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Auto clamp Vertical



Electrically operated, standard vertical pattern boiler constructed of heavy stainless steel outer is of heavy gauge mild steel painted in grey hammer tone supplied with pedal lifting arrangement.

Lid is also made of heavy stainless steel and accurately machined to form a steam tight joint with stainless steel ring to also machined accurately

for this purpose.

The instrument is supplied with Aluminum perforated work basket. Electrically heated by means of superior quality immersion heater having automatic ejection device. Pressure gauge, steam release cock and safety valve are fitted on top of the lid. Operating pressure 15lbs per sq. inch. The instrument is supplied with plug and cord ready for use on 220/230V.

Model	Inner Sizes Dia. X Height	Vol. Ltr.	Rating
OAC-1	250X450mm	22	1.5KW
OAC-2	300X500mm	35	2.0KW
OAC-3	350X550mm	52	3.0KW
OAC-4	450X600mm	95	4.0KW
OAC-5	550X750mm	178	6.0KW

Optional

- Digital temperature controller (Instead of energy Regulator)
- Digital Timer
- Pressure cut off system
- Water level cut off device
- Water level glass indicator

Flash Auto clamp



It is a table top front loading autoclave, double walled unit, outer MS powder coated inner 304 grade Stainless Steel. All joints are argon welded. Door is made up of heavy gauge S S sheet and using high quality silicon gasket, used with ISI marked immersion heater 1.5 KW in 230/240V.

Features

- Fully automatic microprocessor control
- Digital timer both wet and dry cycle
- Alarm after the total command is completed
- Automatic water drainage system
- Temp range 121°C – 134°C
- Unit is supplied with 2 nos. SS trays with tray stand

Model	Dia X Depth	Volume
OFAC	230 X 410mm	17 ltr.

Portable Auto clamp



Single wall electrically operated, constructed with Stainless Steel 304 grade.

Model	Dia X Depth	K W	Volume
OPAC	300 X 300mm	1.5	20 ltr.

Biological Safety Cabinets



We undertake the fabrication of Bio Safety Cabinets of Class II. It is an integral factory assembled system permitting total disinfection. The cabinets are made with good quality plywood, outer surface are covered with laminated sheet. This includes standard accessories such as pressure manometer, pre filters, HEPA filters blowers assembly, one UV germicidal

light for the work area, one cock for gas, stainless steel perforated table top. Separate motor with blower assembly for air supply. And for exhaust. 1.5 mtr. Length PVC pipe of 4" dia. will be supplied. In addition to normal features of vertical laminar flow it is provided with following unique.

Features

- front door provided with UV stabilized polycarbonate sheet in foldable manner
- filtered exhaust protects ambient environment avoids build up fumes and color.
- supplementary air barrier- prevents of contamination through make up air
- built in UV germicidal light facilities sterilization of working area

Model	Working space
OBSC-1	3' X 2' X 2'
OBSC-2	4' X 2' X 2'
OBSC-3	6' X 2' X 2'

Optional

- Virus burn out unit
- Gas burner

Blood Bank Refrigerator



Blood Bank Refrigerator is a versatile storage cabinet designed to meet various requirements in the blood bank and such other blood related products. The most important factor is to provide uniform, accurate and steady temp. in the cabinet. The blood bank refrigerator is set to give a fixed temp. of 4°C (can set between 2°C and 9°C) This unit give an accuracy of \pm

0.5°C An audio visual alarm is incorporated in the temp. controller in the event of temp. fluctuation of high and low. A power failure alarm also fitted in the system with battery back up. Suitable to work on 220 V. AC supply.

Double walled construction, outer body made with galvanized steel sheet, duly powder coated inner chamber made with 304 grade quality SS sheet, PUF insulation is provided to reduce /minimize the temp. loss. Outer door is provided with magnetic beading, lock, key and handle, inner drawers with clear plexi glass door. The entire unit is mounted on lockable caster wheels for easy moving. Equipped with CFC free compressor and refrigerant.

Model	Storage Capacity	Internal Dimension L X W X H in c m	Shelves
OBRR-1	60 Bag	45 X 40 X 80	4
OBRR-2	144 Bag	52 X 49 X 100	4
OBRR-3	244 Bag	60 X 52 X 120	4
OBRR-4	288 Bag	78 X 68 X 120	4

Optional

Temp. recorder with various specification can be supplied on extra cost

- 7 day circular chart recorder in ink
- 7 day circular chart recorder ink less
- RS 232 interface (without printer)
- Battery back up for digital temp. controller

Blood collection monitor / Donor couch can be supplied on request at extra cost

B.O.D. Incubator (Biochemical Oxygen Demand)



Temperature Ranges from 5°C. to 60°C with an accuracy of $\pm 5^\circ$ C. Double walled- inside Anodized aluminum/Stainless steel, and outside of mild steel beautifully powder coated with electronic digital temperature controller cum indicator and air circulating fan – transparent door inside – self supported and adjustable perforated racks-magnetic

gasket outer door. Door operated illumination lamp. To work on 220/230v A.C.

Model	Size	Capacity
OBOD-1	610X455X410mm	115 ltr
OBOD-2	830x505x415mm	175 ltr
OBOD-3	875x570x550mm	285 ltr
OBOD-4	900x650x580mm	340 ltr
OBOD-5	900x700x650mm	410 ltr

Optional

- Interior illumination with fluorescent tube of 60 cm length placed vertically against the back wall. Separate on/off switches are provided for tubes. Minimum temperature when all tubes are on will be 10°C (approx.)
- Do – with the 2 Ultra Violet lamps instead of Fluorescent tubes
- Cyclic timer 0 to 24 hrs. for regulating cyclic illumination conditions
- L shaped thermometer for the above
- Circular chart recorder for recording test condition.
- Automatic Voltage Stabilizer 3 KVA

Bunsen Burner



Electrically operated, SS body and glass wool insulation fitted with 300W heating element. Temp. up 700°C approx.

Model

Size

OBB-1	Without energy regulator
OBB-2	With energy regulator

Cyclo Mixer/Vortex Mixer



This vortex mixer is used for thorough mixing of precipitates in test tubes, small bottles or flasks. Provided switch for on touch working. A speed regulator switch also provided to control the speed. Suitable to work on 220/230v A.C.

