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SR TEK INSTRUMENTS

(Manufacturers and suppliers of Laboratory Instruments)



GST.NO - 27AMOPG3111E1ZG

MSEME REG.NO- UDYAM-MH-33-0004942





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Name of the Firm :	M/S SR TEK INSTRUMENTS
Name of the Licensee :	MR. SAMEER B GHADGAONKAR
Premises Licensed :	305S,BHANDUP IND, ESTATTEL B.S. MARG,PANNALAL SILK MIL COMPOUND,BHANDUP WEST MUMBAI,Pin.400078, Maharashtra, India.

Pan Card Number :	AKNC3111E
Pan Card Holder Name :	MR. SAMEER B GHADGAONKAR

WHETHER THE BUSINESS PREMISES / PROPERTY IS ASSESSED BY BMC : Yes
MY BMC BUILDING ID : 1 **SKD708060070000**
ADDRESS AS PER PROPERTY TAX SYSTEM : S-290(3) 10b, L B S Marg Bhandup West Building A
Indu State Estate

Nature of activity, trade operation	Dimensions or quantity	Fees
Manufacturing, assembling repair or re- MANUFACTURE of LABORATORY INSTRUMENTS	26.30 M2	
Total Area	26.79M2	
	Total License Fees	1,435.00
	Additional Fees	1,435.00

ANCILLARY ITEMS :

- B/LDC MOTOR, CAP-24 & 48 VOLTS	10.00	10.00
- MS BOXES, SIZE - 360 X 360MM	10.00	10.00
- WATER BATH SHAKER, MS/SS, SIZE - 730X340X230 MM	6.00	6.00
- TEMPERATURE CONTROLLER	4.00	4.00
- SS TRAY, 325X325 X 425X425	11.00	11.00

License valid from 16.03.2024 to 15.03.2025

Fees of Rs.2,870.00 , Security Deposit of Rs. 359.00 , Composition fees

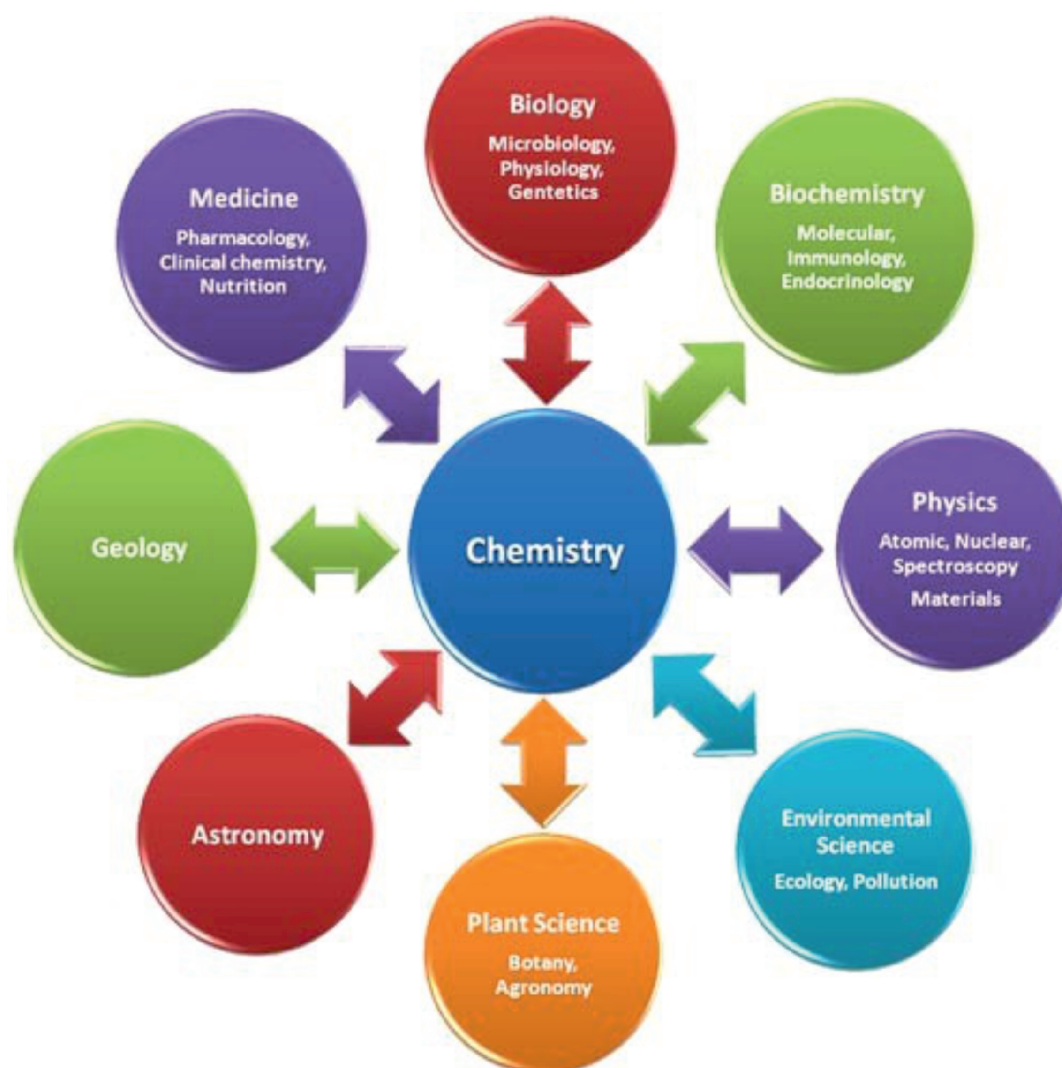
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INTRODUCTION

SR TEK Instruments is a Mumbai based leading manufacturer and supplier of superb quality products used in the life science and biotechnology sector. The company has made rapid progress in the business owing to its premium quality products. Upholding the importance of commitment. We progress to take on new opportunities and challenges offered by the future. We are committed to Manufacturing, Supplying on time ordered by our customers within the shortest time limit with the best quality. the goods are inspected thoroughly before it is being dispatched. We have a team of professionally trained service engineers who are ready to provide immediate after-sales service.

- **Importance of Scientific Laboratory Testing Equipment & Instruments**

The scientific instrumentation industry has been playing a key role as a basis for technological development to sustain the growth of the world, over the time there has been an ever-increasing need for us at quality instruments & equipment to meet the more diversified and sophisticated demand from all walks of our industrial society.

Instruments for Research Labs, Colleges, Schools and Various Industries like:

Life Sciences, Chemical, Pharmaceutical, Environmental, Biotechnology, Food & Beverage, Agriculture, and Energy.

- **We are Involved in the Production of the following types of Equipment**

We offer a wide range of scientific instruments and laboratory equipment of excellent quality at low prices, with a huge selection and personalized customer service.

The company supplies a comprehensive range of such products that include Orbital Shakers, Water Bath Shakers, Water Bath Circulators, Oil Baths, Peristaltic Pumps, Heating Blocks, Rocking Platform, Incubator Shakers, Bench Top Incubator, Hybridization Oven, etc.

These are designed and developed by highly qualified and experienced engineers, who possess in-depth knowledge of the market demand.

Our best quality Orbital Shaker, Incubator, Incubator Shaker, Rocking Platform, Bench Top Incubator and Shakers and Water Baths are widely used amongst customers, as all the items manufactured by us reflect excellent during operation.

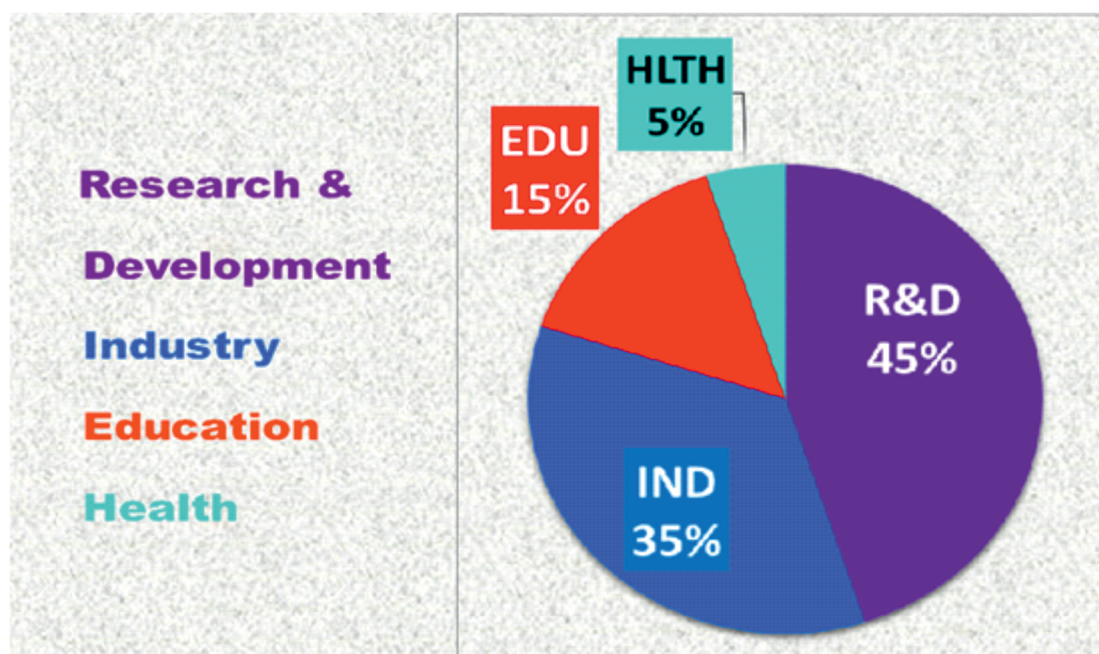
Our belief in offering complete satisfaction to customers through best quality, affordable prices and timely delivery has led us to an highest position in this business arena.

Niche Area of Business

The company caters to 4 major segments in indian laboratory market such as

- **Research and Development** Laboratories covered under Council of Scientific and Industrial Research (CSIR), Indian Council of Agricultural Research (ICAR), Indian Council of Medical Research (ICMR), indian space research, atomic energy and defense research.
- **Industry** consisting of Pharmaceutical, Chemical, Petrochemical and any other industrial unit which has a laboratory either for quality assurance or for R & D.
- **Education** comprising various universities including Agricultural Universities, Indian institutes of Technology, Science Colleges etc
- **Health Sector** comprising Hospitals, Pathological Labs etc.

BUSINESS SEGMENTS



The company is respected very well for its efficiency and values. This also has helped the company to very negligible dealer attrition rate. The company has focused on future expansion by appointing more dealers and can work throughout pan India network.

BENCH TOP ORBITAL / RECIPROCATING SHAKERS



BRUSHLESS DC MOTOR &
INBUILT DC DRIVE FOR 24 HRS CYCLE



THERMOTEK ORBITAL / RECIPROCATING SHAKERS, are typically designed to suit, researchers' application demands in cultivating microbial, tissue cultures and cell cultures. The constant agitation with uniform amplitude provides the optimum oxygen transfer to the cultures, resulting in better and homogenous yield. These lab scale open air shakers are available in 4 different variants to choose from. Based on clamp holding capacity and display for speed indicator.

SPECIFICATIONS :

- **Body Material :** MS Painted with Powder coated
- **Tray Material :** Stainless steel
- **Shaking Speed :** 20 - 200 Orbital strokes per min (without Load) - **For Orbital Shakers**
- **Shaking Speed :** 20 - 200 Horizontal strokes per min (without Load) - **For Reciprocating Shakers**
- PMDC Motor with 25 mm dia. Motion.
- BLDC Motor for 24 hrs running cycles. (Optional)
- Electrically operated on 230V AC/50Hz.

