A NEW CONCEPT IN HEATING & STIRRING

The hotplates of these instruments, imported from Schott, Germany are made of ceramic glass. These Glasses have excellent chemical resistance power, high grade surface quality and excellent thermal properties. The heat is transferred quickly and without loss. It can survive temperature shocks up to 700 ºC.

**<TSH-M>:** Microcontroller based design with indication and programming for 100 to 1100 rpm in steps of 100 rpm, for heating in step program from 1 to 12 and process time from 0 to 99 Hrs and 59 mins. Rpm, Temperature and Process time can be set by means of keyboard and LCD display.

**Optional:** Direct temperature control of Heating liquid using PT100 sensor with supporting stand for temp. range from ambient to 199ºC.

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**2) MOTORLESS MAGNETIC STIRRER**

No moving parts, no vibrations, zero maintenance, long lasting and low Power consumption. Can be used continuously. Stepless speed control. Automatic bi-directional stirring with or without variable time interval potentiometer. Body material: MS powder coated, Capacity: 2 to 5 Liters

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**3) SHAKERS & ROCKERS**

1) **ORBITAL SHAKER** Body material: MS powder coated. Tray material: SS, Tray size 325×325mm & 425×425mm. Shaking speed: 20-200 orbital strokes/min. of 25 mm orbital dia. with or without Digital Indication. Permanent magnet geared DC motor is used.

2) **RECIPROCATING SHAKER** Body material: MS powder coated. Tray material: SS, Tray size 325×325mm. Shaking speed of 10 to 200 strokes per min with or without Digital Indication. Permanent magnet geared DC motor with 35 mm stroke length is used.

3) **MICROPLATE SHAKER** Body material: MS powder coated. Tray material: SS, Tray size: 180x150mm. With springs, Two multi well plates can be placed on the tray. Shaking speed: 100 to 1500 strokes per min. Permanent magnet geared DC motor with 1mm Dia orbital motion is used.

4) **ROCKING PLATFORM** Body Material is MS powder coated. Tray material is SS. Tray size in mm: 300×275×25mm (LWH); Two numbers. Shaking speed of 8 to 60 strokes per min. with or without Digital Indication. Permanent magnet geared DC motor with 1mm Dia orbital motion is used.

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**OUR PRODUCT RANGE**

1) **MAGNETIC STIRRER CUM HOTPLATE** 2) **MOTORLESS MAGNETIC STIRRER** 3) **SHAKERS AND ROCKERS** 4) **INCUBATOR WITH SHAKER** 5) **BATHS AND CIRCULATORS** 6) **HEATING BLOCKS** 7) **WATER BATH SHAKERS** 8) **HPLC COLUMN OVEN**
4) **INCUBATOR WITH SHAKE**

Temperature range: 5°C above ambient to 60°C. Digital temperature controller cum indicator with pt100 sensor having resolution of ±0.1°C and accuracy of ±0.2°C. Fitted with recirculation fan to maintain temperature uniformity. Transparent acrylic cover allows unobstructed view of the chamber content from front, from two sides and from top. The body material is MS powder coated, Inner walls of the incubator will be pasted with laminated sheets to avoid heat loss. Tray material is SS. Mechanism is driven by permanent magnet geared DC motor. With or without Digital Indication of Stroke speed.

**1) INCUBATORS WITH ORBITAL SHAKE**

Tray size in mm: 325x325 and 425x425, Chamber size in mm: 400x400x300 (LWH). Stroke length: 25mm dia. Stroke speed: 20 - 200/min.

**2) INCUBATORS WITH RECIPROCATING (HORIZONTAL) SHAKE**

Tray size in mm: 325x325, Chamber size in mm: 400x400x300. Stroke speed: 10 to 200/min.

**3) INCUBATORS WITH MICRO PLATE SHAKE MECHANISM**

Two Trays of size 180x150 mm, 96 wells can be placed, Chamber size in mm: 280x280x75(LWH), Stroke length: 1mm dia. Orbital Stroke speed: 100 to 1500/min.

**4) INCUBATORS WITH ROCKING PLATFORM**

Tray size in mm: 300x275x25 (LWH), Chamber size in mm: 400x400x300mm (LWH), Stroke speed: 8 to 60 per min

5) **BATHS & CIRCULATOR**

**1) CIRCULATOR FOR WATER BATH**

Portable device with pump, Solid state time proportional temperature controller cum digital indicator controls temp. Temp. range from ambient to 95°C and is controlled to ±0.5°C using PT-100 as sensor. **Note:** 1) For using Circulator, the bath or tank should have a minimum depth of 160mm & 15 to 20 Liters of water volume. 2) Provision for out bath circulation can be available at an extra cost.

**2) BATHS WITH CIRCULATORS**

Bath-material: SS 304, exterior material: MS powder coated. Temperature is controlled to ±0.5°C accuracy by solid state time proportional controller cum digital indicator using a PT-100 sensor. Temperature uniformity is achieved by circulator fitted inside the bath. Temp. range: Ambient to 95°C, Working space with circulator in mm 300x175; 350x300 & 390x120mm (LWH) with 160mm height.

6) **HEATING BLOCK**

Temperature range: Ambient to 110°C, controlled to ±0.2°C by solid state temperature controller cum digital display using pt100 as sensor. The body is of M.S. powder coated. Acrylic front - panel door.

**Model-1**: 3 nos. of interchangeable aluminum blocks of size in mm 75x50x50 for accommodating 0.5 ml, 1.5 ml Eppendorf Tubes, 12 mm, 16 mm or 19 mm test tubes or aluminum block of size in mm 150x75x50 for accommodating 50 test tubes of 10 mm dia., for LAL test. **Model-2**: Single block of size in mm 150x100x50 to accommodate 60 tubes of 10 mm dia., for LAL test.

7) **WATER BATH SHAKE**

Stroke length: 25 mm, Temperature range: (ambient+5) to 95°C. Digital temperature controller cum indicator with pt100 sensor having resolution of 0.1°C and accuracy of ±0.5°C. The body material is MS powder coated, Bath material: SS 304. Tray material: SS. SS cover is provided. Drive mechanism is powered by permanent magnet geared DC motor. Supplied without clamps to hold flasks. With or without Digital Indication of Stroke speed.

**1) RECIPROCATING (HORIZONTAL) TYPE**

Tank size: 350x300x160mm. Tray size: 250x250x110mm. Stroke speed: 10-100 strokes/min. **ii) Tank size: 450x350x160mm. Tray size: 350x300x110mm. Stroke speed: 10-100 strokes/min**

**2) ORBITAL TYPE**

Tank size: 400x375x250mm. Tray size: 325x325x110mm. Stroke speed: 20 - 200/min

8) **H.P.L.C. COLUMN OVEN**

Compact module design with inbuilt Oven & Controller in single unit with low voltage heaters to prevent electric shock. Micro controller based temperature controller with thermal protection. Temp Range: Ambient to 100°C. Stability: ±0.1°C Accuracy ±1°C resolution: 0.1°C Alarm facility: Alarm sets 2°C above set temp. & cuts off the power to the heater. Two Columns length up to 300mm can be accommodated.

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**FOR MORE INFORMATION PLEASE E-MAIL US ON technosys_in@yahoo.com**

**OR PHONE ON (022)-67987210**

**Note:** Due to continuous development, specifications of the above products are subject to change.

**OUR OTHER PRODUCTS:** SERVO VOLTAGE STABILISERS, INVERTORS, AUTOMATION SYSTEMS