Model

RPM

OVM-1	1200
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Deep Freezer-Horizontal (Chest Type)



These Freezers are specially engineered superior insulation and specially designed Refrigeration System Double walled with exterior of sheet metal duly powder coated and interior of stainless steel having P U F insulation to minimize heat loss. Capillary controlled balanced hermetically sealed Refrigeration system and microprocessor based

digital controller ensure most economical /trouble free and exceptionally quiet performance.

Model	Volume	Inside Dimension	Temperature
OFH-1	110 ltr	550X370X680mm	-20°C
OFH-2	110 ltr	550X370X680mm	-35°C
OFH-4	170 ltr	800X370X680mm	-20°C
OFH-5	170 ltr	800X370X680mm	-35°C
OFH-7	285 ltr	1200X370X680mm	-20°C
OFH-8	285 ltr	1200X370X680mm	-35°C

Optional

- a. Automatic Voltage Stabilizer for the above 3K V A

Deep Freezer-Vertical



These Freezers are specially engineered superior insulation and specially designed Refrigeration System Double walled with exterior of sheet metal duly powder coated and interior of stainless steel having P U F insulation to minimize heat loss. Capillary controlled balanced hermetically sealed Refrigeration system and microprocessor based

free and exceptionally quiet performance.

Model	Volume	Inside Dimension	Temperature
OFV-1	110 ltr	425X400X680mm	-20°C
OFV-2	110 ltr	425X400X680mm	-35°C
OFV-4	170 ltr	500X425X845mm	-20°C
OFV-5	170 ltr	500X425X845mm	-35°C
OFV-7	285 ltr	580X500X990mm	-20°C
OFV-8	285 ltr	580X500X990mm	-35°C

Optional

- a. Automatic Voltage Stabilizer for the above 3K V A

Deep Freezer-Horizontal (chest type) up to -80°C(in ac room)



These Freezers are specially engineered superior insulation and specially designed Refrigeration System Double walled with exterior of sheet metal duly powder coated and interior of stainless steel having P U F insulation to minimize heat loss. Capillary controlled balanced hermetically sealed Refrigeration system and microprocessor based

digital controller ensure most economical /trouble free and exceptionally quiet performance, also provided by castor wheels. Temp. is controlled by micro process based temperature cum indicator with single compartment upto -80°C in AC room having an accuracy of $\pm 3^{\circ}\text{C}$

Model	Volume	Inside Dimension
OFH-U1	110 ltr	425X400X680mm
OFH-U2	170 ltr	500X425X845mm
OFH-U3	285 ltr	580X500X990mm

Deep Freezer- Vertical (Upright) UP TO -80°C(In AC room)



These Freezers are specially engineered superior insulation and specially designed Refrigeration System Double walled with exterior of sheet metal duly powder coated and interior of stainless steel having P U F insulation to minimize heat loss. Capillary controlled balanced hermetically sealed Refrigeration system and microprocessor based

digital controller ensure most economical /trouble free and exceptionally quiet performance, also provided by castor wheels. Temp. is controlled by micro process based temperature cum indicator with single compartment upto -80°C in AC room having an accuracy of $\pm 3^{\circ}\text{C}$.

Model	Volume	Inside Dimension
OFV-U1	110 ltr	425X400X680mm
OFV-U2	170 ltr	500X425X845mm
OFV-U3	285 ltr	580X500X990mm

De Humidifier-Environmental Controller



This refrigerated unit is suitable for dehumidification of packaging cabin/rooms in food and chemical industry. The room or cabin should be well closed and occupants should be minimum, the achievable humidity approx.40%.

Model	Capacity	Work space volume	No. of Occupants
ODH-1	1 ton	70 (m3) in room	5
ODH-2	1.5 ton	100(m3) in room	7

Optional

- a. Automatic Voltage Stabilizer 3 KVA

Fermentor



Fermenter is made of triple wall, inner tank made of 3mm thick stainless steel plate, insulated with 20 SWG SS sheet lid and flange will be made of 6mm SS plate and bolted with neoprene gasket.

Stirring Systems

The agitation will be carried out by SS shaft with propeller type SS blade fitted from the bottom. The shaft is fixed through stuffing box with gland packing to avoid leaking while running. Stirrer is connected with pulley and suitable motor, control panel will be provided. Entire Fermenter vessel will be mounted on MS channel structure.

The following provision will be made in the Fermenter lid and body: Steam inlet valve, Media inlet valve, pH reference collection valve, safety valve, pressure gauge, dial thermometer, viewing window with glass and the other side with illumination. Air inlet valve with perforated tube up to bottom of vessel and a drainage valve at the bottom of vessel.

Accessories

Steam generator – Suitable to Fermenter capacity

Steam generator is double walled, inner tank made of 5mm thick MS plate and lid will be made of 8mm MS plate with neoprene gasket.

The following provision will be made at the lid: Steam releasing valve, steam cock, safety valve, pressure gauge and pressure control switch.

The following provision will be made in the body of the generator: water inlet, outlet, water level indicator and industrial heater. Inner tank is insulated with glass wool and covered with MS sheet and painted. Supported with MS channel structure.

Air Compressor

With a capacity of 45 liter, max. pressure 10kg/cm² and regular working pressure 7kg/cm². The compressor shall be suitable to work on 230/VAC single phase. The compressor is to be run by suitable motor provided with starter.

Air filter/De-Humidifier

Made of SS pipe filled with silica gel provisions will be made of air inlet water outlet at the bottom. Approximate size will be 4" dia X 15" length.

Air Filter Primary :

Construction as dehumidifier but in the place of glass wool, cotton will be placed.

Air Filter Secondary :

Construction same as primary air filters but in the place of glass wool, cotton will be placed.

Model	Capacity of fermenter
OFM-1	25 liters
OFM-2	50 liters
OFM-3	100 liters
OFM-4	200 liters
OFM-5	300 liters

Floculator – (Jar Test Apparatus)



Continuous duty DC motor connected with gear chain arrangement to achieve uniform speed in all spindles SS stirring shaft with adjustable height, illuminated fluorescent diffused light. Supplied with out glass beaker. Stirrer can be controllable from 30 to 250 RPM.

Model	HP	RPM	No. of Spindles
OFR-1	1/20HP	100	4
OFR-2	1/8HP	300	6

Fume Cupboard (Fume Exhaust)



Complete FRP Construction:

A desk top model, provide clean air and protect personnel from chemical fumes.