CAT. NO.	Tray Size in mm	Digital Speed Indiction
OS - 81 01	335 x 335	No
OS - 81 02	435 x 435	No
OSR - 81 03	335 x 335	Yes
OSR - 81 04	435 x 435	Yes

Note : SS Lotus clamps for holding the flasks in the shakers to be order separately.

CAT. NO.	Flask Capacity (ml)	No. of SS Lotus Clamps required for tray size 335 x 335 mm	No. of SS Lotus Clamps required for tray size 435 x 435 mm
SS CLAMP - 501	50	16	25
SS CLAMP - 502	100	16	25
SS CLAMP - 503	250	9	16
SS CLAMP - 504	500	9	16
SS CLAMP - 505	1000	4	9
SS CLAMP - 506	2000	1	4



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BENCH TOP ORBITAL SHAKER - HEAVY DUTY



SPECIFICATIONS :

- **Body Material** - MS Powder coated
- **Tray Material** - Stainless steel SS 304
- **Shaking Speed** : 20 - 250 Orbital strokes per min (without Load)
- Works on 230 Volt AC Single phase supply.

SPECIAL FEATURES :

- Brushless Induction Motor, for 24 hrs operation.
- DC DRIVE
- **Digital Voltmeter** : With LCD display for better view in the dark room.

ORDERING INFORMATION :

CAT. NO.	Tray Size in mm	RPM SPEED	Digital Speed Indication
OSR - 81 100	435 x 435	20 - 250	Yes
OSR - 81 750	750 x 750	20 - 250	Yes

Note : SS Lotus clamps for holding the flasks in the shakers to be order separately.

CAT. NO.	Flask Capacity (ml)	Platform size 750 mm x 750 mm can accommodate the following combinations	Platform size 435mm x 435 mm can accommodate the following combinations
SS CLAMP - 501	50	49	25
SS CLAMP - 502	100	49	25
SS CLAMP - 503	250	49	16
SS CLAMP - 504	500	25	16
SS CLAMP - 505	1000	25	8
SS CLAMP - 506	2000	9	4

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INCUBATOR WITH ORBITAL / RT-PLUS SHAKER



BRUSHLESS DC MOTOR &
INBUILT DC DRIVE FOR 24 HRS CYCLE



In order to provide optimal conditions for cell growth, some type of agitation or shaking is necessary to incorporate oxygen and evenly distribute nutrients throughout the culture media. That's often done by placing a separate shaker inside an incubator, but incubator shakers combine those functions for a more convenient and efficient setup. The incubator shaker can be used for growth of just about any kind of cell including bacterial cultures, tissue cultures and yeast. Incubator Shaker set-ups range from compact, benchtop systems to large-capacity, floor-stackable units the size of a large freezer.

SPECIFICATIONS :

- **Body Material** - MS Painted with Epoxy Powder Coated
- **Tray Material** - Stainless Steel 304
- **Temperature range** - (5 °C above ambient) to 60 °C
- **Shaking Speed** : 20 - 200 Orbital strokes per min
- PMDC Motor with 25 mm dia. Motion.
- BLDC Motor for 24 hrs running cycles. (Optional)
- **Stroke Length** : 25 mm dia
- Fitted with recirculation fan in the chamber for uniformity of temperature.
- **Samples viewing** : Transparent Glass window cutout on front door of 1 feet square.
- **Inbuilt Lighting** : Built in lighting attachment with low wattage provided with External Switch on the front panel.
- Digital Display with PID Controller of Accuracy ± 1.0 °C by using PT - 100 as Sensor.
- Electrically operated on 230V AC/ 50Hz.

CAT. NO.	Tray Size in mm	Chamber Size in mm	Stroke Speed per min.	Digital Speed Indication
IS - 82 01	335 x 335	400 x 400 x 450 ht	20 - 200	No
ISR 82 02	335 x 335	400 x 400 x 450 ht	20 - 200	Yes
IS - 82 03	435 x 435	500 x 500 x 500 ht	20 - 200	No
ISR - 82 04	435 x 435	500 x 500 x 500 ht	20 - 200	Yes
ISRT - 003	435 x 435	500 X 500 X 500 ht	20 - 200	Yes

Note : SS Lotus clamps for holding the flasks in the shakers to be order separately, please refer the above chart for CLAMPS to be used for Incubator shaker.

CAT. NO.	Flask Capacity (ml)	No. of SS Lotus Clamps required for tray size 335 x 335 mm	No. of SS Lotus Clamps required for tray size 435 x 435 mm
SS CLAMP - 501	50	16	25
SS CLAMP - 502	100	16	25
SS CLAMP - 503	250	9	16
SS CLAMP - 504	500	9	16
SS CLAMP - 505	1000	4	9
SS CLAMP - 506	2000	1	4



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BENCH TOP MICROPLATE SHAKER / INCUBATOR MICROPLATE SHAKER



MICROPLATE SHAKER provides regulated shaking for two micro plates. With a speed range of 200 to 1500 rpm, it can be adjusted to suit gentle shaking to ensure that the well contents are not ejected or more vigorous agitation for effective aeration across the small surface area of each of the wells. They are suitable for mixing, incubation and cultivation of biological and chemical components.

MICROPLATE SHAKER INCUBATOR is suitable for incubation and cultivation of biological and chemical components, denaturing of nucleic acids and proteins, stains and blots, microstate assays, enzyme and protein analysis etc. in microbiology, cell and molecular biology, immunology and biotechnology.

SPECIFICATIONS :

MICROPLATE SHAKER

- **Body Material :** MS Painted with Epoxy Powder
- **Tray Material :** Stainless Steel 304
- Compact size can accommodate 2 Nos. Micro Plate.
- 180 x 150 mm. with springs 2 multi well plates can be placed on the tray
- **Shaking Speed :** 100 - 1500 strokes per min
- PMGDC motor with 1 mm dia, Orbital motion is used.
- Electrically operated on 230V AC/ 50Hz.

MICROPLATE SHAKER INCUBATOR

- **Body Material :** - MS Painted with Epoxy Powder
- Temperature range (Ambient + 5) to 60 °C
- Fitted with recirculation fan in the chamber for uniformity of temperature
- Digital Display with PID Controller of Accuracy ± 1.0 °C by using PT – 100 as Sensor.
- **Shaking Speed :** 100 - 1500 strokes per min
- PMGDC motor with 1 mm dia, Orbital motion is used.
- Electrically operated on 230V AC/ 50Hz.

CAT. NO.	Description
MS - 91 01	180 x 150 mm, with springs, 2 multi well plates can be placed on the tray.

CAT. NO.	Tray Size in mm	Chamber Size in mm	Stroke Length	Stroke Speed per min.
IMS - 92 01	180 x 150 2 plates of 96 wells can be placed	270 x 255 x 100	1 mm dia. orbit	100 to 1500

BOD INCUBATOR SHAKER (90 / 125 LTRS)



In order to provide optimal conditions for cell growth, some type of agitation or shaking is necessary to incorporate oxygen and evenly distribute nutrients throughout the culture media. That's often done by placing a separate shaker inside an incubator, but incubator shakers combine those functions for a more convenient and efficient setup. The incubator shaker can be used for growth of just about any kind of cell including bacterial cultures, tissue cultures, and yeast

SPECIFICATIONS :

- **Outer Construction :** MS powder coated.
- **Inner Construction :** SS 304
- **Insulation :** Double walled construction with 70mm thick 'PUF' insulation provided in between the walls to prevent loss of temperature.
- **Refrigeration :** CFC free compressor utilizing R134a Eco-friendly refrigeration.
- **Samples viewing :** Transparent Glass window cutout on front door of 1 feet square.
- **Inbuilt Lighting :** Built in lightning attachment with low wattage provided with External Switch on the front panel.
- **Shaking Platform Size :** For conical flask SS Platform size with 335 x 335 mm | 435 x 435 mm.
- **Shaking Speed :** 20 – 200 Orbital Strokes per Min. (Without Load)
- **Additional SS Tray :** For Petri dishes and small beakers.
- **Temperature Range :** 5 °C to 60 °C, Accuracy: ± 1.0 °C.
- **Safety thermostat :** Safety Thermostat provided to cut off heater above 70 ° C.
- **Uniformity control :** Fitted with recirculation fan in the chamber for uniformity of temperature.
- **Platform capacity :** As per the table chart given below for tray size suitable clamps capacity.
- **Display Control :** Microprocessor based PID control by using PT 100 Sensor.
- **Speed Indicator :** Digital Speed Indicator on the front panel.
- **Mains Power :** Works on 230 V AC single phase 50Hz.

SPECIAL FEATURES FOR 90 LTRS

- **Motor Type :** Brushless Induction Motor. For 24 Hrs Working cycle.
- **DC Drive :** For BLDC Motor
- **Working Hours :** Operates on 24 Volt, Brushless DC Motor, for long running hours of various lab applications.
- Zero Maintenance.

SPECIAL FEATURES FOR 125 LTRS

- **Motor Type :** Brushless 3 phase Induction Motor, For 24 Hrs Working cycle.
- **VFD Drive :** For 3 Phase Induction Motor
- **Working Hours :** Operates on 3 Phase Induction Motor, for long running hours of various lab applications.
- Zero Maintenance.

ORDERING INFORMATION :

CAT. NO.	Capacity Ltrs.	Outer Chamber Size (L x D x HT) in mm	Inner Chamber Size (L x D x HT) in mm	Tray Size mm	Digital Speed Indication
BISR - 090	90	490 x 605 x 820	400 x 400 x 450	335 x 335	YES
BISR - 125	125	650 x 650 x 1300	500 x 500 x 500	435 x 435	YES

NOTE: The 3 KVA Capacity, Servo Controlled Voltage Stabilizer is a must for the above B.O.D. Incubator.

Loaded SS Clamps (removable) for Incubator Shaker: **OPTIONAL**

CAT. NO.	Flask Capacity (ml)	No. of SS Lotus Clamps required for tray size 335 x 335 mm	No. of SS Lotus Clamps required for tray size 435 x 435 mm
SS CLAMP - 501	50	16	25
SS CLAMP - 502	100	16	25
SS CLAMP - 503	250	8	16
SS CLAMP - 504	500	8	16
SS CLAMP - 505	1000	4	8
SS CLAMP - 506	2000	1	4

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BENCHTOP MICROLAB INCUBATOR



COMPACT BENCHTOP INCUBATORS are economical instruments ideally suited for use in microbiology or hematology applications. The heating elements incorporated on the housing bottom and sides ensures temperature stability and uniformity. With a space-saving footprint, the appliances are perfect for small work environments. Digital controls permit incremental temperature adjustments at any time. The compact benchtop incubators have sophisticated interfaces for unsurpassed accuracy and internal lights to observe samples within transparent doors.

SPECIFICATIONS :

TYPE	BENCH TOP MICROLAB INDUBATOR
Exterior Material :	MS Powder coated
Interior Material :	SS 304
Inner Chamber Size : L x D x H (mm)	300 x 260 x 300 ht
Outer Chamber Size : L x D x H (mm)	350 x 360 x 440 ht
Temperature controller	Microprocessor based PID control of Accuracy $\pm 0.5^{\circ}\text{C}$ by using PT 100 Sensor.
Temperature Range :	(5°C above ambient) to 60°C , Accuracy : 0.5°C .
Heater (Power)	350 watts
Samples Viewing :	Transparent Glass window cutout on front door of 1 feet square.
Inbuilt Lighting :	Built in LED lighting attachment with low wattage provided with External switch on the front panel.
LCD Voltmeter	For monitoring input AC voltage
Uniformity control :	Fitted with recirculation fan in the chamber for uniformity of temperature.
Mains Power :	Works on 230 V AC single phase 50Hz.

