



Manufacturer & Supplier Pharmaceutical Equipments



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ABOUT US

IMPRESSION SOLUTIONS was Established in the year 2017. We are one of the eminent manufacturers, supplier, service provider & exporter of Medical, Pharmaceuticals, Laboratory & Hospitals Scientific Instruments & Equipments. These Equipments are manufactured by using the finest quality of raw materials and latest technology.



To be a globally respected corporation & prominent brand in the Pharmaceutical & Laboratory Equipment industry by delivering sustainable values to all our clients & associates through constant development of innovative and high quality products.

Our mission guides every aspect of our business and helps to achieve our objectives in an environment of equality, honesty & civility towards our clients, employees, vendors & society through providing products based on efficient & environment friendly technology, consistently surpassing customer expectation of quality & on-time delivery.



Impression Solutions constantly focuses on Research and Development to improve the quality and reliability of our products and services. As the world is changing all around us. To continue to thrive as a business, improve the methods of research and development over next coming years and beyond, we look ahead, understand the trends and forces that will shape our business in future.

SERVICES

SERVICES:

IMPRESSION SOLUTIONS continues to grow, adding new products based on a strong foundation of values, technical innovation, high quality, customer satisfaction and of course perseverance.

We at understand very clearly that the backbone of a successful customer relationship is an after-sales service & breakdown service support that responds quickly & efficiently. We uses well qualified factory trained Service Persons / Engineers & Technicians to provide the services to the customers to run their equipments in the most economic & reliable way without any breakdown.

We are customer centric and try to form non-breakable bond with our customers by offering the quality products and services.

PREVENTIVE MAINTENANCE:

In Preventive Maintenance Services we would like to work as "CARETAKER" of a particular equipment & committed to serve at any time to make the equipment free from breakdowns & errors.

CALIBRATION / VALIDATION:

"Calibration" is the process in which the main controlling part of the equipment need to be calibrated against the standard calibration system (ERTL Approved) at the regular interval of days/ Months to make sure that the equipment is working properly according to the guidelines.

In "Validation" the uniformity for the particular equipment is measured under such conditions & at various places within the equipment to make sure the displayed conditions & the internal condition meet the guidelines.

AMC's:

Annual maintenance contracts (Comprehensive and non- Comprehensive) are provided for the equipment to keep it free from irregular breakdowns at any circumstances. We provide AMC's for the Equipments for which we visit the site periodically at regular intervals to inspect the equipment for its functionality & performance.

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We Also Deals In The Following Instruments & Equipments

- Analytical Balances
- Precision / High Precision Balances
- Blood Bank Tube Sealers
- Blood Bank Weighing Scales
- Bulk Density Apparatus
- Colony counters
- Centrifuges
- Plasma Freezers
- CO2 / O2 Incubators
- Automatic Glassware Washers
- COD Digester
- Cyclo Mixer
- Counting Scales
- Waterproof Scales
- Digital / Manual Polarimeter
- Digital Portable Tablet Hardness Tester
- Biological Safety Cabinets
- Digital Multiparameter Hardness Tester
- Digital pH Meters
- Digital Conductivity Meters
- Digital Refractrometer
- Digital / Manual Refractrometer
- Electronic Densimeters
- Industrial / Tabletop / Bench Scales
- Fume Hoods
- Ultrasonic Milk Analyzers
- Hand Held Refractrometer
- Benchtop Refractrometer
- Bunsen Burners
- Industrial / High Temperature Ovens
- Karl Fisher Titrators
- Melting Point Apparatus
- Soxhlet Extraction Unit
- Kjeldahl Digestion & Distillation Unit
- Laboratory Stirrers
- Magnetic Stirrers with Hot Plates
- Platform Scales
- Flocculators / Jar Test Apparatus
- Micro / Semi Micro Balances
- Filter & Pipette Micro Balances
- Moisture Analyzers
- Flame Proof Balances
- Plasma Thawing Baths
- Blood Donor Chair
- Platelet Incubators
- Blood Collection Monitors
- Platelet Agitators
- Multi Parameter Water Quality Meter
- Rota Mantles
- Precision Dissolved Oxygen Meter
- Rotary / Orbital Shakers
- Shaking Water Baths
- Rotary Evaporator
- Sonicators / Ultra Sonic Cleaners
- Sieve Shakers
- UV Inspection Cabinets
- Ice Flake Maker
- Blood Bank Refrigerators
- Split Type Balances
- Industrial Precision Balances
- Universal Water Baths
- Blood Bank Refrigerated Centrifuges
- UV Spectrometers
- Viscosity Meters
- Viscosity Baths
- Portable Autoclaves
- Vortex Mixers
- Visible Spectrometers
- Leak Tester
- Disintegration & Dissolution Testing Apparatus
- Magnetic Stirrers
- Orbital Shaking Incubators

AUTOCLAVE

AUTOCLAVES are designed and fabricated for sterilization under working steam pressure at 121 °C or more up to 15psi to kill micro-organism through the application of saturated steam under pressure to suit various International standards application in the growing field of Medical, Waste Treatment, Agricultural, Institution, Bio-Chemical, Industrial, Research laboratories, Microbiology, Pharmaceuticals QC / QA / R&D and Various Industries

SALIENT FEATURES & TECHNICAL SPECIFICATIONS:

- Double wall design has single chamber for steam and water.
- Fully Automatic operation, cycle begins by press of the START button.
- Initial air purging cycle, at the beginning air is automatically removed from the chamber.
- Microprocessor based Digital Temperature Indicator Controller. Controls temperature & pressure precisely at set value.
- In built adjusted digital timer, programmable as per sterilization load requirement.
- Automatic steam exhaust at the end of cycle.
- Heavy duty industrial flange heater.
- Temperature Sensor: PT-100.
- All parts of stainless steel 304 grade.
- All joints argon welded to avoid steam and pressure leakage.
- Joint less silicon gasket.
- Pressure range: 15 - 17 PSI.
- Temperature Range: 121°C to 125°C
- Lid is made of die pressed Thick Stainless-Steel plate & is equipped with Pressure gauge, Steam release/Exhaust valve & Spring-loaded safety valves.
- Foot lifting arrangement for Lid is included for capacity 100 liters and above.
- Operates on 230 Volts AC Single phase 50 Hz.



SAFETY FEATURES:

- Low water level alarm with Heater Cut-off.

OPTIONAL ACCESSORIES

- Basket.
- Printer Interface.
(1 Temp + 1 Pressure printing or 3 Temp + 1 Pressure Printing)
- High Temp. Safety Controller.
- Pressure cut-off switch.
- Water Level Glass.
- 21 CFR part 11 compliant software.

MODEL	Size in Inches (Dia x Depth)	CAPACITY (Liters)
IS-AT-22	10 x 18	22
IS-AT-35	12 x 20	35
IS-AT-52	14 x 22	52
IS-AT-95	18 x 24	92
IS-AT-120	18 x 30	120
IS-AT-175	22 x 30	175
IS-AT-210	22 x 36	210

BACTERIOLOGICAL INCUBATORS

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.

1) LABORATORY INCUBATOR - (Bottom Heater Type)

SALIENT FEATURES & TECHNICAL SPECIFICATIONS:

- Double wall construction with Inner made of Stainless Steel – 304 Grade & Exterior Mild Steel with powder coat finish (**STD Model**) OR 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 at the bottom, of the unit.
- Temperature Range: **5°C above ambient to 60°C**
- Temperature controlled by Capillary Thermostat with +/- 2°C Accuracy.
- Gravity convection.
- Air Ventilation is provided on the Top / Sides of the unit to remove heat gases and fumes.
- Shelves are made of Galvanized wire mesh.
- Operates on 230 Volts AC Single phase 50 Hz.