Model	Working Space
OFH-1P	60LX60Bcm

Fume Cupboard



Thick wooden board fabricated, outer surface is finished with laminated mica and inner surface is FRP coated, designed so as to throw all toxic /harmful vapors, thus protecting costly instruments and the persons working the lab. The working table is covered with acid/alkali resistant tiles/FRP or granite slab 20mm thick provided with swan type water tap and v

FRP sink, provided with gas cock, power points and fluorescent tube light. The exhaust system consist of a dynamically balanced FRP coated impeller coupled with heavy duty motor. The front door moves vertically up and down with concealed counter balanced weight arrangement, workable on single phase 220/230V or three phase 415V AC 50HZ supply. (Please specify the power supply availability for exhaust motor 230V or 415V). Standard ducting with 1.5mtrs. 4" PVC pipe provided to the exhaust ducting. For extra length PVC duct per meter RS. 400.00 per meter.

Model	Working Space	External Dimension
OFC-1	90X60X60cm	96X75X240cm
OFC-2	120X60X60cm	126X75X240cm
OFC-3	150X60X60cm	155X75X240cm
OFC-4	180X60X60cm	185X75X240cm

Table Top

Model	Working Space	External Dimension
OFC-1	90X60X60cm	96X75X120cm
OFC-2	120X60X60cm	126X75X120cm
OFC-3	150X60X60cm	155X75X120cm
OFC-4	180X60X60cm	185X75X120cm

Gel Rocker



Gel rocker is specially optimized with the ideal rocking speed and tilt angle for bolt washing gel staining and detaining applications, speed 0-60°scill/min. fitted with digital timer 0-99 min. with controllable speed.

Model	Platform Size
OGR-1	28x28cm

Heating Mantles



Mantle is made from fiber yarn and good quality nichrome/kanthal wire element. Mounted in a powder coated MS body with glass wool insulation. Fitted with energy regulator. Temp range 100°C.

Model	Capacity
OHM-1	250ml
OHM-2	500ml
OHM-3	1000ml
OHM-4	2000ml
OHM-5	5000ml
OHM-6	10000ml

Hot Air Oven (Bottom Heated)



Temperature from 50°C. up to 250°C Thermostatic control with an accuracy of $\pm 1^\circ\text{C}$. Double walled inside of Aluminum / Stainless Steel and outer made of MS sheet duly powder coated. To work on 220/230v A.C. Supplied with or without air circulating fan but without thermometer.

Aluminum Chamber / Stainless Steel Chamber

Model	Size	No. of Trays
OOA-1	300X300X300mm	1
OOA-2	355X355X355mm	2
OOA-3	455X455X455mm	2
OOA-4	455X455X605mm	3
OOA-5	605X605X605mm	3
OOA-6	605X605X910mm	3
OOA-7	605X455X910mm	3

Optional

Electronic digital Temperature Controller Cum Indicator

Hot Air Oven –Mettmert Model (Elements on all 3 Sides)



Temperature from $+50^\circ\text{C}$. to 250°C Thermostatic control with a sensitivity of 1°C . Heating elements are placed in the ribs at the bottom and sides. Double walled- outside made of mild steel duly powder coated- with perforated adjustable shelves, thermostat, two indicators and on/off switch work on 220/230v A.C. inside chamber of anodized Aluminum/Stainless steel - Supplied with or without air circulating fan but without thermometer.

Aluminum Chamber / Stainless Steel Chamber

Model	Size	No. of Trays
OOMA-1	300X300X300mm	1
OOMA-2	355X355X355mm	2
OOMA-3	455X455X455mm	2
OOMA-4	455X455X605mm	3
OOMA-5	605X605X605mm	3
OOMA-6	605X605X910mm	3
OOMA-7	605X455X910mm	3

Optional

Electronic Digital Temp. Controller cum Indicator

Hot Plate Round (Electric)



Circular with mild steel or SS top with 3 heat control switch and pilot lamp complete with plug and cord for operation on 230 v single phase 50 c/s AC mains.

Model	Size(dia)	Rating (KW)
OHP-1	8"	1.0
OHP-2	8"	1.5
OHP-3	12"	1.5
OHP-4	12"	2.0

Hot Plate Rectangular (With Energy Regulator)



The working space is made of mild steel plate, heating is accomplished by Nichrome heaters provided immediately beneath the working surface. One no. 3 heat control switch will be provided to work the heater either at low or high supplied complete with plug and cord for operation on 230 Volts 50 c/s single phase Mains.

Model	Size(dia)	Rating (KW)
OHPR-1	10"x12"	1.2
OHPR-2	10"x16"	1.5
OHPR-3	12"x18"	2.0
OHPR-4	18"x24"	3.0

Humidity Cabinet (Environmental Test Chamber)



Double walled inside of anodized Aluminum/Stainless steel outside of mild steel powder coated with full view inner glass door. These chambers are designed for environmental testing of production samples where both temp. and humidity are to be controlled. Temperature range – ambient temperature (room temp.) 5°C to 60°C, -temperature controlled by

electronic digital humidity controller cum indicator with an accuracy of $\pm 1^\circ\text{C}$.

The humidity is controlled by electronic digital temperature controller cum indicator from atmospheric humidity to 95% with a sensitivity of +3% without hygrometer. to work on 220/230VAC.

Model	Size of Inner chamber	Capacity in Ltr.
OHC-1	418X380X580mm	90
OHC-2	418X440X825mm	150
OHC-3	570x505x955mm	275
OHC-4	620x570x1050mm	350

- Micro processor controlled programmable Temperature and Humidity controller
- With RS 232 interface to take printout in regular interval with out printer
- Chamber illumination with the help of Fluorescent lamps
- Sterilization of work area with the help of 2 U.V Lamps
- Cyclic Timer 0-24 hours for regulating of U.V lamps.

Humidity Oven



Double walled construction outer body made of MS, duly powder coated and inner SS/Alu. With front door having a glass window to inspect the samples placed inside the chamber. Temp. range from ambient +5°C to 60°C with an accuracy of $\pm 1^\circ\text{C}$. Temp. humidity controlled by digital temp. controller cum indicator LED(dual display) from 40% to 90% with sensitivity of $\pm 3\%$ without hygrometer power supply 220/230V.

