



SureTemp™ Dual-Convection Incubators

Model H2505-40, H2505-70 and H2505-130 Instruction Manual

Benchmark Scientific's **SureTemp** Incubators are micro-processor controlled and utilize both forced air and gravity convection technology to provide accurate and uniform temperature control. With a stainless-steel incubation chamber, removable shelves, and a built-in data logger, the SureTemp incubators are useful for a wide variety of laboratory applications requiring temperatures of ambient +5° and 75°C.

I. Product Specifications:

Capacity: 40L 70L 130L

Temperature Range: Ambient (Room Temperature) +5° to 75°C

Temperature Accuracy: +/-0.25°C*

Temperature Uniformity: +/-0.25°C*

Temperature Stability: +/-0.1°C*

Temperature Increment: 0.1°C

*Specifications provided at a set temperature of 37°C and the fan speed set to the "High" setting.

Dimensions (Internal):

(WxDxH) H2505-40 (E)	13.7 x 13.7 x 13.7 inch / 35 x 35 x 35 cm
H2505-70 (E)	17.7 x 13.7 x 17.7 inch / 45 x 35 x 45 cm
H2505-130 (E)	21.7 x 17.7 x 21.7 inch / 55 x 45 x 55 cm

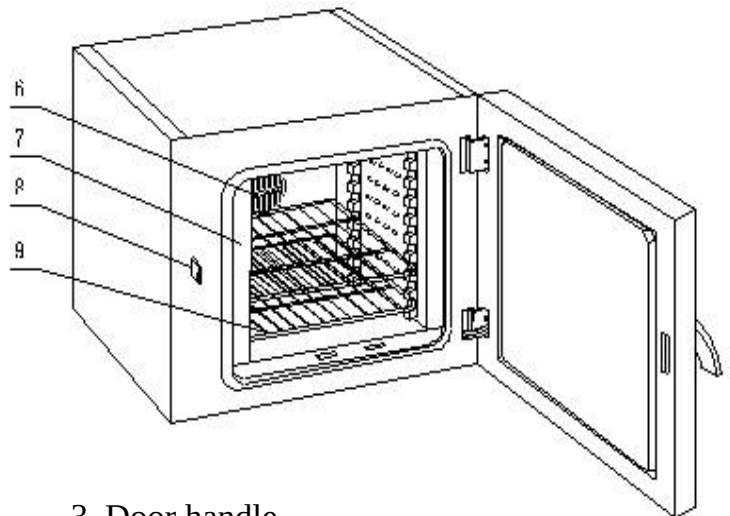
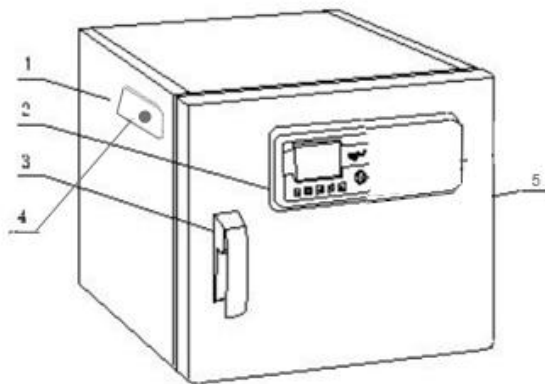
Dimensions (External):

(WxDxH) H2505-40 (E)	22.7 x 23.3 x 22.8 inch / 57 x 59.2 x 58 cm	42kg
H2505-70 (E)	26.4 x 23.3 x 26.6 inch / 67 x 59.2 x 68 cm	62kg
H2505-130 (E)	30.3 x 27.2 x 30.7 inch / 77 x 69.2 x 78 cm	70kg

Chamber: Stainless Steel **Warranty:** 2 years

Electrical: 120V or 230VAC, 50/60Hz **Consumption:** 40L: 420W / 70L: 520 / 130L: 670W

II. Structure:



- | | | |
|-------------------|----------------|--------------------|
| 1. Incubator body | 2. Controller | 3. Door handle |
| 4. Power supply | 5. Outer door | 6. Fan cover |
| 7. Inner chamber | 8. Door button | 9. Chamber shelves |

