

General Lab Equipments

Ligation Bath

A sub-ambient Dry Bath which can be used on bench top for all applications requiring any temperature from 5° C to 60° C (like incubation, ligation, intermediate storage of enzymes etc.). It uses thermo-electric cells (also called Peltier cells) - a state-of-art technology used extensively in thermocyclers (PCR machines). It does not have any messy components associated with normal refrigeration units like compressors, gas etc. The electronic controls with digital display ensures uniform temperatures across the aluminium block and an excellent temperature control.

Description:

The ligation bath is totally solid state controlled, rugged and easy to handle. Each unit is provided with a solid Aluminium block which can accommodate up to 12 test tubes (8 of 0.5 ml and 4 of 1.5 ml). It is housed in a recessed chamber with a lid. Electronic controls ensure that the aluminium block temperature stay within $\pm 0.5^\circ$ C of the set value. The digital display indicates the block temperature and is also used for setting the desired temperature. Two solid state sensors (Platinum bits) one senses the block temperature while the other senses the ambient temperature. This enables the unit to automatically select either the cooling or the heating mode depending upon whether the set value is below or above the ambient temperature.

The operating temperature is between 10 to 25° C. The displayed temperature can easily be calibrated against a standard thermometer by simply turning a potentiometer.

The size is 310 mm x 210 mm x 160 mm (LWH) and is encased in a shock-proof, light-weight Fibre Reinforced Plastic (FRP) body. Each unit is supplied with a power cord, moulded 5 amp 3-pin plug and spare fuses.

Dry Bath

The Dry Bath is designed to uniformly heat the contents of 24 tubes from ambient to 110° C. The microprocessor controls with digital display ensures accurate temperature control and avoids contamination of samples, unlike in a water bath.

Description:

The Dry Bath has soft touch keys enabling easy setting of temperature. The unique calibration soft touch key allows on-site calibration by user. It is compact, rugged and easy to handle. It measures 13 cms x 24 cms x 10 cms (wdh) and weighs just 2 kgs - a definite advantage in today's lab environment. Each dry bath is provided with a solid anodized aluminium combi block (standard) to hold 24 tubes (1.5 ml - 8 tubes; 0.5 ml - 8 tubes and 5 ml - 8 tubes). It is housed in recessed chamber. The micro processor controls ensure aluminium block temperature to be within $\pm 0.5^\circ$ C of set value. It is designed for continuous use and there is no need to unplug. The Aluminium block can be autoclaved to avoid contamination. It is encased in a shock proof light weight aluminium powder coated body.

Power requirements: 230 V \pm 10% AC.

Applications:

1. Enzyme Assays
2. Digestions
3. Marking DNA Specimen
4. Incubating melted Agar
5. Chemical Oxygen Demand (COD) Reactor - for waste water testing