

JS LAB INSTRUMENTS INDIA

MANUFACTURER OF SCIENTIFIC INSTRUMENTS & LABORATORY, HOSPITAL EQUIPMENTS.

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ABOUT US

JS LAB INSTRUMENTS INDIA was established as a sole proprietorship firm in the year 2008. The company is involved in manufacturing and supplying a comprehensive array of scientific & lab instruments. Our products are Hot Air Oven, Incubator, Water Bath, Deep Freezer, Autoclave, Lyophilizer, Freeze dryer, Laminar Airflow, Seed Germinator and many more. We designed and develop these products according to the specifications of client as well as using superior quality raw material. The material we use in the development of our range is sourced from the well known and reliable vendors of industry, selected after conducting careful market surveys. Moreover, we have kept ourselves ahead of close business competitors by incorporating latest technique as well as methods in our production methods. It is our quality delivery of products that we have achieved the trust of vast clientele and expanded our base. Client appreciated our products for their matchless quality and features as a result we are getting repeated orders from our respected clientele. Our company has hired a highly talented and knowledgeable team of professionals, which are considered as the strength of our organization. We make selection of our team on the basis of their rich industrial experience; knowledge as well as efficiency and job are assigned to them accordingly. Our team encompasses designers, technicians, production personnel, research and development experts, engineers, quality controllers, administrative personnel, sales and marketing personnel, warehousing and packaging experts and many others. We have set-up an advanced and highly sophisticated infrastructural set-up, where we carry all our business activities efficiently, thus ensure to deliver products on-time. Our infrastructure spread across a wide area and is properly categorized into various departments such as designing, production, administrative, research and development, sales and marketing, logistics, quality control, warehousing and packaging and many others. It is due to the support of our highly advanced infrastructural set-up that we are successfully carrying our operations as well as meeting the requirements of our clients' on-time. Under the astute guidelines of our honorable proprietor Mr. Jitender Kumar, we are successful in establishing a desirable position in the industry. With his sharp business insight, rich industrial experience and ethical working approach, our company has been able to establish a distinct position in the industry. We are vibrantly working towards the exploration of innovative ideas and technologies for our product development and services. We always set ourselves forward in implementing internationally acclaimed Quality Policies so as to make our products to be the best in Quality. Our products are highly affordable to customers, as we quote our prices reasonably in order to keep our customers with us at every time.

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1. STEAM STERILIZER VERTICAL AUTOCLAVE (JS-VA-001)

DESCRIPTION : SS 304 and is triple walled. The jacket outside the inner chamber is made of SS 304. The unit is complete in all respect with an automatic water inlet valve, temperature controller cum indicator, pressure stat, and automatic water level Indicator, and mechanical timer.

FEATURES :

- **Double & Triple Walled Construction:** Features an SS 316 inner chamber with an SS 304 outer body and jacket construction.
- **Durable Components:** Built with stainless steel supporting rings, legs, heater cover with stand, and internal stainless steel buckets.
- **Heavy-Duty Lid:** Thick machined S.S. plate lined with stainless steel on the inside.
- **Safety & Control Mechanisms:** Equipped with a pressure gauge, spring-loaded safety valve, manual exhaust valve, pressure control switch, and low water level cut-off system.
- **Automation & Indicators:** Includes an automatic water inlet valve, digital temperature controller-cum-indicator, mechanical timer, and water level indicator.
- **Sealing & Welding:** Uses a high-grade silicone rubber gasket with all internal joints argon arc welded.
- **Easy Maintenance:** Fitted with a drain valve to facilitate chamber cleaning.
- **Pressure Range:** 15 psi to 22 psi
- **Power Supply:** 220/230 Volts, 50/60 Hz AC

SIZE OPTIONS : DOUBLE & TRIPLE WALLED VERTICAL AUTOCLAVE

MODEL NO.	SIZE OF INNER CHAMBER	CAPACITY	LOAD
JS-VA-001A	10 X 18"	22 LTR	2.00 10/V
JS-VA-001B	12 X 20"	40 LTR	3.00 10/V
JS-VA-001C	14 X 22"	50 LTR	2.00 10/V
JS-VA-001D	16 X 24"	75 LTR	4.00 10/V
JS-VA-001E	18 X 24"	100 LTR	4.00 10/V
JS-VA-001F	20 X 30"	150 LTR	6.00 10/V
JS-VA-001G	22 X 30"	180 LTR	6.00 10/V

* CUSTOMIZED SIZE AVAILABLE *

IMAGE OF VERTICLE AUTOCLAVE (DOUBLE AND TRIPLE WALL)



Double Wall Vertical Semi & Fully Automatic



Triple Wall Vertical Semi & Fully Automatic

2. STEAM STERILIZER HORIZONTAL RECTANGULAR AUTOCLAVE (JS-RA-002)

DESCRIPTION : A heavy-duty double-walled horizontal steam sterilizer mounted on a sturdy mild steel (duly painted) or stainless steel tubular stand. Designed for effective sterilization using high-pressure steam, featuring a durable construction and precise temperature control system.

FEATURES :

- Material & Construction:** Complete inner chamber, outer body, and lid fabricated from heavy-gauge SS-304 grade stainless steel with organ-welded joints. Fitted with a durable Silicon/Neoprene rubber gasket.
- Temperature Control:** Advanced microprocessor-based P.I.D. controller-cum-indicator for accurate temperature management. Temperature range is adjustable from ambient to 121°C in steps of 1°C.
- Safety & Components:** Features a secure radial locking system, pressure gauge, safety valve, vacuum breaker, steam release valve, drain valve, and water level indicator.
- Pressure Range:** Operates at 15–20 PSI with an automatic pressure control device (hydraulically tested up to 15–20 PSI).
- Power Supply:** 230V AC (50/60Hz) Single Phase or 430/440V, 3 Phase.

SIZE OPTIONS : HORIZONTAL RECTANGULAR FULLY & SEMI AUTOCLAVE

MODEL NO.	SIZE OF INNER CHAMBER	CAPACITY	LOAD
JS-RA-002A	400 X 400 X 470 MM	75 LTR	9 KW
JS-RA-002B	450 X 450 X 500 MM	100 LTR	9 KW
JS-RA-002C	450 X 450 X 680 MM	138 LTR	9 KW
JS-RA-002D	450 X 450 X 750 MM	150 LTR	9 KW
JS-RA-002E	450 X 450 X 900 MM	180 LTR	18 KW
JS-RA-002F	450 X 600 X 900 MM	240 LTR	18 KW
JS-RA-002G	600 X 600 X 900 MM	320 LTR	18 KW
JS-RA-002H	600 X 600 X 1200 MM	430 LTR	18 KW
JS-RA-002I	600 X 760 X 1500 MM	680 LTR	27 KW
JS-RA-002J	600 X 900 X 1500 MM	810 LTR	36 KW
JS-RA-002K	900 X 900 X 1200 MM	972 LTR	36 KW
JS-RA-002L	900 X 1050 X 2100 MM	1980 LTR	48 KW
JS-RA-002M	1050 X 1200 X 2100 MM	2600 LTR	72 KW
JS-RA-002N	1200 X 1200 X 1800 MM	2500 LTR	90 KW

* CUSTOMIZED SIZE AVAILABLE *



Semi Automatic



Fully Automatic

3. STEAM STERILIZER HORIZONTAL CYLINDRICAL AUTOCLAVE (JS-HA-003)

DESCRIPTION : A heavy-duty double-walled horizontal steam sterilizer mounted on a sturdy mild steel (duly painted) or stainless steel tubular stand. Designed for effective sterilization using high-pressure steam, featuring a durable construction and precise temperature control system.

FEATURES

- **Material & Construction:** Complete inner chamber, outer body, and lid fabricated from heavy-gauge SS-304 grade stainless steel with organ-welded joints. Fitted with a durable Silicon/Neoprene rubber gasket.
- **Temperature Control:** Advanced microprocessor-based P.I.D. controller-cum-indicator for accurate temperature management. Temperature range is adjustable from ambient to 121°C in steps of 1°C.
- **Safety & Components:** Features a secure radial locking system, pressure gauge, safety valve, vacuum breaker, steam release valve, drain valve, and water level indicator.
- **Pressure Range:** Operates at 15–20 PSI with an automatic pressure control device (hydraulically tested up to 15–20 PSI).
- **Power Supply:** 230V AC (50/60Hz) Single Phase or 430/440V, 3 Phase.

SIZE OPTIONS : HORIZONTAL CYLINDRICAL FULLY & SEMI AUTOCLAVE

MODEL NO.	SIZE OF INNER CHAMBER	CAPACITY	LOAD
JS-HA-003A	400 X 600 MM	75 LTR	6.00 KW
JS-HA-003B	450 X 600 MM	100 LTR	6.00 KW
JS-HA-003C	400 X 1100 MM	138 LTR	12.00 KW
JS-HA-003D	400 X 1200 MM	150 LTR	12.00 KW
JS-HA-003E	500 X 900 MM	175LTR	12.00 KW
JS-HA-003F	500 X 1200 MM	235 LTR	12.00 KW
JS-HA-003G	550 X 1250 MM	300 LTR	12.00 KW
JS-HA-003H	600 X 1200 MM	340 LTR	12.00 KW
JS-HA-003I	650 X 1200 MM	400 LTR	12.00 KW

*** CUSTOMIZED SIZE AVAILABLE ***

IMAGE OF HORIZONTAL CYLINDRICAL AUTOCLAVE
(FULLY AND SEMI AUTOMATIC)



Semi Automatic



Fully Automatic

4. PORTABLE ALUMINIUM / STEEL

AUTOCLAVE (Six Wing Nut Type) (JS-PA-004)

DESCRIPTION : A portable, heavy-duty aluminium steam sterilizer designed for efficient sterilization of surgical instruments, dressings, and laboratory glassware. Built with a seamless body and a six-wing nut locking mechanism to ensure leak-proof high-pressure operations.

FEATURES :

- Material & Finish:** High-grade aluminum construction with a smooth mirror finish for easy cleaning and durability.
- Sealing Mechanism:** Equipped with 6 heavy-duty wing nuts and a food-grade rubber gasket for an airtight lock.
- Safety & Monitoring:** Fitted with a precision pressure gauge, primary safety valve, double safety valve, steam release valve, and vacuum release valve.
- Accessories Included:** Comes with an inner container, inner tripod stand, and a sturdy mild steel outer base stand.
- Operation Options:** Available in both Electrical (heating element) and Non-Electrical (gas/external heat) variants.

SIZE OPTIONS : Portable Aluminium / Steel Autoclave (Six Wing Nut Type)

MODEL NO.	SIZE	CAPACITY	LOAD
JS-PA-004A	12" X 12"	21 LTR	6.00 KW
JS-PA-004B	12" X 14 "	25 LTR	6.00 KW
JS-PA-004C	12" X 15 "	27 LTR	12.00 KW
JS-PA-004D	12" X 16 "	30 LTR	12.00 KW
JS-PA-004E	14" X 15"	39 LTR	12.00 KW



* CUSTOMIZED SIZE AVAILABLE *

5. PRESSURE COOKER TYPE AUTOCLAVES (JS-PC-005)

1. ALUMINIUM 'P' TYPE (STANDARD)



IMAGE 1



IMAGE 2

MODELS: (Specific variations by size)

- Standard cooker-style lid design
- Seamless aluminium with mirror finish
- Both Electrical & Non-Electrical variants
- Wide model range

Capacity Range:
6 Liters to 50 Liters

2. ALUMINIUM DOUBLE DRUM TYPE



IMAGE 1



IMAGE 2

MODELS: (Dual-drum specific models)

- Deep chamber for 2 dressing drums
- Ideal for high-volume sterilization
- Available in Electrical & Non-Electrical

Capacity Range:
32 Liters to 110 Liters

* CUSTOMIZED SIZE AVAILABLE *

3. ALUMINIUM DIGITAL CONTROLLER TYPE



IMAGE 1



IMAGE 2

MODELS: (Digital control series)

- Fully automatic operation
- Digital temperature & timer display
- Cycle-end alarm & low-water cutoff
- Only Electrical variant

Capacity Range:
75 Liters to 110 Liters

4. STAINLESS STEEL 'P' TYPE



IMAGE 1



IMAGE 2

MODELS: (Premium SS models)

- Premium SS construction (rust-proof)
- Enhanced durability & longevity
- Cooker-style twist locking lid
- Both Electrical & Non-Electrical

Capacity Range:
5 Liters to 40 Liters

6. LOW TEMPERATURE ETO STERILIZER (JS-ETO-006)

DESCRIPTION : A portable, heavy-duty aluminium steam sterilizer designed for efficient sterilization of surgical instruments, dressings, and laboratory glassware. Built with a seamless body and a six-wing nut locking mechanism to ensure leak-proof high-pressure operations.

FEATURES :

- **Material & Finish:** Heavy-duty Jindal SS 304/316 grade inner chamber and Jindal SS 304 outer body for maximum durability and chemical resistance.
- **Sealing & Insulation:** Equipped with a high-grade silicon gasket for airtight sealing and 25mm high-density glass wool insulation for superior thermal efficiency.
- **Safety & Control System:** Built with Delta PLC controller, Delta HMI touchscreen interface, Janatics pneumatic valves, and Thermotech precision sensors with Mass vacuum gauge monitoring.
- **Operation Options:** Fully automatic one-touch operation including automated sterilization, aeration cycle, and safety password command locks.
- **Included Components:** Matrix compressor, ARIT heater, Janatics air cylinder, and built-in material loading trolley system.



*** CUSTOMIZED SIZE AVAILABLE ***

7. HOT AIR OVEN (Digital) (JS-HAO-007)

DESCRIPTION : A double-walled digital hot air oven designed for precise heat treatment, drying, and sterilization applications. Built with a stainless steel inner chamber, epoxy powder-coated outer body, and thick glass/mineral wool insulation to prevent heat loss during high-temperature operations.