Model	Volume	Inner Dimension	Inner (Alu.)
OHO-1	90 ltr.	418X380X580mm	3 Cft
OHO-2	150 ltr.	418X440X825mm	6 Cft
OHO-3	275 ltr.	570X505X955mm	10 Cft
OHO-4	350 ltr.	620X570X1050mm	12 Cft

Optional

- Micro processor controlled programmable Temperature and Humidity controller.
- With RS 232 interface to take printout in regular interval with out printer .
- Chamber illumination with the help of Fluorescent lamps .
- Sterilization of work area with the help of 2 U.V Lamps.
- Cyclic Timer 0-24 hours for regulating of U.V lamps.
- Automatic Voltage Stabilizer

Hybridization Incubator



Double walled construction, outer body made of MS duly powder coated, inner chamber made of SS sheet, 304 grade, glass wool insulation, temp. range ambient +5°C to 60°C. Temp. is controlled with microprocessor based digital temp. controller cum indicator. Provided SS tray with suitable support to hold rack or flasks on it. The up and down oscillation can be controlled by an electronic speed regulator, max. 90 stroke/ minute. An air

circulation fan and one CFL also provided inside the chamber. To create humidity a water bowl can be kept in the chamber. Front door is provided with full view glass door.

Model	Inner Dimension	Watts
OHI-1	350X350X350mm	400 watts

Industrial Oven



Industrial oven is, triple walled construction outer made of MS sheet, properly painted, second & third wall is made of GI sheet and insulated mineral wool, temperature range from 50°C to 250°C with an accuracy of $\pm 3^\circ\text{C}$ controlled by micro process based digital temperature controller. Provided with an air circulation fan. Supply 415V AC 50 HZ.

Model	Inner Dimension IN cm(LXWXB)
OINO-1	90 X 90 X 60
OINO-2	90 X 90 X 90
OINO-3	90 X 120 X 90
OINO-4	90 X 150 X 150
OINO-5	90 X 150 X 210
OINO-6	90 X 180 X 180
OINO-7	90 X 180 X 240
OINO-8	120 X 180 X 210

Optional

Different size of ovens can be made with specifications and requirements of the customer

Infra Red Rays Cabinet



These are used for melting rubbers in the rubber industries. Supplied complete with IRR Bulbs separate switch for each bulb.

Model	Watts	No. of Bulbs
OIRR-1	3000W	12 bulb
OIRR-2	4500W	18 bulb
OIRR-3	6000W	24 bulb

Bacteriological Incubators (Bottom Beated)



Temperature from 5°C.above ambient to 60°C Thermostatic control with a sensitivity of $\pm 1^\circ$ C. Double walled- outside made of mild steel beautifully powder coated inside aluminum/Stainless steel, having additional glass door inside. Complete with shelves. To work on 220/230v A.C. Supplied with or without air circulating fan but without thermometer.

Aluminum Chamber /Stainless Steel Chamber

Model	Size	No. of Trays
OIA-1	300X300X300mm	1
OIA-2	355X355X355mm	2
OIA-3	455X455X455mm	2
OIA-4	455X455X605mm	3
OIA-5	605X605X605mm	3
OIA-6	605X605X910mm	3
OIA-7	605X455X910mm	3

Optional

- a. Electronic Digital Temp. Controller cum indicator

Bacteriological Incubators (Mettmert Model)



Temperature from 5°C.above ambient to 60°C Thermostatic control with a sensitivity of $\pm 1^\circ$ C. Heating elements are placed in the ribs at the bottom and sides. Double walled- outside made of mild steel beautifully powder coated with perforated adjustable shelves – thermostat, two indicators and on/off switch. To work on 220/230v A.C. Inside chamber of Anodized aluminum/Stainless steel,

Supplied with or without air circulating fan. Complete with additional glass door inside but without thermometer.

Aluminum Chamber / Stainless Steel Chamber

Model	Size	No. of Trays
OIMA-1	300X300X300mm	1
OIMA-2	355X355X355mm	2
OIMA-3	455X455X455mm	2
OIMA-4	455X455X605mm	3
OIMA-5	605X605X605mm	3
OIMA-6	605X605X910mm	3
OIMA-7	605X455X910mm	3

Optional

- a. Electronic Digital Temp. Controller cum indicator

Innoculation Hood



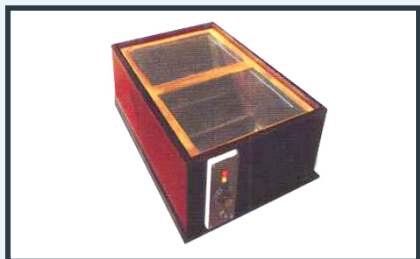
Made of wood with glass panels on the two sides- and back and bottom of the hood are made of good quality plywood properly painted the hood is provided with a hinges transparent front door – the will have a front bottom panel , made of transparent acrylic having two glove compartment s-complete with UV lamp, 1 no. fluorescent light (20 watts) both

operable by separate switches and 2 nos. of acid and alkali proof gloves of 35cm

Model	Size (L X B X H)
OIH-1	750X500X750mm

The above item can be supplied made of MS sheet, duly powder coated at the same rate.

Insipisator (Thermostatic)



Outer made of wood with PU coating and inner made of copper sheet, epoxy coated and filled with ceramic wool. Inner chamber can accommodate 100 tube of media at a time. Arrangements for water in, out and overflow are equipped with the unit. Temperature is controlled by thermostat, temp. range ambient +5°C to 60°C

Model	Size (L X B X H) Inner
OSPTR-1	51X32X17 cm

Optional

- a. Electronic Digital Temp. Controller cum indicator.

Khan Shaker



This shaking machine can accommodate khan racks, bottles or flasks of different sizes, DC motor with variable speed and speed regulator 50 to 250 RPM.

Model	Platform Capacity	Platform Size(cm)
OKS-1	9 flasks of 250ml	38x38
OKS-2	9 flasks of 250ml	38x50
OKS-3	50x50	50x50

Laboratory Glassware Dryer



It is used for drying laboratory glassware quickly and safely. By providing continuous warm air circulation through 12/24 hollow drying pegs with large or small bores with dust free filters labware is never too hot to handle. A time proportional high/ low heat controlled with an automatic thermostatic safety control cut off system.

Model	Size
OGD-1	With 24 drying pegs
OGD-2	With 48 drying pegs

Laminar Air Flow Cabinet– Vertical



These are designed to meet the requirements as per US Federal Standard 209E, providing particle free air to meet class 100 conditions, with work zone. Useful where any hyper critical work has to be performed within minimum contamination as they assure 99.97% removal of airborne particles as 0.3 microns in the work area. The basic elements are

pre filter, heavy duty blower assembly, hepa filter. Fresh air is drawn through the pre-filter and passes to hepa filter having efficiency rating as high as 99.99% with cold DOP and 99.97% with hot DOP, thus remaining particle of size 0.3 micron and larger. Double filtered air blows in laminar flow through the work area at a velocity of 90ft/min \pm 20%. Basic materials in thick board wood front, back, top and exterior surface are covered with Formica and interior surface are epoxy paint, work top is made of SS mat finished or mica, and side panels are made of 6mm thick acrylic transparent framed in anodized aluminum frame. Blowers are fitted with motor operates with minimum noise and vibration, to work on 220/230V 50Hz AC supply.