MODEL	Size In Inches (WxDxH)	CAPACITY (Liters)	No. Of SHELVES
IS-BI-L28 S / G	12 x 12 x 12	28	2
IS-BI-L45 S / G	14 x 14 x 14	45	2
IS-BI-L95 S / G	18 x 18 x 18	95	2
IS-BI-L125 S / G	18 x 18 x 24	125	3
IS-BI-L225 S / G	24 x 24 x 24	225	3
IS-BI-L340 S / G	24 x 24 x 36	340	4



OPTIONAL ACCESSORIES

- Dual Display Microprocessor based PID Temperature Controller & PT - 100 Sensor with +/- 1°C or better Accuracy.
- Forced Air Circulation System with motorized Blower Arrangement.
- Electronic Digital Timer Range from 0 to 999 Minutes.
- S.S. Rod Shelves.

BACTERIOLOGICAL INCUBATORS

2) BACTERIOLOGICAL INCUBATOR - (Memmert Type)

SALIENT FEATURES & TECHNICAL SPECIFICATIONS:

- Double wall construction with Inner made of Stainless Steel – 304 Grade & Exterior Mild Steel with powder coat finish (STD Model) OR 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°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.

MODEL	Size In Inches (WxDxH)	CAPACITY (Liters)	No. Of SHELVES
IS-BI-M28 S / G	12 x 12 x 12	28	2
IS-BI-M45 S / G	14 x 14 x 14	45	2
IS-BI-M95 S / G	18 x 18 x 18	95	2
IS-BI-M125 S / G	18 x 18 x 24	125	3
IS-BI-M225 S / G	24 x 24 x 24	225	3
IS-BI-M340 S / G	24 x 24 x 36	340	4

OPTIONAL ACCESSORIES:

- Electronic Digital Timer Range from 0 to 999 Minutes.
- PC / Printer Interface.
- 21 CFR part 11 compliant software..

B.O.D. INCUBATORS WITH SHAKER

B.O.D. INCUBATORS WITH SHAKER are designed primarily to meet the requirements for tests of Biological Oxygen Demand / Biochemical Oxygen Demand and equipped for controlled incubation and preservation of sensitive samples / cultures, micro-organism cultures, vaccines & serum incubation shaking 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)
OR 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 a suitable eco-friendly refrigerant.
- Adjustable & removable SS rod type shelves.
- Temperature controlled by Dual Display Microprocessor based PID Temp. Controller with PT – 100 sensor.
- Temperature Range: 5°C to 50°C \pm 0.5°C
- Operates on 230 Volts AC Single phase 50 Hz.
- Continuous operatable "Range 50 to 160/180 RPM Max.
- RPM - 50 to 200/250 RPM Continuously variable & settable
- Shaking - By BRUSHLESS INDUCTION MOTOR with AC Frequency Drive system incorporated with Mechanical set consisting of eccentric, Bearing housing, Counter Balance Fly wheel.

SALIENT FEATURES OF SHAKER:

- ·Efficient Shaking.
- ·Compact counter balance drive mechanism.
- ·Working on eccentric.
- ·Eliminating spring system.
- ·Smooth & Perfect throw.
- ·Highly efficient Brushless Induction Drive Motor.
- ·Electronic AC frequency Drive for smooth RPM Control.
- ·Smooth & Jerkless shaking.
- ·Electronic Digital RPM Indicator & Speed Controller with Pre-set facility.
- ·Castor wheel for easy moveability.
- ·Variable speed from 50 to 250 RPM. Operatable 50 to 160/180 RPM Max.
- ·Interchangeable trays for various size (Optional).

B.O.D. INCUBATORS

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.

MODEL	Internal Size in cm (W x D x H)	CAPACITY		No. of SHELVES
		Cubic Ft.	Liters	
IS-BODS-3 S / G	45 x 45 x 45	3.2	90	2
IS-BODS-4 S / G	45 x 45 x 60	4.3	120	2
IS-BODS-6 S / G	50 x 50 x 70	6.2	175	2
IS-BODS-9 S / G	55 x 55 x 90	9.6	270	3
IS-BODS-11 S / G	60 x 60 x 90	11.4	320	3
IS-BODS-16 S / G	60 x 60 x 125	15.9	450	4

OPTIONAL ACCESSORIES:

- Standby Refrigeration System (Except for 90 Liters.).
- Electronic Digital Timer Range from 0 to 999 Minutes.
- PC / Printer Interface.
- Scanner with 4 / 8 point temperature and sensors and printer interface.
- Servo Controlled Voltage Stabilizer.
- 21 CFR part 11 compliant software.



B.O.D. INCUBATORS

B.O.D. INCUBATORS are designed primarily to meet the requirements for tests of Biological Oxygen Demand / Biochemical Oxygen Demand and equipped for controlled incubation and preservation of sensitive samples / cultures, micro-organism cultures, vaccines & serum incubation shaking 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)
OR 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 a suitable eco-friendly refrigerant.
- Adjustable & removable SS rod type shelves.
- Temperature controlled by Dual Display Microprocessor based PID Temp. Controller with PT – 100 sensor.
- Temperature Range: 5°C to 50°C \pm 0.5°C
- Operates on 230 Volts AC Single phase 50 Hz.
- Continuous operatable "Range 50 to 160/180 RPM Max.
- RPM - 50 to 200/250 RPM Continuously variable & settable
- Shaking - By BRUSHLESS INDUCTION MOTOR with AC Frequency Drive system incorporated with Mechanical set consisting of eccentric, Bearing housing, Counter Balance Fly wheel.

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.



B.O.D. INCUBATORS

MODEL	Internal Size in cm (W x D x H)	CAPACITY		No. of SHELVES
		Cubic Ft.	Liters	
IS-BOD-90 S / G	45 x 45 x 45	3.2	90	2
IS-BOD-120 S / G	45 x 45 x 60	4.3	120	2
IS-BOD-175 S / G	50 x 50 x 70	6.2	175	2
IS-BOD-270 S / G	55 x 55 x 90	9.6	270	3
IS-BOD-324 S / G	60 x 60 x 90	11.4	324	3
IS-BOD-450 S / G	60 x 60 x 125	15.9	450	3
IS-BOD-550 S / G	65 x 65 x 130	20	550	4
IS-BOD-800 S / G	85 x 85 x 112	28	800	4

OPTIONAL ACCESSORIES:

- Standby Refrigeration System (Except for 90 Liters.).
- Electronic Digital Timer Range from 0 to 999 Minutes.
- PC / Printer Interface.
- Scanner with 4 / 8 point temperature and sensors and printer interface.
- Servo Controlled Voltage Stabilizer.
- 21 CFR part 11 compliant software.

COOLING INCUBATORS & PHARMA REFRIGERATORS

COOLING INCUBATORS & PHARMA REFRIGERATORS are of superior quality and precise control designed to serve a wide array of requirements, more specifically to conduct life cycle testing, shelf life studies, general incubation and refrigerated storage of reference standards, raw materials and vaccine storage. These Cooling Incubators guarantee extremely accurate temperature regulation and uniform temperature distribution.

SALIENT FEATURES & TECHNICAL SPECIFICATIONS:

- Double walled construction with backside triple, having Stainless Steel – 304 Grade & Exterior Mild Steel with powder coat finish (STD Model) OR 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.
- Cooling is done by CFC Free Hermetically sealed Emerson Copland make compressors utilizing an eco-friendly refrigerant.
- Adjustable & removable SS rod type shelves.
- Temperature controlled by Dual Display Microprocessor based PID Temp. Controller with PT – 100 sensor.
- Temperature Range: 2°C to 8°C. $\pm 0.5^{\circ}\text{C}$
- Operates on 230 Volts AC Single phase 50 Hz.