FEATURES :

- Material & Finish:** Stainless Steel (S.S.) inner chamber and Mild Steel (M.S.) outer body with epoxy powder coating paint for enhanced durability.
- Sealing & Insulation:** Double-walled construction insulated with thick glass wool/mineral wool to avoid heat loss.
- Safety & Control System:** Microprocessor-based Digital Temperature Controller cum Indicator with a temperature range of 50°C to 250°C ($\pm 1^\circ\text{C}$ accuracy) and a thermostat-based safety device.
- Operation Options:** Top-mounted vents on both sides for air circulation and adjustable, sliding stainless steel perforated/wire rod shelves for customizable loading.
- Included Components:** Fitted with Indian plug, operating on 220–230 Volts AC, 50/60 Hz power input.

SIZE OPTIONS : HOT AIR OVEN

MODEL NO.	SIZE OF INNER CHAMBER	LOAD
JS-HAO-007A	300 x 300 x 300 MM	0.75 KW
JS-HAO-007B	355 x 355 x 355 MM	0.75 KW
JS-HAO-007C	455 x 455 x 455 MM	1.50 KW
JS-HAO-007D	455 x 455 x 605 MM	1.50 KW
JS-HAO-007E	605 x 605 x 605 MM	2.25 KW
JS-HAO-007F	605 x 455 x 910 MM	2.25 KW
JS-HAO-007G	605 x 605 x 910 MM	2.25 KW
JS-HAO-007H	605 x 910 x 910 MM	3.75 KW
JS-HAO-007I	910 x 910 x 910 MM	4.5 KW



*** CUSTOMIZED SIZE AVAILABLE ***

8. HIGH TEMPERATURE OVEN (JS-HTO-008)

DESCRIPTION : A triple-walled high temperature hot air oven designed for precise heat treatment, drying, and high-temperature sterilization applications up to 300 °C. Built with a durable mild steel or stainless steel inner chamber, an epoxy powder-coated outer body, and enhanced insulation to prevent heat loss during high-temperature operations.

FEATURES :

- Material & Finish:** Stainless Steel (S.S.) or Mild Steel (M.S.) inner chamber and Mild Steel (M.S.) outer body with epoxy powder coating paint for enhanced durability.
- Sealing & Insulation:** Triple-walled construction insulated with high-grade glass wool/mineral wool to avoid heat loss and maintain thermal efficiency.
- Safety & Control System:** Microprocessor-based Digital Temperature Controller cum Indicator with a temperature range of 50°C to 300°C ($\pm 3^{\circ}\text{C}$ accuracy) and a thermostat-based safety device.
- Operation Options:** Top-mounted vents on both sides for efficient air circulation and adjustable, sliding stainless steel perforated/wire rod trays for customizable loading.
- Included Components:** Fitted with standard Indian plug, operating on 220–230 Volts AC, 50/60 Hz power input.

SIZE OPTIONS : HIGH TEMPERATURE OVEN

MODEL NO.	SIZE OF INNER CHAMBER	LTR	TRAY
JS-HTO-008A	355 x 355 x 355 MM	45	2
JS-HTO-008B	455 x 455 x 455 MM	95	2
JS-HTO-008C	455 x 455 x 605 MM	125	2
JS-HTO-008D	605 x 605 x 605 MM	224	2
JS-HTO-008E	605 x 605 x 910 MM	336	3



* CUSTOMIZED SIZE AVAILABLE *

9. INDUSTRIAL DRYING OVEN (JS-IDO-009)

DESCRIPTION : An industrial-grade heavy-duty drying oven designed for large-scale moisture removal, baking, preheating, and thermal processing applications. Engineered with high-capacity loading options, robust double-walled construction, and efficient air circulation to ensure uniform temperature distribution across large volume chambers.

FEATURES :

- **Material & Construction:** Heavy-duty double-walled body constructed with high-grade sheet metal, featuring durable Mild Steel (M.S.) internal shelves/trays for high load-bearing capacity.
- **Temperature & Safety Control:** Microprocessor-based Digital Temperature Controller cum Indicator with precise thermal monitoring and over-temperature protection.
- **Air Circulation & Heating:** Top/side-mounted forced air circulation system ensuring uniform heating throughout large chamber sizes.
- **High Load Capacity:** Designed for industrial applications with electrical heating load support ranging from 5 KW up to 18 KW depending on the chamber volume.
- **Operation & Loading:** Double-door opening system for easy loading/unloading of heavy industrial items, fitted with sturdy handles and sealing gaskets to prevent heat loss.

SIZE OPTIONS : INDUSTRIAL DRYING OVEN

MODEL NO.	SIZE OF INNER CHAMBER	LTR	TRAY
JS-IDO-009A	3' x 2' x 3' Feet	510	2
JS-IDO-009B	3' x 3' x 3' Feet	765	2
JS-IDO-009C	3' x 3' x 4' Feet	1020	2
JS-IDO-009D	3' x 2' x 5' Feet	850	2
JS-IDO-009E	3' x 2' x 6' Feet	1020	3
JS-IDO-009F	3' x 3' x 6' Feet	1530	3
JS-IDO-009G	3' x 3' x 8' Feet	2040	3
JS-IDO-009H	4' x 3' x 8' Feet	2720	3
JS-IDO-009I	4' x 6' x 4' Feet	2720	3



*** CUSTOMIZED SIZE AVAILABLE ***

10. THERMOSTATIC LABORATORY OVEN (JS-TMO-010)

DESCRIPTION : A general-purpose thermostatic laboratory oven designed for daily drying, baking, conditioning, and routine laboratory heat treatment applications. Engineered with a double-walled body and precise mechanical temperature regulation, featuring an L-shaped thermometer for accurate temperature readouts.

FEATURES :

- **Temperature Control System:** Fully thermostat-controlled heating mechanism featuring a precision L-shaped thermometer for accurate temperature rating and visual monitoring.
- **Material & Insulation:** Double-walled outer body with high-density glass wool insulation to prevent thermal loss and ensure outer body safety.
- **Internal Chamber & Trays:** Standard interior setup fitted with removable, adjustable trays (2 to 3 trays depending on model volume) for convenient specimen arrangement.
- **Power Efficiency:** Low power consumption design with electrical heating loads ranging from 0.75 KW to 2.25 KW across various chamber capacities (28 Ltrs to 336 Ltrs).
- **Operation & Safety:** Front door fitted with heavy-duty hinges, secure latch mechanism, and bottom-mounted control panel with power switches and indicator lights.

SIZE OPTIONS : THERMOSTATIC LABORATORY OVEN

MODEL NO.	SIZE OF INNER CHAMBER	LTR	TRAY
JS-TMO-010A	300 x 300 x 300 MM	28	2
JS-TMO-010B	355 x 355 x 355 MM	45	2
JS-TMO-010C	455 x 455 x 455 MM	95	2
JS-TMO-010D	455 x 455 x 605 MM	125	2
JS-TMO-010E	605 x 605 x 605 MM	224	2
JS-TMO-010F	605 x 455 x 910 MM	252	3
JS-TMO-010G	605 x 605 x 910 MM	336	3



* CUSTOMIZED SIZE AVAILABLE *

11. VACUUM OVEN (JS-VO-011)

DESCRIPTION : A specialized laboratory vacuum oven engineered for drying heat-sensitive, delicate, or easily oxidizable materials under negative pressure. Designed to lower the boiling point of solvents and moisture, allowing safe, uniform, and low-temperature thermal processing.

FEATURES

- Temperature Control System:** Microprocessor-based P.I.D. controller cum indicator for accurate temperature management within an ambient +5 °C to 150 °C range (± 2 °C accuracy).
- Sealing & Viewing Window:** Chamber closed by a thick toughened glass plate sealed securely against a durable neoprene rubber gasket for airtight performance and clear inner visibility.
- Vacuum Instrumentation:** Integrated precision vacuum gauge for real-time chamber pressure monitoring along with dedicated vacuum release valves.
- Control Interface & Indicators:** Front control panel fitted with mains ON/OFF switch, heating status indicator lamps, and temperature controller.
- Chamber Loading:** Standard interior equipped with removable trays (1 to 2 trays depending on chamber dimensions and capacity).

SIZE OPTIONS : VACUUM OVEN

MODEL NO.	SIZE OF INNER CHAMBER	LTR	TRAY
JS-VO-011A	250 x 250 x 250 MM	15	1
JS-VO-011B	250x 250 x 300 MM	18	1
JS-VO-011C	300 x 300x 300 MM	27	1
JS-VO-011D	300 x 300 x 450 MM	40	1
JS-VO-011E	300 x 300 x 300 MM	28	1
JS-VO-011F	355 x 355 x 355 MM	45	1
JS-VO-011G	455 x 455 x 455 MM	95	2
JS-VO-011H	610 x 610 x 610 MM	224	2



* CUSTOMIZED SIZE AVAILABLE *

12. TRAY DRYING OVEN (JS-TDA-012)

DESCRIPTION : A high-efficiency tray drying oven engineered for uniform drying, baking, and moisture removal applications in pharmaceutical, chemical, food, and industrial laboratories. Designed with adjustable sliding trays, precise P.I.D. temperature control, and built-in safety mechanisms for reliable continuous operation.

FEATURES

- **Temperature & Control System:** Microprocessor-based P.I.D. Controller cum Indicator offering a temperature range of 50°C to 250°C (±5°C accuracy) for precise thermal rating.
- **Tray & Loading Options:** Comes standard with adjustable and sliding Aluminum trays 800 X 400 X 30MM, with optional Stainless Steel (S.S.) trays available upon request.
- **Safety System:** Integrated thermostat-based safety device to prevent over-temperature risks and protect samples.
- **Power Supply:** Operates on 220–230 Volts AC, 50/60 Hz single-phase or 440 Volts AC three-phase supply, depending on oven size and heating load.
- **Chamber Construction:** Heavy-duty double-walled body insulated to retain heat efficiently and maintain optimal process control.

SIZE OPTIONS : TRAY DRYING OVEN

MODEL NO.	SIZE OF INNER CHAMBER	LTR	TRAY
JS-TDA-012A	355 x 355 x 355 MM	45+45	2
JS-TDA-012B	455 x 455 x 455 MM	95+95	2
JS-TDA-012C	455 x 455 x 605 MM	125+125	2
JS-TDA-012D	605 x 605 x 605 MM	224+224	2



*** CUSTOMIZED SIZE AVAILABLE ***

13. INCUBATOR COMBINED OVEN (JS-ICO-013)

DESCRIPTION : A versatile dual-chamber laboratory instrument combining a high-temperature hot air oven and a low-temperature incubator in a single vertical unit. Engineered to perform simultaneous drying/sterilization and incubation processes in research labs, healthcare, pharmaceuticals, and biological testing, saving valuable laboratory floor space.

FEATURES :

- **Dual Temperature Control System:**
 - i. **Oven Chamber:** Operating range of 50°C to 250°C ($\pm 1^\circ\text{C}$ accuracy) for high-temperature drying and sterilization.
 - ii. **Incubator Chamber:** Operating range of Ambient +5°C to 70°C ($\pm 1^\circ\text{C}$ accuracy) for low-temperature incubation and tissue culture processes.
- **Dual Independent Chambers:** Two separate stacked compartments with individual doors and independent temperature control panels for parallel operations without heat interference.
- **Construction & Material:** Double-walled outer body with high-grade insulation to prevent thermal loss between chambers and keep outer body surfaces cool.
- **Inner Setup & Loading:** Standard interior equipped with removable/adjustable trays (2 trays per section) for versatile loading of flasks, petri dishes, and test samples.
- **Power Efficiency:** Balanced electrical heating load options (ranging from 1.25 KW to 3.75 KW based on total dual-chamber volume) to handle both functions efficiently.

SIZE OPTIONS : INCUBATOR COMBINED OVEN

MODEL NO.	SIZE OF INNER CHAMBER	LTR	TRAY
JS-ICO-013A	355 x 355 x 355 MM	45+45	2
JS-ICO-013B	455 x 455 x 455 MM	95+95	2
JS-ICO-013C	455 x 455 x 605 MM	125+125	2
JS-ICO-013D	605 x 605 x 605 MM	224+224	2



* CUSTOMIZED SIZE AVAILABLE *

14. LABORATORY BACTERIOLOGICAL INCUBATOR (Digital) (JS-LBI-014)

DESCRIPTION : A digital laboratory bacteriological incubator engineered for controlled incubation, cell culture growth, microbiology studies, and thermal processing. Designed with a double-walled construction, a Stainless Steel (S.S.) inner chamber, and forced air circulation to ensure uniform heat distribution and precise temperature stability.

FEATURES :

- Material & Construction:** Double-walled body featuring a corrosion-resistant Stainless Steel (S.S.) inner chamber, Mild Steel (M.S.) outer body, and thick glass wool/mineral wool insulation between walls to prevent heat loss.
- Temperature & Digital Control:** Microprocessor-based digital temperature controller providing accurate thermal control with an operating range from a few degrees above ambient to 60°C (±1°C accuracy).
- Air Circulation & Heating:** Equipped with forced convection air circulation via blowers and motors for superior air mixing and dispersion, powered by heavy-duty tubular U-type air heaters.
- Shelves & Door Sealing:** Includes adjustable, sliding Stainless Steel perforated/wire rod shelves and a tight-fitting door sealed with a synthetic rubber gasket.
- Power Input & Accessories:** Operates on 220–230 Volts AC, 50/60 Hz power input with a standard Indian plug. Optional accessories include PID controller, timer, air cooling fan, and microprocessor-based digital timer with LED display.