Complete with HEPA filters/UV tube, Motor blower, Manometer, Gas cock and Acrylic doors.

Model	Size
OLAF-1V	2' X 2',
OLAF-2V	3' X 2'
OLAF-3V	4' X 2'
OLAF-4V	6' X 2'

Laminar Air Flow Cabinet– Horizontal



Laminar Air Flow – Horizontal with static pressure manometer, Transparent front door, built in UV light and gas cock

Model	Size
OLAF-1H	2' X 2',
OLAF-2H	3' X 2'
OLAF-3H	4' X 2'
OLAF-4H	6' X 2'

Magnetic Stirrer



The body fabricated with MS sheet duly powder coated having SS top housing series of magnetic stirrers are most compact models. These are smooth running apparatus utilizing the rotating magnetic field from a balanced permanent magnet (stirring speed – 1200RPM approx..) to induce various stirring action in close or open non magnetic containers. Stirring is

accomplished by a small Teflon coated magnetic paddle to be placed in the container

Without Hot Plate

Model	Capacity
OMS-1	1 ltr.
OMS-2	2 ltr.
OMS-3	4 ltr.
OMS-4	5 ltr.

With Hot Plate and Temp. controlled by energy regulator(Temp. 300° approx.)

Model	Capacity
OMSH-1	1 ltr.
OMSH-2	2 ltr.
OMSH-3	5 ltr.

Muffle Furnace (1000°C)



Muffle furnace is a rectangular electric furnace with fast heating system. The body made of thick mild steel, with iron angles and duly powder coated. The maximum temp. 1000°C and working temp. 900°C controlled by microprocessor based digital temp. Controller fitted with thermal fuse and thermo couple with ceramic wool insulation.

Model	Size	Capacity
OMF-1	10x10x23cm	1.6 KW
OMF-2	13x10x25cm	2.0 KW
OMF-3	15x15x23cm	3.3 KW
OMF-4	15x15x30cm	3.5 KW

High Temp. Muffle Furnace (1200°C)



High temperature muffle furnace with maximum temp. 1200°C and working temperature 1100°C. It is controlled by microprocessor based digital temp. Controller fitted with thermal fuse and thermo couple with ceramic wool insulation.

Model	Size	Capacity
OMF-1S	10x10x23cm	1.6 KW
OMF-2S	13x10x25cm	2.0 KW
OMF-3S	15x15x23cm	3.3 KW
OMF-4S	15x15x30cm	3.5 KW

Multi Mantle



The Heating mantles are rolled and anchored securely in glass sleeve, reinforced and insulated by glass wool to work on 220/230v AC. 3 or 6 mantles are in one unit and the temperature is controlled by Energy Regulator.

Model	Capacity
OMM-1	250ml X 3
OMM-2	250ml X 6
OMM-3	500ml X 3
OMM-4	500ml X 6
OMM-5	1000ml X 3
OMM-6	1000ml X 6

Oil Bath Round (Thermostatic)

Double walled construction, inner made of SS 304 grade sheet, outer made of MS powder coated and glass wool insulation. Temperature is controlled by thermostat having a temperature range from 50°C to 250°C with an accuracy of $\pm 2^\circ\text{C}$ and without thermometer.

Model	Inner dimension	Watt	Ltr.
OOB-1R	200mm	1500	2 ltr
OOB-2R	250mm	1500	5 ltr
OOB-3R	300mm	2000	10 ltr

Oil Bath Rectangular (Thermostatic)

Model	Size	Ltr.
OOB-1RE	200X200X170mm	2 ltr
OOB-2RE	250X250X170mm	5 ltr
OOB-3RE	300X300X170mm	10 ltr

Optional

- a. Electronic Digital Temperature controller cum indicator.

Orbital Shaking Incubators (Cooling/Without Cooling)



Orbital shaking incubators are specially designed to have combined advantage of a closely controlled incubation/ storage temperature with orbital shaking necessary for many laboratory procedures such as tissue cultures, fermentation studies, enzyme reactions, controlled purification and ageing studies etc.

Construction double walled exterior is made of MS sheet, powder coated and interior is Stainless Steel. The Plexiglas door make it possible to inspect specimen without disturbing the temperature. Powerful air circulation create positive air flow through the incubator.

Inner dimension (47Wx47Dx65H)cm

Model	Platform Size	Temperature	Capacity
OOSI-1	36x36cm	5°C to 60°C	16 Conical Flasks X 250 ml.
OOSI-2	36x36cm	Amb. 5°C to 60°C	16 Conical Flasks X 250 ml.

Shaking Speed: 20 to 250 RPM

Optional

- Additional Platform for different flasks
- Digital timer
- Chamber illumination with fluorescent tube 2 nos
- Chamber illumination with Ultra violet lamp 2 nos
- 0 to 24 hrs. cyclic timer for U V lamp
- Automatic Voltage Stabilizer 3 KVA for model OSI-1

Orbital Shaker



These shakers are made of fully stainless steel M.S. having lotus clamps holding various sizes of flasks and orbital speed ranging from 50 to 250 RPM. The unit has built with Micro processor controlled RPM and digital timer 1 to 99 mnts.

Model	Platform size	Capacity
OORB-1SS	360X360mm	16 Flasks X 250 ml.
OORB-1MS	360x360mm	16 Flasks X 250 ml.

Optional

Additional platform (100mlx25nos, 500ml x9nos, 1000mlx4nos) each

Paraffin Embedding Bath



Double walled construction, inner chamber made of SS 304 quality sheet. Thermostatic temperature control, from ambient +5°C to 80°C with an accuracy of $\pm 1^\circ\text{C}$. The bath is insulated by 25mm glass wool. 6 holes are provided to accommodate SS pots having 63mm dia X 65mm depth. 2 holes of 30mm dia. to insert tubes.

