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HEATING EQUIPMENT



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WATER BATH

MODEL NO.: GTW-001

APPLICATION

- ▶ Water Bath Rectangular Double Walled is a Microprocessor-Based PIO Digital Temperature Indicator-cum-Controller that maintains maximum temperature accuracy.
 - ▶ User's Self-compensation function to control difference between real temperature and indicated temperature.
 - ▶ Stainless Steel Bath for superior durability & high thermal efficiency.
 - ▶ Flat Stainless-Steel Lid with Concentric rings prevents evaporation.
 - ▶ An industrial-grade energy-efficient heater reduces power bills drastically.
- Double-walled construction.



APPLICATION & CONSTRUCTIONAL FEATURES

- ▶ Microprocessor Based PID Digital Temperature Indicator-cum-Controller maintains maximum temperature accuracy.
 - ▶ User's Self-compensation function to control difference between real temperature and indicated temperature.
 - ▶ Stainless Steel Bath for superior durability & high thermal efficiency.
 - ▶ Flat Stainless-Steel Lid with Concentric rings prevents evaporation.
 - ▶ An industrial-grade energy-efficient heater reduces power bills drastically.
- Double-walled construction.
- ▶ Space between the Water Bath Rectangular Double Walled is fitted with special grade mineral wool in order to avoid thermal losses.
 - ▶ Drain plug is also fitted to the unit for user convenience.
- The unit can be supplied with or without stirring arrangement.
- ▶ The stirring arrangement consists of an FHP motor with SS stirring shaft.
- MOC (Inner): Inner bath chamber and lid made of Stainless Steel (SS-304 grade)
- ▶ MOC (Outer): Outer chamber is made of Mild Steel duly powder coated.

INNER CHAMBER STAINLESS STEEL (L X W X D)

300 X 250 X 100 MM WITH 6 HOLES OF 75MM DIA

300 X 300 X 100 MM WITH 9 HOLES OF 75MM DIA

405 X 300 X 100 MM WITH 12 HOLES OF 75MM DIA

HOT AIR OVEN

MODEL NO.: GTO -001

CONSTRUCTION AND SALIENT FEATURES

- ▶ Ovens are sturdy, with double-walled construction.
- ▶ Inner Chamber made of ALUMINIUM or STAINLESS-STEEL sheet.
- ▶ Outer chamber is made of mild steel sheet, finished with white powder-coated paint.
- ▶ The gap between the walls is filled up with special grade glass wool for proper insulation to avoid heat losses.
- ▶ Inner chamber has ribs for placing the shelves at convenient levels.
- ▶ Supplied with 2 or 3 removable shelves.
- ▶ It is fitted with heavy hinges with a ball Catcher,
- ▶ Heating elements are made of high-quality nickel/chrome plated nichrome wire which is put inside beads and placed at the bottom and in both the side ribs for uniform temperature all over the workspace.
- ▶ Temperature is controlled by imported capillary type thermostat from 50°C to 250°C ± 1 °C.
- ▶ Temperature control knob is graduated in centigrade degrees. Ovens are supplied without a thermometer.
- ▶ Air Ventilators are placed near the top of both sides to remove Hot gases and fumes, if any.
- ▶ Comprising of a switch to ON/OFF the power, switch to select high or low rates of heating, thermostat control knob, and indicators for mains and thermostats.
- ▶ Supplied with cord and plug. Suitable to operate on 220 volts, 1 ph, 50 Hz AC supply.



OPTIONS

- ▶ Digital Display Temp. Controller-Cum-Indicator In lieu of thermostat.
- ▶ Temperature alarm.
- ▶ Thermometer.

SIZE

SIZE OF INNER CHAMBER (W X H X D) MM	CAPACITY (LTR.)	NO. OF SHELVES
300 X 300 X 300	28 LITERS	2
355 X 355 X 355	45 LITERS	2
455 X 455 X 455	95 LITERS	2
455 X 605 X 455	125 LITERS	3
605 X 605 X 605	221 LITERS	3
605 X 910 X 455	250 LITERS	3
605 X 910 X 605	333 LITERS	3

Size available as per customer requirement

BOD INCUBATOR

MODEL NO.: GT 1-001

DESCRIPTION

Incubators are sturdy, with double-walled construction with a complete inner chamber made of Anodized Aluminum or Highly Polished Stainless Steel. The outer chamber is made of a Mild Steel Sheet, finished with powder-coated paint. 75 mm gap between the walls is filled with special grade glass wool for proper insulation and to avoid heat losses. Inner chamber fabricated with ribs for adjusting shelves to a convenient height. Supplied with 2 or 3 removable shelves. SHELVES are made of fully Anodized Aluminum Sheets or Polished Stainless.