SAFETY FEATURES:

- Redundant high temperature safety system with Alarm & safety Thermostat automatically cuts-off power if temperature overshoot and undershoot.
- Inbuilt Overload protection relay for compressor.
- Compressor ON delay timer, to safe guard the compressor.

COOLING INCUBATORS & PHARMA REFRIGERATORS

MODEL	Internal Size in cm (W x D x H)	CAPACITY		No. of SHELVES
		Cubic Ft.	Liters	
IS-CI / PR-90 S / G	45 x 45 x 45	3.2	90	2
IS-CI / PR-120 S / G	45 x 45 x 60	4.3	120	2
IS-CI / PR-175 S / G	50 x 50 x 70	6.2	175	2
IS-CI / PR-270 S / G	55 x 55 x 90	9.6	270	3
IS-CI / PR-320 S / G	60 x 60 x 90	11.4	320	3
IS-CI / PR-450 S / G	60 x 60 x 125	15.9	450	4
IS-CI / PR-550 S / G	65 x 65 x 130	19.4	550	4
IS-CI / PR-800 S / G	85 x 85 x 110	28.0	800	5
IS-CI / PR-1000 S / G	85 x 85 x 140	35.7	1000	5

OPTIONAL ACCESSORIES:

- Standby Refrigeration System (Except for 90 Liters.).
- Electronic Digital Timer Range from 0 to 999 Minutes.
- PC / Printer Interface.
- Scanner with 4 / 8 point temperature and sensors and printer interface.
- Servo Controlled Voltage Stabilizer.
- 21 CFR part 11 compliant software.



DEEP FREEZERS

DEEP FREEZERS are specially designed for storage and preservation needs of Bio-Medical and Pharma industries, Restaurant Kitchen Food, Cold Drinks, Dairy Products. It is suitable for medical and scientific applications (ex. Reagents, biologicals, pharmaceuticals and other commonly used laboratory materials). These freezers are designed with low conductivity insulation and conduction cooling technology ensuring the specimen is preserved even during downtime. These Freezers provide energy efficient, convenient, safe and reliable performance for optimal storage temperature environments necessary for a wide range of Life Science, Pharmacy, Biological, Medical, Clinical and Industrial applications.

SALIENT FEATURES & TECHNICAL SPECIFICATIONS:

- Double walled construction with backside triple, having Stainless Steel – 304 Grade & Exterior Mild Steel with powder coat finish (STD Model) OR 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.
- Cooling is done by High capacity Ultra - Low Temperature Refrigeration system CFC Free Hermetically sealed Emerson Copland make compressors utilizing an eco-friendly refrigerant.
- Adjustable & removable SS rod type shelves.
- Temperature controlled by Dual Display Microprocessor based PID Temp. Controller with PT – 100 sensor.
- Temperature Range: 0°C, -20°C, -40°C and -80°C
- Available in Horizontal and Vertical Models.
- Operates on 230 Volts AC Single phase 50 Hz.

SAFETY FEATURES:

- Inbuilt Overload protection relay for compressor.
- Compressor ON delay timer, to safe guard the compressor.



DEEP FREEZERS

MODEL	Internal Size in cm (W x D x H)	CAPACITY		No. of SHELVES
		Cubic Ft.	Liters	
IS-DF-90 S / G	45 x 45 x 45	3.2	90	2
IS-DF-120 S / G	45 x 45 x 60	4.3	120	2
IS-DF-175 S / G	50 x 50 x 70	6.2	175	2
IS-DF-270 S / G	55 x 55 x 90	9.6	270	3
IS-DF-320 S / G	60 x 60 x 90	11.4	320	3
IS-DF-450 S / G	60 x 60 x 125	15.9	450	4
IS-DF-550 S / G	65 x 65 x 130	19.4	550	4
IS-DF-800 S / G	85 x 85 x 112	28.0	800	5
IS-DF-1000 S / G	85 x 85 x 140	35.7	1000	5

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 /8 point temperature and sensors and printer interface.
- Servo Controlled Voltage Stabilizer.
- 21 CFR part 11 compliant software.

HEATING MANTLE

H **EATING MANTLE** is referred to as a device which is used in laboratories to heat or temper certain media in glass vessels. Due to the various sizes of the glass vessels, the exact amounts of liquids which are necessary can be heated. A heating mantle is used in laboratories for the exact preparation of samples and thus, it is very important that these devices have a high level of functionality and accuracy. A typical heating mantle works with a round-bottom flask which is inserted into a basket made of woven fabric. Inside that round-bottom flask, there is the liquid to be heated or tempered by means of the heating elements which are located in the heating mantle.

The heat-up time is very short which enables laboratory professionals to start their work soon. Another advantage of using a heating mantle is that the heat is distributed very evenly, which means that the danger of hotspots on the flask is eliminated.

MODEL	FLASK CAPACITY	RATING in Watts
IS-HM-1/2	500 ml	200
IS-HM-1	1 Ltr.	300
IS-HM-2	2 Ltrs.	450
IS-HM-3	3 Ltrs.	500
IS-HM-5	5 Ltrs.	600
IS-HM-10	10 Ltrs.	1000
IS-HM-20	20 Ltrs.	1800

OPTIONAL ACCESSORIES:

- Digital PID Controller with external Temperature Sensor Probe.

SALIENT FEATURES & TECHNICAL SPECIFICATIONS:

- Non-rusting Aluminium housing - Powder Coat Finish.
- Thick hand knitted fibre glass netting.
- High density glass wool insulation.
- Temperature controlled by 3 heat switch / Energy regulator.
- Maximum surface Temperature 350°C
- Booster heaters for bigger sizes beyond 10 Liters.
- High grade chrome plated Nichrome heating elements.
- Operates on 230 Volts AC Single phase 50 Hz.



HOT AIR OVENS

Laboratory **HOT AIR OVENS** are utilized for high-force thermal convection applications. Forced Convection Ovens generally provide uniform temperatures throughout. The oven is double-walled to suit various applications in the field of Laboratories, Hospitals, Research Institutions, General Industries, Chemical Industries, Colleges, Medical, Agricultural and Industrial Research for day to day curing, drying & exposures for high temperature testing with high accuracy and superior quality, sterilizing, pre-heating, conditioning, etc.

1) LABORATORY OVEN - (Upper / Bottom Heater Type)

SALIENT FEATURES & TECHNICAL SPECIFICATIONS:

- Double wall construction with Inner made of Stainless Steel – 304 Grade & Exterior Mild Steel with powder coat finish (STD Model) OR 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.
- Temperature controlled by Capillary Thermostat with +/- 2°C Accuracy.
- Gravity convection.
- Air Ventilation is provided on the Top / Sides of the unit to remove heat gases and fumes.
- Shelves are made of Galvanized wire mesh.
- Operates on 230 Volts AC Single phase 50 Hz.

MODEL	Internal Size in Inches (W x D x H)	CAPACITY (LITERS)	No. Of SHELVES
IS-HO-L28 S / G	12 x 12 x 12	28	2
IS-HO-L45 S / G	14 x 14 x 14	45	2
IS-HO-L95 S / G	18 x 18 x 18	95	2
IS-HO-L125 S / G	18 x 18 x 24	125	3
IS-HO-L225 S / G	24 x 24 x 24	225	3
IS-HO-L340 S / G	24 x 24 x 36	340	4



OPTIONAL ACCESSORIES:

- Dual Display Microprocessor based PID Temperature Controller & PT - 100 Sensor with +/- 1°C or better Accuracy.
- 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.

