SUPREME
MEDICAL DEVICES

SUPREME

MEDICAL DEVICES

Specialist In :

Manufacturer of Pharma, Medical Hospital &
Laboratories Equipment And All Type Of Project Works

COMPANY PROFILE

Welcome to the PVJ GROUP OF COMPANIES , one of the most reliable brand. Incorporated in 2010 and promoted by MR V.K JOSHI (RETD XEN FROM HPSEBL)whose technical background and command over technology, shrewd business judgment and domain knowledge have created anenviable position for the organization. with a vision to create nichein manufacturing world class equipments. Based out of Baddi in Himachal Pradesh(India) with 200+ talented pool of employes.It bring forth for our clients remarkable services of MS & SS Fabrication. The entire services offered by us is executed by our expert professionals and as per the clients demands and requirements. These services are widely acknowledged for various attributes such as prompt delivery, timely execution, Our provided products are widely commended by our customers for its durability, low maintenance and high performance. Our offered products are manufactured and developed by professionals using utmost quality raw material and contemporary technology in tune with international quality norms and guidelines. Our offered assortment has attained huge appreciation from our respected

Now In the field of Medical, Pharma & Laboratory Equipments. promoted by Mr. AKSHUT JOSHI .we have emerged as a reputed business house completely engaged in original equipment manufacturer of Medical, Pharma & Laboratory equipments. We are registered with, MSME, GEM: Government e-Market etc. Our Vision : "To be one of the best manufacturer & reliable service provider"

Our Mission: "To partner our customers and add value in all their projects and to retain them forever" Quality Policy- One thing that makes us different from others and superior is our relentless focus on quality and total customer satisfaction. We are an ISO 9001:2008 & ISO 13485:2016, CE, WHO-GMP certified company.

For more than three decades our strong customer focussed approach and the continuous quest for world class quality have enabled us to attain and sustain leadership in all our major business lines. We strive to enhance the quality of life by offering comprehensive sterilization, disinfection and cleaning solutions for the Life Science, Healthcare and Food industry. SUPREME MEDICAL DEVICES is committed to lead from the front. We understand the challenges you are facing: growing concern about risk management, healthcare liability, shrinking budget, stringent documentation requirements and the need to have standardized policies and procedures. To achieve this we stand ready to put our products, services and knowledge ready to work for you.

In response to changing market dynamics SUPREME MEDICAL DEVICES has gone through a phased process of redefining its organization model that facilities growth through greater levels of empowerment. We have one single goal: to build the best machines. Some might find this conceited, but it is rooted in well-established values and confirmed by thousands of successful references. One of these values is the courage to promise, no matter how small or great.

DIRECTOR

FOR SUPREME MEDICAL DEVICES

CONTENT

HORIZONTAL RECTANGULAR AUTOCLAVE

CONSTRUCTION: The chamber is constructed of heavy-duty stainless steel 316 & thickness 5 to 6 mm and jacket constructed of 5 mm SS 304 & Outer SS 304 2 mm to withstand the pressure of 2.2 Kg/cm2 Corresponding to the temperature of 134C and also to withstand vacuum of -500 to -700 mm Hg. In Chamber. one rail is provided in the chamber bottom & two carriage trolley for easy loading & unloading for the material.

BOILER: The autoclave Boiler constructed with a heavy gauge SS 316 electrically operated. The thickness of a 3mm stainless steel Sheet suitably located under the sterilizer. High-grade flanged type heating elements are fitted from the front side for Easy replacement/repair. Fitted with water gauge glass for water level, safety valve, water inlet, and drain valves. It is Also provided with a Low Water Level cut-off device. This device protects the heater in the generator from burning out Dry. The steam pressure in the boiler is indicated on an individual pressure gauge.

DOORS : The Sterilizer is supplied with single door or double doors made of SS 316 The doors are having automatic Hinge type Arrangement. The doors will have unique arrangement to open them manually in case of power failure.

The door Gasket Will be of Silicon food grade. Door thickness is 16 to 20mm Ss316

SAFETY FEATURES:

Special provision prevents the operator from opening the door in following events:-

a) When the chamber is under pressure door is not open.
b) For double door type autoclave only one door can be open at same time.
c) Vacuum Breaker.
d) Heavy duty safety valves for over pressure.
e) Water level glass tube for water level monitoring.

FITTINGS & PIPING : All pipe line is complete SS 304 and thickness & size as per design of machine.

VACUUM SYSTEM: This system is used for effective air removal from the Autoclave chamber.

It consists of an efficient water-ring-type Vacuum pump as per machine design.