CONSTRUCTION AND SALIENT FEATURES

- ▶ Robust Construction.
- ▶ Outer cabinet is made of M.S. Sheet, duly pretreated & finished with epoxy powder coated paint for a lasting finish.
- ▶ Inner chamber is made of highly polished stainless steel.
- ▶ It has provision for allowing a wide range of shelf positions & spacing.
- ▶ SS trays are also provided.
- ▶ The outer chamber may also be provided of mat finished Stainless Steel.
- ▶ Chamber is duly insulated to minimize heat loss.
- ▶ Two doors are provided. The outer door is insulated and is fitted with magnetic tape for airtight closing for no temperature loss.
- ▶ Door is provided with lock and key.
- ▶ Inner door is made of transparent acrylic/ glass for inspecting the specimens inside the chamber, without opening the door and with minimum temperature loss.
- ▶ The heart of the GTPL B.O.D. An incubator is an excellent and reliable solid-state temperature controller cum indicator digital display, ranging from 5°C to 50°C ± 0.5°C.
- ▶ Hermetically sealed, Dan Foss/ Emerson Copeland high-performance compressor works efficiently to lower the inside chamber temperature.
- ▶ Heating elements are placed in the path of moving air duly insulated from the body.
- ▶ Cooling coils also lie in the air circulation path.
- ▶ Air is circulated by a double shaft self-cooled blower to keep the uniform temp.
- ▶ Throughout the inner chamber.
- ▶ A safety thermostat is provided, which switches off the heaters in the event of failure of the normal temperature control system to protect the specimens from excessive heat.

SIZE/CAPACITY

SIZE OF INNER CHAMBER (W X H X D) MM	CAPACITY (CU.FT.)	CAPACITY (LTR.)
450X450X405MM	2.4CU.FT	65 LITERS
455X605X415MM	4.0 CU.FT	112 LITERS
500X830X415MM	6.1 CU.FT	170 LITERS
565X865X550MM	10 CU.FT	280 LITERS
650X900X550MM	12 CU.FT	410 LITERS
700X900X650MM	15 CU.FT	430 LITERS

CUSTOMIZED SIZE AVAILABLE.

BACTERIOLOGICAL INCUBATOR

MODEL NO.: GT 1-002

DESCRIPTION

The perfect choice for reliable day-to-day operation in a variety of uses. Drying of slides, paraffin embedding, tissue culture work, incubation of antibody test, excellent for Microbiological determinations, crystallization studies, and incubation of hydroxyl steroids. Construction: Incubators are sturdy, with double-walled construction with a complete inner chamber made of Anodized Aluminum or Highly Polished Stainless Steel. The outer chamber is made of a Mild Steel Sheet, finished with powder-coated paint.

75 mm gap between the walls is filled with special grade glass wool for proper insulation and to avoid heat losses. Inner chamber 75 mm gap between the walls is filled with special grade glass Shelves are made of fully Anodized Aluminum Sheets

or Polished Stainless-Steel Sheet as per chamber. A door is insulated & fitted with heavy hinges. The door has a double glass window which facilitates inspection of samples without opening the door. Heating elements, made of high-grade imported chrome wire, are put inside the porcelain beads and placed at the bottom and side ribs for uniform temperature all over the space.

Temperature Control: Temperature is controlled by an imported capillary-type thermostat from ambient to 80°C.

A temperature control knob is graduated in centigrade degrees after observing the temperature in steady state. An L-shaped prismatic glass Thermometer is fitted on top of the Incubator for reading the chamber.

CONSTRUCTION

Incubators are sturdy, with double-walled construction with a complete inner chamber made of Anodized Aluminum or Highly Polished Stainless Steel. The outer chamber is made of a Mild Steel Sheet, finished with powder-coated paint. 75 mm gap between the walls is filled with special grade glass wool for proper insulation and to avoid heat losses.