HOT AIR OVENS

2) HOT AIR OVEN - (Memmert Type)

SALIENT FEATURES & TECHNICAL SPECIFICATIONS:

- Double wall construction with Inner made of Stainless Steel – 304 Grade & Exterior Mild Steel with powder coat finish (STD Model) OR 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.
- Food grade Silicon Rubber 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 250°C
- Temperature controlled by Dual Display Microprocessor based PID Temperature Controller with PT - 100 Sensor with +/- 1°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.

SAFETY FEATURES:

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

MODEL	Internal Size in Inches (W x D x H)	CAPACITY (LITERS)	No. Of SHELVES
IS-HO-M28 S / G	12 x 12 x 12	28	2
IS-HO-M45 S / G	14 x 14 x 14	45	2
IS-HO-M95 S / G	18 x 18 x 18	95	2
IS-HO-M125 S / G	18 x 18 x 24	125	3
IS-HO-M225 S / G	24 x 24 x 24	225	3
IS-HO-M340 S / G	24 x 24 x 36	340	4

OPTIONAL ACCESSORIES:

- Electronic Digital Timer Range from 0 to 999 Minutes.
- PC / Printer Interface.
- 21 CFR part 11 compliant software.

HOT PLATE

HOT PLATE is a portable self-contained tabletop small equipment that features one, two or more electric heating elements. A hot plate can have a flat surface, or round surface. In laboratory hot plates are generally designed to heat glassware or its contents, for drying liquids, chemical etc. Hot Plates are commonly used in field of Medical, Industrial, Research laboratories and Hospitals.

SALIENT FEATURES & TECHNICAL SPECIFICATIONS:

- Plates are in Rectangular / Round Shape.
- Top Plate made form Cast Iron with Body made of thick mild steel duly powder coat finished (STD Model).
- Top Plate & Body made of Stainless Steel – 304 Grade in Complete S.S. (GMP model)
- Long Lasting 80/20 Canthal wire coil Elements embedded with porcelain ceramic insulation beads.
- Temperature controlled by Thermostat / 3 Heat Switch / Energy Regulator.
- Max. Surface Temp. is 300°C
- Heat up time 30 min. from ambient.
- Operates on 230 Volts AC Single phase 50 Hz.

1) HOT PLATE - (Round)

MODEL	PLATE SIZE	RATING in Watts
IS-HP-RD8 S / G	8" Dia	1200
IS-HP-RD9 S / G	9" Dia	1500
IS-HP-RD12 S / G	12" Dia	2000

OPTIONAL ACCESSORIES:

- Digital PID Controller with external Temperature Sensor Probe.



2) HOT PLATE - (Rectangular)

MODEL	PLATE SIZE IN INCHES	RATING in Watts
IS-HP-RC1 S / G	10 x 12	1200
IS-HP-RC2 S / G	12 x 12	1500
IS-HP-RC3 S / G	10 x 16	1500
IS-HP-RC4 S / G	12 x 18	2000
IS-HP-RC5 S / G	18 x 24	3000

OPTIONAL ACCESSORIES:

- Digital PID Controller with external Temperature Sensor Probe.



LAMINAR AIR FLOW

LAMINAR AIR FLOW unit is designed with high precision to deliver product protection in critical environments, to provide an ultra-clean work environment which is free from biological and particulate contamination. Air is drawn through a HEPA filter and blown in a very smooth, laminar flow towards the user. Due to the direction of air flow, the sample is protected from the user. The cabinet is usually made of stainless steel with no gaps or joints where spores might collect.

SALIENT FEATURES & TECHNICAL SPECIFICATIONS:

- Full body made of Fully Mild Steel with powder coat finish (STD Model)
- Full body made of Complete Stainless Steel – 304 grade (GMP Model)
- Working Table Top made of Stainless Steel.
- Side panels of thick transparent Acrylic.
- HEPA Filter: Mini Pleat - High Efficiency Particular Air Filter with efficiency 99.97% down 8 on 0.3 micron.
- Pre Filter Efficiency: 95 % down to 5 micron.
- Air Flow Velocity: 90 +/- 20 Feet per minute at discharge.
- Air Circulation: Balanced blowers fitted with direct driven FHP Motor.
- Motor Mounting: Unique spring suspension system with bellow which helps to neutralize vibrations & noise level to minimum.
- Static Pressure Indicator: Oil Filled Manometer.
- Inner chamber Sterilization: Through UV Germicidal tube.
- Inner chamber Illumination: Fluorescent tube light.
- Gas cock provision.
- Additional Power point – 6 Amp.
- Noise Level: < 70 db.
- Castor Wheels for easy movability.
- Operates on 230 Volts AC Single phase 50 Hz.



LAMINAR AIR FLOW

1) LAMINAR AIR FLOW - (Horizontal)

MODEL	WORKING AREA (feet)	HEPA FILTER Dimensions	PRE-FILTER QUANTITY	ILLUMINATION In Watts
IS-LAF-H1 S / G	2 x 2 x 2	24" x 24" x 6"	1	1 x 20
IS-LAF-H2 S / G	3 x 2 x 2	36" x 24" x 6"	1	1 x 20
IS-LAF-H3 S / G	4 x 2 x 2	48" x 24" x 6"	1	1 x 40

2) LAMINAR AIR FLOW - (Vertical)

MODEL	WORKING AREA (feet)	HEPA FILTER Dimensions	PRE-FILTER QUANTITY	ILLUMINATION In Watts
IS-LAF-V1 S / G	2 x 2 x 2	24" x 24" x 6"	1	1 x 20
IS-LAF-V2 S / G	3 x 2 x 2	36" x 24" x 6"	1	1 x 20
IS-LAF-V3 S / G	4 x 2 x 2	48" x 24" x 6"	1	1 x 40

MUFFLE FURNACE

MUFFLE FURNACE in historical usage is a furnace in which the subject material is isolated from the fuel and all of the products of combustion, including gases and flying ash. Furnace finds application in the growing field of Medical, Agricultural, Industrial, Research Laboratories, Metal Treatment & Wool Industries for Ash Determination, Heat treatment, Ignition test, Gravimetric analysis, Determination of volatile and suspended solids & Cement testing.

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.
- Door brick insulation is of HFK Bricks.
- 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 with CR/AL - K Type thermocouple sensor.
- Maximum Temperature: 1200°C
- Heat up time 60 min. up to 1150°C without load.
- Working Temperature Range: 400°C to 1150°C with an accuracy of +/-3°C.
- Operates on 230 Volts AC Single phase 50 Hz..

SAFETY FEATURES:

- Thermal Safety fuse provided to avoid overheating

MODEL	MUFFLE SIZE (H x W x D) in Inches	CAPACITY (Liters)	RATINGS in Watts
IS-MF-2 S / G	4 x 4 x 9	2.30	1800
IS-MF-4 S / G	5 x 5 x 10	4.00	2250
IS-MF-7 S / G	6 x 6 x 12	7.00	3200
IS-MF-12 S / G	8 x 8 x 12	12.50	4000
IS-MF-23 S / G	9 x 9 x 18	23.90	6000

OPTIONAL ACCESSORIES:

- Electronic Digital Timer Range from 0 to 999 Minutes
- PC / Printer Interface
- Venturi Ejector at back as per A.S.T.M for Air Circulation.
- Electronic Solid State Fuse for Safety
- 21 CFR part 11 compliant software..