Model	Description	Inner Dimension (WxDXH)
OPWB-1	Stainless Steel	375X300X150mm

Plasma Thawing Bath



Double walled construction: outer body MS duly powder coated and inner made of SS 304 grade sheet. Temp. is controlled by microprocessor based digital temperature controller, temp. range of +37°C to 56°C $\pm .5^\circ\text{C}$ with audio visual alarm for low and high temperature. Removable SS tray with partition for holding 12 bags. The unit is to work in 220/230 V AC.

Model	Description	Capacity	No. of plasma bag
OPTB-1	45X30X25cm	40 ltr.	12

Plant Growth Chamber



Inside made of SS, outside made of mild steel duly powder coated and fitted with cooling, heating and lighting arrangements. Temp. range 0°C to $60^\circ\text{C} \pm 1^\circ\text{C}$. Temperature can be obtained from 15°C to $50^\circ\text{C} \pm 1^\circ\text{C}$ When all lights from two sides and top are ON. Temperature is controlled by electronic digital temperature controller cum indicator to set two temperature for day and night. Above Growth

Chamber is complete with humidity control from 55% to 95% at a cool temperature. Light intensity can be adjusted by controller according to requirement and humidity shall be controlled by controller.

Model	Size(WxHxD)	Capacity
OPGC-1	500X 550X1200mm	300 ltr
OPGC-2	600X 600X1200mm	430 Ltr
OPGC-3	1200X 600X1200mm	860 Ltr

Optional

- Chamber illumination with 2no. fluorescent lamp
- Chamber illumination by UV lamp instead of FL
- Recorder for recording temp.& humidity (circular)
- Recorder for recording temp.& humidity (circular)

Rota Mantle (Heating Mantle With Magnetic Stirrer)



It is a suitable equipment to stir and heat. Used for variable speed with heating by mantle and temperature is controlled by energy regulator.

Model	Flasks Capacity	Watt
ORM-1	250 ml	120W
ORM-2	500 ml	250W
ORM-3	1000 ml	300W
ORM-4	2000 ml	400W

Rotary Shaker



This shakers are ideal for mixing and development of cultures, chemicals and pathological work etc. This unit has base assembly fabricated from heavy mild steel sections. The drive has single extender bearing and heavy duty main bearing resulting in small number of moving parts. The simple and sturdy design, make the units suitable for continuous

non-stop operation. The orbital diameter of 25mm and shaking speed of 20 to 250 RPM is standard, with DC Motor for variable speed and speed regulator.

These are heavy duty Rotary shakers having Stainless Steel Platforms and are ideal for applications demanding continuous operations.

Model	Platform Size cm	
ORS-1	30 x 30 (250mlx9nos)	Additional Platform for 100mx16nos.
ORS-2	45 x 45 (250mlx16nos)	Additional Platform for 100 mlx36nos.
ORS-3	60 x 60 (250mlx36nos)	Additional Platform for 100mlx64nos.
ORS-4	90 x 90 (250mlx64nos)	Additional Platform for 100mlx100nos.

Optional

Digital Speed Meter

0 – 24 hrs. weekly cyclic timer

Seed Germinator



Seed germinators are useful for seed testing, biological studies, forestry, research work etc. Double walled construction with inside of Stainless Steel and outside of mild steel duly powder coated. The equipment having CFC free refrigeration with hermetically sealed compressor.

Temp. Range	Reading
Humidity Range	10°C to 60°C with an accuracy of 0.5%
Humidity setting	40% to 90% with an accuracy of +3%
Tem. & Humidity	Controlled by micro processed humidity & temp. controller

Model	Capacity	No. of Trays
OSG-1	170 ltr.	6
OSG-2	285 ltr.	8

Optional

Chamber illumination with 2 no. Fluorescent lamp

Sterilization of work area with 2 no. UV lamp

Cyclic Timer 0 – 24hrs for regulating cyclic illumination

Recorder for recording temp.& humidity (circular)

Recorder for recording temp.& humidity (strip Chart)

Automatic Voltage Stabilizer 3 KVA

Slide Warming Table (Thermostatic)



Body made of MS sheet, powder coated to work on 220/230v AC.

Top Sheet Aluminum / SS / Copper

Model	Dimension (WXDXH)	Rating
OSWTA-1	45 X 30 X 15cm	1500w
OSWTA-2	60 X 45 X 15cm	2000w

Slide Viewing Box



MS box duly powder coated with illuminated plexy glass viewing (size 30Lx10W cm) operate on 220/230V.A.C.

Model	Dimension (WXDXH)
OSVB-1	30 X 12 X 15cm

Soxhlet Extraction Apparatus



Heating mantles are arranged in a row. Housing is made with MS sheet, duly powder coated, supplied with stand and adjustable rod equipped with individual energy regulator and pilot lamp.

Model	Capacity	No. of Flasks
OSEA-1S	250 ml	3
OSEA-2S	250 ml	4
OSEA-3S	250 ml	6
OSEA-1M	500 ml	3
OSEA-2M	500 ml	4
OSEA-3M	500 ml	6
OSEA-1L	1000 ml	3
OSEA-2L	1000 ml	4
OSEA-3L	1000 ml	6

Stirrer



1. Light Duty stirrer – 1/20 HP AC/DC Motor (Bush)

Model	Speed Regulator	Capacity Ltr.
OLS-1A	Mounted on Electronic speed Regulator	6 to 8
OLS-1B	With separate speed control	6 to 8
OLS-1C	With auto variac Speed control	6 to 8

2. Light Duty stirrer – 1/20 HP AC/DC Motor (Chuck)

Model	Speed Regulator	Capacity Ltr.
OLS-2A	With Electronic speed Regulator	6 to 8
OLS-2B	With variac control	6 to 8

Price

3. Medium Duty stirrer – 1/12 HP AC/DC Motor (Chuck)

Model	Speed Regulator	Capacity Ltr.
OLS-3A	With Electronic speed Regulator	10 to 15
OLS-3B	With auto variac control	10 to 15

4. Medium Duty stirrer – 1/8 HP AC/DC Motor (Chuck)

Model	Speed Regulator	Capacity Ltr.
OLS-4A	With Electronic speed Regulator	15 to 20
OLS-4B	With auto variac control	15 to 20

5A. Heavy Duty stirrer – Hollow spindle belt driven

Model	Speed Regulator	Capacity Ltr.
OLS-5A	¾ HP AC/DC Motor Variac Speed Control	60 to 85

5B. Heavy Duty stirrer – (Direct drive, self centering chuck)

Model	Speed Regulator	Capacity Ltr.
OLS-5B	¾ HP AC/DC Motor Variac Speed Control	60 to 85

Optional

Digital RPM Meter and Timer.