SIZE OPTIONS : LABORATORY BACTERIOLOGICAL INCUBATOR (Digital)

MODEL NO.	SIZE OF INNER CHAMBER	LTR	TRAY
JS-LBI-014A	300 x 300 x 300 MM	28	2
JS-LBI-014B	355 x 355 x 355 MM	45	2
JS-LBI-014C	455 x 455 x 455 MM	95	2
JS-LBI-014D	455 x 455 x 605 MM	125	2
JS-LBI-014E	605 x 605 x 605 MM	224	2
JS-LBI-014F	605 x 455 x 910 MM	252	3
JS-LBI-014G	605 x 605 x 910 MM	336	3



* CUSTOMIZED SIZE AVAILABLE *

15. DRY BATH INCUBATOR (JS-DBI-015)

DESCRIPTION : A compact, digital bench-top dry bath incubator designed for precise heating and controlled sample incubation without using water. Ideal for molecular biology, clinical diagnostics, and laboratory heating applications, featuring an easy-to-read LCD screen for real-time monitoring of process parameters.

FEATURES :

- **Digital Display:** Clear LCD screen providing visual indication of all operational parameters during running.
- **Block Specifications:** Standard block size of $100\text{mm} \times 80\text{mm} \times 50\text{mm}$ designed for uniform thermal transfer.
- **Multi-Tube Capacity:** Holds up to 24 micro centrifuge tubes simultaneously 1.5ml x 8 tubes, 2.0ml x 8 tubes, and 0.5ml x 8 tubes.
- **Compact Dimensions:** Space-saving footprint with overall dimensions of 130mm x 240mm x 100mm.
- **Power Supply:** Operates on 220–230 Volts AC, 50/60 Hz power input fitted with a standard Indian plug.



* CUSTOMIZED SIZE AVAILABLE *

16. BOD INCUBATOR CUM SHAKER (JS-BDS-016)

DESCRIPTION : A dual-purpose environmental test chamber combining precise temperature control (sub-ambient to elevated temperatures) with an integrated orbital shaker mechanism. Designed for Biochemical Oxygen Demand (BOD) determination, cell culture, tissue culture, and fermentation studies requiring continuous sample agitation under controlled thermal conditions.

FEATURES :

- **Shaking Mechanism & Drive:** Powered by a permanent Magnet DC motor drive engineered for smooth, heavy-duty continuous shaking operations.
- **Temperature & Environmental Control:** Based on standard bacteriological incubator specs, delivering accurate microprocessor-controlled temperature stability across sub-ambient and elevated incubation ranges
- **Chamber Build & Insulation:** Sturdy double-walled body with a Stainless Steel inner chamber, high-grade insulation to prevent thermal loss, and an outer door fitted with dynamic sealing.
- **Capacity & Specifications:** Offers a spacious 280-liter inner chamber capacity 600 x 600 x 750mm equipped with a removable tray setup.
- **Optional Upgrades:** Digital 24-hour cyclic timer with LCD display, Interior illumination system using CFL lights, Additional specialized trays to accommodate flasks of varying sizes



* CUSTOMIZED SIZE AVAILABLE *

17. ORBITAL SHAKING INCUBATOR (Heating) (JS-OIH-017)

DESCRIPTION : An orbital shaking incubator designed for continuous shaking of biological solutions in Erlenmeyer flasks (ranging from 100 ml to 1000 ml) at a controlled constant temperature. Ideal for cell culture, fermentation, and microbiology applications requiring simultaneous heating and gentle continuous agitation.

FEATURES :

- **Temperature Range:** Operates at a constant set heating range from ambient + 5°C to 70°C for accurate thermal incubation.
- **Material & Construction:** Durable Mild Steel (M.S.) outer body with a fine-finish SS 304G stainless steel inner chamber and shaking tray.
- **Shaking Drive & Speed:** Powered by a heavy-duty DC motor with a continuous variable speed regulator ranging from 50 to 250 RPM.
- **Flask Platform & Clamps:** Shaking platform equipped with durable lotus clamps / nylon clamps to hold Erlenmeyer flasks securely during operation.
- **Capacity Options:** Available in multiple sizes accommodating 9, 16, or 25 flasks (250–500 ml capacity).

SIZE OPTIONS : ORBITAL SHAKING INCUBATOR (Heating)

MODEL NO.	Size of Inner Chamber / Tray Platform	Flask Capacity Options
JS-OIH-017A	Standard Benchtop Chamber Platform	Accommodates 9 Flasks (250–500 ml)
JS-OIH-017B	Standard Benchtop Chamber Platform	Accommodates 16 Flasks (250–500 ml)
JS-OIH-017C	Standard Benchtop Chamber Platform	Accommodates 25 Flasks (250–500 ml)



* CUSTOMIZED SIZE AVAILABLE *

18. ORBITAL SHAKING INCUBATOR (Cooling) (JS-OIC-018)

DESCRIPTION : An orbital shaking incubator with integrated cooling designed for continuous agitation of biological solutions in Erlenmeyer flasks (100 ml to 1000 ml capacity) at precise sub-ambient to elevated temperatures. Ideal for temperature-sensitive cell cultures, fermentation, enzyme reactions, and microbiological applications.

FEATURES :

- **Temperature Range:** Provides controlled constant temperature regulation across a cooling and heating range of 5°C to 60°C.
- **Material & Build:** Durable Mild Steel (M.S.) outer body with a fine-finish SS 304G grade stainless steel inner chamber and shaking tray.
- **Shaking Drive & Speed:** Driven by a heavy-duty DC motor with a continuous variable electronic speed regulator adjustable from 50 to 250 RPM.
- **Platform & Clamping:** Shaking platform fitted with lotus clamps / nylon clamps to secure flasks firmly during continuous rotation.
- **Capacity Options:** Available in model configurations holding 9, 16, or 25 flasks (250–500 ml capacity).

SIZE OPTIONS : ORBITAL SHAKING INCUBATOR (Cooling)

MODEL NO.	Size of Inner Chamber / Tray Platform	Flask Capacity Options
JS-OIC-018A	Standard Benchtop Chamber Platform	Accommodates 9 Flasks (250–500 ml)
JS-OIC-018B	Standard Benchtop Chamber Platform	Accommodates 16 Flasks (250–500 ml)
JS-OIC-018C	Standard Benchtop Chamber Platform	Accommodates 25 Flasks (250–500 ml)



* CUSTOMIZED SIZE AVAILABLE *

19. LABORATORY BLOOD BANK (JS-LBB-019)

DESCRIPTION : A specialized medical and laboratory refrigerator designed for precise, low-temperature storage of blood products, vaccines, biological samples, and sensitive laboratory reagents. Built with high-density PUF insulation and a hermetically sealed refrigeration system to maintain precise thermal stability and sample integrity.

FEATURES :

- **Construction & Material:** Double-walled body featuring a corrosion-resistant Stainless Steel (304 Grade) inner chamber and Mild Steel (M.S.) outer body finished with durable powder coating.
- **Insulation & Cooling:** Insulated with high-density polyurethane foam (PUF) and powered by a CFC-free heavy-duty hermetically sealed compressor.
- **Temperature Control:** Microprocessor-based P.I.D. controller or Digital Temperature Controller cum Indicator maintaining a stable temperature range of +2°C to +8°C (±1°C accuracy).
- **Shelves & Door Sealing:** Equipped with adjustable, sliding Stainless Steel perforated/wire rod shelves and an insulated double-walled door with a magnetic gasket for airtight closure.
- **Power & Electrical:** Operates on 220–240 Volts AC, 50/60 Hz power supply fitted with a standard Indian plug.

SIZE OPTIONS : LABORATORY BLOOD BANK

MODEL NO.	SIZE OF INNER CHAMBER	CAPACITY
JS-LBB-019A	455 x 455 x 505 mm	112 Liters (4.0 Cu. Ft.)
JS-LBB-019B	505 x 505 x 670 mm	171 Liters (6.0 Cu. Ft.)
JS-LBB-019C	605 x 605 x 765 mm	280 Liters (10.0 Cu. Ft.)
JS-LBB-019D	605 x 605 x 910 mm	340 Liters (12.0 Cu. Ft.)
JS-LBB-019E	605 x 605 x 1210 mm	450 Liters (16.0 Cu. Ft.)



*** CUSTOMIZED SIZE AVAILABLE ***

20. PLASMA FREEZER (JS-PF-020)

DESCRIPTION : A medical-grade sub-zero freezing equipment engineered for the long-term storage and preservation of blood plasma, serum, vaccines, biological specimens, and clinical reagents. Built with high-density PUF insulation and a heavy-duty cooling compressor to maintain uniform ultra-low temperature integrity.

FEATURES :

- **Construction & Material:** Double-walled body constructed with a Stainless Steel (304 Grade) inner chamber and a powder-coated Mild Steel (M.S.) outer body.
- **Temperature & Precision Control:** Operates at a controlled temperature managed via a Microprocessor-based P.I.D. controller or Digital Temperature Controller cum Indicator.
- **Insulation & Cooling:** Insulated with high-density polyurethane foam (PUF) and driven by a CFC-free heavy-duty hermetically sealed compressor.
- **Shelving & Door Mechanism:** Features adjustable, sliding Stainless Steel perforated/wire rod shelves and an insulated double-walled door with a magnetic gasket for airtight sealing.
- **Capacity & Power:** Holds between 75 to 400 blood bags across various chamber volumes (112 L to 420 L) and operates on 220–240 Volts AC, 50/60 Hz power with a standard Indian plug.

SIZE OPTIONS : PLASMA FREEZER

MODEL NO.	SIZE OF INNER CHAMBER	CAPACITY
JS-PF-020A	455 x 455 x 505 mm	112 Liters (Holds ~75 Blood Bags)
JS-PF-020B	505 x 505 x 670 mm	171 Liters (Holds ~150 Blood Bags)
JS-PF-020C	605 x 605 x 765 mm	280 Liters (Holds ~250 Blood Bags)
JS-PF-020D	605 x 605 x 910 mm	340 Liters (Holds ~300 Blood Bags)
JS-PF-020E	605 x 605 x 1150 mm	420 Liters (Holds ~400 Blood Bags)



* CUSTOMIZED SIZE AVAILABLE *

21. LABORATORY /MEDICAL REFRIGERATOR (JS-LR-021)

DESCRIPTION : A multi-purpose medical and laboratory cooling unit designed for the safe cold storage of general lab reagents, medicines, samples, and biological materials. Built with double-walled insulation and precise digital temperature controls to suit general clinical and research laboratory requirements.

FEATURES :

- **Temperature Range:** Operates within a controlled temperature spectrum of 2°C to 10°C for general cold storage needs.
- **Construction & Insulation:** Heavy-duty double-walled body insulated with high-density polyurethane foam (PUF) to maintain optimal inner temperatures.
- **Refrigeration System:** Efficient CFC-free compressor system engineered for uniform cooling across the entire chamber.
- **Chamber Layout:** Equipped with adjustable shelves and a magnetic door gasket to ensure airtight sealing and minimal cold air loss.
- **Flexible Capacity Options:** Available in various sizes ranging from 112 Ltrs to 420 Ltrs chamber volumes.

SIZE OPTIONS : LABORATORY / MEDICAL REFRIGERATOR

MODEL NO.	SIZE OF INNER CHAMBER	CAPACITY
JS-LR-021A	455 x 455 x 505 mm	112 Liters (4.0 Cu. Ft.)
JS-LR-021B	505 x 505 x 670 mm	171 Liters (6.0 Cu. Ft.)
JS-LR-021C	605 x 605 x 765 mm	280 Liters (10.0 Cu. Ft.)
JS-LR-021D	605 x 605 x 910 mm	340 Liters (12.0 Cu. Ft.)
JS-LR-021E	605 x 605 x 1150 mm	450 Liters (16.0 Cu. Ft.)



* CUSTOMIZED SIZE AVAILABLE *

22. MORTUARY CABINET / CHAMBER (JS-MC-022)

DESCRIPTION : A specialized low-temperature cadaver storage system designed for hospitals, medical colleges, mortuaries, and forensic labs. Built with double-walled insulation, heavy-duty refrigeration, and micro-controlled cooling to preserve bodies under hygienic and controlled temperature conditions.

FEATURES :

- Construction & Insulation:** Heavy-duty double-walled body with Polyurethane foam (PUF) insulation to maintain thermal retention and lower power usage.
- Temperature & Controls:** Operating range of +2°C to +8°C (±1°C accuracy) controlled via a Microprocessor-based P.I.D. controller or Digital Temperature Controller cum Indicator.
- Cooling System:** Powered by a CFC-free heavy-duty hermetically sealed compressor system.
- Door Sealing & Safety:** Double-walled insulated doors equipped with magnetic gaskets for airtight sealing to prevent cooling leakage.
- Capacity & Electrical:** Available in Single, Two, Three, Four, and Six body capacity models. Operates on 220–240 Volts AC (50/60 Hz) and recommended for use with a 3 KVA to 7.5 KVA voltage stabilizer depending on body capacity.

SIZE OPTIONS : MORTUARY CABINET / CHAMBER

MODEL NO.	SIZE OF INNER CHAMBER	CAPACITY
JS-MC-022A	Single Body Compartment Setup	Single Body Capacity
JS-MC-022B	Two Body Compartment Setup	Two Body Capacity
JS-MC-022C	Three Body Compartment Setup	Three Body Capacity
JS-MC-022D	Four Body Compartment Setup	Four Body Capacity
JS-MC-022E	Six Body Compartment Setup	Six Body Capacity



*** CUSTOMIZED SIZE AVAILABLE ***

23. AIR SHOWER (JS-AS-023)

DESCRIPTION : A self-contained modular entryway cleanroom equipment designed to remove particulate contamination from personnel or equipment before entering a sterile cleanroom environment. Uses high-velocity jet nozzles to blast air and remove loose surface particles.