CAT. NO.	DESCRIPTION	WORKING CHAMBER SIZE IN MM	HEATER WATTS
MI - 001	MICROLAB INCUBATOR	300 X 260 X 300	350

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B.O.D. INCUBATOR



B.O.D. INCUBATORS are designed primarily to meet the requirements for tests of Biological Oxygen Demand / Biochemical Oxygen Demand and are equipped for controlled incubation and preservation of sensitive samples/cultures, microorganism cultures, vaccines & serum incubation etc. These Incubators are designed to meet the testing challenges of the competitive pharmaceutical research field and enhance the scientific efforts of educational institutions and organizations.

SALIENT FEATURES & TECHNICAL SPECIFICATIONS:

- Double walled construction with backside triple, having Stainless Steel – 304 Grade & Exterior Mild Steel with powder coat finish (STD Model) / Exterior Fully Stainless Steel with Dull Matt finish (GMP Model) .
- Castor wheels for easy movability.
- Units are highly insulated by thick PUF insulation between the walls.
- A key lockable Insulated door having magnetic gasket seals door gaps perfectly.
- A transparent full-length Acrylic inner door is provided to have a clear inner view of the samples/specimens put in, without disturbing the Thermal conditions inside the incubator.
- Illumination lamp fitted for clear visibility.
- Mechanical convection system (Motorized Blower) ensures even air distribution within the chamber .
- Heating by long life 'U' type S . S . tubular heaters .
- Cooling is done by CFC Free Hermetically sealed Emerson Copland make compressors utilizing R - 134 A an eco -friendly refrigerant .
- Adjustable & removable SS rod type shelves .
- The Control Unit Comprised of PLC Based System with Touch-Screen HMI / Dual Display Microprocessor based PID Temp. Controllers with PT – 100 sensor.

- Temperature Range : 5 °C to 60 °C, Accuracy : ± 1.0 °C
- Operates on 230 Volts AC Single phase 50 Hz .

SPECIAL FEATURES :

- Redundant high temperature safety system with Alarm & safety Thermostat automatically cuts - off power to heaters if temperature exceeds 70 °C
- Inbuilt Overload protection relay for compressor
- Compressor ON delay timer, to safe guard the compressor.

OPTIONAL ACCESSORIES :

- Stand by refrigeration system (Except for 90 Liters.).
- Electronic Digital Timer Range from 0 to 999 Minutes
- PC / Printer Interface.
- Scanner with 4 point temperature and sensors and printer interface.
- Servo Controlled Voltage Stabilizer.
- 21 CFR part 11 compliant software.

ORDERING INFORMATION FOR STD MODELS:

CAT. NO.	CAPACITY Ltrs. / Cu Ft.	Internal Dimensions W X D X H (CM)
BOD/MS 0004	120 / 04	45 x 45 x 60
BOD/MS 0008	200 / 08	60 x 60 x 60
BOD/MS 0012	324 / 12	60 x 60 x 60
BOD/MS 0016	450 / 16	60 x 60 x 125
BOD/MS 0035	1000 / 35	80 x 100 x 125

ORDERING INFORMATION FOR GMP MODELS:

CAT. NO.	CAPACITY Ltrs. / Cu Ft.	Internal Dimensions W X D X H (CM)
BOD/SS 0004	120 / 04	45 x 45 x 60
BOD/SS 0008	200 / 08	60 x 60 x 60
BOD/SS 0012	324 / 12	60 x 60 x 60
BOD/SS 0016	450 / 16	60 x 60 x 125
BOD/SS 0035	1000 / 35	80 x 100 x 125

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BACTERIOLOGICAL INCUBATOR



BACTERIOLOGICAL INCUBATORS are designed to serve a wide span of requirements, most useful for General Incubation, Excellent for usage in Microbiological Labs & more specifically to maintain optimal temperature conditions for growth of microbiological cultures in a controlled environment.

SALIENT FEATURES & TECHNICAL SPECIFICATIONS :

- Double wall construction with Inner made of Stainless Steel – 304 Grade & Exterior Mild Steel with powder coat finish (STD Model) / Exterior Fully Stainless Steel with Dull Matt finish (GMP Model)
- High density glass wool insulation between walls to Prevent heat dissipation.
- A transparent full length Acrylic inner door is provided to have a clear inner view of the samples put in, without disturbing the Thermal Conditions inside the incubator.
- A fully insulated door with sturdy S. S. hinges, S. S. Latch Handle lock and gasket which acts as a perfect sealant.
- Heating elements are made of high grade Nichrome wire and placed the both sides, of the unit.
- Temperature Range: 5°C above ambient to 60°C.
- Temperature controlled by Dual Display Microprocessor based PID Temperature Controller & PT - 100 Sensor with +/- 1.0 °C or better Accuracy.
- Forced Air Circulation System with motorized Blower Arrangement to maintain uniform Temperature within the chamber.
- Air Ventilation is provided on the Top / Sides of The unit to remove heat gases and fumes.
- Shelves are available with removable SS Rod shelves.
- Operates on 230 Volts AC Single phase 50 Hz.

SAFETY FEATURES :

- Capillary type Thermostat provided to take care of temperature overshoots & in case the PID Controlling system fails.

OPTIONAL ACCESSORIES :

- Stand by refrigeration system (Except for 90 Liters.).
- Electronic Digital Timer Range from 0 to 999 Minutes
- PC / Printer Interface.
- Scanner with 4 point temperature and sensors and printer interface.
- Servo Controlled Voltage Stabilizer.
- 21 CFR part 11 compliant software.

ORDERING INFORMATION FOR STD MODELS:

CAT. NO.	CHAMBER SIZE (INCH)	CHAMBER SIZE (CM)	SHELVES (S S)
BAC/MS 002	14 X 14 X 14	35 X 35 X35	2
BAC/MS 003	18 X 18 X 18	45 X 45 X 45	2
BAC/MS 004	18 X 18 X 24	45 X 45 X 60	3
BAC/MS 005	24 X 24 X 24	60 X 60 X 60	3
BAC/MS 006	24 X 24 X 36	60 X 60 X 90	3

ORDERING INFORMATION FOR GMP MODELS:

CAT. NO.	CHAMBER SIZE (INCH)	CHAMBER SIZE (CM)	SHELVES (S S)
BAC/SS 002	14 X 14 X 14	35 X 35 X35	2
BAC/SS 003	18 X 18 X 18	45 X 45 X 45	2
BAC/SS 004	18 X 18 X 24	45 X 45 X 60	3
BAC/SS 005	24 X 24 X 24	60 X 60 X 60	3
BAC/SS 006	24 X 24 X 36	60 X 60 X 90	3

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WATER BATH SHAKER



THE **WATER BATH SHAKERS** has wide applications in Biotechnology, Micro-Biology, Chemistry, Quality Control and other life sciences laboratories.

The Water Bath Shaker is based on the principle of constant shaking under highly controlled temp. Conditions generated through hot steam inside the chamber.

SPECIFICATIONS :

- Body Material - MS Painted with Epoxy Powder.
- Bath & Tray Material – Stainless steel 304
- Temperature range ambient + 5 °C to 95 °C
- Digital Display with PID Controller of Accuracy $\pm 1.0^{\circ}\text{C}$ by using PT – 100 as Sensor
- Water Drain Nozzle is fitted
- Shaking Speed: Horizontal strokes & Orbital strokes (20 – 200) per min. (without load)
- Supplied with SS Gabled Cover.
- Electrically operated on 230V AC/ 50Hz

CAT. NO.	Type	Tank size L x D x H In mm	Tray size L x D x H In mm	Stroke Speed per min.
WBS - 501	Reciprocating (Horizontal)	370 x 300 x 200	250 x 250 x 140	20 - 200
WBS - 502	Reciprocating (Horizontal)	470 x 360 x 200	350 x 310 x 140	20 - 200
WBS - 503	Orbital	450 x 425 x 200	335 x 335 x 15	20 - 200

Note : SS Lotus clamps for holding the flasks in the shakers to be order separately.

CAT. NO.	Flask Capacity (ml)	No. of SS Lotus Clamps required for tray size 250 x 250 mm	No. of SS Lotus Clamps required for tray size 350 x 310 mm	No. of SS Lotus Clamps required for tray size 335 x 335 mm
SS CLAMP - 501	50	9	20	16
SS CLAMP - 502	100	9	20	16
SS CLAMP - 503	250	5	9	9
SS CLAMP - 504	500	5	9	9
SS CLAMP - 505	1000	2	4	4
SS CLAMP - 506	2000	1	1	1

HSN - 8419 1920 GST % - 18 %

WATER BATH CIRCULATOR



A **WATER BATH CIRCULATOR** is laboratory equipment made from a container filled with heated water. It is used to incubate samples in water at a constant temperature over a long period of time. All Our water baths are provided with digital interface to allow users to set a desired temperature. Utilizations include warming of reagents, melting of substrates or incubation of cell cultures.

STANDARD FEATURES AND SPECIFICATIONS :

- **Bath Material** : SS 304, Exterior Material - MS Powder coated,
- Digital display with PID Controller to ± 1.0 °C accuracy by using PT 100 sensor.
- Temperature Range ambient + 5 °C to 95 °C
- Fitted with Circulator for uniformity of temperature inside the Bath.
- Electrically operated on 230V AC/ 50Hz.
- **Provision of Outbath Circulation can be done. (Optional)**

CAT. NO.	Temp- rang	Working Space (Including Circulator) mm	Cover	No. of Rack
WBCG - 121 01	Amb.to 95° C	300 x 175 x160	SS Gabled	2
WBCG - 121 02	Amb.to 95° C	350 x 300 x160	SS Gabled	Not Provided

Note : For Supplying racks, test tube dimensions have to be mentioned

Standard Size of Test Tube for Water Bath Circulator are :			
Rack 1			
0.5 ml		1.5 ml	
16 Holes		16 Holes	
Rack 2			
13 mm	16 mm		19 mm
06 Holes	09 Holes		09 Holes

HSN - 8419 1920 GST % - 18 %

CONSTANT TEMPERATURE WATER BATH



Double walled construction inner made of Stainless. Steel & exterior made of powder coated/fully Stainless. The gap between the two walls filled with glass wool insulation. Heating is by immersion type heaters. Temperature Controlled by Electronic Digital Temperature Controller with PT 100 as sensor. A motor with stirrer is mounted on a base & fitted on the side of the bath for uniformity. Lid made of Stainless steel.