AUTOMATIC PROCESS CONTROL UNIT: The control unit is based on advance HMI With PLC controller technology. This unit control Different sterilization cycles With the help of in-built different program combinations. The control unit is provided With a manual operation facility And gives the status of live operation details.

TEMPERATURE AND PRESSURE:

Sterilizing Temp. : 121°C. to134°C.

Sterilizing Pressure: 1.2 to 2.2 kg/Cm2, (15 psi to 30 psi)

OPERATING CYCLE:

121°C Sterilization Cycle

134°C Sterilization Cycle

VLT Test Cycle

Bowie dick test

HORIZONTAL CYLINDERICAL AUTOCLAVE

HORIZONTAL CYLINDRICAL AUTOCLAVE HIGH SPEED is based on the principle that microbiological action of saturated steam at elevated temperature is rapid and through. All models work on the principle of downward displacement of air which is the most economical method of obtaining sterilization. Robust and rigid construction, designed for all types of bulk sterilization which are commonly needed in Medical, Agricultural, research Institute and Pharmaceutical Industries. Suitable for Sterilizing hospital dressings, rubber, plastic goods, surgical instruments, glass wares, etc.

Construction : Triple walled with steam jacket and separate boiler Inner chamber and steam jacket are made up of Heavy gauge S.S. 316/304 Sheet with leak proof argon-arc welding. The sterilizer has single piece door made of stainless steel 316/304. Back plate and ring is also made of thick stainless steel sheet. All the sterilizers are hydraulically tested to withstand 2.5kg/cm2 times
the working pressure. Mounted on tubular steel frame with ground leveling screwed flanges. The Outer jacket is wrapped with asbestos sheet or glass wool to minimize the heat losses due to radiation and is covered by polished stainless steel sheet for that elegant appearance.

Steam Generator

Made of heavy stainless steel sheet. Heavy ring mounted in front of the boiler with folding thick stainless steel plate is fitted with heating elements and low water level cutoff device to protect the former from burning out dry. Front folding plate system provides for easy cleaning of the deposited scale on the elements and the walls for long life and efficiency. Fitted with water gauge glass for water level indication, water inlet and outlet valves

Control Panel Switch

Box To provide electrical control panel box and mounted on the stand of the sterilizer for easy operation. Electrical parts–pressure switch, contactor, water level relay, MCB, YBR Indicators, & on off switch.

Other Features

- Triple Safety: – The Sterilizer is provided with the triple safety features. At the boiler level by a Piezostat which automatically limits the pressure to the required set value and a spring loaded safety valve in case of its failure which releases the steam to keep pressure within the safety limits. At the chamber level, a spring loaded safety valve and a dead weight release valve to release the steam in case the pressure exceeds the safety limit. All these safety features function independent of one another and sequentially i.e. one take over the charge in case of other's failure.
- Prevents the discharge line from choking. The plug is easily removable for daily cleaning.
- Powerful Ejector for drying sterilized linen circulates air throughout the chamber. The circulating air passes through a corrosion resistant metallic wool filter.
- Digital Display is provided to show the chamber temperature.
- Automatic Vacuum breaker is provided to break vacuum in case of formation of vacuum due to steam condensation.

Operating Temp. & Pressure

Working Temp : 121°C to 134°C
Working pressure : 1.2 to 2.2 kg/cm2 (15 psi to 30psi)
Hydro test - 4 kg/cm2
Power Requirement : Suitable to operate on 440V volts, 3 ph, 50 Hz, Ac supply

Optional Features

- Chamber/Jacket of S.S. 316/304
- Door of S.S. 304/316
- Dressing Drums
- Direct steam supply from centralized boiler
- Digital Temperature controller
- High pressure High vacuum model
- Additional Single door/ (Double door) model.
- Fully automatic PLC & HMI with printer/ microprocessor base controlled mod

Available In Following Capacities

Sr. No.	Dia (mm)	Depth (mm)	Capacity (Liters)	H.Speed (Elect.load)	Normal (Elect.load)
01	400	600	75	9 kw/415v/3ph	6kw/415v/3ph
02	450	600	98	9 kw/415v/3ph	6kw/415v/3ph
03	500	900	177	12kw/415v/3ph	9kw/415v/3ph
04	500	1280	251	18kw/415v/3ph	12kw/415v/3ph
05	400	1100	138	18kw/415v/3ph	12kw/415v/3ph
06	600	1200	340	24kw/415v/3ph	18kw/415v/3ph

VERTICAL CYLINDERICAL AUTOCLAVE

Vertical Cylinderical Autoclave comprises of steam jacket electrically heated, inner chamber & lid made of stainless steel 316/304, works on 3-phase, 440V., A/C, 50 HZ supply fitted with automatic pressure control switch, safety valve, pressure etc.