FEATURES :

- **Filtration Efficiency:** Equipped with an absolute filter-fan module delivering air filtration efficiency down to 99.97% on 0.3-micron particles.
- **Air Jet Spraying:** Engineered with specialized nozzles that deliver concentrated sprays of moving air under positive pressurization.
- **Modular & Portable Design:** Self-contained modular structure designed for convenient transportation and easy site installation.
- **Body Material Options:** Available in custom body finishes including Wooden body, Mild Steel (M.S.) powder-coated, or Stainless Steel (SS 304 Grade) finish.
- **Size Configurations:** Standard sizes include 3' x 3' x 7' Feet and 3' x 4' x 7' Feet.

SIZE OPTIONS : AIR SHOWER

MODEL NO.	SIZE OF INNER CHAMBER	CAPACITY
JS-AS-023A	3 x 3 x 7 Feet	Single-Person Entryway Portal
JS-AS-023B	3 x 4 x 7 Feet	Extended Person/Equipment Entryway Portal



*** CUSTOMIZED SIZE AVAILABLE ***

24. SEROLOGICAL WATER BATH (JS-SWB-024)

DESCRIPTION : A precise laboratory water bath designed for heating samples at regulated temperatures in biological, serological, and clinical diagnostics applications. Built with high-grade thermal insulation to avoid heat loss and maintain stable liquid temperatures.

FEATURES :

- **Construction & Insulation:** Double-walled construction featuring a Stainless Steel (S.S.) inner chamber, Mild Steel (M.S.) outer body with epoxy powder coating, and thick glass wool/mineral wool insulation.
- **Temperature & Control:** Operating range from 5°C above ambient to 100°C ($\pm 2^\circ\text{C}$ accuracy), controlled via a thermostat with an L-shape thermometer for accurate reading.
- **Optional Stirring:** Available with or without stirring arrangement using an FHP Stirrer for enhanced temperature uniformity.
- **Power Supply:** Works on 220–230 Volts AC, 50/60 Hz power input fitted with a standard Indian plug.



* CUSTOMIZED SIZE AVAILABLE *

25. COOLING/REFRIGERATED/CHILLER CIRCULATOR WATER BATH (JS-CWB-025)

DESCRIPTION : A high-performance dual cooling and circulating water bath designed for precise sub-ambient and low-temperature liquid circulation in analytical, research, and industrial laboratory setups.

FEATURES :

- **Construction & Insulation:** Stainless Steel (S.S.) inner chamber and lid, Mild Steel (M.S.) outer body with epoxy powder coating, and high-density PUF insulation to maintain ultra-low temperatures.
- **Temperature & Precision Control:** Controlled via a Microprocessor-based Digital Temperature Controller cum Indicator across selectable sub-zero ranges (Ambient down to 0°C, -10°C, -20°C, or -30°C).
- **Refrigeration System:** Powered by a heavy-duty, CFC-free hermetically sealed air-cooling compressor.
- **Cooling Medium Compatibility:** Designed to use Water for operating temperatures above +5°C and Ethanol for operating temperatures below +5°C.
- **Power Supply:** Operates on 220–230 Volts AC, 50/60 Hz power supply fitted with a standard Indian plug.



* CUSTOMIZED SIZE AVAILABLE *

26. LAB CONSTANT TEMPERATURE WATER BATH (JS-TWB-026)

DESCRIPTION : A durable laboratory water bath designed to maintain precise liquid temperatures for incubating samples, heating reagents, and conducting chemical or biological reactions. Constructed with double-walled thermal insulation to eliminate heat loss and ensure thermal stability.

FEATURES :

- **Construction & Insulation:** Double-walled structure featuring a Stainless Steel (S.S.) inner chamber, Mild Steel (M.S.) outer body with epoxy powder coating, and thick glass wool/mineral wool insulation.
- **Temperature Control:** Operates from 5°C above ambient to 100°C ($\pm 2^\circ\text{C}$ accuracy) with thermostat regulation and an L-shape thermometer for clear thermal tracking.
- **Optional Stirring:** Compatible with an optional FHP Stirrer arrangement for enhanced liquid circulation and heat distribution.
- **Power & Plug:** Requires a 220–230 Volts AC, 50/60 Hz power supply fitted with a standard Indian plug.



* CUSTOMIZED SIZE AVAILABLE *

27. RECTANGULAR WATER BATH DOUBLE WALL (JS-RWB-027)

DESCRIPTION : A rectangular multi-hole laboratory water bath designed for general heating, evaporation, and sample incubation applications. Features concentric ringed top openings to accommodate various sizes of beaker, flasks, and laboratory containers simultaneously.

FEATURES :

- Construction & Insulation:** Double-walled body with a Stainless Steel (S.S.) inner chamber, Mild Steel (M.S.) outer body with epoxy powder coating, and thick glass wool/mineral wool insulation to minimize heat loss.
- Top Opening Design:** Fitted with top concentric rings/holes (6 holes or 12 holes of 75 mm diameter) to support multiple containers during thermal processing.
- Temperature & Control:** Thermostat-controlled temperature range from 5°C above ambient to 100°C (±2°C accuracy) with an L-shape thermometer for visual indication.
- Power Supply:** Operates on 220–230 Volts AC, 50/60 Hz single-phase input with a standard Indian plug.

SIZE OPTIONS : RECTANGULAR WATER BATH DOUBLE

MODEL NO.	SIZE OF INNER CHAMBER	Top Opening Configuration / Capacity
JS-RWB-027A	Standard Rectangular Bath Chamber	6 Holes Configuration (75 mm diameter rings)
JS-RWB-027B	Standard Rectangular Bath Chamber	12 Holes Configuration (75 mm diameter rings)



* CUSTOMIZED SIZE AVAILABLE *

28. KINEMATIC VISCOSITY BATHWALL (JS-KVB-028)

DESCRIPTION : A specialized high-precision constant temperature bath engineered for determining the kinematic viscosity of petroleum products, oils, fluids, and lubricants using capillary viscometers. Equipped with a viewing window or clear chamber setup for precise flow-time observation.

FEATURES :

- Construction & Build:** Double-walled design with a Stainless Steel (S.S.) inner chamber, epoxy powder-coated Mild Steel (M.S.) outer body, and dense glass wool/mineral wool insulation.
- Temperature Control System:** Microprocessor-based Digital Temperature Controller cum Indicator operating from 5°C above ambient to 95°C (±5°C accuracy).
- Viscometer Capacity:** Configured to hold either 4 Viscometers or 6 Viscometers depending on the selected model size.
- Power & Rating:** Designed with heavy-duty heating elements (1500 W or 2500 W rating) operating on 220–230 Volts AC, 50/60 Hz power input fitted with an Indian plug.

SIZE OPTIONS : KINEMATIC VISCOSITY BATHWALL

MODEL NO.	SIZE OF INNER CHAMBER	Viscometer Capacity
JS-KVB-028A	Standard Viscosity Bath Chamber	Holds 4 Viscometers
JS-KVB-028B	Standard Viscosity Bath Chamber	Holds 6 Viscometers



* CUSTOMIZED SIZE AVAILABLE *

29. WATER BATH SHAKER INCUBATOR (JS-WBI-029)

DESCRIPTION : A combined water bath and reciprocating shaker designed for precise temperature incubation with continuous liquid agitation. Ideal for cell culture, biological reactions, tissue culture, and chemical dissolution tests where controlled thermal water bath conditions are required alongside constant mixing.

FEATURES :

- **Construction & Insulation:** Double-walled body featuring a Stainless Steel (S.S.) inner chamber, Mild Steel (M.S.) outer body with epoxy powder coating, and thick glass wool/mineral wool thermal insulation.
- **Temperature Control:** Microprocessor-based Digital Temperature Controller cum Indicator operating from 5°C above ambient to 100°C ($\pm 2^\circ\text{C}$ accuracy).
- **Shaking Mechanism:** Oscillating tray riding smoothly on nylon rollers driven by a geared variable speed motor, with a shaking speed range of 40 to 200 cycles per minute.
- **Tray & Vessel Capacity:** Shaking tray customized to hold test tubes or Erlenmeyer flasks (50 ml to 1000 ml capacity) as required by the user.
- **Power & Optional Accessories:** Operates on 220–230 Volts AC, 50/60 Hz power input fitted with an Indian plug. Optional add-ons include Digital RPM indicator and DC Drive.



* CUSTOMIZED SIZE AVAILABLE *

30. HIGH PRECISION WATER BATH (JS-HPWB-030)

DESCRIPTION : A specialized constant temperature water bath built for applications requiring highly uniform heat distribution and clear sample observation. Features an integrated motor stirrer and a front-mounted glass viewing window.

FEATURES :

- **Construction & Observation:** Double-walled body with Stainless Steel (S.S.) inner chamber, epoxy powder-coated Mild Steel (M.S.) outer body, dense insulation, and a clear glass window on the front for direct sample inspection.
- **Temperature & Circulation:** Microprocessor-based Digital Temperature Controller cum Indicator maintaining 5°C above ambient to 100°C ($\pm 2^\circ\text{C}$ accuracy), fitted with an integrated stirrer with speed regulator for active water circulation.
- **Chamber Volume:** Offers a 28 Liter capacity chamber with inner dimensions of 430 x 240 x 265 mm.
- **Power Input:** Runs on 220–230 Volts AC, 50/60 Hz single-phase supply with a standard Indian plug.



* CUSTOMIZED SIZE AVAILABLE *

31. TISSUE FLOTATION BATH (JS-TFB-031)

DESCRIPTION : A compact histopathology water bath designed for floating, flattening, and mounting paraffin-embedded tissue sections onto glass slides without wrinkling or distorting the tissue samples.

FEATURES :

- **Construction & Material:** Double-walled circular body featuring an aluminum inner chamber, Mild Steel (M.S.) outer body with epoxy powder coating, and glass wool/mineral wool insulation.
- **Temperature Control:** Thermostatically controlled heating operating from 5°C above ambient to 80°C (±1°C accuracy) for gentle thermal management of wax sections.
- **Size Options:** Available in compact circular sizes including 210 x 75 mm and 250 x 125 mm (Diameter x Depth).
- **Power Supply:** Operates on standard 220–230 Volts AC, 50/60 Hz power input fitted with an Indian plug.

SIZE OPTIONS : TISSUE FLOTATION BATH

MODEL NO.	SIZE OF INNER CHAMBER
JS-TFB-031A	210 x 75 mm
JS-TFB-031B	250 x 125 mm



* CUSTOMIZED SIZE AVAILABLE *

32. OIL BATH (JS-OB-032)

DESCRIPTION : A high-temperature laboratory heating bath designed to maintain elevated liquid temperatures using high-boiling oil media for chemical synthesis, high-temperature reactions, and material testing. Built with heavy thermal insulation to minimize heat transfer and maintain steady operating conditions.

FEATURES :

- **Construction & Insulation:** Double-walled body featuring a Stainless Steel (S.S.) inner chamber, Mild Steel (M.S.) outer body with epoxy powder coating, and thick glass wool/mineral wool insulation to prevent heat loss.
- **High Temperature Range:** Operates from 5°C above ambient up to 250°C (±1°C accuracy) for high-thermal applications beyond standard water bath limits.
- **Temperature Control:** Microprocessor-based Digital Temperature Controller cum Indicator for precise thermal management.
- **Optional Accessories:** Available with or without a stirring arrangement using an FHP Stirrer for enhanced oil circulation and temperature distribution.
- **Power & Rating:** Equipped with 2 KW or 3 KW heating loads (depending on chamber size) and operates on 220–230 Volts AC, 50/60 Hz power input fitted with a standard Indian plug.

SIZE OPTIONS : OIL BATH

MODEL	CAPACITY
JS-OB-032A	10 Liters Capacity
JS-OB-032B	25 Liters Capacity
JS-OB-032C	50 Liters Capacity



* CUSTOMIZED SIZE AVAILABLE *

33. SEED GERMINATOR SINGLE CHAMBER (JS-SGS-033)

DESCRIPTION : A specialized environmental test chamber designed to provide controlled temperature, humidity, and illumination conditions for seed testing, germination research, tissue culture, biological studies, and agricultural research applications.

FEATURES :

- **Construction & Portability:** Double-walled construction with Stainless Steel (S.S.) inner chamber, epoxy powder-coated Mild Steel (M.S.) outer body, PUF insulation, and mounted on castors for easy mobility.
- **Temperature & Humidity Control:** Controlled by Microprocessor-Based Digital Controllers maintaining temperatures from 5°C to 50°C ($\pm 0.5^\circ\text{C}$ accuracy) and humidity levels from 55% to 90% RH ($\pm 3\%$ RH) at cool temperatures.
- **Illumination System:** Features exterior illumination support with 5-level light control (0%, 25%, 50%, 75%, and 100%).
- **Cooling System:** Equipped with a CFC-free hermetically sealed air cooling compressor.
- **Shelves & Door:** Includes 14 adjustable/sliding stainless steel perforated/wire rod shelves, synthetic rubber door gasket, and a glass viewer window.
- **Power & Rating:** 310-liter capacity (555 x 605 x 910 mm inner dimension) operating on 220–230 Volts AC, 50/60 Hz power supply with a 3 KW load.



* CUSTOMIZED SIZE AVAILABLE *

34. SEED GERMINATOR DOUBLE CHAMBER (JS-SGD-034)

DESCRIPTION : A dual-chamber environmental incubation system offering independently controlled dual spaces for high-volume seed germination, plant pathology, and agricultural research testing.

FEATURES :

- **Chamber Capacity & Design:** Features two independent chambers, each with an inner dimension of 555 x 605 x 910 mm and 308-liter capacity (totaling 28 multi-perforated stainless steel/aluminum trays, 14 per chamber).
- **Specifications & Build:** Built with same double-walled PUF insulated construction, cooling systems, and digital controls as the DRIT-131 single chamber model.
- **Applications:** Ideal for concurrent testing under varying temperature, humidity, and photoperiod cycles across separate chambers.
- **Optional Accessories (Both Models):** Digital controller, automatic 0-24 hrs cyclic timer for regulating illumination cycles, interior illumination with 3 nos. 60 cm fluorescent tube lights per chamber, and Microprocessor-based PID Temperature controller..