SPECIFICATIONS :

- Bath Material – SS 304, Exterior Material - MS Powder coated,
- Digital display with PID Controller to $\pm 1.0^{\circ}\text{C}$ accuracy by using PT 100 sensor.
- Temperature Range: 5°C above ambient to 95°C
- Control Accuracy: $+0.5^{\circ}\text{C}$.
- Safety controls – Digital safety controller is provided to avoid Overshoot Temperature.
- Fitted with Circulator for uniformity of temperature inside the Bath.
- Mains Power : Works on 230 V AC single phase 50Hz

CAT. NO.	Chamber Size In Inches	Chamber Size In MM	Rating Watts	Volume In LTRS	Inner Chamber	Outer Chamber
CWB -001	18" X 12" X 10"	460 X 305 X 255	2.0 K.W.	18.0	S.S.304	MS Powder coated
CWB - 002	22" X 12" X 10"	560 X 305 X 255	2.0 K.W.	27.0	S.S.304	MS Powder coated
CWB - 003	26" X 14" X 12"	660 X 355 X 305	2.0 K.W.	47.0	S.S.304	MS Powder coated
CWB - 004	18" X 12" X 10"	460 X 305 X 255	2.0 K.W.	18.0	S.S.304	S.S.304
CWB - 005	22" X 12" X 10"	560 X 305 X 255	2.0 K.W.	27.0	S.S.304	S.S.304
CBW - 006	26" X 14" X 12"	660 X 355 X 305	2.0 K.W.	47.0	S.S.304	S.S.304

HSN - 8419 1920 GST % - 18 %

WATER BATH WITH THERMOSTATIC / DIGITAL CONTROLLER



SPECIFICATIONS :

- Inner chamber is made of thick gauge S.S. 304 grade
- Outer Body with M.S. Powder coating/SS 304
- The gap between the two walls is filled with glass wool.
- Specially made extra long heating elements for high heat dissipation, uniformity & longer life.
- Concentric rings of 3" dia i.e. (7.5 cm) made up of SS 304 with 6 & 12 holes.
- Temperature range: Ambient + 5°C to 99°C
- Temperature controlled by Thermostatic control / Digital PID Controller.
- Provided with indicating lamp & on/off switch
- Electrically operated on 230V AC single phase power

CAT. NO.	Capacity In LTRS	Model	Size In MM	Holes	Inner Chamber	Outer Chamber	Watts
WBD - MS 006	14	STD	325 X 300 X 150	6	SS 304	MS Powder coated	1000
WBD - MS 012	22	STD	500 X 300 X 150	12	SS 304	MS Powder coated	2000
WBD - SS 006	14	GMP	325 X 300 X 150	6	SS 304	SS 304	1000
WBD - SS 012	22	GMP	500 X 300 X 150	12	SS 304	SS 304	2000
WBT - MS 006	14	STD	325 X 300 X 150	6	SS 304	MS Powder coated	1000
WBT - MS 012	22	STD	500 X 300 X 150	12	SS 304	MS Powder coated	2000
WBT - SS 006	14	GMP	325 X 300 X 150	6	SS 304	SS 304	1000
WBT - SS 012	22	GMP	500 X 300 X 150	12	SS 304	SS 304	2000

HSN - 8419 1920 GST % - 18 %

OIL BATH



An **OIL BATH**, a type of heated bath, is a laboratory heating device that uses boiling oil as the temperature regulator. Since different oils have different boiling points it is possible to obtain a temperature near to the desired temperature by selecting an oil with a boiling point as close as possible to the desired temperature. An oil bath is essentially a container of oil heated through a heat source. The most common oils that are being utilized in oil baths are paraffin, glycerol, silicon oil, or cottonseed oil due to their quite odorless characteristics.

SPECIFICATIONS :

- Bath Material – SS 304, Single walled without insulation.
- Heater material used in Bath – SS 304, Bakelite Handles are provided to bath.
- Separate temperature Control unit with ± 1.0 °C accuracy controls temperature from Ambient to 250 °C by PID Controller using PT 100 sensor.
- A unit can be kept 2 mtrs away from the oil bath.
- Oil Bath can be used for heating round bottom glass flasks.
- Electrically operated on 230V AC single phase power

CAT. NO.	Capacity In LTRS.	Dimensions DIA X DEPTH MM
OB - 001	1	165 X 90
OB - 002	2	205 X 115
OB - 003	3	225 X 130
OB - 004	5	270 X 155
OB - 005	10	300 X 160
OB - 006	20	400 X 225

HSN - 8419 1920 GST % - 18 %

ULTRASONIC CLEANERS



ULTRASONIC CLEANING is a process that uses ultrasound to agitate a fluid, with a cleaning effect. Ultrasonic cleaners come in a variety of sizes, from small desktop units with an internal volume of less than 0.5 litres, to large industrial units with volumes.

SPECIFICATIONS :

- **Bath Material:** SS 304
- **Outer Body Material & Lid :** SS 304
- **Ultrasonic Generator :** Advanced latest MOSFET/IGBT based SMPS
- **Frequency :** 30 ± 3 KHz
- **Temperature Range :** Ambient + 5 °C to 60 °C - (Factory Set)
- **Transducer :** Imported make PZT crystals bonded on the base of the tank with weld bond technique.
- **SS Basket :** Provided
- **Built-in Digital Timer :** Provided
- **Electric supply :** 230V/ 50Hz AC, single phase.
- **Drain :** Drain valve provided at the rear side of the tank (not included for 1.5 litre model)

ORDERING INFORMATION :

CAT. NO.	TANK CAPACITY IN LITRES	BUILT IN TIMER	TANK CLEAR SIZE IN MM	ULTRASONIC POWER WATTS	INNER BODY	OUTER BODY
UC -0015	1.5	YES	240 X135 X 65	50	SS	SS
UC - 0005	5.0	YES	230 X 230 X 100	100	SS	SS
UC - 0090	9.0	YES	300 X 240 X 150	200	SS	SS
UC - 0020	20.0	YES	350 X 300 X 200	400	SS	SS
UC - 0030	30.0	YES	375 X 375 X 200	500	SS	SS
UC -0050	50.0	YES	550 X 300 X 300	750	SS	SS

HSN CODE – 8456 2000 GST % - 18 %

ULTRASONIC CHILLER WITH SONICATOR BATH



CHILLER SONICATOR BATH :

System: The total system consists of 2 parts.

- A) Ultrasonic Chamber.
- B) Cooling System consisting of cooling coils, condenser & compressor of suitable capacity. This helps in maintaining the required temperature.

SALIENT FEATURES :

- Imported PZT Sandwich type bonded at the bottom of the tank.
- High Frequency Built in MOSFET based SMPS
- Timer 0 to 99 minute's Digital count down with display.
- Auto degassing present 5 minutes for ultrasonic tank
- Pulse Sweep Power for Uniform distribution of Ultrasonic energy for ultrasonic tank.
- Easy to operate and made up of SS 304 (16 SWG) Fabricated tank.
- Extensive protected generator circuits for longer & safer operation.
- **SS 304 Adjustable Basket provided.** : - Drain with Ball valve will be provided.
- **SS 304 LID provided.** : - Complete Instruction Manual for easy operation will be provided.

SPECIFICATIONS :

Tank Capacity	10 L	20 L	30 L
Model	Table Top	Table Top	Table Top
Tank Size	12" x 10" x 6"	18" x 12" x 6"	14" x 14" x 10"
Basket Size	11" x 9" x 5"	17" x 11" x 5"	12" x 12" x 8"
Inner Body Material	SS 304 (16 SWG thickness) with rounded corners & mirror finish		
Outer Body Material	SS 304 (18 SWG thickness with matt finish)		
Total Solvent Capacity	10 ltrs		
Electric Supply	230 V AC, 50Hz, Single phase		
Power Output (Ultrasonic)	250 watt	400 watt	500 watt
Timer	0-99 min with Digital Display of set & actual.		
Temperature Controller	Digital temperature controller with setting range 10°C to temperature Max 30 °C. Display Resolution : 1.0 °C		
Cooling System	Hermatically sealed Compressor, CFC free Reigrigerant		
Auto Degassing	Preset for 5 Min.		
PSP	Pulse sweep power for uniform distribution of U/S energy		
Frequency	30 KHz \pm 3 KHz		
Transducers	Imported make PZT type bonded at the Bottom Side of the tank with weld bond technique		
Ultrasonic Generator	Advanced latest IGBT based SMPS		
Drain	½ " Drain with Ball valve will be provided.		
Legs	Rubber Bush	Rubber Bush	Castor Wheels
Bath Liquid	Water / Solvent		
STD Accessories	SSS304 basket, Mains cable, Ss304 Lid		

ORDERING INFORMATION :

CAT. NO.	TANK CAPACITY LTR	TANK SIZE (L X w X H)	OVERALL DIMENSIONS (L X W X H)	ULTRASONIC POWER (WATTS)
UCSB - 0010	10	12" X 10" X 6"	18" X 18" X 20"	250
UCSB - 0020	20	18" X 12" X 6"	24" X 20" X 20"	400
UCSB - 0030	30	14" X 14" X 10"	22" X 22" X 36"	500

HSN CODE – 8456 2000 GST % - 18 %

ROCKING PLATFORM



SINGLE TIER



DOUBLE TIER

A **ROCKING PLATFORM** is a device used for mixing and agitating samples in laboratories and is often used in molecular biology experiments. Rocking platforms have variable speeds and adjustable tilt to provide optimal control over mixing conditions. They can be used for a variety of applications, including Incubating liquid bacterial cultures, Staining and destaining gels and blots, hybridization, Cell culture work, and hematology.

SPECIFICATIONS :

- Body material is MS powder coated
- Tray material is SS 304
- **Shaking Speed:** 8-60 strokes per min.
- Permanent Magnet Geared DC motor as driving mechanism is used
- **Tray Size in mm:** 300 X 275 X 25
- Electrically operated on 230V AC single phase power.

CAT. NO.	Description
RPS - 51 01	ROCKING PLATFORM WITH SINGLE TIER
RPD - 51 02	ROCKING PLATFORM WITH DOUBLE TIER

HSN CODE – 8479 8200 GST % - 18 %

TEST TUBE ROTATOR



TEST TUBE ROTATORS are laboratory tools used to gently and consistently mix the contents of tubes. They are used in a variety of scientific and medical disciplines, including: biochemistry, molecular biology, microbiology, and clinical diagnostics. Some applications of test tube rotators include: Keeping biological samples in suspension, Mixing blood aerating cultures, Preparing blood cell suspensions, and Washing precipitates in solvent solutions

SPECIFICATIONS :

- Powder coated M. S. body.
- **Approx. dimensions:** mm 500 L x 250 D x 300 H
- Speed Variable from 10 – 100 RPM. (Without load)
- Permanent magnet DC geared motor.
- Noise-free silent operation.
- Constant current speed control circuit for steady speed.
- Electrically operated on 230V AC single phase power.

CAT. NO.	Description
	Test tube rotator with a combination of the following can be accommodated.
TTR - 001	0.5 ml Eppendorf tubes - 32 Nos. 1.5 ml Eppendorf tubes - 32 Nos.
TTR - 002	Ø 16 ml Test tubes - 12 Nos. Ø 19 ml Test tubes - 12 Nos.
TTR - 003	Ø 50 ml Test tubes - 24 Nos.

HSN CODE – 8479 8200 GST % - 18 %

UNIVERSAL CELL MIXER



A **UNIVERSAL CELL MIXER** is a device that can be used for a variety of applications, including:

- **Tissue culture:** Suitable for mini tissue culture work
- **Blood suspensions:** Can be used for blood suspensions without sedimentation or foaming
- **Vigorous agitation:** Can be used for vigorous agitation and end-to-end mixing
- **Mounting tubes:** Tubes can be mounted at any angle from horizontal to vertical

SPECIFICATIONS :

- Suitable for mini tissue culture work and blood suspensions without sedimentation or foaming.
- Also suitable for vigorous agitation and end-to-end mixing.
- Tubes can be mounted at any angle from horizontal to vertical, tubes concerning axis of rotation.
- Different sizes from 12 mm to 25 mm dia can be accommodated
- Speed Variable 10 - 100 RPM (without load).
- Electrically operated on 230V AC single-phase power.