Product Set-Up:

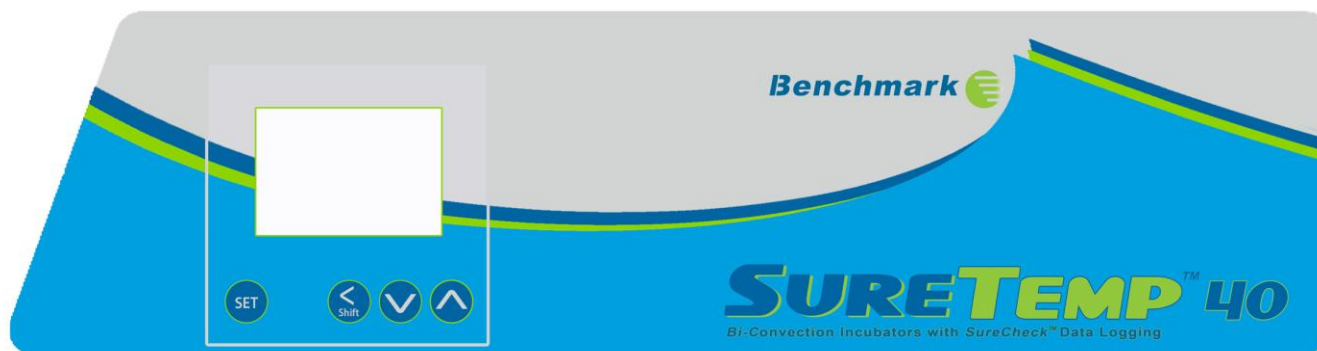
This incubator is designed to be installed on the bench-top. Before installing, always ensure that the surface is clean, level and capable of withstanding the weight of the incubator. Once in place, plug the electrical cord into a properly grounded outlet of the correct voltage. Once plugged in, press the power button on the left side of the instrument.

III. Product Operation:

To select the desired temperature, press the “SET” key, “SP” is displayed the temperature can be set using the Up, Down and Shift keys. Once the desired temperature value has been set, press the “SET” key again to select the time value, “ST” is displayed. **(When set to “0000” the time function is disabled and the incubator will run continuously.)** Once the desired time value has been programmed, press the “SET” key again to store the values and begin the incubation. The incubator will begin to heat to the desired temperature. Once the temperature has been reached, the timer will begin and the incubator will continue heating until the time has expired. Upon completion, the incubator will beep to alert the user that the time is completed and will display end. (To disable the beeping alert, press the down key. To clear the “End” message, press and hold the down key for 3 seconds).

When the time has been set to continuous, the display shows both the current chamber temperature and the set chamber temperature. When a time other than continuous is chosen, the incubator displays the measured chamber temperature as well as the remaining run time.

In addition to control over the temperature and run time, the fan speed can also be set to “High”, “Low” or “Off”. With **Dual Convection Technology**, the SureTemp incubators provide accurate and uniform results with the fan speed set to either of these three settings



WARNING: When loading samples, always avoid placing samples directly in front of fan vents. This will minimize airflow and diminish temperature performance.

An internal outlet is included and provides the same electrical voltage as the outlet that the incubator has been plugged into. In the event of condensation, always wipe the outlet down with a dry towel prior to plugging in an electrical plug.

V. Care and Maintenance:

No routine maintenance is required other than to keep the instrument clean. When cleaning, use a damp cloth to wipe down the internal or external parts of the incubator. Avoid the use of solvents as they may attack the product housing. In addition, always ensure that the fan vents are clear of dirt or any other obstructions.

VI. Data Logger Operation:

The SureCheck™ data logger is included with each SureTemp incubator. To set the desired recording interval, use the up/down keys to the left of the SureCheck display. The default interval is 10 minutes. To begin datalogging, insert a USB flash drive into the USB port to the right of the display. The temperature will be logged into a .csv file automatically at the set interval.

To view the data, remove the USB drive from the datalogger and insert into a USB port on a personal computer. Open the datafile. The datafile shows set temperature ("sv"), recorded temperature ("pv"), the date, and the time at which the recording was taken.



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