OIL BATH

OIL BATH is a type of heated bath ideal for reactions, extraction, analysis & other lab tests in a laboratory, most commonly used to heat up chemical reactions. It is essentially a container of oil that is heated by a hot plate or Coil. These baths are commonly used to heat reaction mixtures more evenly than would be possible with a hot plate alone, as the entire outside of the reaction flask is heated.

SALIENT FEATURES & TECHNICAL SPECIFICATIONS:

- Double wall Leak proof argon welded construction with Inner made of Stainless Steel – 304 Grade &
Exterior Mild Steel with powder coat finish (STD Model) OR
Exterior Fully Stainless Steel with Dull Matt finish (GMP Model)
- High density glass wool insulation between walls to minimize the heat loss.
- Temperature Range: 5°C above ambient to 300°C
- Heating is by inversion type heaters.
- Temperature controlled by Capillary Thermostat with +/- 2°C Accuracy.
- Supplied without lid.
- Operates on 230 Volts AC Single phase 50 Hz.

MODEL	FLASK CAPACITY	Working Size (Dia x Ht)	RATINGS in Watts
IS-OB-1 S / G	1 Ltr.	7" x 7"	1000
IS-OB-2 S / G	2 Ltrs.	8" x 8"	1000
IS-OB 3 S / G	3 Ltrs.	9" x 9"	1500
IS-OB-5 S / G	5 Ltrs.	10" x 10"	2000
IS-OB-10 S / G	10 Ltrs.	14" x 14"	2000
IS-OB-20 S / G	20 Ltrs.	16" x 16"	2500



OPTIONAL ACCESSORIES:

- Dual Display Microprocessor based PID Temperature Controller & PT - 100 Sensor with +/- 1°C or better Accuracy.

PHOTO STABILITY CHAMBERS

PHOTO STABILITY CHAMBERS are developed according to meet the ICH & cGMP guidelines for Photo Stability Testing. The chambers closely monitor photogenic effect along with temperature & Humidity for not less than 1.2 million Lux hours and Ultra Violet (UV) source of energy for not less than 200 watts hours/sq. meter on the drug, drug substance & samples. It is design to create Nature Climatic conditions with the help of dry air, refrigeration & built- in Humidity system. This Chambers are basically in application with Pharmaceuticals, & also Electro- Mechanical R&D test to confirm the successful result of the product under test.

SALIENT FEATURES & TECHNICAL SPECIFICATIONS:

- Double walled construction having Stainless Steel – 304 Grade & Exterior Mild Steel with powder coat finish (STD Model) OR 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 Glass door is provided to have a clear inner view of the samples / specimens put in, without disturbing the Thermal Conditions inside the Chamber.
- 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.
- Humidity system with Boiler System and reservoir tank with water level arrangement.
- Cooling is done by CFC Free Hermetically sealed Emerson Copland make compressors utilizing an eco-friendly refrigerant.
- Adjustable & removable SS rod type shelves.
- Temperature controlled by Dual Display Microprocessor based PID Temp. & RH Controllers with PT – 100 sensor & best quality RH sensor.
- Combined light exposure or individual light exposure with automatic light cut off system after exposure is achieved.
- Shelf-mounted light tubes providing direct uninterrupted light to test samples.
- Automatic door open cut off of UV light as a safety measure.
- Operates on 230 Volts AC Single phase 50 Hz.

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.
- Low water level boiler cut-off.
- Automatic door open cut off of UV light as a safety measure.

OPTIONAL ACCESSORIES:

- Standby Refrigeration System (Except for 90 Ltrs.).
- Standby Humidity System (Except for 90 Ltrs.).
- Electronic Digital Timer Range from 0 to 999 Minutes.
- PC / Printer Interface.
- Scanner with 4 / 8 point Temperature and RH with printer interface.
- Servo Controlled Voltage Stabilizer.
- Thermostat or Energy Regulator for High Temperature Safety.
- Cyclic Timer: 0 to 24 hrs. X 7 days cyclic ON / OFF timer for illuminating conditions.

PHOTO STABILITY CHAMBERS

OPERATING RANGES:

Temperature Range	10°C to 60°C
Temperature Accuracy	+/- 0.5°C
Temperature Uniformity	+/- 1°C
Humidity Range	40 % RH to 80% RH
Humidity Accuracy	+/- 2% RH
Humidity Uniformity	+/- 3% RH

MODEL	Internal Size in cm (W x D x H)	CAPACITY		No. of SHELVES
		Cubic Ft.	Liters	
IS-PST-90 S / G	45 x 45 x 45	3.2	90	2
IS-PST-120 S / G	45 x 45 x 60	4.3	120	2
IS-PST-175 S / G	50 x 50 x 70	6.2	175	2
IS-PST-270 S / G	55 x 55 x 90	9.6	270	3
IS-PST-324 S / G	60 x 60 x 90	11.4	324	3
IS-PST-450 S / G	60 x 60 x 125	15.9	450	4
IS-PST-550 S / G	65 x 65 x 130	19.4	550	4
IS-PST-600 S / G	68 x 68 x 130	24	600	4
IS-PST-800 S / G	85 x 85 x 112	28.0	800	5
IS-PST-1000 S / G	85 x 85 x 140	35.7	1000	5



STABILITY CHAMBERS

S**TABILITY CHAMBERS** are perfectly designed for the high requirements of stability studies and climatic tests, these chambers specifically developed to meet stability requirements generating exceptional control and uniformity of both temperature and humidity. Scientific Stability Chamber repeatedly produces required conditions, structural integrity that keeps the chamber working properly through years of demanding test cycles.

The purpose of Stability testing is to provide evidence on how the quality of a drug substance or drug product varies with time under the influence of a variety of environmental factors such as temperature and humidity and to establish a re-test period for the drug substance or product under recommended storage conditions. Hence, these chamber serves as an important quality attribute for the product.

Stability Chambers are designed for testing of Electronic, Electrical components, Corrosion studies on Mechanical parts, Shelf life studies on Paints, in Pharmaceutical & Packaging sector & Other QC Labs, Varnishes and Cement at respective manufacturing facilities.

SALIENT FEATURES & TECHNICAL SPECIFICATIONS:

- Double walled construction having Stainless Steel – 304 Grade & Exterior Mild Steel with powder coat finish (STD Model) OR 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 / Glass door is provided to have a clear inner view of the samples / specimens put in, without disturbing the Thermal Conditions inside the chamber.
- Illumination through fluorescent tubes 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.
- Humidity system with Boiler System and reservoir tank with water level arrangement.
- Cooling is done by CFC Free Hermetically sealed Emerson Copland make compressors utilizing an eco-friendly refrigerant.
- Adjustable & removable SS rod type shelves.
- Temperature controlled by Dual Display Microprocessor based PID Temp. & RH Controllers with PT – 100 sensor & best quality RH sensor.
- Operates on 230 Volts AC Single phase 50 Hz.

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.
- Low water level boiler cut-off.

OPTIONAL ACCESSORIES:

- Standby Refrigeration System (Except for 90 Ltrs.).
- Standby Humidity System (Except for 90 Ltrs.).
- PC / Printer Interface.
- Scanner with 4 / 8 point Temperature and RH with printer interface.
- Servo Controlled Voltage Stabilizer.
- Thermostat or Energy Regulator for High Temperature Safety.