CAT. NO.	Tube Dimensions
CM - 001	UNIVERSAL CELL MIXER with 0.5 ml (Ø 8 mm) Eppendorf tubes - 12 nos & 1.5 ml (Ø 11 mm) Eppendorf tubes - 12 nos
CM - 002	UNIVERSAL CELL MIXER with 15 ml (Ø 13 mm) Eppendorf tubes - 08 nos
CM - 003	UNIVERSAL CELL MIXER with 50 ml (Ø 31 mm) Eppendorf tubes - 08 nos

HSN CODE – 8479 8200 GST % - 18 %

SMARTMIX SM 30A



SMARTMIX is the updated mode of Vortex Mixer. The equipment is ideal for thorough quick mixing of liquids in Test tubes, small flasks and small bottles. The equipment provided with eccentric drive to a rubber buffer cup on the top. The container with the liquids to be mixed is held against the vibrating cup on top. The velocity of the agitation can be controlled by the speed of the vibrating cup and the pressure at which the container is held on the vibrating cup. The unit is also provided with an adaptor with different micro tube holder to use it as a mini shaker. The adaptor can accommodate 6 micro tubes (Eppendorf tubes) of 0.4 ml, or 0.5 ml or 1.5 ml.

TECHNICAL SPECIFICATIONS :

Housing	ABC moulder housing with poly Urethane coating mounted on steel base
Stability Mounting	Vacuum rubber feet provided to keep the unit stable on table top to avoid skidding while in vibrating mode.
Drive Motor Assembly	AC motor with eccentric drive mechanism to provide vibration to the runner buffer cup.
Speed Control	Thyristorized Electronic speed control provided to facilitate stepless variable speed of vibration. Speed range 200 to 1600 RPM
Auto / Manual Mode	<p>Provided with option of Auto / Manual Mode for operation.</p> <p>Auto Mode : will start the vibration when the tube is pressed to the vibrating cup at the set speed and will stop when the tube is removed. The agitation varies depending on the set speed by the speed control and also depending on the pressure exerted on to the vibrating cup</p> <p>Manual Mode : To manually switch on / off and will operate continuity till switch off.</p>
Adaptor for small tubes	The equipment is provided with a replaceable rubber adaptor that can accommodate micro tubes (Eppendorff tubes) 6 Nos of 0.4 ml or 0.5 ml or 1.5 ml
Electric Power	220 / 230 Volts 50 Hz AC. The unit is provided with 5 Amps 3 pin plug and protective fuse.
Dimensions-WxDxH	130 x 185 x 145 mm
Weight	3.3 Kgs.

HSN CODE – 8479 8200 GST % - 18 %

HEATING BLOCK / DRY BATH



The main applications that require dry block baths in the lab are microbiology and clinical laboratories for incubation, enzyme assay, inactivation, boiling, wet washing, extraction, sample concentration and many other applications.

SPECIFICATIONS :

- Temperature range ambient to 100 °C
- Microprocessor based Digital PID Temperature Controller using PT 100 sensor.
- Temperature Accuracy ± 0.5 °C.
- **Body Material** : MS Painted with Epoxy Powder.
- Electrically operated on 230V AC single phase power.

CAT. NO.	Description		
	Combination of 03 Nos of Interchangeable Aluminum Blocks of 75 x 50 x 50 mm sizes for accommodating Eppendrof and Test tube sizes		
HB - 001	Block 1	Block 2	Block 3
	0.5 ml	1.5 ml	12 mm
	24 Holes	15 Holes	12 Holes
HB - 003	Block 1	Block 2	Block 3
	0.5 ml	1.5 ml	16 mm
	24 Holes	15 Holes	06 Holes
HB - 004	Block 1	Block 2	Block 3
	0.5 ml	1.5 ml	19 mm
	24 Holes	15 Holes	06 Holes
HB - 005	Single Block of 150 x 75x 50 mm size for accommodating 50 Test tubes of 10 mm Dia for LAL Test.		
HB - 002	Single Block of 150 x 100 x 50 mm size for accommodating 60 tubes of 10 mm Dia for LAL Test.		

HSN CODE – 8419 1920 GST % - 18 %

HEATING MANTEL ANALOG / DIGITAL



HEATING MANTLES are used for heating or tempering organic liquids placed in reaction kettles, round-bottomed flasks, or relevant reaction vessels required for the boiling, evaporation, distillation, or extraction process.

HEATING MANTLE

- MS Powder Coated Aluminium metal Body.
- Energy Regulator, Switch & Indicating Lamp
- **Temperature range** : (Ambient + 5) to 350 ° C
- Max. Temperature upto 350 °C Aprox.
- Fuse fitted on backside for overload protection. (SAFETY)

ORDERING INFORMATION :

CAT. NO.	MODEL	CAPACITY (ML)	WATTS
HM - 0002	Heating Mantel Analog	100	60
HM - 0003	Heating Mantel Analog	250	85
HM - 0004	Heating Mantel Analog	500	150
HM - 0005 / HMD - 0005	Heating Mantel Analog / Digital	1000	200
HM - 0006 / HMD - 0006	Heating Mantel Analog / Digital	2000	300
HM - 0007 / HMD - 0007	Heating Mantel Analog / Digital	3000	450
HM - 0008 / HMD - 0008	Heating Mantel Analog / Digital	5000	2 X 300
HM - 0009	Heating Mantel Analog	10000	2 X 600
HM - 0010	Heating Mantel Analog	20000	3 X 665

HSN CODE – 8419 1920 GST % - 18 %

HOT PLATE - ROUND (THERMOSTATIC / DIGITAL)



ROUND TOP HOT PLATES are useful laboratory heating equipment, each type suitable for certain applications. However, here are some factors to consider when deciding the type of plate to use.

Glassware Shape - If you primarily use round-bottomed glassware, such as round-bottom flasks or test tubes, a round-top hot plate may be more convenient as it accommodates the curved shape perfectly. In contrast, if you frequently use square or rectangular glassware, such as crystallization dishes, a square top hot plate may be more suitable as the flat surface matches the glassware shape.

SPECIFICATIONS :

- **Hot plate type** : Round
- **Body Material** : MS Painted with Epoxy Powder
- **Temperature range** : (Ambient + 5) to 350 °C
- **Temperature Control** : Thermostatic / Digital control
- **Mains Power** : 230V/ 50hz Ac

ORDER SPECIFICATION FOR ROUND TYPE :

CAT. NO.	CAT. NO.	Plate Dimension (inches)	Rating In (KW)
HPT - 0008	HPD - 0008	8	1.2
HPT - 0009	HPD - 0009	9	1.5
HPT - 0012	HPD - 0012	12	2.0

HSN CODE – 8419 1920 GST % - 18 %

HOT PLATE - RECTANGULAR (THERMOSTATIC / DIGITAL)



RECTANGULAR TOP HOT PLATES are useful laboratory heating equipment, each type suitable for certain applications. However, here are some factors to consider when deciding the type of plate to use.

Glassware Shape - If you primarily use Rectangular-bottomed glassware, such as Rectangular-bottom flasks or test tubes, a Rectangular-top hot plate may be more convenient as it accommodates the curved shape perfectly. In contrast, if you frequently use square or rectangular glassware, such as crystallization dishes, a square top hot plate may be more suitable as the flat surface matches the glassware shape.

SPECIFICATIONS :

- **Hot plate type** : Rectangular
- **Body Material** : MS Painted with Epoxy Powder
- **Temperature range** : (Ambient + 5) to 350 °C
- **Temperature Control** : Thermostatic / Digital control
- **Mains Power** : 230V/ 50hz Ac

ORDER SPECIFICATION FOR RECTANGULAR TYPE :

CAT. NO.	CAT. NO.	Plate Dimension (inches)	Rating In (KW)
HPT - 1012	HPT - 1012	10 X 12	1.0
HPT - 1016	HPT - 1016	10 X 16	1.2
HPT - 1218	HPT - 1218	12 X 18	2.0
HPT - 1824	HPT - 1824	18 X 24	3.0

HSN CODE – 8419 1920 GST % - 18 %

BUNSEN BURNER - DIGITAL



A **DIGITAL BUNSEN BURNER** is used for non-contact heating of test tubes, crucibles, flasks, and beakers. It can also be used to sterilize inoculating needles for microbiological work.

TECHNICAL SPECIFICATIONS :

- Conically shaped refractory crucible
- **Size of cup** : 55 mm Dia x 47 mm Ht.
- Stainless Steel cylindrical body SS 304 with mirror finish
- Control Panel made of SS 304 with mirror finish
- Maximum working temp. 450 °C. Approximate Temperature.
- The temperature is controlled by digital PID temperature controller.
- Fuse fitted on backside for overload protection. (SAFETY)
- **Power** : 350 W
- Works at 1 Phase 230 Volts 50 Hz

CAT. NO.	Model	Type	Shape	Watts
BBD - 001	BUNSEN BURNER - Digital	Refractory Crucible	Conical	350

HSN CODE – 8419 1920 GST % - 18 %

EXTRACTION AND KJELDAHL APPARATUS



The **KJEHLDAHL APPARATUS** is suitable to heat soxhlet flask of different sizes. It is made up of thick gauge c.r.c.a. sheets. The Heating elements are made up of best quality 80/20 nichrome wire of appropriate gauge enclosed in multiple fiberglass sleeves, reinforced with rope and attached to fiberglass knitted fabric support to the bottom of the flask. The soxhlet unit is provided with two vertical and a horizontal rod. The heating elements have individual energy regulators to control temperature. Pilot lamps indicate working of the elements.

SPECIFICATIONS :

- **Body Material :** MS Painted with Powder coating
- Available with 4 & 6 heaters & with energy regulator control
- Max temp (approx 400 °C)
- Electrically operated on 230V AC/ 50Hz.

ORDERING INFORMATION :

CAT. NO.	CAPACITY ml	NO. OF CONTROLS	WATTS
EKA - 0001	100	4	400
EKA - 0002	250	4	600
EKA - 0003	500	4	800
EKA - 0004	1000	4	1200
EKA - 0005	2000	4	1800
EKA - 0006	100	6	600
EKA - 0007	250	6	900
EKA - 0008	500	6	1200
EKA - 0009	1000	6	1800
EKA - 0010	2000	6	2500

HSN CODE – 8419 1920 GST % - 18 %

PERISTALTIC PUMP



PERISTALTIC PUMPS work on principle of “Positive transportation of fluids by cyclic contraction and expansion of Flexible tubes. A Silicon Rubber tube supported by a semicircular stage and is squeezed by three rollers cyclically for creating suction head and pushing forward the liquid or gas. There are many advantages in this method of fluid handling.

SPECIFICATIONS :

- **Body Material :** MS Painted with Epoxy Powder.
- Single Channel
- Stage made up of cast aluminum with Black epoxy powder paint
- Rollers of Cast Nylon
- Supplied with 1 meter transparent silicon tube
- Reversible flow control
- Pumps different flow rate are available
- Electrically operated on 230V AC/ 50Hz.

CAT. NO.	Flow Rates	Tube Size mm
PP - 001	6 - 60 ml / Hour	I. D. 1/ O. D. 3
PP - 002	10 - 80 ml / min	I. D. 2/ O. D. 4
PP - 003	80 - 650 ml / min	I. D. 5 / O. D. 8.
PP - 004	110 - 900 ml / min	D. 6 / O. D. 9

HSN CODE - 8479 8200 GST % - 18 %

HYBRIDIZATION OVEN



HYBRIDIZATION OVENS are used in research labs, molecular biology labs, and other labs to identify RNA, DNA, and proteins. They are used for nucleic acid and protein hybridizations, and are especially useful for Northern, Southern, and Western blots.

