SureTemp™

Incubators with SureCheck™ Data Logging

Precision Temperature Control, ambient +5° to 75°C

SureCheck™ Temperature Data Logger, automatically records temperature to USB

Dual-Convection, Unique technology for uniform temperature with or without activating the internal fan

Benchmark Scientific

Get it from your authorized distributor: www.labequip.com Labequip ask@labequip.com

The new SureTemp™ Incubator series provides the highest level of temperature control with uniformity and stability levels that are unmatched by competitive models in the same class.

Each incubator is equipped with the SureCheck™ data logging system for verification of chamber temperature. The SureCheck system records temperature data points as often as every 60 seconds and stores this information on a flash drive. The data can then be viewed and saved using the included the SureCheck software. The recorded data can also be used to plot temperature points on a graph or exported to a spread sheet program for verification or storage/record keeping.

Unlike other laboratory incubators, the SureTemp series offers "Dual-Convection" technology, allowing users to choose between mechanical convection mode* (for exceptional temperature uniformity) or gravity convection mode* (for longer incubations where airborn contamination or drying of samples may be an issue). The heating elements are strategically located on multiple sides of the chamber and contents can be viewed with the separate inner glass door without disrupting the temperature environment.

** Mechanical Convection: Incorporates optimally positioned heating elements in conjunction with an internal chamber fan to control the internal temperatue.*
Gravity Convection: Eliminates any airflow from the chamber, relying solely on the heating elements and gravity to control the internal temperature.

H2505-40	
Volume	40 Liters
External:	22.4 x 23.3 x 22.8 in 57 x 59.2 x 58cm
Chamber:	13.7 x 13.7 x 13.7 in 35 x 35 x 35cm
Weight:	42 kg / 92.5 lbs

H2505-70	
Volume	70 Liters
External:	26.4 x 23.3 x 26.8 in 67 x 59.2 x 68cm
Chamber:	17.7 x 13.7 x 17.7 in 45 x 35 x 45cm
Weight:	62kg / 136.5 lbs

H2505-130	
Volume	130 Liters
External:	30.3 x 27.2 x 30.7 in 77 x 69.2 x 78cm
Chamber:	21.7 x 17.7 x 21.7 in 55 x 45 x 55cm
Weight:	70 kg / 154.5 lbs

Technical Data:	
Temperature Range:	Ambient +5 to 75°C
Temperature Accuracy:	±0.25°C*
Temperature Uniformity:	±0.25°C*
Temperature Increment:	0.1°C
Temperature Stability:	0.1°C*
Time Range:	1 min. to 99 hours 59 min. (or continuous)
Chamber Material:	Stainless Steel
Electrical:	115V or 230V, 50-60Hz 40L: 420W, 70L 520W, 130L: 570W

* Specification provided with a set temperature of 37.0°C in the mechanical convection mode.

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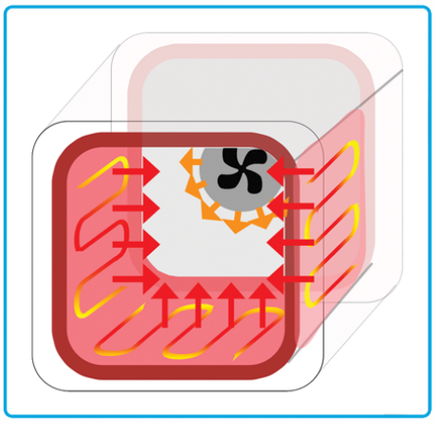


Advanced Heating Technology:

The SureTemp Incubators™ utilize a unique heating technology to ensure fast ramping times with high levels of uniformity and minimal temperature fluctuation.

Independent heating elements create an evenly distributed, air jacket that surrounds the entire chamber. In gravity convection mode (fan disabled), this results in uniformity levels within 0.7°C and fluctuations of less than 0.8°C.

When the fan is activated, the microprocessor automatically adjusts the heat distribution of each element. The elements now work in conjuction with the increased air flow, resulting in improved performance levels of **0.25°C (uniformity) and 0.1°C (fluctuation).**

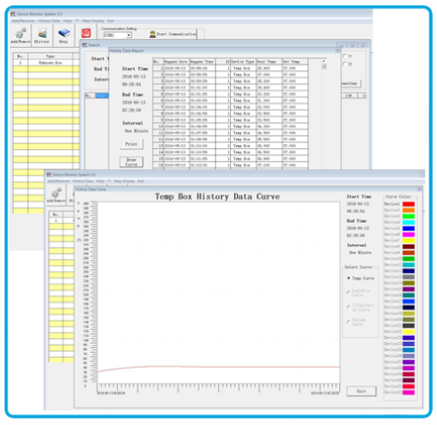
Internal Chamber:

The stainless steel chamber ensures rapid and uniform thermal transfer, while the smooth-mirrored finish results in easy cleaning/ decontamination. The inlcuded shelves (also constructed of stainless steel) are adjustable in height, providing the flexibility to hold a wide variety of vessels.