CHAMBER:– The chamber is made of heavy gauge, stainless steel 316/304, fitted with stainless steel forged ring and forged lid, chamber & jacket are fitted with two safety valve of stainless steel, pressure gauge, water outlet and inlet ball valve and vacuum breaker Air inlet valve, stainless steel steam condenser, tube with stainless steel eject valve.

STEAM GENERATOR:– The steam generator is made out of stainless steel heavy gauge fitted with pressure gauge and water draining valve.

OUTER COVER:– The outer cover is made out of stainless steel, duly insulated with high density mineral wool from the inner chamber and fitted with stable legs.

PRINCIPLE :– The steam generates from the jacket and gets condensed by the help of the eject valve which goes through condensing tube and the dry steam gets into the chamber to penetrate into the packs contained in the chamber.

OPERATING TEMPERATURE & PRESSURE Sterilizing Temp:

121°C to 134°C

Sterilizing pressure : 1.2 to 2.2 kg/cm2 (15 psi to 30psi) Power Requirement Suitable to operate on230v, 440v volts, single ph, 3 ph, 50 Hz, Ac supply

AVAILABLE IN FOLLOWING CAPACITIES

- Dia × Depth Load Capacity
- 300 x 500 mm 3 kw 40 Ltr.
- 350 x 500 mm 4 kw 50 Ltr.
- 400 × 600 mm 6 kw 75 Ltr.
- 450 x 600 mm 6 kw 98 Ltr

OPTIONAL FEATURES

- Chamber/Jacket of S.S. 316/304
- Door of S.S. 304/316
- Dressing Drums
- Direct steam supply from centralized boiler
- Digital Temperature controller.
- High pressure High vacuum model
- Fully automatic with printer/microprocessor base controlled mod.

BIOSAFETY CABINET (CLASS-II)A 2

Bio safety Class II B2 Cabinets are designed to meet most demanding biological applications. These cabinets are useful where personal, product and environment protection is necessary. They help in containing unwanted, dangerous and infectious agents. The air flow Bio safety Class II A2 system they follow is 70% air recirculation and 30% air exhaust & Bio safety Class 2B2 system they follow is 30% air recirculation and 70% air exhaust.

Biosafety Class IIB2 Cabinets are combination of quality construction, rugged design and comfortable working. Each cabinet is designed to provide maximum protection to operator, product samples and surrounding environment. Having equipped with high quality and branded HEPA filters they offer efficient contaminant protection. All over bio safety cabinets are made with 10 degree sloped front in order to provide maximum operator comfort? Stainless steel workbench lets you easily clean the bench after experiment. The external body is made of powder coated MS which features corrosion resistant surface and prevents microbial and bacterial growth on the cabinet walls. Each part of the chamber is nicely designed and fabricated ensuring you are buying genuine product at very economical price in India. Standard models of our Biosafety Cabinets come with on / off switches for LED light, UV light and blower but we also have option for digital control panel, which offers you more comfortable working experience. A LCD control panel is fitted at front which displays air flow pressure, UV and LED light conditions, door open or close etc. These are low noise cabinets and the level remains between 65 to 70 db.

Technical Specifications

Working Table Size	**2 x 2 ft.**	**3 x 2 ft.**	**4 x 2 ft**
Working Size	2 x 2 x 2 ft.	3 x 2 x 2 ft	4 x 2 x 2 ft
No. of Motor/Blower	1	1	1
Illumination	1 x 40 w	1 x 40 w	2 x 40 w
Cabinet Material	Powder Coated MS / Stainless Steel 304		
Work Table	Stainless Steel 304		
View Window	In work chamber to monitor the samples		
Main Filter	HEPA Filter (99.97% efficient at 0.3 micron particles)		
Pre-Filter	High efficiency pre-filter (Washable)		
Sterilization	By U. V. Germicidal Tube in work area		
Sliding Sash	Counter balanced door for effortless operation		
Noise Level	Less than 65 db		
Standard Accessory	Gas/Air cock and Multipoint 15/5 Amp. electric socket		
Electric Supply	AC 230V, 50/60Hz		

SAMPLING/DISPENSING BOOTH

CONSTRUCTION

Sampling/dispensing booth is made using premium quality inner & outer SS304.Sampling/ dispensing booth unit is provided with light weighted statically and dynamically balanced motor-blower along with isolator, with an aim to reduce the noise levels. Sampling/ dispensing booth has been designed to provide a class 100 working environment at rest, with built-in scavenging system to ensure protection for the product operator and surrounding environment.