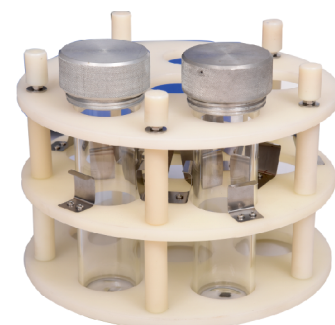
SPECIFICATIONS :

- **Interior Material** – SS 304
- **Exterior Material** - MS powder coated
- **Temperature range** : (5 °C above Ambient) to 90 °C
- **Observation**: Viewing Glass Window is provided
- **Temperature control**: By Digital Display with microprocessor-based PID Controller of accuracy ± 0.5 °C by using PT – 100 as a Sensor.
- A carrier to hold bottles (6 nos. of 60 mm dia x 200 mm length) can be easily placed or removed from the rotor mechanism
- One bottle can be taken out without removing the carrier. The carrier rotates with the Bottles parallel to the door at a variable speed of **2 – 15 RPM**

CAT. NO.	Outer Dimensions in (mm) (LxDxH)	Inner Dimensions in (mm) (LxDxH)	Volume Ltrs	Wattage (W)
HYB - 001	650 x 525 x 485	350 x 350 x 400	50	650

REMOVABLE HYBRIDIZATION BOTTLE CARRIER:

CAT. NO.	Hybridization Bottle Dimension in (mm)	Type of Bottle	Maximum Number of bottles
HYB - 501	60 dia x 200 depth	Fabricated with Borosilicate glass with leak proof aluminum housing screw cap	06



HSN CODE - 8514 1000 GST % - 18 %

HYBRIDIZATION TUBE ROTATOR



HYBRIDIZATION TUBE ROTATOR OVEN is used in research labs, molecular biology labs, and other labs to identify RNA, DNA, and proteins. They are used for nucleic acid and protein hybridizations, and are especially useful for Northern, Southern, and Western blots.

SPECIFICATIONS :

- **Interior Material** – SS 304
- **Exterior Material** - MS powder coated
- **Temperature range** : (5 °C above Ambient) to 90 °C
- **Observation**: Viewing Glass Window is provided
- **Temperature control**: By Digital Display with microprocessor-based PID Controller of accuracy ± 0.5 °C by using PT – 100 as a Sensor.
- A carrier platform to hold tubes (**8 tubes x 4 plates = 32 Nos, of 25 mm dia x 200 mm length**) can be easily placed or removed from the rotor mechanism
- One Glass Tube can be taken out without removing the carrier. The carrier rotates with the Glass Tube parallel to the door at a variable speed of 5 – 100 RPM

CAT. NO.	Outer Dimensions in (mm) (LxDxH)	Inner Dimensions in (mm) (LxDxH)	Volume Ltrs	Wattage (W)
HYB - 002	505 x 485 x 630	350 x 445 x 400	60	650

REMOVABLE HYBRIDIZATION TEST TUBE CARRIER:

CAT. NO.	Hybridization Tube Dimension in (mm)	Type of Tube	Maximum Number of Tube
HYB - 502	Tube Capacity - 50 ml Size - 25 mm dia x 200 mm length	Fabricated with Borosilicate Glass with leak proof PP screw cap	32



HSN CODE - 8514 1000 GST % - 18 %

LABORATORY HOT AIR OVEN



OPTIONAL ACCESSORIES :

- Thermal Safety fuse provided to avoid overheating
- Electronic Digital Timer Range from 0 to 999 Minutes
- PC / Printer Interface

SALIENT FEATURES & TECHNICAL SPECIFICATIONS :

- Double wall construction with Inner made of Stainless Steel – 304 Grade & Exterior Mild Steel with powder coat finish (STD Model) / Exterior Fully Stainless Steel with Dull Matt finish (GMP Model)
- High density glass wool insulation between walls to Prevent heat dissipation.
- A fully insulated door with sturdy S. S. hinges, S. S. Latch Handle lock and gasket which acts as a perfect sealant.
- Heating elements are made of high grade Nichrome wire and placed at the bottom, of the unit.
- **Temperature Range** : 5 °C above ambient to 250 °C.
- **Accuracy** : +/- 1.0 °C
- Air Ventilation is provided on the Top / Sides of the unit to remove heat gases and fumes
- Shelves are made of SS Rod.
- Operates on 230 Volts AC Single phase 50 Hz.

OPTIONAL ACCESSORIES :

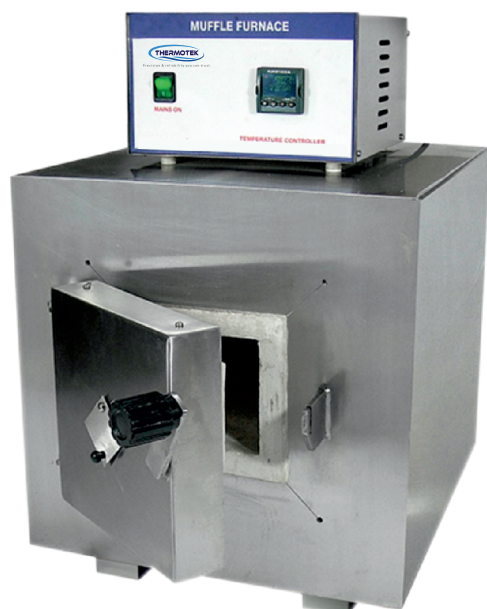
- The Control Unit Comprised of PLC Based System with Touch-Screen HMI / Dual Display Microprocessor based PID Temp. Controllers with PT – 100 sensor.
- Forced Air Circulation System with motorized Blower Arrangement
- Electronic Digital Timer Range from 0 to 999 Minutes.
- S.S. Rod Shelves .
- PC / Printer Interface.
- 21 CFR part 11 compliant software.

ORDERING INFORMATION FOR STD / GMP MODELS:

CAT. NO.		INNER CHAMBER SIZE IN INCH	INNER CHAMBER SIZE IN CMS	SHELVES (S S)
HAO/MS 002	HAO/SS 002	14 X 14 X 14	35 X 35 X35	2
HAO/MS 003	HAO/SS 003	18 X 18 X 18	45 X 45 X 45	2
HAO/MS 004	HAO/SS 004	18 X 18 X 24	45 X 45 X 60	3
HAO/MS 005	HAO/SS 005	24 X 24 X 24	60 X 60 X 60	3
HAO/MS 006	HAO/SS 006	24 X 24 X 36	60 X 60 X 90	3

HSN CODE - 8514 1000 GST % - 18 %

MUFFLE FURNACE



OPTIONAL ACCESSORIES :

- Thermal Safety fuse provided to avoid overheating
- Electronic Digital Timer Range from 0 to 999 Minutes
- PC / Printer Interface

SALIENT FEATURES & TECHNICAL SPECIFICATIONS :

- Outer Casing made of Heavy duty Mild Steel construction for durability having powder coating finish (STD Model) / Outer Casing Made from Stainless Steel – 304 grade (GMP Model)
- Internal Chamber is of Sillimanite muffle.
- Un-exposed long lasting KANTHAL A-1 heating elements.
- High quality Ceramic Wool insulation to give maximum thermal efficiency.
- Temperature controlled by Dual Display Microprocessor based PID Temp. Controller
- Maximum Temperature Range : 1100 °C.
- Working Temperature Range: 400 °C to 1050 °C with an accuracy of ± 3 °C
- Operates on 230 Volts AC Single phase 50 Hz.

ORDERING INFORMATION FOR STD / GMP MODELS:

CAT. NO.		MUFFLE SIZE (Depth x L x H) INCHES	MUFFLE SIZE (Depth x L x H) CM	RATING WATTS
MF - STD 001	MF - GMP 001	9 X 4 X 4	22 x 10 x 10	1800
MF - STD 002	MF - GMP 002	10 X 5 X 5	25 x 12 x 12	2200
MF - STD 003	MF - GMP 003	12 X 6 X 6	30 x 15 x 15	3500
MF - STD 004	MF - GMP 004	18 X 9 X 9	45 x 22 x 22	6000

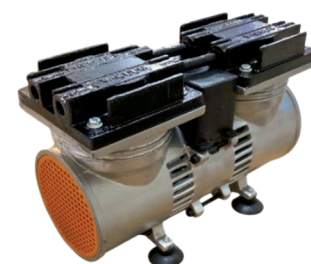
HSN CODE - 8514 1000 GST % - 18 %

DIAPHRAGM TYPE COMPRESSORS CUM VACUUM PUMPS

PORTABLE, OIL-FREE VACUUM PUMPS

SALIENT FEATURES

- No Lubrication required.
- Noiseless.
- Absolutely portable.
- Totally oil free construction.
- Practically maintenance free.
- All parts made from Special graded aluminium die cast material for light weight and good strength.
- Diaphragms are made of special 2 ply Nylon, reinforced neoprene rubber,
- Special diaphragms are available (Teflon, Viton) on request at extra cost.
- Valves made of SS 316 material.
- Built in micro suction filter.
- Extra Large bearings for trouble free and smooth running.
- Pumps available with single as well as three phase motors.
- Pumps available with flame proof motors
- Pumps available with 12/24/48 volts DC supply
- Please specify voltage while ordering.
- Pumps available with Chemical resistive parts (PP, Teflon contact parts)



APPLICATIONS AS VACUUM PUMP

- Laboratories
- Pollution control equipments
- Material handling equipments
- Desoldering station
- Medical instruments
- Dentists
- Chemical analysis
- Suction machines
- Photographic developing machines

APPLICATIONS AS COMPRESSOR

- Flame photometer
- Agitation of chemicals in electro-plating
- Agitation of film in drying
- Oil-free spray painting
- Artist air brush
- Operating small pneumatic tools
- Laminating press
- Nebuliser
- Plastic welding



VAC - 500



VAC - 0001



VAC - 0002



VAC - 0004



VAC - 0006



VAC - 0007



VAC - 0008



VAC - 0009



VAC - 0010



VAC - 0012

PORTABLE, OIL - FREE VACUUM PUMPS

CAT. NO.	Features	Max Flow LPM	Max Press. PSIG	Max. Vac. Inch Hg.	Approx. Weight kg.	Motor HP	Approx Dimensions mm
VAC - 0001	Single Stage	15	25	22	2.7	1/20	175 x 110 x 140
VAC - 0002	Single Stage & reduced dimensions	15	25	22	2.5	1/20	150 x 110 x 140
VAC - 0004	Double stage in Parallel	25	25	22	4.2	1/16	220 x 120 x 140
VAC - 0006	Single Stage	45	40	22	6.2	1/8	220 x 120 x 180
VAC - 0007	Chemical Resistive Parts	30	10	22	5.8	1/8	235 x 155 x 200
VAC - 0008	Chemical Resistive Parts	50	10	22	8.7	1/4	325 x 155 x 200
VAC - 0009	Double Stage in Series	45	60	27	9.0	1/4	290 x 120 x 180
VAC - 0010	Double Stage in Parallel	75	40	22	9.0	1/4	290 x 120 x 180
VAC - 0012	Flame Proof Motor	45	35	22	18.0	1/4 FPM	325 x 150 x 250
VAC - 500	Double Stage with VGR	15	35	27	4.1	1/16	220 x 110 x 140

HSN CODE - 8414 1000 GST % - 18 %

MINI CENTRIFUGE BRUSHLESS (Premium Model)



SPECIFICATIONS :

- High speed, high-capacity bench top, Laboratory Centrifuge Machine, Microprocessor based
- Heavy duty C.R.C. construction finished with powder coating
- Noiseless Operation.
- Delta VFD and SMPS
- Stainless Steel 304 grade rust free centrifugal bowl for extra protection and easy cleaning.
- Fitted with well-balanced brushless motor with electronic drive. Digital timer 0-99 minutes.
- 4 lines, 20 characters Jumbo LCD Display for set time, run time, set and run rpm, rcf and rotor identification.
- User friendly control panel.
- Programmable Acceleration Time: 40-200 Sec Programmable Deceleration Time: 40-200 Sec with advance Coast Feature 50 programs can be stored in memory automatic rotor identification electronic lid lock who does not allow to open lid when machine is running and opens automatically after centrifuge rotor stops.
- Dynamic brake (automatic) and imbalance detector are Optional.
- Fast spin option.
- Programmable RPM selection 500 to 20000 in interval of 100 rpm
- Last test parameter recalls and displays automatically on LCD
- Supply completed with, instruction manual, cord & plug to work on 220 volts 50Hz A.C.
Soft suspension system for smooth and noiseless operation.