* CUSTOMIZED SIZE AVAILABLE *

35. PLANT GROWTH CHAMBER (JS-PGC-035)

DESCRIPTION : A controlled environmental chamber designed to simulate variable climate, lighting, and atmospheric conditions for plant growth experiments, botanical research, tissue culture, agricultural studies, and seed development.

FEATURES :

- Construction & Portability:** Double-walled construction featuring a Stainless Steel (S.S.) inner chamber, Mild Steel (M.S.) outer body with epoxy powder coating, high-density polyurethane foam (PUF) insulation, and castor wheels for mobility.
- Temperature & Humidity Control:** Regulated via a Microprocessor-Based Digital Temperature & Humidity Controller. Operates across a temperature range of 10°C to 60°C (±1°C accuracy) and relative humidity levels from 55% to 95% RH (±3% RH) at cool temperatures.
- Illumination Control:** Features exterior illumination support with 5-level light intensity adjustment (0%, 25%, 50%, 75%, and 100%).
- Cooling & Door Design:** Equipped with a CFC-free hermetically sealed air-cooling compressor, synthetic rubber door gasket, and a glass viewer window for chamber inspection.
- Capacity Options:** Available in model capacities ranging from 280 L (10 Cu. Ft.) up to 1282 L (45.8 Cu. Ft.) with 2 to 4 tray configurations.
- Power Input:** Operates on 220–230 Volts AC, 50/60 Hz single-phase power fitted with a standard Indian plug.

SIZE OPTIONS : PLANT GROWTH CHAMBER

MODEL NO.	SIZE OF INNER CHAMBER	CAPACITY
JS-PGC-035A	600 x 600 x 750 mm	280 Liters (10.0 Cu. Ft.) / 2-3 Tray Setup
JS-PGC-035B	600 x 600 x 910 mm	340 Liters (12.0 Cu. Ft.) / 3 Tray Setup
JS-PGC-035C	600 x 600 x 1210 mm	450 Liters (16.0 Cu. Ft.) / 3-4 Tray Setup



* CUSTOMIZED SIZE AVAILABLE *

36. LYOPHILIZER (FREEZE DRYER) (JS-LP-036)

DESCRIPTION : A laboratory freeze-drying system engineered for dehydration and sample preservation by freezing the material and reducing surrounding pressure, allowing frozen moisture to sublime directly from solid ice to gas. Ideal for preserving heat-sensitive biological materials, pharmaceuticals, and low-melting-point substances.

FEATURES :

- Sublimation Process:** Works via freezing followed by vacuum pressure reduction for direct ice-to-vapor sublimation without passing through a liquid phase.
- Cascade Refrigeration:** Equipped with advanced Cascade Refrigeration systems reaching ultra-low temperatures of -40°C or -80°C (±1°C accuracy).
- Sample Applications:** Designed for freeze-drying complex laboratory samples, enzymes, biological tissues, and substances with low eutectic melting points.
- Volume Options:** Available in 3.25 Liter and 5.25 Liter ice-condensing volume capacities.

SIZE OPTIONS : LYOPHILIZER (FREEZE DRYER)

MODEL NO.	SIZE OF INNER CHAMBER	CAPACITY
JS-LP-036A	Standard Condenser Chamber	3.25 Liters Ice-Condensing Capacity
JS-LP-036B	Standard Condenser Chamber	5.25 Liters Ice-Condensing Capacity



* CUSTOMIZED SIZE AVAILABLE *

37. ACCELERATED CURING TANK (JS-ACT-037)

DESCRIPTION : A controlled thermal conditioning tank used in civil engineering, concrete testing, and construction materials testing for accelerated strength testing and curing of concrete cube samples under precise thermal and humidity parameters.

FEATURES :

- **Construction & Insulation:** Double-walled body constructed with a Stainless Steel (S.S.) inner chamber, Mild Steel (M.S.) outer frame, and polyurethane foam (PUF) insulation for energy efficiency and reduced running costs.
- **Temperature & Humidity Range:** Maintains temperatures from 5°C to 70°C ($\pm 0.5^\circ\text{C}$ accuracy) and humidity levels from 30% to 95% RH ($\pm 3\%$ RH) at cool temperatures.
- **Control System:** Microprocessor-based P.I.D. controller or Digital Temperature Controller cum Indicator for precise thermal regulation.
- **Cooling Compressor:** Fitted with a CFC-free hermetically sealed air-cooling compressor.
- **Cube Sample Capacity:** Configured to accommodate concrete testing cubes (150 mm / 70.6 mm sizes) in batch capacities of 6/12, 12/24, 24/48, or 36/72 cubes.
- **Power & Optionals:** Operates on 220–230 Volts AC, 50/60 Hz power input with an Indian plug. Optional Accelerated Curing configuration available for cooling & boiling water methods (10°C to 100°C temperature range).

SIZE OPTIONS : ACCELERATED CURING TANK

MODEL NO.	Batch Sample Capacity (Cubes)
JS-ACT-037A	6 / 12 Cubes Capacity
JS-ACT-037B	12 / 24 Cubes Capacity
JS-ACT-037C	24 / 48 Cubes Capacity
JS-ACT-037D	36 / 72 Cubes Capacity



* CUSTOMIZED SIZE AVAILABLE *

38. ULTRA LOW DEEP FREEZER HORIZONTAL (JS-DFH-038)

DESCRIPTION : A horizontal (chest-type) low-temperature storage freezer designed for long-term preservation of biological samples, vaccines, enzymes, and clinical materials at sub-zero temperatures. Built with high-efficiency thermal insulation to maintain stable internal temperatures and minimize power consumption.

FEATURES :

- **Construction & Insulation:** Double-walled construction with a Stainless Steel (S.S.) inner chamber, Mild Steel (M.S.) outer body, and polyurethane foam (PUF) insulation to reduce operating costs.
- **Temperature Control:** Microprocessor-based P.I.D. controller or Digital Temperature Controller cum Indicator maintaining accuracy within $\pm 1^{\circ}\text{C}$.
- **Temperature Options:** Available in 5 temperature ratings: -20°C , -30°C , -40°C , -70°C , and -80°C (in AC).
- **Storage & Door:** Includes adjustable sliding stainless steel perforated/wire rod shelves or baskets, and a door fitted with a synthetic rubber gasket.
- **Power Input:** Operates on 220–230 Volts AC, 50/60 Hz power supply fitted with a standard Indian plug.

SIZE OPTIONS : ULTRA LOW DEEP FREEZER HORIZONTAL

MODEL NO.	SIZE OF INNER CHAMBER	CAPACITY
JS-DFH-038A	455 x 455 x 505 mm	112 Liters (4 Cu. Ft.)
JS-DFH-038B	505 x 505 x 670 mm	171 Liters (6 Cu. Ft.)
JS-DFH-038C	605 x 605 x 765 mm	280 Liters (10 Cu. Ft.)
JS-DFH-038D	605 x 605 x 910 mm	340 Liters (12 Cu. Ft.)
JS-DFH-038E	605 x 605 x 1210 mm	450 Liters (16 Cu. Ft.)



* CUSTOMIZED SIZE AVAILABLE *

39. ULTRA LOW DEEP FREEZER VERTICAL (JS-DFV-039)

DESCRIPTION : A vertical (upright-type) low-temperature laboratory freezer designed for ultra-low temperature sample storage while maximizing lab floor space and offering easy vertical organization of biological materials, stable internal temperatures and minimize power consumption.

FEATURES :

- **Design & Configuration:** Upright/vertical orientation built with identical technical specifications, thermal insulation, and control systems as the DRIT-136 horizontal freezer.
- **Temperature Capabilities:** Offers operating temperature options down to -20°C, -30°C, -40°C, -70°C, and -80°C.
- **Size & Capacity:** Available in standard capacities ranging from 4.0 Cu. Ft. (112 L) up to extended sizes of 18.0 Cu. Ft. (510 L) and 23.0 Cu. Ft. (651 L).
- **Power Input:** Configured for standard 220–230 Volts AC, 50/60 Hz electrical input with an Indian plug.

SIZE OPTIONS : ULTRA LOW DEEP FREEZER VERTICAL

MODEL NO.	SIZE OF INNER CHAMBER	CAPACITY
JS-DFV-039A	455 x 455 x 505 mm	112 Liters (4 Cu. Ft.)
JS-DFV-039B	505 x 505 x 670 mm	171 Liters (6 Cu. Ft.)
JS-DFV-039C	605 x 605 x 765 mm	280 Liters (10 Cu. Ft.)
JS-DFV-039D	605 x 605 x 910 mm	340 Liters (12 Cu. Ft.)
JS-DFV-039E	605 x 605 x 1210 mm	450 Liters (16 Cu. Ft.)



*** CUSTOMIZED SIZE AVAILABLE ***

40. HUMIDITY TEST CHAMBER (JS-HTC-040)

DESCRIPTION : A precision-controlled environmental chamber engineered for stability testing, material qualification, and accelerated shelf-life studies. It simulates specific temperature and relative humidity conditions to evaluate the durability of pharmaceuticals, electronics, packaging, and biological samples over time.

FEATURES :

- Dual-Layer Construction:** Built with a heavy-duty Stainless Steel (S.S.) inner chamber and a Mild Steel (M.S.) powder-coated outer body with high-density polyurethane foam (PUF) insulation to minimize heat loss and operational costs.
- Thermal & Humidity Control:** Operates across a temperature range of 5°C to 70°C (±0.5°C accuracy) and relative humidity levels from 55% to 90% RH (±3% RH) at cool temperatures.
- Control System:** Equipped with a fully microprocessor-based P.I.D. controller or Digital Temperature Controller cum Indicator for continuous, real-time climate monitoring.
- Refrigeration Unit:** Uses a CFC-free, hermetically sealed air-cooling compressor designed for uniform thermal reduction.
- Capacity Variants:** Available in multiple volumetric sizes ranging from 112 Liters (4 Cu. Ft.) up to 450 Liters (16 Cu. Ft.) with adjustable tray configurations (2 to 5 trays).
- Electrical Specifications:** Runs on standard 220–230 Volts AC, 50/60 Hz power supply fitted with an Indian plug.

SIZE OPTIONS : HUMIDITY TEST CHAMBER

MODEL NO.	SIZE OF INNER CHAMBER	CAPACITY
JS-HTC-040A	455 x 455 x 505 mm	112 Liters (4 Cu. Ft.)
JS-HTC-040B	505 x 505 x 670 mm	171 Liters (6 Cu. Ft.)
JS-HTC-040C	605 x 605 x 765 mm	280 Liters (10 Cu. Ft.)
JS-HTC-040D	605 x 605 x 910 mm	340 Liters (12 Cu. Ft.)
JS-HTC-040E	605 x 605 x 1210 mm	450 Liters (16 Cu. Ft.)



*** CUSTOMIZED SIZE AVAILABLE ***

41. STABILITY TEST CHAMBER (JS-STC-041)

DESCRIPTION : A specialized environmental simulation chamber engineered for long-term stability testing, shelf-life analysis, and sample storage under controlled temperature and relative humidity conditions. Commonly used in pharmaceuticals, biotechnology, food testing, and material research.

FEATURES :

- **Construction & Insulation:** Double-walled body constructed with a Stainless Steel (S.S.) inner chamber, Mild Steel (M.S.) outer body, and polyurethane foam (PUF) insulation to reduce energy consumption and running costs.
- **Temperature & Humidity Range:** Controls temperature from 5°C to 70°C (±0.5°C accuracy) and relative humidity levels from 55% to 90% RH (±3% RH) at cool temperatures.
- **Control System:** Microprocessor-based P.I.D. controller or Digital Temperature Controller cum Indicator for precise thermal and humidity regulation.
- **Cooling Compressor:** Fitted with a CFC-free hermetically sealed air-cooling compressor.
- **Capacity & Models:** Available in volumetric capacities ranging from 112 Liters to 450 Liters (4 Cu. Ft. to 16 Cu. Ft.) with configurations of 2 to 4 removable trays.
- **Power Input:** Operates on 220–230 Volts AC, 50/60 Hz power supply fitted with a standard Indian plug.

SIZE OPTIONS : STABILITY TEST CHAMBER

MODEL NO.	SIZE OF INNER CHAMBER	CAPACITY
JS-STC-041A	455 x 455 x 505 mm	112 Liters (4 Cu. Ft.)
JS-STC-041B	505 x 505 x 670 mm	171 Liters (6 Cu. Ft.)
JS-STC-041C	605 x 605 x 765 mm	280 Liters (10 Cu. Ft.)
JS-STC-041D	605 x 605 x 910 mm	340 Liters (12 Cu. Ft.)
JS-STC-041E	605 x 605 x 1210 mm	450 Liters (16 Cu. Ft.)



*** CUSTOMIZED SIZE AVAILABLE ***

42. WALK IN ENVIRONMENT TEST CHAMBER (JS-ETC-042)

DESCRIPTION : A large-scale environmental test chamber designed for bulk storage, stability testing, and climatic evaluation of pharmaceuticals, industrial components, packaging materials, and biological samples under strictly regulated thermal conditions.