SPECIFICATION

- Minimum vibration level.
- Complete inner & outer SS304/Inner SS304 Two stage filtration/three stage filtration.
- A unique combination of the most customizes design with the highest product protection operator comfort versatility and reliability. Delivered with a strong table top made of stainless steel.
- HEPA filter with hot melt technology which conforms to EU 14 Grade with an efficiency rating better than 99.99% for 0-3µ at supply position.
- HEPA filter with hot melt technology which conforms to EU 14 Grade with an efficiency rating better than 99.99% for 0-3µ at exhaust position pre filter which conforms to EU 4 Grade with efficiency of 90% down to 10 µ, These filters are basically made from micro fibre-glass media and are inherently washable.
- Intermediate filter which conforms to EU7 Grade with efficiency of 95% down to 5µ. These filters are basically made from micro-fibre glass media and are inherently washable.
- Motor blower provided are statically and dynamically balanced supply of sufficient capacity and static pressure is used to take care of air low requirement for entire life of HEPA. The blower is high performance noise abated light weighted statically and dynamically balanced.

DYNAMIC PASS BOX

Technical Specifications

A dynamic pass box, considers the necessity and pass box manufacture a dynamic pass box that aids in the prevention of pollutants in a clean room or other areas. A cubicle box fitted between two classified areas or material passing with HEPA filtered air can be specified as a dynamic pass box. There are interlocked doors on both sides of the dynamic box that keep the air from being polluted. When the button is pressed, the door opens and closes with the aid of the magnetic lock. A UV light in the dynamic pass box controls the closing and opening of doors. When the UV light is turned on, the door is closed; when it is turned off, the door is open.

A dynamic pass box is a cubicle box that has interconnected doors located on both sides. This prevents contamination of the monitored environment when the material is being transferred within .SUPREME a leading pass box manufacturer, provides both static and dynamic pass boxes that are used in the pharmaceutical industry to move materials and retain class between areas.

A dynamic pass box functions similarly to a laminar flow unit. Clean air enters this pass box and also blocks the contaminants to enter. It has interlocked doors on both sides, which avoids contamination of the system area. The pass box machine has a re-circulated filtration system and is designed to GMP specifications.

Dynamic Pass Box Features

- Dynamic Pass Box Design acc. to GMP-Guideline easy to clean and to disinfect
- Doubled Skin Cabinet with Doors and Toughed Glass
- Cabinet Fabricated in SS 304/316 Structure
- Re-Circulated Filtration System
- Electro Magnetic Interlocking System
- HEPA filter H14 filter for supply air and exhaust air
- EU-6 Grade Pre-Filter With SS 304 Flange
- Air velocity: 0.45±0.05 mps (90±20FPM) Below Six Inch of Grill
- Magnehelic Differential pressure gauge
- Centrifugal type Air blower with Speed Variable
- Measuring system for pressure differential and volume flow or air velocity (If Required)
- Pre-Installed White and UV Germicidal Light
- Feather Touch controller for Blower/ Light/ Pressure Display
- DOP Port/ Atmospheric Nozzles
- Sound Level Minimum 65db On Scale
- Power Supply Single Phase 220V 50 Hz.

Special Features of Dynamic Pass Box

Easy to clean

Easy to integrate

Advanced air tightness

Interlocking System

Heavy duty body

UV light

HOT AIR OVEN

Hot Air Oven that is used for the best drying results in conventional process.

These Hot Air Oven are provided with double walled cabinet (Single/Double doors) and the gap between Double walls is filled with high density fiber glass wool insulation material to avoid heat transfer. Stainless steel 304 trays are placed on the movable. This Hot Air Oven comes with a dynamically balanced axial flow type blower fans that are provided for air circulation with air ventilation. The drying chamber during process and also with a control panel board with process timer and digital temperature controller.

We offer this Hot Air Oven in varied capacities ranging from 2, 4, 6, 12, trays, which are manufactured using high grade raw material, testing labs, microbiological labs such as inner chamber, trays SS 304 & outer Body SS 304/ MS Powder coated.

Features:

- All Tray & inner chamber stainless steel 304 construction for pharmaceutical application or external SS304/ mild steel with SS internal parts
- Electric air heater are generate heat air and heating control through electric panel board with process timer
- Both side air ventilation.
- Easy accessibility of chamber cleaning

Heating Elements:– Heating elements are made of high quality nickel/kanthal wire heavy gauge which are put inside beads and placed at the bottom and in both the side ribs for Uniform temperature all over the work space.

Temperature Control:– To provide digital temperature control display and Temperature is controlled by imported capillary type thermostat from 50°C above ambient to 250°C ±0.1°C. Temperature control knob is graduated in centigrade degrees after actually observing the temperature in steady state.