The chamber conveniently includes an **internal power outlet** for connecting small instruments (shakers mixers, etc.) inside of the incubator, providing temperature controlled agitation. The unique design of the outlet provides worldwide use, accepting USA, European and all common plug types.

SureCheck™ Temperature Data Logger:

The SureCheck data logger is included with each SureTemp™ Incubator. Simply insert a USB flash drive (memory stick) and use the up and down keys to choose the desired recording interval. The temperature will then be logged to a .txt file automatically. Intervals as small as one minute can be choosen, resulting in the temperature being recorded every 60 seconds.



SureCheck™ Software:

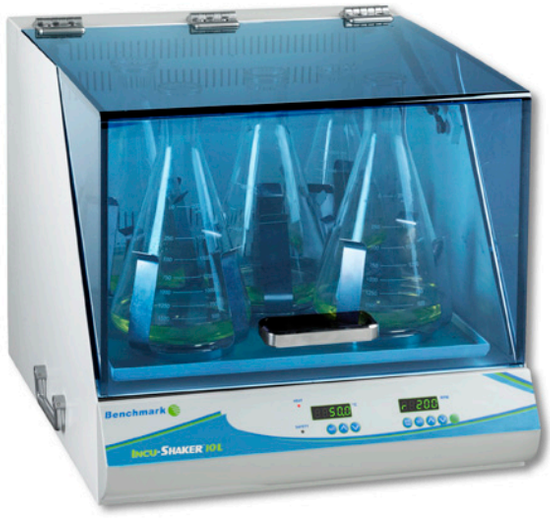
Each incubator includes the SureCheck installation disc for easy viewing of the recorded data. The .txt files can be opened directly, or these files can easily be converted to a .csv file for opening/editing in Microsoft Excel.

The data can be saved and recorded in list format, or can be coverted to a temperature curve for a visual representation of the temperature readings. The SureCheck system is the easiest method for ensuring that samples have been properly stored at the desired temperature, when the user is not able to physically perform a periodic check.

Ordering Information:	
H2505-40*	**SureTemp ™ Dual Convection Incubator, 40 Liters with SureTemp Data Logging Software, 115V**
H2505-70*	**SureTemp ™ Dual Convection Incubator, 70 Liters with SureTemp Data Logging Software, 115V**
H2505-130*	**SureTemp ™ Dual Convection Incubator, 130 Liters with SureTemp Data Logging Software, 115V**
	Option Accessorie Shelves (2 each included with each Incubator)
H2505-40SH	Extra Shelf, stainless steel, for H2505-40
H2505-70SH	Extra Shelf, stainless steel, for H2505-70
H2505-130SH	Extra Shelf, stainless steel, for H2505-130
	Optional Shakers (Comptible with H2505-70 and H2505-130 Only)
BR2000*	BenchRocker ™ 2D (See-Saw) rocker, 14 x 12 inch platform, variable speed 2-30 rpm, 115V
B3D2300*	BenchRocker ™ 3D (Nutating) rocker, 12 x 12 inch platform, variable speed 2-30 rpm, 115V
BT3000*	Orbi-Shaker Orbitals shaker, 13 x 12 inch platform, variable speed 30-150 rpm, 115V (Optional flask clamps & platforms available, visit www.benchmarkscientific.com for a complete listing.)
	* 115V with US plug. For 230V (with EU plug), please add (-).

Also Available:

INCU-SHAKER
SHAKING INCUBATORS



- *Exceptional temperature uniformity*
- *Three Models*
  - *Incu-Shaker Mini: Capacity of 5 x 500ml (or 2 x 1L)*
  - *Incu-Shaker 10L: Capacity of 5 x 2L*
  - *Incu-Shaker 10LR: Capacity of 5 x 2L (with cooling)*
- *Exchange flask clamps in one second with MAGic Clamp system (PATENTED)*

INCU-SHAKER CO_2 Mini
HEAT - SHAKE - CO_2

- *Integral orbital shaker, ideal for suspension cell culture*
- *Six side dierect heating, provides excellent uniformity*
- *Dual beam IR sensor, precise control over CO_2*