FEATURES :

- **Construction & Insulation:** Double-walled structure featuring a thick PCRC pre-coated corrosion-resistant GI sheet outer body (stove enamel or powder-coated), an inner chamber made of Stainless Steel (SS 304), and high-grade PUF insulation for maximum energy efficiency.
- **Door & Airflow Design:** Single door equipped with a lock and key arrangement, magnetic door closer, and a glass viewing window. Features 2, 4, or 6 air circulation fans at the back for uniform temperature maintenance throughout the chamber.
- **Temperature Range & Control:** Maintains temperatures from -10°C to 60°C (±1°C accuracy), regulated by a microprocessor-based digital display LCD system.
- **Refrigeration System:** Powered by a CFC-free, hermetically sealed air-cooling compressor refrigeration unit operating on 220–230 Volts AC, 50/60 Hz Single Phase.
- **High Capacity Options:** Offered in large volumetric sizes ranging from 5,400 Liters (190 CFT) to 18,000 Liters (640 CFT) with configurations supporting 24 to 48 trays.
- **Optional Features:** Compatible with weekly temperature recorders, high/low temp alarms, built-in mini printers, SMS alerts, HMI with PLC full touch programmable controls, RS-485/RS232 data loggers, USB ports, and voltage stabilizers.

SIZE OPTIONS : WALK IN ENVIRONMENT TEST CHAMBER

MODEL NO.	Inner Chamber Volumetric Capacity	Tray Accommodations
JS-ETC-042A	5,400 Liters (190 CFT)	24 Trays
JS-ETC-042B	9,000 Liters (320 CFT)	32 Trays
JS-ETC-042C	12,000 Liters (425 CFT)	40 Trays
JS-ETC-042D	18,000 Liters (640 CFT)	48 Trays



*** CUSTOMIZED SIZE AVAILABLE ***

43. LEAK TEST APPARATUS (JS-LTA-043)

DESCRIPTION : Bench-mounted testing instruments specially engineered to evaluate package seal integrity, leak detection, and packaging performance across pharmaceutical, chemical, cosmetic, and food processing industries.

FEATURES :

- **System Components:** Complete with a precision vacuum gauge, adjustable vacuum regulator, high-rigidity Polycarbonate vacuum desiccator, and an oil-free vacuum pump.
- **Desiccator & Structural Options:** Offered in 10-inch and 12-inch desiccator sizes, available in both open-type and closed-type housing designs.
- **Benchtop Design:** Compact, space-saving benchtop setup with integrated control knobs and power switches for simple laboratory operation.
- **Maintenance-Free Pump:** Fitted with a heavy-duty, oil-free vacuum pump to prevent oil contamination and reduce routine maintenance requirements.
- **Broad Industrial Applications:** Ideal for blister packs, strip packs, glass/plastic bottles, pouches, and sealed pharmaceutical containers.



* CUSTOMIZED SIZE AVAILABLE *

44. WATER DISTILLATION UNIT - MANESTY TYPE (JS-WDU-044)

DESCRIPTION : A high-output water distillation apparatus engineered for the continuous production of pure, pyrogen-free distilled water required across pharmaceutical laboratories, medical facilities, research institutes, and chemical analysis centers.

FEATURES :

- Pyrogen-Free Distillation:** Specially designed to yield high-purity, pyrogen-free distilled water suitable for critical laboratory reagents, media preparation, and analytical processes.
- Heating System & Electrical Power:** Equipped with heavy-duty heating elements supporting power loads from 2 KW up to 7.5 KW, operating smoothly on a 220/230 Volts A.C. single-phase supply.
- Optimized Thermal Output:** Delivers consistent distillate water at controlled operational temperatures ranging from 60°C to 75°C (+5°C).
- Flexible Output Capacities:** Offered in multiple production rate variants, including 2 Liters, 4 Liters, 6 Liters, 8 Liters, and 10 Liters per hour.
- Durable Metal Construction:** Built with high-grade stainless steel/metallic body structure for corrosion resistance, long-term operational durability, and easy wall-mounting capability.

SIZE OPTIONS : WATER DISTILLATION UNIT - MANESTY

MODEL NO.	Output Capacity (Liters/Hour)	Power Rating (KW)
JS-WDU-044A	2 Liters / Hour	2.0 KW
JS-WDU-044B	4 Liters / Hour	3.0 KW
JS-WDU-044C	6 Liters / Hour	4.5 KW
JS-WDU-044D	8 Liters / Hour	6.0 KW
JS-WDU-044E	10 Liters / Hour	7.5 KW



* CUSTOMIZED SIZE AVAILABLE *

45. HUMIDIFIER (JS-HD-045)

DESCRIPTION : A high-efficiency aerosol fogging and room-humidification unit engineered for rapid moisture distribution, environmental humidity control, and room fumigation across cleanrooms, pharmaceutical plants, tissue culture labs, and mushroom farming facilities.

FEATURES :

- **High-Speed Drive:** Powered by a high-speed 2800 RPM heavy-duty motor engineered for continuous operational efficiency.
- **Aerodynamic Dropless Technology:** Features aerodynamically balanced fan blades that generate fine aerosol micro-droplets to deliver dropless fogging without surface wetting.
- **Dual Application Use:** Functions effectively both as an aerosol room fumigator/fogger for sterilization and as an industrial room humidifier.
- **Fogging Capacities:** Offered in output flow rate capacities of 3 Liters per hour and 5 Liters per hour to suit different room volumes.
- **Optional Automatic Control:** Can be upgraded with an optional Control Box integrated with a Humidistat for automated relative humidity monitoring and cutoff.

SIZE OPTIONS : HUMIDIFIER



* CUSTOMIZED SIZE AVAILABLE *

46. DEHUMIDIFIER (JS-DHD-046)

DESCRIPTION : An industrial-grade moisture extraction system designed to maintain low ambient humidity levels, preventing moisture damage, condensation, and microbial growth in laboratories, pharmaceutical plants, processing halls, and raw material storage areas.

FEATURES :

- **Refrigeration-Based Extraction:** Utilizes heavy-duty cooling mechanisms to pull excess moisture directly from surrounding air for rapid dehumidification.
- **Capacity Variants:** Available in industrial refrigeration capacities of 1.5 Ton and 2.0 Ton to handle varying room dimensions and volume demands.
- **Robust Frame & Mobility:** Built with a heavy-duty metallic cabinet mounted on a sturdy stand, complete with castor wheels for easy mobility around the facility.
- **Quiet & Continuous Operation:** Engineered for low-noise operation during long-term continuous extraction runs.
- **Optional Automation:** Can be integrated with an optional Digital Humidity Controller for automated precision monitoring and target RH cutoff control.

SIZE OPTIONS : DEHUMIDIFIER

MODEL NO.	SIZE OF INNER CHAMBER	CAPACITY
JS-DHD-046A	1.5 Ton Refrigeration Capacity	Medium Laboratory & Processing Hall Coverage
JS-DHD-046B	2.0 Ton Refrigeration Capacity	Large Pharmaceutical Plant & Raw Material Storage Coverage



* CUSTOMIZED SIZE AVAILABLE *

47. MUFFLE FURNACE (JS-MF-047)

DESCRIPTION : A high-temperature thermal processing furnace designed for laboratory heating, ash determination, calcination, heat treatment, and material synthesis under strictly controlled thermal conditions.

FEATURES :

- **Multi-Tier Temperature Ranges:** Available in three maximum temperature tiers: 900°C (working at 800°C), 1200°C (working at 1100°C), and 1500°C (working at 1400°C).
- **Thermal Insulation & Heating:** Built with high-grade ceramic fiber/refractory insulation to minimize outer shell heating and maximize thermal efficiency.
- **Inner Chamber Sizes:** Offered in various inner chamber dimensions ranging from 4" x 4" x 9" up to 12" x 12" x 24" to accommodate small to large batch samples.
- **Control Mechanism:** Fitted with a precision digital controller to maintain steady operational temperatures and eliminate overshoot.

SIZE OPTIONS : MUFFLE FURNACE

MODEL NO.	SIZE OF INNER CHAMBER	CAPACITY
JS-MF-047A	4" x 4" x 9" (100 x 100 x 225 mm)	900°C (Working Temp: 800°C)
JS-MF-047B	5" x 5" x 10" (125 x 125 x 250 mm)	900°C (Working Temp: 800°C)
JS-MF-047C	6" x 6" x 12" (150 x 150 x 300 mm)	1200°C (Working Temp: 1100°C)
JS-MF-047D	8" x 8" x 12" (200 x 200 x 300 mm)	1200°C (Working Temp: 1100°C)
JS-MF-047E	12" x 12" x 12" (300 x 300 x 300 mm)	1200°C / 1500°C (Working Temp: 1400°C)
JS-MF-047F	12" x 12" x 24" (300 x 300 x 600 mm)	1200°C / 1500°C (Working Temp: 1400°C)



* CUSTOMIZED SIZE AVAILABLE *

48. SLIDE WARMING TABLE (JS-SWT-048)

DESCRIPTION : A compact benchtop warming plate engineered for pre-heating, drying, and thermal mounting of microscope slides, histological sections, and biological specimens under precise, controlled surface temperatures.

FEATURES :

- **Stainless Steel Surface:** Designed with a premium Stainless Steel (S.S.) top plate ensuring fast, uniform thermal conduction, scratch resistance, and easy cleaning.
- **Thermostatic Temperature Control:** Operates with a wide temperature regulation range up to 60°C, accurately controlled using an intuitive integrated thermostat control knob.
- **Multiple Size Variants:** Available in four distinct dimensions ranging from 9" x 12" x 6" up to 24" x 18" x 6" to accommodate small, medium, or high-volume slide processing.
- **Stable Benchtop Design:** Constructed with a sturdy outer housing and anti-skid rubber feet for vibration-free and stable laboratory operation.
- **Energy Efficient:** Optimized low-power heating system engineered for continuous daily usage in pathology labs, research centers, and educational institutes.

SIZE OPTIONS : SLIDE WARMING TABLE

MODEL NO.	Surface Plate Size	Capacity / Slide Volume
JS-SWT-048A	9" x 12" x 6"	Small Batch Slide Processing
JS-SWT-048B	12" x 15" x 6"	Medium Batch Slide Processing
JS-SWT-048C	18" x 12" x 6"	Medium-High Batch Slide Processing
JS-SWT-048D	24" x 18" x 6"	High Volume Slide Processing



* CUSTOMIZED SIZE AVAILABLE *

49. VORTEX MIXER (JS-VM-049)

DESCRIPTION : A high-performance laboratory agitator designed for rapid mixing, vortexing, and homogenization of liquids in test tubes, centrifugal tubes, micro-tubes, or small flasks across analytical, clinical, and research laboratories.

FEATURES :

- **Eccentric Drive System:** Fitted with a specialized Neoprene rubber cup mounted eccentrically on the drive shaft to generate rapid rotational vortex motion when sample tubes are pressed against the cup.
- **Speed & Intensity Regulation:** Equipped with a built-in speed control arrangement that allows operators to adjust mixing intensity by regulating speed or varying the tube angle and pressure against the cup.
- **Flexible Operational Configurations:** Offered in standard, ON/OFF switch-controlled, and advanced touch-plate (touch ON/OFF) activated models for convenient continuous or touch-to-mix operation.
- **Compact Benchtop Build:** Designed with a space-saving, heavy-base housing to ensure minimal vibration and maximum operational stability on lab workbenches.
- **Electrical Input:** Operates efficiently on standard 220/230 Volts A.C. single-phase power supply.

SIZE OPTIONS : VORTEX MIXER



* CUSTOMIZED SIZE AVAILABLE *

50. V.D.R.L. SHAKER (JS-VDRL-050)

DESCRIPTION : A smooth orbital laboratory rotator engineered specifically for V.D.R.L. tests, blood grouping procedures, serological agglutination, and uniform mixing of solutions in small bottles, flasks, or diagnostic slides.

FEATURES :

- **Secure Holding Platform:** Designed with a spacious 300 mm x 300 mm platform equipped with spring holders to firmly hold blood bottles, diagnostic slides, or small flasks in place during rotation.
- **Durable Outer Construction:** Manufactured with a heavy-gauge, powder-coated Mild Steel (M.S.) body that provides high durability and structural rigidity.
- **Smooth Variable Speed Drive:** Powered by a high-torque DC motor delivering a continuously variable speed range from 40 to 180 RPM with minimal heat generation.
- **Quiet & Vibration-Free Operation:** Precision-balanced motor assembly ensures smooth, noise-free, and vibration-isolated performance on laboratory workbenches.
- **Optional Advanced Instrumentation:** Can be customized with optional Digital RPM Indicators for exact speed monitoring and Digital Timers for automated batch processing.

SIZE OPTIONS : V.D.R.L. SHAKER



* CUSTOMIZED SIZE AVAILABLE *

51. AUTOMATIC TISSUE PROCESSOR (JS-ATP-051)

DESCRIPTION : An automated histopathology workstation designed for multi-stage tissue sample preparation, fixation, dehydration, clearing, and paraffin wax infiltration of biological specimens.

FEATURES :

- **Multi-Station Assembly:** Complete setup includes 10 reagent containers, 2 stainless steel wax baths, and 2 stainless steel basket rotors for batch processing.
- **Capacity Configurations:** Available in 1 Liter (DRIT-153) and 2 Liter (DRIT-153-A) station volume models.
- **Automated Transfer:** Programmable rotation and immersion system ensures precise incubation times across all processing stages.
- **Optional Advanced Upgrades:** Compatible with a bright touch screen control interface, integrated fume extraction system, and vacuum infiltration control system.

SIZE OPTIONS : AUTOMATIC TISSUE PROCESSOR

MODEL NO.	Station Volume / Container Capacity
JS-ATP-051A	1 Liter Station Volume
JS-ATP-051B	2 Liter Station Volume



* CUSTOMIZED SIZE AVAILABLE *

52. HOT PLATE (JS-HP-052)

DESCRIPTION : A laboratory heating apparatus designed for uniform thermal heating, sample incubation, chemical digestion, and liquid boiling in scientific, medical, and industrial environments.

FEATURES :

- **Heating Surface Dimensions:** Features an 8-inch diameter heating plate.
- **Heating Power & Electrical Input:** Delivers 1 KW heater load operating on a standard 230 V/AC power supply.
- **Material Surface Options:** Available in standard heating surface options as well as stainless steel top variants.
- **Configuration Variants:** Offered in both Single Plate and Double Plate setups.