PHOTO STABILITY CHAMBERS

OPERATING RANGES:

Temperature Range	10°C to 60°C
Temperature Accuracy	+/- 0.5°C
Temperature Uniformity	+/- 1°C
Humidity Range	40 % RH to 80% RH
Humidity Accuracy	+/- 2% RH
Humidity Uniformity	+/- 3% RH

MODEL	Internal Size in cm (W x D x H)	CAPACITY		No. of SHELVES
		Cubic Ft.	Liters	
IS-SC-90 S / G	45 x 45 x 45	3.2	90	2
IS-SC-120 S / G	45 x 45 x 60	4.3	120	2
IS-SC-175 S / G	50 x 50 x 70	6.2	175	2
IS-SC-270 S / G	55 x 55 x 90	9.6	270	3
IS-SC-320 S / G	60 x 60 x 90	11.4	320	3
IS-SC-450 S / G	60 x 60 x 125	15.9	450	4
IS-SC-550 S / G	65 x 65 x 130	19.4	550	4
IS-SC-800 S / G	85 x 85 x 112	28.0	800	5
IS-SC-1000 S / G	85 x 85 x 130	35	1000	5



TRAY DRYERS

TRAY DRYERS are specially designed for Pharmaceutical, Food, Chemicals, Paints, Textiles & other industries. It is well accepted for economical drying of the wet products of the Crude drugs, Granules, Powder, Foods, Utensils and Chemicals, also widely used in Agricultural drying because of its simple design and capability to dry products at high volume.

Tray Dryer is the most conventional Dryer used very widely and still being used where the moisture content is more and where the product has to be dried at low temperature for long hours.

SALIENT FEATURES & TECHNICAL SPECIFICATIONS:

- The Construction is double walled, both walls made of CRCA Sheet / Mild Steel.
- Interior is painted with Heat Resistant Aluminium Paint to withstand long duration heating cycles normally required in Industrial applications.
- Exterior body either Powder coated or Painted by long lasting Deco Paint.
- Gap Between the Walls filled with Glass wool insulation to avoid Heat loss
- Insulated Rigid Doors fitted with Strong Hinges with Ball Cage Locking arrangements.
- Brackets to support the heavily laden trays on the sides of Inner chamber.
- Air circulated by Heavy duty blower system to maintain the temperature uniformity throughout the working chamber.
- Tubular Air Heaters placed in the moving air path & Heaters are interlocked with blower.
- Ventilation with adjustable opening on the top facilitates flowing the fumes or vapour produced during the process.
- Control panel having Microprocessor based PID Temperature controller, Ammeter, Volt Meter, Phase Indicating Lamps, Heater ON Indicators, Booster Heater Switch, Motor Switch, Push Buttons.
- Supplied with Aluminium Trays with Size 16" x 32" x 1"
- Operates on 230 Volts AC Single phase 50 Hz / Three Phase.

MODEL	Chamber Size in Inches (W x D x H)	LOAD			No. of DOORS	No. of TRAYS
		100°C	200°C	300°C		
IS-TD28 S	12 x 12 x 12	3 KW	6 KW	12 KW	2	12
IS-TD45 S	14 x 14 x 14	6 KW	9 KW	18 KW	2	24
IS-TD95 S	18 x 18 x 18	12 KW	15 KW	24 KW	2	48

OPTIONAL ACCESSORIES:

- Trolley for Trays.
- Electronic Digital Timer Range from 0 to 999 Minutes.
- S.S. Inner Chamber.
- Complete Stainless-Steel Dryer.
- PC / Printer Interface.
- 21 CFR part 11 compliant software.



VACUUM OVENS

VACUUM OVENS are very versatile type of equipment with applications in Laboratory Research, Engineering, and Industry. A vacuum oven is most often used for delicate processes, such as drying tiny parts without oxidation and residue or removing flammable solvents. The low-pressure environment also minimizes oxidation during drying. Vacuum oven is an ideal choice where, samples are dried in absence of atmosphere (vacuum condition) or presence of inert atmosphere (Argon, Nitrogen, Clean Dry Air).

In Vacuum Ovens, the heat-treating process takes place inside a vessel that is airtight. This allows a vacuum to be drawn inside the vessel. The entire heat-treating process can take place under vacuum or precisely controlled atmospheres can be introduced. The purpose of using vacuum oven is to eliminate surface reactions (condensation or oxidation) on the parts inside the oven.

SALIENT FEATURES & TECHNICAL SPECIFICATIONS:

- Double wall construction with Inner made of Stainless Steel – 304 Grade & Exterior Mild Steel with powder coat finish (STD Model) OR Exterior Fully Stainless Steel with Dull Matt finish (GMP Model)
- High density glass wool insulation between walls to prevent heat dissipation.
- Food grade Silicon door gasket and highly aligned sturdy door fitting.
- Two valves, one for evacuating and other for purging / flushing.
- Heating elements are made of high grade Nichrome wire.
- Temperature Range: 50°C to 200°C
- Temperature controlled by Capillary Thermostat with +/- 2°C Accuracy.
- Vacuum levels are controlled up to 760 MM/Hg.
- Toughened glass window allows clear observation of load.
- Non-perforated Stainless-Steel trays.
- Operates on 230 Volts AC Single phase 50 Hz.

OPTIONAL ACCESSORIES:

- Dual Display Microprocessor based PID Temperature Controller & PT - 100 Sensor with +/- 1°C or better Accuracy.
- Electronic Digital Timer Range from 0 to 999 Minutes.
- Vacuum Pump.
- PC / Printer Interface.
- 21 CFR part 11 compliant software.



VACUUM OVENS

1) VACUUM OVEN - (Round)

MODEL	SIZE in Inches (Dia x Depth)	RATING in Watts	No. of Trays
IS-VO-RD1 S / G	9 x 12	700	2
IS-VO-RD2 S / G	12 x 12	900	2
IS-VO-RD3 S / G	12 x 15	1000	2
IS-VO-RD4 S / G	15 x 18	1100	3

2) VACUUM OVEN - (Rectangular)

MODEL	SIZE in Inches (W x D x H)	RATING in Watts	No. of Trays
IS-VO-RC1 S / G	8 x 8 x 12	1500	2
IS-VO-RC2 S / G	12 x 12 x 16	1750	2
IS-VO-RC3 S / G	14 x 14 x 20	2000	3
IS-VO-RC4 S / G	18 x 18 x 24	2250	3
IS-VO-RC5 S / G	20 x 20 x 30	2500	3
IS-VO-RC6 S / G	24 x 24 x 36	4000	3

WATER BATH

WATER BATH 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. It is also used to enable certain chemical reactions to occur at high temperature.

Water baths are used in Industrial Clinical Laboratories, Academic facilities, Government Research Laboratories, Environmental applications as well as Food Technology and Wastewater plants. Because water retains heat so well, using water baths was one of the very first means of incubation. Applications include warming of reagents, melting of substrates or incubation of cell cultures, sample thawing, bacteriological examinations, warming reagents, coliform determinations and microbiological assays.

1) WATER BATH- (Constant Temperature)

SALIENT FEATURES & TECHNICAL SPECIFICATIONS:

- Double wall Leak proof argon welded construction with Inner made of Stainless Steel – 304 Grade & Exterior Mild Steel with powder coat finish (STD Model) OR Exterior Fully Stainless Steel with Dull Matt finish (GMP Model)
- High density glass wool insulation between walls to minimize the heat loss.
- Heating is done by U shaped / Immersion type heaters.
- Temperature controlled by microprocessor based auto tune PID digital temperature controller with PT - 100 sensor with Temp. Accuracy $\pm 1^{\circ}\text{C}$ or Better.
- Temperature Range: 5°C above ambient to 95°C
- A high-speed stirrer with a motor of 1/20 HP is fitted for better temperature uniformity.
- Toughen glass window on both sides.
- Supplied without Lid.
- Operates on 230 Volts AC Single phase 50 Hz.