Ventilation:– Air ventilators port are provided on both sides for ventilate.

Control Panel:– The equipment is provided with an Electric panel having a thermostat control knob, ON/OFF switch or digital temperature controller and indicating light.

Power Requirement:– Supplied with cord and plug. Suitable to operate on 230 V single phase, 50 Hz, AC supply.

Optional Accessories:–

- Air Circulating blower.
- Digital Display Temperature controller and Indicator.
- Digital Display Temp. Controller-Cum-Indicator in lieu of thermostat.
- Micro Processor based PID temperature controller-cum-indicator in lieu of thermostat.
- Timer/ hour's meter.

Spare: – Electric air heater

Available In Following Capacities

Sr. No.	Length(mm)	Depth (mm)	Hight (mm)	(Electrical load)	No. of Trays
01	450	450	450	2 kw/220v	02 to 03
01	450	450	610	2 kw/220v	03 to 04
02	610	610	610	2.5 kw/220v	03 to 04
03	610	610	915	3 kw/220v	04 to 05
04	610	610	1220	4 kw/220v	04 to 06
05	1220	610	1220	6 kw/220v	12x2 (10) Double Door
06	1050	610	1220	5 kw/220v	12x2 (24) Double Door

FUME HOOD

Fume Hood has heavy Stainless Steel Construction 304 Grade Size: 4'x2'x2', 6X2X2, Work table is made of SS 316 or ceramic glazed tiles, a small S.S. Sink, Water Tap, Water outlet provided. A sliding glass door Moves vertically with counter weight. Complete with fluorescent light. Centrifugal motor fan with S.S. Fitted with the exhaust fumes will vented with PVC pipe outlet. (160 diameter)

Specifications: Stainless Steel Construction of 304 grade Available in size of 2' x 2' Work table comprising ceramic glazed tiles Provision of stainless steel sink, water tap and outlet Sliding glass door that provides vertical movements with counter weight.

Fluorescent light and centrifugal motor fan support, SS Sink, SS tab, etc.

Unit is widely demanded by the pharmaceutical industry as well as in huge chemical laboratories.

- Compact design
- Low noise Level

Excellent air Exit flow through duct

Working Size

- The system should have following Overall Dimensions:
- Overall Length of Fume Hood: 1500 - 1550 mm
- Overall Width of Fume Hood: 750 - 1500 mm
- Overall Height of Fume Hood: 1500 - 2500 mm
- Length of Base Cabinet: 1000 - 1500 mm
- Height of Base Cabinet: 700 - 800 mm.

Construction

Double Wall Construction o Body thickness: 10 mm (Min.) o Completely made from GI sheet with Highly corrosion resistant epoxy powder coating r Inner Chamber - Chemical & Heat Resistance, Fire retardant, smooth finish, easily cleanable, made out of durable PRL sheets of thickness 5 mm (Min.)/ SS 304 of 18- 20 gauge thickness.

Should be provided with Fume Hood installation Kit and Accessories we provided with Safety Device Trip.

Working Table Top Granite / M.S Powder Coated Sheet Covered with P.P Sheet/ ss 304 Thickness of granite 18 mm (Min.).IQ Q/OQ On site IQ, OQ of instrument along with document to be provided & supplier to assist till satisfactory PQ of instrument.

Door / Sash/ Shutter Thickness -5 mm (min.) Material -Toughened Glass Door vertical Folding Type with adjustable height

B.O.D INCUBATOR

B.O.D. INCUBATOR Construction Of Stainless Steel Sandwich Type 75 MM Thick PUF- filled Body. PUF Insulation Density: - 40kg/Meter³, Inner MOC of Chamber: - S.S.304/316, Outer MOC of Chamber- S.S. 304 & Wire Meshed type S.S. Trays are Provided (MOC:- S.S. 304/S.S. 316). Double walled PUF-filled S.S. Door is provided along with Silicon Gasket for air tight sealing. Mechanical lock & Key provision is provided for Door. Master Sensor for temperature is provided for controlling of chamber. The Control Panel, cooling system, & Air circulation blower are provided with attention of all standard parameter. Mounted on heavy castor wheels for easy movement.

TECHNICAL SPECIFICATION

- Temperature range: Ambient +5.0°C to 60.0°C
- Temperature control accuracy ±0.1°C of set point
- Temperature uniformity ±0.1°C
- PUF Insulation Density:- 40kg/Meter³
- Control type: Time proportionate digital Microprocessor PID,
- Temperature display: digital LED
- With motorized fan blower for air circulation
- Inner full length acrylic door
- Outer cabinet SS 304 grade dull matt finish.
- Inner chamber made of stainless steel 304 grade.
- Inner chamber stainless steel mirror finish.
- Easy removable PU Wheel two breakable & two none breakable.