SIZE OPTIONS : HOT PLATE

MODEL NO.	SIZE OF INNER CHAMBER	CAPACITY
JS-HP-052A	8 Inch Diameter (Round)	Single Plate Setup / 1.0 kW Load
JS-HP-052B	10 Inch Diameter (Round)	Single Plate Setup / 1.5 kW Load
JS-HP-052C	12 Inch Diameter (Round)	Single Plate Setup / 2.0 kW Load
JS-HP-052D	Dual 8 Inch Diameter Plates	Double Plate Setup / 2.0 kW Load



*** CUSTOMIZED SIZE AVAILABLE ***

53. MANUAL ROTARY MICROTOME (JS-MRM-053)

DESCRIPTION : A precision laboratory instrument designed for sectioning paraffin-embedded tissue samples in histology, pathology, and material research laboratories.

FEATURES :

- **Flexible Object Clamp:** Equipped with a ball and flange object clamp for flexible orientation of the specimen.
- **Specimen & Knife Capacity:** Accommodates specimens up to 32 x 27 mm on the stem of block holders. Knife holder allows for 120 mm on a 180 mm long knife.
- **Adjustable Cutting Angle & Levers:** Cutting angle is adjustable through 30 degrees. Uses two levers to release the knife holder for angle resets and a third lever to release the assembly along the slideway to adjust horizontal distance.
- **Advanced Cam Feeding Mechanism:** Features a modern cam system that replaces conventional cord-feeding mechanisms, providing improved efficiency and sectioning precision.
- **Complete Standard Accessories:** Supplied complete with one 120 mm knife (with back and handle in a wooden box), 2 block holders, 1 bottle of lubrication oil, and a dust cover.

SIZE OPTIONS : MANUAL ROTARY MICROTOME



* CUSTOMIZED SIZE AVAILABLE *

54. SEMI AUTOMATIC MICROTOME (JS-SAM-054)

DESCRIPTION : An advanced semi-automated sectioning instrument designed for histology, pathology, and material research laboratories, offering motorized specimen feed combined with manual hand wheel slicing for high-precision tissue sectioning.

FEATURES :

- **Maximum Specimen Size:** Accommodates specimen dimensions up to 50 mm x 60 mm x 40 mm (L x H x W).
- **Semi-Automated Feeding:** Combines motorized precision specimen advancement with manual cutting control for consistent section thickness.
- **Integrated Control Panel:** Features a digital interface and control buttons on the front panel for setting sectioning parameters and feed distance.
- **Ergonomic Design:** Equipped with a smooth hand wheel mechanism and a spacious waste tray for convenient laboratory operation and easy clean-up.

SIZE OPTIONS : SEMI AUTOMATIC MICROTOME



* CUSTOMIZED SIZE AVAILABLE *

55. FULLY AUTOMATIC MICROTOME (JS-FAM-055)

DESCRIPTION : A high-precision motorized sectioning system designed for automated tissue sample preparation in histology, pathology, clinical diagnostics, and materials research laboratories.

FEATURES :

- **Maximum Specimen Size:** Accommodates specimen dimensions up to 50 mm x 60 mm x 40 mm (L x H x W).
- **Fully Motorized Drive System:** Offers fully automated specimen sectioning and feeding for consistent slice thickness and high-throughput sample processing.
- **Digital Control Panel:** Equipped with an integrated display panel for setting sectioning modes, stroke speeds, and precision thickness settings.
- **Ergonomic Housing & Waste Tray:** Built with a heavy-duty outer shell, smooth handwheel, and a removable waste tray for quick clean-up.

SIZE OPTIONS : FULLY AUTOMATIC MICROTOME



* CUSTOMIZED SIZE AVAILABLE *

56. CRYOSTAT MICROTOME (JS-CM-056)

DESCRIPTION : A specialized low-temperature freezing microtome system designed for rapid sectioning of fresh, unfixed, or frozen tissue specimens in clinical pathology, intraoperative biopsy diagnosis, and research applications.

FEATURES :

- **Sectioning Range:** Adjustable section thickness from 2 to 20 microns in increments of 2 microns.
- **Precision Freezing Chamber:** Integrated refrigeration chamber maintains low sub-zero temperatures for stable tissue freezing and slicing.
- **Control Panel:** Mounted with a digital control console for monitoring chamber temperature and operational parameters.
- **Heavy-Duty Floor Design:** Built as a free-standing cabinet with smooth hand wheel operation and an insulated top viewing window.

SIZE OPTIONS : CRYOSTAT MICROTOME

MODEL NO.	SIZE OF INNER CHAMBER	CAPACITY
JS-CM-056A	Standard Refrigerated Chamber	Temp Range: Up to -30°C (Clinical Pathology)
JS-CM-056B	Extended Heavy-Duty Chamber	Temp Range: Up to -35°C (Advanced R&D / Histology)



* CUSTOMIZED SIZE AVAILABLE *

57. LAMINAR AIR FLOW CABINET (VERTICAL) (JS-AFV-057)

DESCRIPTION : A vertical laminar airflow workstation designed to provide a sterile, particle-free environment for microbiological work, tissue culture, sample preparation, and sensitive laboratory operations.

FEATURES :

- Cabinet Construction:** Fabricated out of thick board duly mild steel powder-coated or stainless steel, featuring side panels made of thick framed transparent plexiglass.
- High-Efficiency Filtration:** Equipped with a pre-filter and high-efficiency HEPA filter offering up to 99.99% efficiency in retaining airborne particles down to 0.3 micron and larger.
- Integrated Accessories:** Fitted with a UV germicidal tube, fluorescent light, manometer, and gas cock for comprehensive operational utility.
- Quiet Blower Motor:** Powered by a statically and dynamically balanced 1/4 H.P. motor assembly designed to operate with minimal noise level.
- Comfortable Ergonomics & Power:** Designed with a working table that provides a comfortable sit-down working position for operators on a 220/230V AC supply.

SIZE OPTIONS : LAMINAR AIR FLOW CABINET (VERTICAL)

MODEL NO.	SIZE OF INNER CHAMBER	CAPACITY
JS-AFV-057A	2 x 2 x 2 Feet	Compact Single-Operator Workspace
JS-AFV-057B	3 x 2 x 2 Feet	Standard Single-Operator Workspace
JS-AFV-057C	4 x 2 x 2 Feet	Extended Dual-Operator Workspace
JS-AFV-057D	6 x 2 x 2 Feet	Large Capacity Multi-Operator Workspace



*** CUSTOMIZED SIZE AVAILABLE ***

58. LAMINAR AIR FLOW CABINET

(HORIZONTAL) (JS-AFH-058)

DESCRIPTION : A vertical laminar airflow workstation designed to provide a sterile, particle-free environment for microbiological work, tissue culture, sample preparation, and sensitive laboratory operations.

FEATURES :

- Cabinet Construction:** Fabricated out of thick board duly mild steel powder-coated or stainless steel, featuring side panels made of thick framed transparent plexiglass.
- High-Efficiency Filtration:** Equipped with a pre-filter and high-efficiency HEPA filter offering up to 99.99% efficiency in retaining airborne particles down to 0.3 micron and larger.
- Integrated Accessories:** Fitted with a UV germicidal tube, fluorescent light, manometer, and gas cock for comprehensive operational utility.
- Quiet Blower Motor:** Powered by a statically and dynamically balanced 1/4 H.P. motor assembly designed to operate with minimal noise level.
- Comfortable Ergonomics & Power:** Designed with a working table that provides a comfortable sit-down working position for operators on a 220/230V AC supply.

SIZE OPTIONS : LAMINAR AIR FLOW CABINET (HORIZONTAL)

MODEL NO.	SIZE OF INNER CHAMBER	CAPACITY
JS-AFH-058A	600 x 600 x 600 mm (2 Feet)	Compact Single-Operator Workbench
JS-AFH-058B	900 x 600 x 600 mm (3 Feet)	Standard Single-Operator Workbench
JS-AFH-058C	1200 x 600 x 600 mm (4 Feet)	Standard Dual-Operator Workbench
JS-AFH-058D	1800 x 600 x 600 mm (6 Feet)	Large Capacity Batch Workbench



*** CUSTOMIZED SIZE AVAILABLE ***

59. STATIC PASS BOX (JS-SPB-059)

DESCRIPTION : A cleanroom transfer chamber designed for safe material transfer between areas of equal cleanliness levels, preventing cross-contamination and minimizing personnel movement.

FEATURES :

- **Application & Reliability:** Designed for laboratory and scientific applications requiring high operational performance and long service life.
- **Durable Enclosure:** Built with high-grade metal construction featuring a glass viewing window and sturdy latch mechanism for secure sealing.
- **Multiple Size Options:** Available in inner dimensions of 455 x 455 x 455 mm, 600 x 600 x 600 mm, and 600 x 600 x 900 mm.

SIZE OPTIONS : STATIC PASS BOX

MODEL NO.	SIZE OF INNER CHAMBER	CAPACITY
JS-SPB-059A	455 x 455 x 455 mm (1.5 Feet Cube)	Compact Transfer Hatch
JS-SPB-059B	600 x 600 x 600 mm (2 Feet Cube)	Standard Cleanroom Hatch
JS-SPB-059C	600 x 600 x 900 mm (Vertical Tall)	Large Batch Material Transfer



* CUSTOMIZED SIZE AVAILABLE *

60. DYNAMIC PASS BOX (JS-DPB-060)

DESCRIPTION : A cleanroom transfer chamber designed for safe material transfer between areas of equal cleanliness levels, preventing cross-contamination and minimizing personnel movement.

FEATURES :

- **Application & Reliability:** Suitable for diverse laboratory and scientific applications requiring high operational performance, dependability, and extended service life.
- **Integrated Dynamic Filtration Unit:** Engineered with a top-mounted blower module and air ventilation housing to provide continuous air recirculating/sweeping during material transfer.
- **Sturdy Stainless Steel Cabinet:** Built with a durable metallic body featuring an integrated glass viewing window and door handle mechanism.
- **Available Size Configurations:** Offered in inner chamber dimensions of 455 x 455 x 455 mm, 600 x 600 x 600 mm, and 600 x 600 x 900 mm.

SIZE OPTIONS : DYNAMIC PASS BOX

MODEL NO.	SIZE OF INNER CHAMBER	CAPACITY
JS-DPB-060A	455 x 455 x 455 mm (1.5 Feet Cube)	Compact Transfer Hatch
JS-DPB-060B	600 x 600 x 600 mm (2 Feet Cube)	Standard Cleanroom Hatch
JS-DPB-060C	600 x 600 x 900 mm (Vertical Tall)	Large Batch Material Transfer



* CUSTOMIZED SIZE AVAILABLE *

61. BIOLOGICAL SAFETY CABINET SS & MS (JS-BSC-061)

DESCRIPTION : A Class II Type A2 biological safety cabinet manufactured with a full stainless steel body for superior chemical resistance, ease of sterilization, and high-containment biological sample handling.

FEATURES :

- Safety Classification:** Built as a Class II, Type A-2 Biosafety Cabinet providing personnel, product, and environmental protection.
- All-Stainless Steel Construction:** Fabricated entirely from high-grade Stainless Steel (SS) & Mild steel (MS) for maximum corrosion resistance and durability in sterile lab environments.
- Pressure & Airflow Monitoring:** Equipped with a front-mounted pressure dial gauge to monitor HEPA filter differential pressure.
- Multiple Dimension Options:** Available in inner chamber sizes of 600 x 600 x 600 mm, 900 x 600 x 600 mm, 1200 x 600 x 600 mm, and 1800 x 600 x 600 mm.

SIZE OPTIONS : BIOLOGICAL SAFETY CABINET SS

MODEL NO.	SIZE OF INNER CHAMBER	CAPACITY
JS-BSC-061A	600 x 600 x 600 mm (2 Feet)	Compact Single-User Workstation
JS-BSC-061B	900 x 600 x 600 mm (3 Feet)	Standard Single-User Workstation
JS-BSC-061C	1200 x 600 x 600 mm (4 Feet)	Standard Two-User Workstation
JS-BSC-061D	1800 x 600 x 600 mm (6 Feet)	High-Capacity Dual Workbench



* CUSTOMIZED SIZE AVAILABLE *

62. FUME HOOD (MS & SS) (JS-FH-062)

DESCRIPTION : A semi-closed ventilated enclosure designed to protect users from harmful, toxic fumes and vapors while preventing accidental fire risks caused by inflammable gases during laboratory experiments.

FEATURES :

- Robust Construction & Granite Work Table:** Built using industrial-grade fire-resistant commercial wooden board covered with laminated sheets, paired with a durable granite work surface and a small built-in sink.
- Counter-Balanced Glass Sash:** Features a framed glass sliding sash operating on a smooth counter-weight balanced mechanism.
- High-Efficiency Exhaust System:** Equipped with a dynamically balanced centrifugal impeller driven by a 1440 RPM high-speed motor for effective fume extraction.
- Optimized Illumination & Power:** Guarantees a minimum workspace illumination level of approximately 800 Lux and operates on a 220/230V AC, 50/60Hz supply.

SIZE OPTIONS : FUME HOOD (MS & SS)

MODEL NO.	SIZE OF INNER CHAMBER	CAPACITY
JS-FH-062A	900 x 600 x 600 mm (3 Feet)	Compact Single-Operator Workbench
JS-FH-062B	1200 x 600 x 600 mm (4 Feet)	Standard Dual-Service Workbench
JS-FH-062C	1500 x 750 x 750 mm (5 Feet)	Heavy Chemical Extraction Bench
JS-FH-062D	1800 x 750 x 900 mm (6 Feet)	Large Industrial R&D Cabinet
JS-FH-062E	2450 x 1070 x 2450 mm (8 Feet)	Max Capacity Floor-Mounted Unit



* CUSTOMIZED SIZE AVAILABLE *

63. KAHN (RECIPROCTING) SHAKER (JS-KS-063)

DESCRIPTION : A laboratory reciprocating shaker designed to accommodate Kahn racks, bottles, or flasks of various sizes using adjustable rod compartments for controlled mixing operations.