Machine comes with single rotor head (Options as given below)

Cat No.	Capacity	Type of Rotor	Type of Container	Speed (RPM)	RCF 'g'
MCBL - 001	4 Strip f 8 x 0.2 ml	Angular	Plastic	13000	14100
MCBL - 002	12 x 2 ml	Angular	Plastic	20000	33600
MCBL - 003	24 x 2 ml	Angular	Plastic	16000	28672

HSN CODE - 8479 8200 GST % - 18 %

CENTRIFUGE MACHINE BRUSHLESS (Premium Model)



SPECIFICATIONS :

- High speed, high-capacity bench top, Laboratory Centrifuge Machine, Microprocessor based
- Heavy duty C.R.C. construction finished with powder coating
- Noiseless Operation.
- Delta VFD and SMPS
- Stainless Steel 304 grade rust free centrifugal bowl for extra protection and easy cleaning.
- Fitted with well-balanced brushless motor with electronic drive. Digital timer 0-99 minutes.
- 4 lines, 20 characters Jumbo LCD Display for set time, run time, set and run rpm, rcf and rotor identification.
- Rotary Encoder based Fast Parameter setting which makes machine user friendly.
- Programmable Acceleration Time: 15-200 Sec Programmable Deceleration Time: 15-200 Sec with advance Coast Feature.
- Noise Level 54 dB
- Supply completed with, instruction manual, cord & plug to work on 220-240 volts 50Hz A.C.
- Maximum Power consumption 200W
- Programmable RPM selection 500 to 16000 in interval of 100 rpm
- High speed, high-capacity bench top, Laboratory Centrifuge Machine, Microprocessor based
- Heavy duty C. R. C. construction finished with powder coating
- Noiseless Operation.
- Delta VFD and SMPS
- Stainless Steel 304 grade rust free centrifugal bowl for extra protection and easy cleaning.
- Fitted with well-balanced brushless motor with electronic drive.
- User friendly control panel.
- 50 programs can be stored in memory
- Electronic lid lock who does not allow to open lid when machine is running and opens automatically after centrifuge rotor stops.
- Dynamic brake (automatic) and imbalance detector are Optional.

- Fast spin option.
- Last test parameter recalls and displays automatically on LCD
- Soft suspension system for smooth and noiseless operation.

Machine comes with single rotor head (Options as given below)

Cat No.	Capacity	Type of Rotor	Speed (RPM)	RCF 'g'
CMBL - 004	24 x 2 ml	Angular	16000	28672
CMBL - 005	12 x 2 ml	Angular	16000	21504
CMBL - 006	6 x 50 ml	Angular	13000	18928
CMBL - 007	12 x 15 ml	Angular	13000	18928
CMBL - 008	8 x 15 ml	Angular	13000	18924
CMBL - 009	4 x 50 ml	Angular	13000	18924
CMBL - 010	4 x 100 ml	Angular	13000	18924
CMBL - 011	24 x 15 ml	Angular	6000	4838

HSN CODE - 8479 8200 GST % - 18 %

REFRIGERATED CENTRIFUGE BRUSHLESS (Premium Model)



TECHNICAL PARAMETER :

- Max. Speed : 20000 r.p.m.
- Max. RCF : 33600xg
- Timer : 0-99 min.
- Motor : Maintenance free brushless Motor
- Temp. Range : From room temperature - to Minus 20 °C
- Power : AC 220V 50 Hz 8A
- Weight : 150 kg. Approx.

SPECIFICATIONS :

- Universal Refrigerated Centrifuge Machine Floor model, all purpose.
- Heavy duty C.R.C. construction finished with powder coating.
- Stainless Steel centrifugal bowl for extra protection and easy cleaning.
- Fitted with well-balanced maintenance free brushless motor.
- Dynamic Brake with selectable deceleration profile ranges from 20 sec to 160 sec.
- Multiple acceleration. 20 sec to 160 sec.
- 4 lines, 20 characters large jumbo LCD Display for set time, balance time, set and run rpm, rcf, set temperature and present temperature.
- All temperature and rpm parameters are in one LCD display which make easier to customer enter the required parameter.
- Digital Timer 0-99 minutes.
- Digital Speed Indicator and R.C.F. Indicator.
- Safety electronic lid lock.
- **Digital temperature controller**, controls the centrifuge temperature from room temp. to 20.0 °C means shuts off the cooling compressor within accuracy of +/- 1.0 °C in standby mode Temperature.
- Accuracy when motor is also running is +/- 3.0 °C

Machine comes with single rotor head (Options as given below)

Cat No.	Capacity	Type of Rotor	Speed (RPM)	RCF 'g'
RCBL - 004	24 x 2 ml	Angular	16000	28672
RCBL - 005	12 x 2 ml	Angular	16000	21504
RCBL - 006	6 x 50 ml	Angular	13000	18928
RCBL - 007	12 x 15 ml	Angular	13000	18928
RCBL - 008	8 x 15 ml	Angular	13000	18924
RCBL - 009	4 x 50 ml	Angular	13000	18924
RCBL - 010	4 x 100 ml	Angular	13000	18924
RCBL - 011	24 x 15 ml	Angular	6000	4838

HSN CODE - 8479 8200 GST % - 18 %

DIGITAL VDRL SHAKER (Premium Model)

Microprocessor Based



FEATURES :

- Adjustable speed control provides gentle to vigorous agitation.
- Microprocessor control with simultaneous display of time and speed
- Brushless DC motor ensures maintenance-free, reliable and quiet operation Audio alarm signals program completion

SPECIFICATIONS :

• Model No.	DVS - 304
• Mounting Type	BenchTop
• Controller	Microprocessor
• Type Of Motor	Brushless
• Stepless Frequency Speed Control	Yes
• Shaking Speed Range	1-180 RPM (1 to 300 RPM Optional)
• Shaking Amplitude	20mm
• Compact Counter Balance Drive Mechanism	Yes
• Shaking Motion	Orbital
• Platform Size in mm	304mm x 304mm
• Display Type	LCD
• Auto restart after power failure	Yes
• Timer Range	999h 59 min digital timer
• Operation	Continuous / Timer based
• Display	16 x 2 Numeric LCD
• Max Load Capacity	2 Kg
• Power Consumption	20 W
• Power Supply	220 VAC- 50Hz
• Weight	10 Kg

HSN CODE - 8479 8200 GST % - 18 %

ORBITAL SHAKER (Premium Model)



FEATURES :

- Adjustable speed control provides gentle to vigorous agitation
- Microprocessor control with simultaneous display of time and speed
- Brushless DC motor ensures maintenance-free, reliable and quiet operation
- Audio alarm signals program completion
- ABS (non broken type food grade) make lotus clamps

SPECIFICATIONS :

- Shaking Motion: Orbital
- Shaking orbit: 20 mm
- Shaking Speed Range: 01 - 300 RPM
- Timer Range: 99 h 59 min digital timer
- Operation: Continuous / Timer based
- Display: 16 x 2 Numeric LCD
- Overall dimension: W - 410 x L - 530 x H - 200 with Lotus Clamp
- Power Consumption: 10 W
- Power Supply: 220 VAC - 50 Hz

CAT. NO.	Tray Size in mm	Digital Speed Indiction	Digital Timer
DOS - 304	304 x 304	Yes	Yes
DOS - 457	457 x 457	Yes	Yes
DOS - 635	635 x 635	Yes	Yes

Note : SS Lotus clamps for holding the flasks in the shakers to be order separately.

CAT. NO.	Flask Capacity (ml)	Tray size 305 X 305 mm	Tray size 456 X 456 mm	Tray size 635 X 635 mm
CLAMP - 501	50	25	25	36
CLAMP - 502	100	25	25	36
CLAMP - 503	250	9	16	25
CLAMP - 504	500	9	16	25
CLAMP - 505	1000	5	9	16

HSN CODE - 8479 8200 GST % - 18 %

BOD INCUBATOR SHAKERS (Premium Model)



SPECIFICATIONS :

It is widely used in germ culture, ferment, hybridization, and research of biochemical reaction, enzyme and cellular tissue and all those require high temperature and oscillation frequency.

PRODUCT FEATURES :

- Epoxy powder coated MS housing.
- Inner stainless steel chamber - 304.
- Toughened glass observation window
- Intelligent micro processing controller with Audio visual alarm.
- Large LCD screen displays the setting parameters and the measured parameters.
- 7 inch full color touch display **(Optional)**
- The operating parameter can be locked by password facility.
- Timer up to 999 hours and 59 minutes;
- Brushless DC motor design, wide speed range, constant torque, constant rotation speed, no carbon brush, maintenance- free.
- Good quality bearing, long service life and low noise.
- Over temperature alarm function, the power supply can be cut off automatically when temperature is out of control.
- Power-off recovery function, the equipment can restore working automatically according to the original setting program when the external power is recovered after a sudden cut off.
- The acceleration control circuit starts slowly and accelerates smoothly to ensure the safety of the sample.
- Equipped with individual temperature limit switch, door switch and door lock.
- Puff insulation and DGU glass for best performance.

TECHNICAL PARAMETERS :

- Volume [L]: 125/200/375
- Temp. Range [°C]: 5 °C to 60 °C , Accuracy: ± 1.0 °C.
- Temp. Uniformity at 37°C [°C]: ± 1.0 °C
- Rotation Rate [rpm]: 1~300
- Vibration Amplitude [mm]: Ø25
- Timer Range [h]: 0~999
- Power Supply [V, Hz]: 220, 50/60

CAT. NO.	Capacity Ltrs.	Temperature Range	Internal Dimensions W x D x H (mm)	External Dimensions W x D x H (mm)
CIS - STD - 001	125	5 °C to 60 °C	455 x 455 x 600	625 x 735 x 1310
CIS - STD - 002	200	5 °C to 60 °C	650 x 650 x 1300	500 x 500 x 500
CIS - STD - 003	375	5 °C to 60 °C	650 x 650 x 1300	500 x 500 x 500

Standard Configuration : 9x250/500 or 4x1000 ml.

CAT. NO.	Flask Capacity (ml)	No. of Clamps required for tray size 450 x 590 mm	No. of Clamps required for tray size 595 x 595 mm	No. of Clamps required for tray size 715 x 715 mm
CLAMP - 503	250	9	16	25
CLAMP - 504	500	4	9	16
CLAMP - 505	1000	4	9	16

HSN CODE - 8419 8990 GST % - 18 %

TOUCH SCREEN - HEATING BLOCK / DRY BATH (Premium Model)



Our company has gained immense success by distributing top notch quality dry bath incubator. Common applications of this highly reliable product include assay preparation, tissue culture, genetics & proteomics, biochemistry, molecular biology etc. In addition to this, the said offering is basically used for heating various kinds of samples. Our product can be found in microbiology, environmental and clinical laboratories. Dry bath incubator is employed for boiling, warming and thawing sample. It is also known as dry block heaters. This device is processed by using top grade aluminium alloy. The offered product has a compact structure which possesses robustness.