Geared Stirrer

Stirrer with gear, driven by AC/DC/ motor, 120HP.

Model	Motor HP	RPM	Speed Regulator
OGS-1	1/20 HP	340	Electronic
OGS-2	1/20 HP	340	Auto variac

Tensile Testing Machine



Body made of heavy gauge mild steel with powder coated. It is commonly used for the test of the Gule shear strength, Modulus of Rupture (MOR) and Modulus of Elasticity (MOE) samples in plywood and textile industry.

Features

Load cell capacity 50KN

Load indication resolution: 1 N

Cross head speed range 1 to 50 mm/minute

Elongation resolution : 0.1 mm

Automatic stop of predetermined upper and lower limits

Peak hold facility

Auto stop feature on sample break

Load indication selection switch for KG and N

Good featured AC variable speed drive for 3 phase induction motor machine supplied with heavy MS stand

Model

OTTM

Tissue Culture Rack



This Tissue culture rack is made of MS/Aluminum pipes powder coated, rack size 120cm X 53cm. Height between each rack is 38cm. Each rack is fitted with 2 no. fluorescent tubes and one UV germicidal tube and a caster wheel at its base. Each tube has a separate ON/OFF switch. 0 – 24 hrs. weekly cyclic timer also equipped with the unit for controlling all the tubes inside the racks.

Model

No. of Rack

OTCR-4

4

Tissue Flootation Bath



Double walled construction inside made of aluminum, outer made of MS sheet duly powder coated. Temperature is controlled from ambient +5°C to 80°C by Thermostat and without thermometer.

Model

Dia x Depth

OTFB-1

20 cm x 9 cm

OTFB-2

25 cm x 12 cm

U. V. Cabinet



Made of MS sheet duly powder coated, provided with inspection hole useful for viewing TLC plate under UV light.

Model

Outer Dimension: 32.5LX25BX27.5H cm

OUVC-1

One UV lamp short wave with one fluorescent lamp

OUVC-2

2 UV lamp (short 256xlong 356 wave) with one fluorescent lamp

U. V. chamber



Double walled construction, outer body made of MS sheet duly powder coated, inner made of UV stabilized polycarbonate sheet. Inside the chamber 4 no UV lamp fitted on 4 sides and one no. fluorescent for illumination. When the door closes UV lamp will automatically switch ON and fluorescent lamp will switch OFF and vice versa.

Model

WXDXH in CM

OUV-1CH

45 x 45 x 90

Vaccum Oven



Vacuum oven commonly using the temp. from 50o to 250o. The inner chamber is made out of SS and outer MS with powder coating. Glass wool insulation will be provided all around the inner chamber to minimize the heat loss. The SS door is fitted with a glass window to view the samples placed inside. The temp. is controlled and indicated by a digital temperature indicating controller. Vacuum control valve with a vacuum gauge is also provided. Max. vacuum: 760mm of Hg.

Cylindrical

Model	Chamber Size in CM (Dia. x Depth)
OVO-1C	30 X 30
OVO-2C	40 X 60
OVO-3C	45 X 60
OVO-4C	50 X 75

Rectangular

Model	Chamber Size in CM
OVO-1R	30 X 30 X 30
OVO-2R	35 X 35 X 35
OVO-3R	45 X 45 X 45
OVO-4R	45 X 45 X 60

Vacuum Pump



Oxylab Vacuum Pump provides vibration free performance, air ballast facility and assured ultimate vacuum. It is simple in design and construction. From 500L capacity onwards water cooling jacket are provided. Its main advantages are easy servicing, easy oil changing and easy inspection of oil through the window.

Single Stage

Model	Capacity	Motor
OVPS-1	50Ltr/Min	¼ HP (Single Phase)
OVPS-2	100Ltr/Min.	¼ HP (Single Phase)
OVPS-3	150Ltr/Min.	½ HP (Single Phase)
OVPS-4	200Ltr/Min.	½ HP (Single Phase)

Double Stage

Model	Capacity	Motor
OVPD-1	50Ltr/Min	¼ HP (Single Phase)
OVPD-2	100Ltr/Min.	¼ HP (Single Phase)
OVPD-3	150Ltr/Min.	½ HP (Single Phase)
OVPD-4	200Ltr/Min.	½ HP (Single Phase)

Accessories for vacuum pumps

Non return Valve

Moisture Trap

Three way connector with Vacuum Gauge

Exhaust Filter

Suction Filter

V.D.R.L. Shaker



Two models are available with predetermined speed of 100 and 180 RPM. Equipped with 15 minutes timer.

Model	RPM	Size of Platform	Timer
OVDRL-1	180	30 x 30 cm	15 mnts. Timer

Viscosity Bath



It is used to maintain the correct temperature for estimating kinematics viscosity of oil and petroleum products.

Outer body MS inner SS, toughened window panel for viewing. Temperature range ambient to 90°C with an accuracy of $\pm 5^\circ\text{C}$ controlled with digital temp. controller and lighting attachments.

Bath opening 25x20cm with cover having 6 opening of 5 cm dia. to hold 6 viscometers with 6 Bakelite holders.

Model	Size	Capacity
OVSB-1	6 no.	22 ltr.

Constant Temperature Bath/ High Precision Water Bath



Double walled construction inner made of SS 304 grade sheet, outer made of MS duly powder Coated and the gap filled with glass wool. The temperature is controlled by Micro processor based digital controller. Temperature from ambient $+5^\circ\text{C}$ to 80°C with an accuracy of $\pm 5^\circ\text{C}$ and with out thermometer. To get uniform temperature in the water bath a speed controller stirrer is fitted and toughened glass window is provided in front of the unit for the visibility of samples.

Model	Inner Dimension (WxDxH)	Volume
OCTB-1	350x250x200mm	18 ltrs.
OCTB-2	400x300x250mm	32 ltrs.
OCTB-3	450x350x300mm	50 ltrs.

Water Bath Incubator Shaker



Metabolic Shaking Incubator

Temperature range ambient $+5^\circ\text{C}$ to 100°C controlled by digital temp. controller with an accuracy of $\pm 1^\circ\text{C}$. Double walled inside of SS and outside MS sheet duly powder coated. Oscillating tray is riding on ball rollers. Driven by geared motor, Shaking speed range: 40 to 140 RPM to work on 220/230v A.C.