MODEL	Chamber Size in Inches	RATING in Watts
IS-WB-CT1 S / G	12 x 10 x 8	1500
IS-WB-CT2 S / G	14 x 12 x 10	2000
IS-WB-CT3 S / G	18 x 14 x 12	2500

OPTIONAL ACCESSORIES:

- Electronic digital Timer Range 0 to 999.
- Low Water level cut off device with suitable sensor for protection of heaters.
- Lid cover.



WATER BATH

2) WATER BATH- (Round)

SALIENT FEATURES & TECHNICAL SPECIFICATIONS:

- Double wall Leak proof argon welded construction with Inner made of Stainless Steel – 304 Grade & Exterior Mild Steel with powder coat finish (STD Model) OR Exterior Fully Stainless Steel with Dull Matt finish (GMP Model)
- High density glass wool insulation between walls to minimize the heat loss.
- Heating is done by U shaped / Immersion type heaters.
- Temperature Range: 5°C above ambient to 99°C
- Temperature controlled by Capillary Thermostat with +/- 2°C Accuracy.
- Supplied without Lid.
- Operates on 230 Volts AC Single phase 50 Hz.

OPTIONAL ACCESSORIES:

- Dual display Microprocessor based PID Temp. Controller with Temp. Accuracy $\pm 1^{\circ}\text{C}$ or Better.
- Low Water level cut off device with suitable sensor for protection of heaters.
- Lid cover.

MODEL	FLASK CAPACITY	Working Size (Dia x Ht)	RATING in Watts
IS-WB-RD1 S / G	1 Ltr.	7" x 7"	500
IS-WB-RD2 S / G	2 Ltrs.	8" x 8"	750
IS-WB-RD3 S / G	3 Ltrs.	9" x 9"	750
IS-WB-RD4 S / G	5 Ltrs.	10" x 10"	1000
IS-WB-RD5 S / G	10 Ltrs.	14" x 14"	1500
IS-WB-RD6 S / G	20 Ltrs.	16" x 16"	2000



WATER BATH

3) WATER BATH- (Rectangular/ Paraffin)

SALIENT FEATURES & TECHNICAL SPECIFICATIONS:

- Double wall Leak proof argon welded construction with Inner made of Stainless Steel – 304 Grade & Exterior Mild Steel with powder coat finish (STD Model) OR Exterior Fully Stainless Steel with Dull Matt finish (GMP Model)
- High density glass wool insulation between walls to minimize the heat loss.
- Heating is done by U shaped / Immersion type heaters.
- Temperature Range: 5°C above ambient to 99°C
- Temperature controlled by Capillary Thermostat with +/- 2°C Accuracy.
- Supplied without Lid.
- Operates on 230 Volts AC Single phase 50 Hz.

OPTIONAL ACCESSORIES:

- Dual display Microprocessor based PID Temp. Controller with Temp. Accuracy ± 1 °C or Better.
- Low Water level cut off device with suitable sensor for protection of heaters.
- Lid with Concentric rings to use flask from 50ml to 500ml capacity.

MODEL	Bath Size in cm (L x W x D)	LID SIZE	RATING in Watts
IS-WB-RC1 S / G	35 x 25 x 10	6 HOLES OF 7.5 cm Dia	1000
IS-WB-RC2 S / G	35 x 25 x 10	12 HOLES OF 7.5 cm Dia	1500



WATER BATH

4) WATER BATH- (Serological / Universal)

SALIENT FEATURES & TECHNICAL SPECIFICATIONS:

- Double wall Leak proof argon welded construction with Inner made of Stainless Steel – 304 Grade & Exterior Mild Steel with powder coat finish (STD Model) OR Exterior Fully Stainless Steel with Dull Matt finish (GMP Model)
- High density glass wool insulation between walls to minimize the heat loss.
- Heating is done by U shaped / Immersion type heaters.
- Temperature Range: 5°C above ambient to 80°C
- Temperature controlled by Capillary Thermostat with +/- 2°C Accuracy.
- Supplied without Lid.
- Operates on 230 Volts AC Single phase 50 Hz.

OPTIONAL ACCESSORIES:

- Dual display Microprocessor based PID Temp. Controller with Temp. Accuracy ± 1 °C or Better.
- Low Water level cut off device with suitable sensor for protection of heaters.
- Lid with Concentric rings to use flask from 50ml to 500ml capacity.

MODEL	Bath Size in cm (L x W x D)	RACKS can be ACCOMMODATE	RATING in Watts
IS-WB-SR1 S / G	10 x 7 x 6	2	500
IS-WB-SR2 S / G	14 x 10 x 6	4	1500
IS-WB-SR3 S / G	18 x 10 x 6	6	2000
IS-WB-SR4 S / G	20 x 12 x 6	8	2500



WATER BATH

5) WATER BATH- (Low Temperature Cryostat)

SALIENT FEATURES & TECHNICAL SPECIFICATIONS:

- Double wall Leak proof argon welded construction with Inner made of Stainless Steel – 304 Grade & Exterior Mild Steel with powder coat finish (**STD Model**)OR Exterior Fully Stainless Steel with Dull Matt finish (**GMP Model**)
- Units are highly insulated by thick PUF insulation between the walls.
- Heating is done by S. S. tubular/ Immersion type heaters.
- Cooling is by hermetically sealed compressors with CFC free refrigerants.
- Temp. Range: **Ambient to 100 °C 0 °C TO 100 °C -20 °C to 100 °C**
-30 °C to 100 °C -40 °C to 100 °C
- Temperature controlled by microprocessor based auto tune PID digital temperature controller with PT - 100 sensor, with Temp. Accuracy ± 1 °C or Better.
- Efficient motor of 1440 RPM top mounted is installed for stirring to get temp uniformity.
- Supplied with Lid.
- Operates on 230 Volts AC Single phase 50 Hz.

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.

MODEL	Bath Size in inches (L x W x D)	CAPACITY
IS-WB-LT1 S / G	10 x 8 x 8	15
IS-WB-LT2 S / G	12 x 10 x 10	30

OPTIONAL ACCESSORIES:

- Electronic Digital Timer Range from 0 to 999 Minutes.
- PC / Printer Interface.
- Servo Controlled Voltage Stabilizer.
- 21 CFR part 11 compliant software.



WALK-IN STABILITY CHAMBERS

WALK-IN STABILITY CHAMBERS are designed for simulating, monitoring & control of environmental conditions like temperature & humidity. All these chambers are medium to large-sized chambers that are custom-built double walled & modular in construction, easy to assemble at site. They are available in standard sizes & can also be tailor made to suit specific requirements. Walk-in Stability Chambers are perfectly designed for the high requirements of stability studies and climatic tests. These Chambers repeatedly produces required conditions, structural integrity that keeps the chamber working properly through years of demanding test cycles. This has also led to huge load reduction on the heating, cooling & humidifier systems.

Walk-in Stability Chambers are designed for testing of Electronic, Electrical components, Corrosion studies on Mechanical parts, Shelf life studies on Paints, in Pharmaceutical & Packaging sector & Other QC Labs, Varnishes and Cement at respective manufacturing facilities.