SPECIFICATIONS :

- Temperature range ambient to 100 ° C
- PLC based HMI display with temperature Controller using PT 100 sensor.
- Temperature Accuracy ± 0.2 ° C.
- Body Material - MS Painted with Epoxy Powder.
- Electrically operated on 230V AC single phase power.
- **Optional accessories - Thermal printer**

CAT No.	DESCRIPTION
HB - 006	Aluminium BLOCK Size : of 150 x 150 x 50 mm size for accommodating 100 tubes of 10 mm Dia, specially designed for LAL Test.

STABILITY/ HUMIDITY CHAMBER



The **STABILITY CHAMBER** maintains adequate temperature and humidity and checks the behavior of the product under different conditions. The chamber supports products to see their response to different climatic conditions and helps scientists to determine the causes for change under altering environmental exposure.

Parameter	Temperature	Humidity
Range	10°C to 60°C	40%RH to 90%RH
Accuracy	±0.2°C	± 2.0 %

STANDARD EQUIPMENT FEATURES

- **Standard Models**
- Inside S.S. 304 with mirror polish & outside mild steel powder coated.
- **GMP Models**
- Inside S.S. 304 with mirror polish & outside stainless steel 304 with the dull buff finish.
- Inner Full Viewing glass door and Outer door insulated with lock and key arrangement. Inner and outer are sealed by silicon sponge rubber gasket.
- Double walled PUF insulation 70 MM modular panel.
- **PID based controller.**
- High quality temperature and humidity sensors.
- Compressor hermetically sealed compressor charged with CFC free refrigerant, complete with air cooled condenser.
- Boiler Tank is made of Stainless Steel.
- Long lasting (S.S) tubular fin type heating elements SS.
- Forced air circulation for uniform temperature & humidity.
- Perforated/Mesh type stainless steel (SS 304).
- PU Castor wheel for easy move ability.
- Interior illumination for working area.
- **Safety devices** : Low temperature cut-off settable thermostats
- Audio/Visual alarms for deviations.
- Mains supply 230V AC, 50Hz Single phase.
- IQ, OQ, PQ & SOP Along with Traceability.

ORDERING INFORMATION FOR STD / GMP MODELS:

CAT. NO.		Capacity Ltrs.	Cu Ft.	Internal Dimensions W x D x H (cm)	No of Trays
SC/MS 0090	SC/SS 0090	90	3	45 x 45 x 45	2
SC/MS 0120	SC/SS 0120	120	4	45 x 45 x 60	2
SC/MS 0150	SC/SS 0150	150	5	50 x 50 x 60	3
SC/MS 0175	SC/SS 0175	175	6	50 x 50 x 70	3
SC/MS 0200	SC/SS 0200	200	7	60 x 60 x 60	3
SC/MS 0227	SC/SS 0227	227	8	60 x 63 x 60	3
SC/MS 0270	SC/SS 0270	270	9	55 x 55 x 90	3
SC/MS 0324	SC/SS 0324	324	12	60 x 60 x 90	3
SC/MS 0400	SC/SS 0400	400	14	60 x 63 x 106	4
SC/MS 0450	SC/SS 0450	450	16	60 x 60 x 125	4
SC/MS 0500	SC/SS 0500	500	18	60 x 63 x 132	4
SC/MS 0550	SC/SS 0550	550	20	65 x 65 x 130	4
SC/MS 0600	SC/SS 0600	600	28	80 x 80 x 95	4
SC/MS 0800	SC/SS 0800	800	24	80 x 80 x 125	4
SC/MS 1000	SC/SS 1000	1000	35	80 x 80 x 157	5

SAFETY FEATURES:

- Redundant high temperature safety system with Alarm & safety Thermostat automatically cuts - off power to heaters if temperature exceeds 70 °C
- Inbuilt Overload protection relay for compressor
- Compressor ON delay timer, to safe guard the compressor.

OPTIONAL ACCESSORIES:

- Stand by refrigeration system (Except for 90 Liters.).
- Electronic Digital Timer Range from 0 to 999 Minutes
- PC / Printer Interface.
- Scanner with 4 point temperature and sensors and printer interface.
- Servo Controlled Voltage Stabilizer.
- 21 CFR part 11 compliant software.

HSN Code – 8419 8960 GST % - 18 %

PLANT GROWTH CHAMBER



FOLLOWING STEPS TO BE FOLLOWED FOR MAINTAINING THE ADEQUATE TEMPERATURE RESULTS.

FOR "PLANT GROWTH CHAMBER"

1. Operating room temperature (ambient) conditions for your **PLANT GROWTH CHAMBER** should be **between 18 °C to 25 °C**
2. **Temperature Uniformity:**
After setting the chamber temperature, wait at least 1 hour for the chamber temperature to stabilize to ambient conditions. To achieve maximum temperature stability.

TECHNICAL SPECIFICATION :

Name of the Equipment	Plant Growth Chamber
Display	Digital PID Temperature controller
Temperature range	10 ° C to 60 ° C WITH LIGHT ON 5 ° C to 60 ° C WITH LIGHT OFF
Temperature accuracy	± 0.2 ° C
Humidity range	40 % to 98 %
Humidity accuracy	± 2 ° C
Illumination (LUX)	Up to 20000
Construction	The inner chamber is made of stainless steel 304 with a Mirror finish, and the outer chamber is made of mild steel powder coated. The double-wall construction has PUF insulation.
Advantage	Energy saving low power and water consumptions.
Air Circulation	Motor and blower arrangement to have uniformity of under loaded condition.
Alarm	Temperature deviation alarm Humidity deviation alarm water level alarm compressor failure alarm steam generator failure alarm door open alarm
Trays	<i>Stainless Steel plant growth trays</i>
Florescent Light	<i>Cool white florescent light</i>

Insulation	75mm Thick CFC free PUF Insulation.
Heating System	U shaped S.S. Nichrome wire air heaters.
Illumination	Illumination 50000 Lux
Tray Distance	Light to trays distances 1 feet each tray
Observation Door	Inside see through glass door
Refrigeration System	Hermetically Sealed CFC Free Emerson Compressor with R 134a refrigerant having state of art by pass system for continues run of compressor. Make Emerson
Humidity System	Steam injection system with water level arrangement with insulation to save heat energy.
Power	Works on 230 V AC Single phase 50Hz

ORDERING INFORMATION FOR STD / GMP MODELS:

CAT. NO. & MODEL		Capacity Ltrs	Internal Dimension WxDxH (cm)	External Dimension WxDxH (cm)	Inner / Outer Body Material	No. of Tray
PGC/MS STD - 100	PGC/MS GMP - 100	100	43x40x60	58x72x129	SS 304/MS	2
PGC/MS STD - 200	PGC/MS GMP - 200	200	50x40x100	65x72x169	SS 304/MS	3
PGC/MS STD - 300	PGC/MS GMP - 300	300	56x45x120	71x77x189	SS 304/MS	4
PGC/MS STD - 400	PGC/MS GMP - 400	400	63x53x120	78x85x189	SS 304/MS	4
PGC/MS STD - 600	PGC/MS GMP - 600	600	72x65x130	87x97x192	SS 304/MS	4
PGC/MS STD - 800	PGC/MS GMP - 800	800	112x60x120	137x92x192	SS 304/MS	8
PGC/MS STD - 1000	PGC/MS GMP - 1000	1000	115x67x130	140x99x192	SS 304/MS	8

AUTOCLAVE STEAM STERILIZER

- Fully Automatic Autoclave GMP Compliant Series Lab Type (Available) Semi Automatic, Standard



- Full Automatic Laboratory Autoclave Radial Locking System & Paddle Free System



Application

Micro Biology Labs, Pharma / Biotech R & D Centres & Drug Discovery etc.

Options

IQ/OQ/PQ Documentation. CCR - Circular Chart Recorder. DPQ - Digitak Pressure Display. Di4-4 Channel Data Logger. SCR - Strip Chart Recorder.

Features

- Unique Paddle Operated Design
- Lower Working Height
- Microprocessor Based Precise Controlling
- User Suitable Multi Program Cycle
- Automatic Purging, Venting

SPECIFICATIONS :

Model	AC-35-FA	AC-52-FA	AC-95-FA	AC-175-FA
Capacity	35 ltrs	52 ltrs	95 ltrs	175 ltrs
Chamber Dimension	300 x 500 mm	350 x 550 mm	450 x 700mm	550 x 750 mm
Construction	SS 304	SS 304	SS 304	SS 304
Power Consumption	3 Kw	3 Kw	4 Kw	6 Kw
Operating Pressure	15 PSI	15 PSI	15 PSI	15 PSI
Operating Temperature	121°C	121°C	121°C	121°C
Sterilization Time	0-99 mins.	0-99 mins.	0-99 mins.	0-99 mins.
Voltage	230 V	230 V	230 V	230 V
Control	Digital	Digital	Digital	Digital
Shipping Size (mm)	780x570x1035	785x630x1055	1050x875x1425	1125x975x1475

PORTABLE AUTOCLAVE SEMI AUTOMATIC

SPECIFICATIONS :



- Operating System: semi-automatic Table Top Autoclave
- MOC : Complete Stainless Steel
- Inner body heavy gauge SS304
- Outer shell SS304
- Temperature Control: Temperature is controlled with the help of Digital PID Controller in conjunction with PT-100 RTD Temperature sensor;
- Fitted with pressure gauge, safety valve and steam release valve
- Electrically operated on 230V AC/ 50Hz.

ORDERING INFORMATION :

Cat. No.	Size of Working Chamber (inch)	Size of Working Chamber (cm)	Volume Ltrs	Rating (KW)
AC - 21 - SA	12 x ht. 12	30 dia x 30 ht	21	2.0

UV CABINET



The UV Cabinet is suitable for inspection thin-layer chromatogram and other object in a undarkened room. The front is closed with a magnetic lock, which can be pushed open. A glass filter in the viewing window protects the eyes against reflected short-wave UV light. Great care has been taken to ensure the correct distances between UV lamp, object and the observer's eye in the interest of good illumination and untroubled viewing.

FEATURES AND BENEFITS

- Inspection of thin-layer chromatograms and other objects in an undarkened room.
- A glass filter in the viewing window protects the eyes against reflected short-wave UV light.
- Base measures 370 x 300 mm inside.
- For Visualization of test objectives under Tubes having long wave length (365nm), short wave length (254nm) as desired.
- Use with ultraviolet lamp for Observing fluorescent effect chromatographs etc.
- Supplied with 3 tubes to work on 230 volts A.C.only.
- Provides an enclosed viewing space that eliminates external light interference.
- Control switches mounted on top of the unit.
- This self-contained unit is designed for easy viewing and making of chromatographs.
- Minimum space requirements through reduced footprint

TECHNICAL SPECIFICATION

Cat. No	Outer Body	MS Powder Coated
UV - 001	Size	15 x 12 x 10 (H.) Inch
	Light Source	3 Nos A) Short Wave - 254 NM - 1 NO. B) Long Wave - 365 NM C) Visible Light
	Tube Size	12" Long
	Working	Individual ON / OFF Switch provided for each light on front Panel



Precision & reliability you can trust

SR TEK INSTRUMENTS

(Manufacturers and suppliers of Laboratory Instruments)

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