	Plexiglass Window

Wiring Diagram