SALIENT FEATURES & TECHNICAL SPECIFICATIONS:

- Double walled construction having inner Stainless Steel – 304 Grade & Exterior PPGI finish (STD Model) OR Exterior Fully Stainless Steel with Dull Matt finish (GMP Model)
- Pre-fabricated doubled walled modular panels with PUF insulation
- Floor panels having extra reinforcement to sustain the movement and sample load inside the chamber.
- Heavy-duty door hinges and latches to maintain a secure and uniform seal.
- A key lockable Insulated door having magnetic gasket, seals door gaps perfectly.
- vacuum sealed observation glass window
- Illumination through fluorescent tubes for clear visibility for working area.
- Mechanical convection system (Motorized Blower) ensures even air distribution within the chamber.
- Heating by long life 'U' type S.S. Nichrome wire air heaters.
- Humidity system with Boiler System and reservoir tank with water level arrangement.
- Cooling is done by CFC Free Hermetically sealed Emerson Copland make compressors utilizing an eco-friendly refrigerant.
- Facility to open the door from inside in case of door locked with emergency bell having switch inside chamber
- Adjustable & removable Racks & trays made up of Stainless Steel.
- Temperature controlled by Dual Display Microprocessor based PID Temp. & RH Controllers with PT – 100 sensor & best quality RH sensor.
- Operates on 230 Volts AC Single phase 50 Hz.

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.
- Low water level boiler cut-off.

OPTIONAL ACCESSORIES:

- Standby Refrigeration System.
- Standby Humidity System.
- PC / Printer Interface.
- Scanner with 4 / 8 point Temperature and RH with printer interface.
- Servo Controlled Voltage Stabilizer.
- Thermostat or Energy Regulator for High Temperature Safety.
- 21 CFR part 11 compliant software.

WALK-IN STABILITY CHAMBERS

OPERATING RANGES:

Temperature Range	20°C to 60°C
Temperature Accuracy	+/- 1°C
Temperature Uniformity	+/- 2°C
Humidity Range	40 % RH to 90% RH
Humidity Accuracy	+/- 2% RH
Humidity Uniformity	+/- 5% RH

MODEL	Internal Size in cm (W x D x H)	CAPACITY		No. of TRAYS	No. of RACKS
		Cubic Ft.	Liters		
IS-WS-4 S / G	2000 x 1000 x 2000	141.2	4000	12	3
IS-WS-5 S / G	2000x1250x 2000	176.5	5000	16	4
IS-WS-8 S / G	2000x2000x 2000	282.5	8000	24	6
IS-WS-10 S / G	2000x2000x 2500	353.1	10000	32	8
IS-WS-12 S / G	2000x2500x 2500	441.4	12500	36	9
IS-WS-15 S / G	2500x2500x 2400	529.7	15000	48	12
IS-WS-18 S / G	3000 x 3000 x 2000	635.6	18000	50	13
IS-WS-21 S / G	3000 x 2800 x 2500	741.6	21000	60	15



WALK-IN INCUBATORS

WALK-IN INCUBATORS are superior in airflow distribution, temperature control technology. All these chambers are medium to large-sized chambers that are custom-built double walled & modular in construction, easy to assemble at site. They are available in standard sizes & can also be tailor made to suit specific requirements. These Cooling Incubators guarantee extremely accurate temperature regulation and uniform temperature distribution.

Walk-in Incubators are of superior quality and precise control designed to serve a wide array of requirements, more specifically to conduct Life cycle testing, Shelf life studies, General incubation and Refrigerated storage of reference standards, raw materials and vaccine storage.

SALIENT FEATURES & TECHNICAL SPECIFICATIONS:

- Double walled construction having Stainless Steel – 304 Grade & Exterior PPGI finish (STD Model) OR Exterior Fully Stainless Steel with Dull Matt finish (GMP Model)
- Pre-fabricated doubled walled modular panels with PUF insulation
- Floor panels having extra reinforcement to sustain the movement and sample load inside the chamber.
- Heavy-duty door hinges and latches to maintain a secure and uniform seal.
- A key lockable Insulated door having magnetic gasket, seals door gaps perfectly.
- vacuum sealed observation glass window
- Illumination through fluorescent tubes for clear visibility for working area.
- Mechanical convection system (Motorized Blower) ensures even air distribution within the chamber.
- Cooling is done by CFC Free Hermetically sealed Emerson Copland make compressors utilizing an eco-friendly refrigerant.
- Facility to open the door from inside in case of door locked with emergency bell having switch inside chamber
- Adjustable & removable Racks & trays made up of Stainless Steel.
- Temperature controlled by Dual Display Microprocessor based PID Temp. & RH Controllers with PT – 100 sensors.
- Operates on 230 Volts AC Single phase 50 Hz.

SAFETY FEATURES:

- Redundant high temperature safety system with Alarm & safety Thermostat automatically cuts- off power if temperature overshoot and undershoot.
- Inbuilt Overload protection relay for compressor
- Compressor ON delay timer, to safe guard the compressor.

OPERATING RANGES:

Temperature Range	2°C to 8°C
Temperature Accuracy	+/- 1°C
Temperature Uniformity	+/- 2°C

WATER DISTILLER

WATER DISTILLER is an equipment which is used to purify water using distillation process, which is related to first boiling impure water after that collecting condensed water in a separate container. This distilled water is used in Cosmetics and Pharmaceutical production units, Hospitals and Universities, Laboratory, Organic Chemistry Lab, Clinic, Fermentation and Medical Industry etc. It is also used in Autoclave, Battery and miscellaneous equipment.

These units are easy to setup, operate and provide safe distillation method, moreover require almost no maintenance. Special design for easy cleaning, Manesty type (wall mounting) complete unit made of heavy gauge S.S. the stile provides continuous supply of pyrogenic distilled water. Open type condenser for easy cleaning.

SALIENT FEATURES & TECHNICAL SPECIFICATIONS:

- Argon welded construction, unit made of complete Stainless Steel.
- Condenser can be opened easily for periodic cleaning.
- Easy wall mounting with iron bracket.
- Heating is done by Immersion type heaters. Easily replaceable heating elements.
- The lid perfectly rests and get inside the collar on head of the tank which avoids loss of steam and jumping of lid.
- Operates on 230 Volts AC Single phase 50 Hz.

OPTIONAL ACCESSORIES:

- Low Water level cut off device with suitable sensor for protection of heaters.

MODEL	CAPACITY	RATING in Watts
IS-WD-2	2 Ltrs.	1000
IS-WD-4	4 Ltrs.	1000
IS-WD-6	6 Ltrs.	1500
IS-WD-8	8 Ltrs.	2000
IS-WD-10	10 Ltrs.	2000
IS-WD-20	20 Ltrs.	2500



WALK-IN INCUBATORS

OPTIONAL ACCESSORIES:

- Standby Refrigeration System.
- Electronic Digital Timer Range from 0 to 999 Minutes.
- PC / Printer Interface.
- Scanner with 4 / 8 point Temperature and RH with printer interface.
- Servo Controlled Voltage Stabilizer.
- Thermostat or Energy Regulator for High Temperature Safety.
- 21 CFR part 11 compliant software.

MODEL	Internal Size in cm (W x D x H)	CAPACITY		No. of TRAYS	No. of RACKS
		Cubic Ft.	Liters		
IS-WI-4 S / G	2000 x 1000 x 2000	141.2	4000	12	3
IS-WI-5 S / G	2000x1250x 2000	176.5	5000	16	4
IS-WI-8 S / G	2000x2000x 2000	282.5	8000	24	6
IS-WI-10 S / G	2000x2000x 2500	353.1	10000	32	8
IS-WI-12 S / G	2000x2500x 2500	441.4	12500	36	9
IS-WI-15 S / G	2500x2500x 2400	529.7	15000	48	12
IS-WI-18 S / G	3000 x 3000 x 2000	635.6	18000	50	13
IS-WI-21 S / G	3000 x 2800 x 2500	741.6	21000	60	15



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