OPTIONAL FEATURES-:

- PLC based system : PLC with HMI 3.7" touch screen
- Magnetic door lock feature.
- Controller with printer interface to connect to EPSON Dot matrix line printer. Date, time and temperature.
- Microprocessor based PID controller in lieu of above digitaltemperature. Controller with Auto tune facility
- Digital timer of 999 minutes with automatic heater cut-off for timed cycle.
- High temperature safety cut-off with audio/visual alarm

STABILITY MACHINE

Stability Chambers are perfectly designed for the high requirements of stability studies and climatic tests. With Stability Chambers specifically developed to meet FDA/ICH stability requirements generating exceptional control and uniformity of both temperature and humidity. Stability Chambers feature various safety features, audio visual alarms, HMI with PLC controller and is the most preferred choice for stability studies. Every Stability Chamber repeatedly produces required conditions, structural integrity that keeps the chamber working properly through years of demanding test cycles and measuring equipment's that precisely records all test data.

SPECIFICATIONS

- Standard Model(S) : Inside S.S. 304 with mirror polish & outside mild steel powder coated
- GMP Model(G) : Inside S.S. 316 with mirror polish & outside with S.S. 304 matt buff
- Temperature Range : 20°C to 60°C
- Temperature Accuracy : ± 0.2°C
- Temp Uniformity : ± 2°C
- Humidity Range : 40% to 95% RH
- Humidity Accuracy : ± 2% RH.
- Humidity Uniformity : ± 3% RH.

HORIZONTAL / VERTICAL LAMINAR AIR FLOW

This unit is made using premium quality inner & outer stainless steel with front door & side glass and acrylic sheet, which are sourced from the reliable vendors or the market. Our offered air flow unit is provided with statically balanced motor-blower along with isolator, with an aim to reduce the noise levels. This National Horizontal/Vertical Laminar Air Flow is available in the market at most comparative prices.

Features:

• Minimum vibration level.

• Inner & outer SS 304/Working Table is SS-304 & OUTER GI powder coated.

• Two Stage filtration System Horizontal/Vertical Laminar Air Flow A Unique combination of the most aerodynamic design with the highest product protection, operator comfort, versatility and reliability. Delivered with a strong tabletop made of stainless steel.

Technical Specifications:

- Air cleanliness : ISO Class 5 / Class 100 / M 3.5 AREA
- Air Velocities : 0.45 Â± 0.05 mps (90 Â± 20 FPM)
- Air Flow : Horizontal / Vertical
- Noise Level : Less than 67 dB
- Vibration Level : Minimum
- POWER SUPPLY : 230V AC, single ph., 50HZ
- MOC : GI Powder Coated / SS-304 / SS-316
- Side panel with tempered Glass / Polycarbonate / Acrylic sheet.
- Two Stage filtration(Hepa & Pre Filter)
- U14 - HEPA Filter - Supply / Exhaust (99.999% down to 0.3 micron)
- Statically & Dynamically balanced Motor-blower with isolator to reduce noise level
- Fluorescent Lights with Milky White Diffuser
- Differential Pressure Digital/ Gauges: 01 No. (HEPA Filter)
- ON/OFF Switches (BL / FL / UV).
- Auxiliary Powder Socket : 5/15 Amp for external equipment
- DOP Port

DQ, IQ, OQ, Documentation

ULTRA LOW TEMPERATURE LABORATORY DEEP FREEZER -80°C

Ultra Low Deep Freezer Constriction of Material inner chamber made SS 316 L Grade and Outer made MS Powder coated with Micro processer based digital temperature and printer facility. To provide inner chamber separately three door of SS 304/316. Ultra Low Deep Freeze is widely used in Pharmaceutical Industries, Research Institute, Scientific Research institute for keeping specimens and testing samples safe. Our offered range is well known in the market for its diverse features like rugged design, low power consumption and durability.