Inner chamber fabricated with ribs for adjusting shelves to a convenient height. Supplied with 2 or 3 removable shelves. SHELVES are made of fully Anodized Aluminum Sheets or Polished Stainless-Steel Sheet as per chamber. The door is insulated & fitted with heavy hinges. The door has a double-glass window which facilitates inspection of samples without opening the door. Heating elements made of

TEMPERATURE CONTROL

Temperature is controlled by an imported capillary-type thermostat from ambient to 80°C. The temperature control knob is graduated in centigrade degrees after observing the temperature in a steady state. An L-shaped prismatic glass Thermometer is fitted on top of the Incubator for reading





VENTILATION

Air ventilators are provided on both sides at the top to flue away any gas

CONTROL PANEL

The equipment is provided with a panel having a thermostat control knob, an ON/OFF switch, and two pilot lamps.

OPTIONAL ACCESSORIES

- ▶ Timer.
- ▶ Air Circulating Fan.
- ▶ Digital Indicator in lieu of L-shaped thermometer.
- ▶ Digital Indicator - cum - Controller Electronic in lieu of L-shaped thermometer & thermostat.
- ▶ Microprocessor-based PID Temp. controller-cum-indicator in lieu of Thermostat & L-shaped

SIZE

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CUSTOMIZED SIZE AVAILABLE.

INCUBATOR SHAKER

MODEL NO.: GTL-003

APPLICATION

- ▶ "GTPL" brings the ultra-high-tech triple-walled Microprocessor controlled, solid-state orbital shaking Incubator down to earth.
- ▶ Specially designed for orbital shaking under controlled Incubations/ temperature required for tissue cultures Fermentation studies, & aging tests, life science applications & growth studies.



SALIENT FEATURES & CONSTRUCTION

- ▶ Robust construction outer chamber is made of Mild Steel duly pretreated & finished with powder-coated paint for a lasting finish.
- ▶ Inner chamber made of STAINLESS-STEEL SHEET (304 Grade).
- ▶ Fitted with durable coaxial blower for forced air circulation at the triple-walled back to maintain temperature uniformity in the chamber.
- ▶ Outer front double walled door is insulated and is fitted with magnetic tape for airtight closing for no temperature loss, provided with lock and key arrangement.
- ▶ Fitted with Universal Platform to accommodate interchangeable clamps of assorted sizes for different capacity of flasks.
- ▶ Stationery shelves made of Stainless Steel (55-304) for the use of the unit as a standard B.O.D. Incubator can be supplied at extra cost.
- ▶ Door-operated illumination lamp is fitted inside the chamber for easy visibility.
- ▶ A full view inner plexiglass door enables inspection and monitoring of inner chamber specimens without disturbing the process temperature.
- ▶ High-grade PUF/Glass Wool INSULATION between outer and inner chamber for minimal thermal losses.
- ▶ Heating elements are placed in the path of moving air duly insulated from the body.
- ▶ Control panel having all controls and circuitry are housed at the top fitted with Temperature controller cum Indicator Microprocessor based with LED display for Set Value (SV) & Process Value (PV) to select any desired temperature provided with Voltmeter on the panel to read the incoming voltage.
- ▶ Caster wheel mounted for easy portability.
- ▶ Supplied with cord and plug.
- ▶ Operating Voltage: 220 Volts AC (50 Hz).



SIZE

USABLE SPACE IN MM:	600 X 600 X 600
CAPACITY:	8 CU. FT
APPROX. VOLUME (LTR):	230
NO. OF SHELVES:	2
TEMPERATURE RANGE:	5°C ABOVE AMBIENT TO 60°C (RESOLUTION 0.1 °C)
TEMP. CONTROLLER:	BY MICROPROCESSOR BASED PID DIGITAL TEMPERATURE INDICATOR CUM CONTROLLER.
SHAKING AMPLITUDE:	25 MM.
RPM DISPLAY:	DIGITAL
SHAKING SPEED:	VARIABLE SPEED FROM 20 RPM TO 250 RPM
TEMP. ACCURACY:	+1 °C
TEMP. DISPLAY:	LED DISPLAY FOR SET VALUE (SV) AND PROCESS VALUE (PV)
RELAY:	SOLID STATE ELECTRONIC RELAY WITH PROTECTIVE HEAT SINK.
AIR CIRCULATION:	BY FORCED CONVECTION SYSTEM
INSULATION:	BY HIGH DENSITY PUF /GLASS WOOL
OPERATIONS:	NEARLY SILENT OPERATION WITH ULTRA-LOW VIBRATION
ELECTRIC SUPPLY:	220/230VAC, 50/60HZ

Our Certifications

We Believe that the way to the summit passes through high-quality and reliable manufacturing.





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