Model	Shaking Tray Size	Capacity
OBIS-1	280X300X175mm	15ltr
OBIS-2	360X330X170mm	21ltr

Optional

Shaking Racks made from SS for model no.OBIS1 and OBIS2

To hold	16 nos.	25 ml	Conical Flask
To hold	2 nos.	50 ml	do
To hold	9 nos.	100ml	do
To hold	5 nos.	250ml	do
To hold	4 nos.	500ml	do
To hold	2 nos.	1000ml	do
To hold	25 nos.	25mm dia.	Test Tube

Water Bath Rectangular- Ring Type (Single Wall)



Without Thermostat

Made of stainless steel sheet. Top of the bath and concentric rings are made of stainless steel. Electrically operated on 220/230 volts A.C. with arrangements of 6/12 Holes with plug and cord.

Model	Size	Holes	Dia
OWB-1	300X250X100mm	6	75
OWB-2	300X300X100mm	9	75

Water Bath Rectangular Ring Type (Double Wall)

Thermostatic

Temperature range from ambient temperature to 100°. Thermostatic control with an accuracy of $\pm 1^\circ$ C. Double walled construction outside MS duly powder coated, inside chamber with top lid made of Stainless Steel. The gap between the walls insulated with glass wool. To work on 220/230volts A.C. with on/off switch, cord and plug and without thermometer.

Model	Size	Holes	Dia
OWBD-1	300X250X100mm	6	75
OWBD-2	300X300X100mm	12	75

Optional

Digital temp. controller instead of thermostat

Water Bath Serological (Thermostatic Water Bath)



Temperature range from ambient temperature to 100°. Thermostatic control with an accuracy of $\pm 1^\circ$ C. Double walled construction outside MS sheet duly powder coated, inside Stainless Steel. The gap between the walls insulated with glass wool. Bath consist of two pilot lamp, temperature control knob, and ON/OFF switch to work on 220/230volts A.C. Supplied without stirring arrangement rack and thermometer.

Model	Size	Rack
OWBS-1	250X175X150mm	1
OWBS-2	300X250X175mm	2
OWBS-3	330X300X175mm	4
OWBS-4	450X300X175mm	6
OWBS-5	600X300X175mm	8

Optional

Stirrer with 1/20 HP high speed motor with SS stirring rod and blade

Digital Electronic Temperature Controller in the place of thermostat

Cryostat Bath (Refrigerated Water Bath)



Oxylab Cryostat Circulation Bath are designed for carrying out research work at desired temperature. High degree of accuracy, essential for operating sophisticated analytical instrument like automatic absorption Spectrophotometer. UVNIS Spectrophotometer, Refractometer, Electrophoresis etc.

Features

Compact Model

Double walled SS chamber and outside MS duly powder coated

Reservoir capacity 15 Ltr./25ltr.

Refrigeration is by hermetically sealed compressor

Temperature is controlled by Digital temperature controller cum indicator

Provided with circulating pump (10 ltr/min. at 2 mtr. Water column)

A drain valve is provided at the bottom

The unit can be operated continuously and is equipped with bottom discharge

Working on 230V, 50Hz., Single Phase

Model	Temp. Range	Capacity	KW
OUCB-1	0 To 40°C	15 ltr.	1 KW
OUCB-2	0 To 40°C	25 ltr.	1 KW

Note: Guarantee invalid if voltage stabilizer is not used.

Optional

Automatic Voltage Stabilizer 3KVA

Cylindrical Water Bath Thermostatic



Double walled construction inner made of SS and outer made of MS duly powder coated. The gap between the walls filled with glass wool insulation and the temperature is controlled by thermostat from ambient +5°C to 80°C having an accuracy of $\pm 1^\circ\text{C}$ and without thermometer.

Model	Inner Dimension	Capacity	Watts
OCWB-1	200mm	2 ltr.	1500 w
OCWB-2	250mm	5 ltr.	1500 w
OCWB-3	300mm	10ltr.	2000 w

Water Still (Wall Mounting-Manasty Type)



It is an electrically operated to obtain pyrogen free distilled water, fully SS make, single wall construction. Fitted with ISI marked heater. Supplied with cord and plug to work on 220/ 230 V.

Model	Watts	Output
OWS-1	2000	2 ltrs/hr
OWS-2	3000	4 ltrs/hr
OWS-3	4000	6 ltrs/hr
OWS-4	6000	8 ltrs/hr.
OWS-5	9000	10ltrs/hr.

Water Still (Table Top-Barnstead Type)



Full SS, Barnstead type Water still unit, with kettle type immersion heater. Supplied with cord and plug.

Model	Watts	Output
OWS-1T	2000	2 ltrs/hr
OWS-2T	3000	4 ltrs/hr
OWS-3T	4000	6 ltrs/hr
OWS-4T	6000	8 ltrs/hr.
OWS-5T	9000	10ltrs/hr.

Automatic water level cut off system can be supplied at an extra cost:

2/4 ltr.

6/8/10 ltr.

Installation on site will charged extra.

Wrist Action Shaker



Heavy MS body duly powder coated having two side arms with suitable flask holding clamps, using AC/DC gear motor and shaking speed range 50-250RPM with variable speed control.

Model	Capacity	Motor
OWS-1	4 flasks up to 500ml	1/20HP
OWAS-2	6 flasks up to 500ml	1/12HP
OWAS-3	8 flasks up to 500ml	1/8 HP

Optional

Digital Timer can be fitted at an extra cost.

Terms and conditions

- Price quoted are net, Ex-factory, Panangad, Pincode 682506, subject to alternation without notice.
- Packing cartage, forwarding, freight, insurance, delivery, demonstration and installation charges will be extra at actuals.
- Sales tax extra as applicable at the time of supply. For inter state sales, 2% CST will be charged 'C' forms is sent along with the order.
- Dealers should sent 30% advance with the order and balance 70% will be drawn through bank.
- Specifications and descriptions given are rigidly adhere to. But we reserve the right to change them to keep abreast with the latest techniques in design and construction.
- All instruments are guaranteed for a period of one year from the date of supply against any manufacture defects.

The obligation is limited to servicing any instrument / part returned with transportation charges to be borne by you.

The equipment/instrument should be strictly used in accordance with the struction manuals supplied.

This is a precondition for the guarantee to be valid.
- Goods once sold will not be taken back.
- We reserve the right to supply the order in full or part.
- All disputes are subject to Ernakulam jurisdiction only.