Technical specification-:

- Upright model of Ultra-low temperature Deep Freezer (-80 °C).
- System should have programmable operating temperature from –50°C up to –80°C with 1°Cincrement.
- Both audible and visual alarms to indicate high/low temperature, power failure and alarm conditions;
- LED light indicators for low battery, filter clean and fault analysis should be present
- Anti-corrosive Material
- Digital Microprocessor based PID temperature indicator cum controller with an display
- System must have pull down timing 5-6hours from ambient temperature to -850 C.
- Controlling of temperature is within ± 2°C of set temperature
- High / Low Temperature, Door opening, power faultier alarms facility with battery backup
- Polished Stainless Steel Inner Chamber SS 304/316, 18 SWG
- High grade MS Powder coated exterior , 18 SWG
- High density Polyurethane Foam Insulation (PUF)
- Insulated Main door, with Inner SS 304 lining
- Magnetic gasket for leak proof, handle and lock with key for door
- Air cooled, fully balanced, long life CFC FREE refrigeration system with Eco-friendly hermetically sealed
- compressors (Cascade System)
- System must use HFC-FREE nonflammable, environmentally safe refrigerants.
- The Compressor system should be industrial grade and high efficiency based on dual compressor.
- Provided with SS 316 separately compartment 4 to 5 & adjustable trays– 4 to 5 nos.
- Provided with SS PU wheels for easy movement.
- Power supply: Single phase 230V, 50Hz.

To provide all documents DQ, IQ, OQ , warranty certificate, MOC Certificate, & all test repots

BACTERIOLOGICAL INCUBATOR

Introduction

Incubator is a perfect choice for reliable day to day operation in variety of uses Drying of slides, paraffin embedding tissue culture work incubator of antibody test, excellent for Microbiological determination etc.

Constructions

Incubators are study double walled construction with complete inner chamber made of Highly Polished stainless steel 304. Outer chamber is made of SS304 of Mild Steel Sheet, duly pretreated and finished with durable . The 65mm gap between the walls is filled with special grade insulation material for proper insulation and to avoid heat losses. Inner chamber fabricated with ribs for adjusting shelves to convenient height.

Supplied with 2 or 4 removable shelves. Shelves are made of SS 304 perforated.

Chamber Door of SS 304 sheet with glass window. It has two doors. The outer door is insulated and is fitted with heavy hinges. Inner door is made of glass panel or acrylic sheet mounted in a SS frame to facilitate inspection of sample, without disturbing the chamber temperature.

Heating Elements

Heating elements made of high grade imported ni chrome wire are insulated inside the porcelain beads placed at the bottom and side ribs for uniform temperature all over the space.

Temperature Control

To provide digital temperature control display and temperature is controlled by imported capillary type thermostat from 5°C above ambient to 80°C ± 0.5°C.

Temperature control knob is graduated in centigrade degrees after actually observing the temperature in steady state.

Ventilation

Air ventilators ports are provided on sides at top for ventilate fumes & assist convection process.

Control Panel

The equipment is provided with a electric panel having a thermostat Control knob,ON/OFF switch or digital temperature controller and indicating light

Optional Accessories

- HMI with PLC controller fully automatic process with printer facility.
- Air circulating fan.
- Digital display temperature controller and indicator.
- Digital display temp. controller-cum- indicator in lieu of thermostat.
- Microprocessor based PID temperature controller-cum-indicator in lieu of thermostat.
- Timer/hours meter

STAINLESS STEEL ULTRASONIC CLEANER

The unit will be a compact model, with a built-in tank Manufactured for high - quality 304 stainless steel and As o lid- generator that sends ultrasonic impulses through wash water containing detergent and electrical heating ; microprocessor -controlled digital display with time and temperature functions. The ultrasonic cleaner will have a display and control which could be easily seen and placed above any liquid for safety and reliability.

The automatic system to provide automatic cut off device. Material:

Made of stainless steel

Power supply: 230vac single phase.;

Ultrasonic frequency:45khz(+/-4khz)

Suitable ultrasonic power (watts)

Available volume: 20, 30, 60 liters

Transducers: pzt – elements in sandwich form.

Accesories : lid and baskets.

To provide wire mesh basket as per required size to provide one set electrical cable.

Operational manual inside

DRYING CABINET

Drying cabinet casing, doors and shelves are made of stainless steel AISI304 quality.

Double-wall construction with insulation between panels. This construction reduces heat losses and noise in the working area.

Digital Display with PID Controller Automatic Cut off system The drying Cabinet is designed to dry surgical instruments, glassware, and anesthetic therapy equipment.

The unit has an adjustable temperature Range of 70–90degC and A

Drying timer Range of 0–99 minutes made of stainless steel.

Size:500mmx500mmx1000mmheight. ElectricalHeater:2kw/220v

It Can be operated on electrical connection 220V AC single phase 50Hz.

Supply from a standard 15 Amps 3 pin plug point.

Capacity: 8 shelves can be kept for drying at a time

STAINLESS STEEL STATIC PASSBOX

Static pass box equipment made of inner & outer 304/316 grade stainless steel and high-quality components and are capable of eradicating pollutants from the air. Static pass boxes are installed in manufacturing areas and filter the incoming air to keep the air free from dust and other contaminants. With UV light along with hour meter, Fluorescent light, buzzer indicator to know the material is kept inside and indicating lamp these static pass boxes provide excellent working performance in the clean room unit.

- Stainless steel Pass box complete stainless steel SS 304 body construction all smooth ground corners all the joints will be welded with TIG Argon Arc finely finished and mirror polished.
- Over all size: 680mm L x 650mm W x 725mm internal size: 600 mm Lx 600mm W x 600mm UV LED make Philips.
- Door Solid door w/mechanical or electrical interlocked
- Window Tempered Glass • UV Lamp optional
- Electricals • HEPA Filter optional • Filtration
- Efficiency

SPRAY GUN WATER & AIR

Spray Gun Riser with attachments is used for cleaning syringes, catheters, endoscopes, cyst scopes and variety of their instruments.

- The instruments hall be cleaned through water and pneumatic compressed air.
- Various regular dimensions are included in the scope of supply used.
- Pneumatic pressure capacity 0 to 10 bar high quality spray gun used.
- Pneumatic pressure used for washing all types surgical instruments and other used.

WORK TABLE WITH DOUBLE SINK

Stainless Steel Worktable with double sink unit with hot water, cold water and air spray connections – for washing of instruments:

- Complete stainless steel 304 body construction, with four leg supports made of stainless steel
- Will have a drain outlet connection
- Sinks are designed in a way to minimize splash
- Will have an under shelf made of stainless steel 304
- Sink size each 600mm Length x 500mm Width x 240mm Depth
- Bench top dimension:1850mm L x 650mm W x 900mm Ht
- All smooth ground corners
- All the joints will be welded with TIG Argon arc, fine finished
  To provide bottom shelve

CONTROL & PACKING TAB

The control and packing table with two shelves is used for separation, control, and packing of various sets of sterilized goods forward , clinics, operation theatre, etc. It will have a drawer and nylon adjustable Leveling bush for legs .

- The complete table will be made of SS 304 , 16SWG
- It will have provision for electrical connections sockets 5 Amps& 15 amps
- Overall size–1500mm lengthx700mm Widthx1400mmH
- The corners will be smoothly rounded to avoid any sharp edges.
- All the joints will be welded with TIG Argon arc, finely finished, and mirror polished.

HOLDING BASKET RACK

Construction in type 304 stainless steel with mat finishing SS pipe square tube structure.

3 free standing section to hold & basket in a vertical. Suitable for transportation of sterilization baskets. Caster wheels with 2 brakes & 2 without brakes (As per demand) Available trolley type & standing type Available in Single type (4baskets) / Double type (8baskets) & triple (24baskets) We do manufacture as per customer requirement

SEALING/PACKING MCHINE

Material: Mild Steel .

- Capacity: 2000 Pouch per Hour Voltage:230V.Weight: 12.5 kg.
- Automation Grade : Semi-Automatic . Frequency: 50 Hz.
- Dimension: 560x250x650mm Temperature indicator
- speed regulator
- On-Off switch

STORAGE RACK WITH SHELVES

Floor mounted to rage rack with Three nos . shelves are used to store the medical instruments /linen . The frame is fabricated of 40mmsquare Stainless steel pipes. The legs are provided with adjustable nylon. Bush feet.

The shelves are fabricated of1 16WG Stainless Steel sheets ground polished to smooth surface .

Edges are welded together & polished at corners.

OverallSize:900mmLengthx425mmWidthx900mm Height

SS WORKING TABLE

The working table is used for separation, packing of various sets of sterilized goods forwards ,clinics , operation theatre, etc.

- It will have two shelves and nylon adjustable leveling bush for legs .

  The complete table will be made of SS 304, 16SWG.

- Overall size–1800mmlengthx900mm Widthx800mmH

The corners will be smoothly rounded to avoid any sharp edges.

All the joints will be welded with TIG Argon arc ,finely finished, and mirror polished

MUFFLE FURNACE

Muffle furnace is most useful for igniting and heat treating of small parts in chemical industrial field ,pharmaceutical companies medical colleges research laboratory, muffle Furnace is fabricated using premium quality material with advanced technology and are used laboratories and medical field applications.

Outside body is made up of heavy gauge M.S/GI Powder coating inner muffle furnace with temperature insulating material. Maximum temperature 1050 to 1200 deg c & working temperature is 930deg c /1130deg c controlled by digital temperature controller cum indicator.

Heating element is made of kanthal wire. A solid state silver fuse for protection to elements in case of over heating .

FEEDING SOLUTIONS

PHARMA / MEDICAL EQUIPMENTS

SUPREME

MEDICAL DEVICES