FEATURES :

- Versatile Holding System:** Accommodates Kahn racks, bottles, or flasks of different sizes by adjusting the compartment layout with holding rods.
- Heavy Duty Motor & Variable Speed:** Powered by a heavy-duty DC motor with a continuously variable electronic speed regulator adjustable from 50 to 250 rpm.
- Standard Electrical Power:** Designed to operate on a 220/230 volts A.C. supply.
- Available Sizes & Optional Accessories:** Offered in three internal tray sizes (20x13x4, 31x17x4, and 36x18x4 inches) with options for Digital RPM, Digital Timer, and DC Drive controllers.

SIZE OPTIONS : KAHN (RECIPROCTING) SHAKER

MODEL NO.	Tray Size / Platform Dimensions	Holding Capacity Range
JS-KS-063A	20 x 13 x 4 Inch (500 x 330 mm)	Holds up to 2-4 Kahn Racks / Multiple Flasks
JS-KS-063B	31 x 17 x 4 Inch (780 x 430 mm)	Holds up to 6-8 Kahn Racks / Multiple Flasks
JS-KS-063C	36 x 18 x 4 Inch (900 x 450 mm)	Holds up to 8-10 Kahn Racks / Heavy Batch



* CUSTOMIZED SIZE AVAILABLE *

64. WRIST ACTION SHAKER (JS-WAS-064)

DESCRIPTION : A heavy-duty laboratory shaker designed to simulate manual wrist-action swirling for efficient mixing and agitation of liquids in flasks.

FEATURES :

- Construction & Drive:** Features a heavy-duty fabricated body equipped with side arms to hold flasks securely and a heavy-duty variable-speed motor.
- Flask Compatibility:** Designed to accommodate flasks with capacities ranging from 100 ml to 1000 ml.
- Model Configurations:** Available in options to hold 4 flasks (DRIT-168) or 8 flasks (DRIT-168-A). * Optional Accessories: Can be fitted with an optional 60-minute timer for automated operation.

SIZE OPTIONS : WRIST ACTION SHAKER

MODEL NO.	Flask Holding Capacity
JS-WAS-064A	Holds 4 Flasks (2 on each side)
JS-WAS-064B	Holds 8 Flasks (4 on each side)



* CUSTOMIZED SIZE AVAILABLE *

65. WAGNER S SHAKER (JS-WSS-065)

DESCRIPTION : A robust laboratory rotary end-over-end/tilting shaker designed for end-over-end mixing of bottles and flasks across chemical analysis, soil testing, and biological samples.

FEATURES :

- Frame & Mounting Design:** The shaking frame is mounted on a spindle with a pulley for power drive, supported by bearings on a heavy metal upright base.
- Vessel Compatibility:** Accommodates bottles and flasks of various sizes ranging from 500 ml to 1 liter.
- Motor & Speed Rating:** Powered by a 1/4 H.P. motor operating at 60 to 70 RPM on a 220V single-phase electrical supply.
- Model Capacity Options:** Available in 6-bottle (DRIT-169) and 12-bottle (DRIT-169-A) configurations arranged across 2 rows.
- Optional Accessories:** Available with optional Digital RPM gauge and Digital Timer modules.

SIZE OPTIONS : WAGNER S SHAKER

MODEL NO.	Bottle Capacity	Suitable Container Size
JS-WSS-065A	6 Bottles	500 ml to 1 Litre Bottles/Flasks
JS-WSS-065B	12 Bottles	500 ml to 1 Litre Bottles/Flasks



* CUSTOMIZED SIZE AVAILABLE *

66. GEL ROKER SHAKER (JS-GRS-066)

DESCRIPTION : A see-saw rocking shaker designed for gentle to thorough mixing of gels, blot washing, hybridization, and sample staining in molecular biology and biochemistry laboratories.

FEATURES :

- **Rocking Platform:** Built with a flat platform platform designed for holding gel trays and culture vessels.
- **Dimension Options:** Available in two platform dimensions: 12x12 inches (DRIT-170) and 12x16 inches (DRIT-170-A).
- **Control Unit:** Mounted on a sturdy base featuring power switches and control knobs.
- **Optional Accessories:** Available with optional Digital Rpm gauge and Digital timer controllers.

SIZE OPTIONS : GEL ROKER SHAKER

MODEL NO.	SIZE OF INNER CHAMBER	Tray Holding Capacity	Speed & Tilt Angle
JS-GRS-066A	12 x 12 Inch (300 x 300 mm)	Holds up to 2 Standard Gel Trays	Variable (10-80 RPM), ±7° Tilt
JS-GRS-066B	12 x 16 Inch (300 x 400 mm)	Holds up to 4 Standard Gel Trays	Variable (10-80 RPM), ±7° Tilt



* CUSTOMIZED SIZE AVAILABLE *

67. BALL MILL (JS-BM-067)

DESCRIPTION : An electrically operated laboratory ball mill designed for grinding and pulverizing materials from a few grams up to 10 kg capacity.

FEATURES :

- **Electric Drive Options:** Fitted with a DC motor for up to 2 kg jar capacity and a 1/4 H.p heavy duty AC motor for 5 kg jar capacity.
- **Speed & Power:** Reaches a maximum speed of 80 RPM and operates on a 220 volts power supply.
- **Construction & Grinding Media:** Jars are made of Aluminum, Stainless Steel (S.S), or Mild Steel (M.S) supplied with steel balls of different sizes.
- **Interchangeability:** Jars are easily removable and interchangeable.

SIZE OPTIONS : BALL MILL

MODEL NO.	Jar Material Option	Batch Capacity	Motor Specification
JS-BM-067A	Mild Steel (M.S) / Stainless Steel (S.S.)	1 Kg	DC Motor with Speed Regulator
JS-BM-067B	Mild Steel / S.S. / Porcelain / Aluminum	2 Kg	DC Motor with Speed Regulator
JS-BM-067C	Heavy-Duty S.S. 304 / 316 / M.S.	5 Kg	1/4 H.P. Heavy-Duty AC Motor
JS-BM-067D	Heavy Industrial S.S. / M.S. Drum	10 Kg	1/2 H.P. / 1 H.P. Heavy Motor with VFD



* CUSTOMIZED SIZE AVAILABLE *

68. ELECTRIC AGATE MORTAR PESTLE (FISHER TYPE) (JS-EMP-068)

DESCRIPTION : An electric agate mortar and pestle designed for unattended grinding of non-gummy and non-fibrous materials, extensively used for preparing coal samples for calorific tests.

FEATURES :

- **Electric Drive Options:** Fitted with a DC motor for up to 2 kg jar capacity and a 1/4 H.p heavy duty AC motor for 5 kg jar capacity.
- **Speed & Power:** Reaches a maximum speed of 80 RPM and operates on a 220 volts power supply.
- **Construction & Grinding Media:** Jars are made of Aluminum, Stainless Steel (S.S), or Mild Steel (M.S) supplied with steel balls of different sizes.
- **Interchangeability:** Jars are easily removable and interchangeable.

SIZE OPTIONS : ELECTRIC AGATE MORTAR PESTLE (FISHER TYPE)

MODEL NO.	Mortar Bowl Diameter	Batch Grinding Capacity	Motor Type
JS-EMP-068A	75 mm (3 Inch)	Up to 100 - 250 Grams	DC Motor (Compact)
JS-EMP-068B	100 mm (4 Inch)	Up to 250 - 500 Grams	DC / Gear Motor
JS-EMP-068C	125 mm (5 Inch)	Up to 1 Kg / 2 Kg	1/4 H.P. Heavy Motor
JS-EMP-068D	150 mm (6 Inch)	Up to 2 Kg / 5 Kg	1/4 H.P. Heavy-Duty AC Motor



*** CUSTOMIZED SIZE AVAILABLE ***

69. SIEVE SHAKER (JS-GSS-069)

DESCRIPTION : A laboratory sieve shaker designed to hold test sieves for efficient particle separation and material sizing operations.

FEATURES :

- **Capacity:** Accommodates up to six test sieves of 8-inch or 12-inch diameter.
- **Heavy-Duty Motor & Speed Control:** Driven by a heavy-duty DC motor featuring a continuously variable electronic speed regulator.
- **Power Requirements:** Designed to operate on a 220/230 Volts A.C supply (supplied without sieves).
- **Platform Configurations:** Available in 8-inch diameter and 12-inch diameter sizing options.
- **Optional Accessories:** Compatible with optional digital RPM display and timer controls.

SIZE OPTIONS : SIEVE SHAKER

MODEL NO.	Sieve Diameter Platform	Capacity (No. of Sieves)
JS-GSS-069A	8 Inch (200 mm) Diameter	Holds up to 6 to 8 Test Sieves + Pan & Lid
JS-GSS-069B	12 Inch (300 mm) Diameter	Holds up to 6 to 8 Test Sieves + Pan & Lid
JS-GSS-069C	Dual Adaptor (8" & 12")	Convertible platform for both 8" and 12" sieves



Note: Test Sieves (Chalniyan) are not included with the main machine unit and are supplied as optional accessories at an additional cost based on required mesh sizes.

* CUSTOMIZED SIZE AVAILABLE *

70. ROLLER POT MILL (JS-RPM-070)

DESCRIPTION : A standard laboratory roller pot mill designed for fine grinding, homogenizing, and mixing liquid or dry samples in rotating jars.

FEATURES :

- Variable Speed Control:** Equipped with a variable speed drive mechanism for adjustable rotation speeds.
- Safety Guards:** Fitted with electrical roller guards to prevent user access to rotating rollers while the mill is in operation.
- Power Supply:** Operates on 230V / 1-Phase / 50Hz supply voltage across all model variants.
- Platform & Roller Configurations:** Available in 8-inch diameter and 12-inch diameter setups, as well as two-roller models with 13-inch long rollers or 22-inch long rollers.

SIZE OPTIONS : ROLLER POT MILL

MODEL NO.	Roller Configuration / Size	Jar Capacity Range
JS-RPM-070A	2 Rollers (13" Length x 2" Dia)	1 Litre to 2 Litres Jars
JS-RPM-070B	2 Rollers (18" Length x 2.5" Dia)	2 Litres to 5 Litres Jars
JS-RPM-070C	2 Rollers (22" Length x 3" Dia)	5 Litres to 10 Litres Jars
JS-RPM-070D	4 Rollers (36" Length x 3" Dia - Multi-Jar)	Up to 15 Litres Total Capacity



* CUSTOMIZED SIZE AVAILABLE *

71. VORTEX MIXTURE (CYCLIC MIXTURE) (JS-VM-071)

DESCRIPTION : A compact laboratory vortex mixer designed to accelerate the rapid mixing of solutions in test tubes, small flasks, or centrifuge tubes.

FEATURES :

- **Agitation Mechanism:** Powered by a short eccentric stroke motor that imparts vigorous agitation to tubes or flasks.
- **Speed Control:** Includes an integrated speed control device to regulate agitation intensity.
- **Housing & Finish:** Built with a 150x150 mm housing footprint made of a strong body finished in durable powder-coated paint.
- **Electrical Specification:** Operates on 220V AC, 50Hz single-phase power supply.

SIZE OPTIONS : VORTEX MIXTURE (CYCLIC MIXTURE)

MODEL NO.	Housing Footprint Size	Speed & Operation Capacity
JS-VM-071A	150 x 150 mm Base	Up to 2500 RPM
JS-VM-071B	150 x 150 mm Base	Up to 3000 RPM



* CUSTOMIZED SIZE AVAILABLE *

72. MAGNETIC STIRRER (JS-MS-072)

DESCRIPTION : A laboratory magnetic stirrer with an integrated heating plate designed for efficient stirring and heating of liquid solutions.

FEATURES :

- **Speed Control:** Equipped with an electronic regulator to smoothly adjust and control the stirring speed.
- **Heating Element:** Features a Kanthal wire heater with easy temperature adjustment for controlled sample heating.
- **Safe Construction:** Built with fire-proof wiring connections for safer laboratory operation.
- **Capacity Options:** Available in liquid capacity configurations of 1 to 2 Liters, 5 Liters, and 10 Liters.

SIZE OPTIONS : MAGNETIC STIRRER

MODEL NO.	Top Plate Diameter / Size	CAPACITY
JS-MS-072A	135 mm (5.3 Inch)	1 Liter
JS-MS-072B	150 mm (6 Inch)	2 Liters
JS-MS-072C	180 mm (7 Inch)	5 Liters
JS-MS-072D	220 mm (8.6 Inch)	10 Liters



* CUSTOMIZED SIZE AVAILABLE *

73. LAB EMULSIFIER (HOMOGENIZER) (JS-LE-073)

DESCRIPTION : A laboratory emulsifier and homogenizer designed for rapid dispersion, emulsification, and high-shear mixing of liquid samples.

FEATURES :

- **Motor & Speed Range:** Fitted with an AC/DC motor featuring an integrated speed regulator, reaching maximum operating speeds of 4000 to 6000 RPM.
- **Mixing Disc:** Equipped with a perforated stainless steel (S.S) disc for efficient shearing and particle size reduction.
- **Adjustable Mounting Assembly:** Supplied complete with a mounting stand offering smooth horizontal and vertical height adjustment.
- **Motor Power Options:** Available in 1/20 H.P and 1/6 H.P capacity variants.

SIZE OPTIONS : LAB EMULSIFIER (HOMOGENIZER)

MODEL NO.	Motor Power / Capacity	Speed Range
JS-LE-073A	1/20 H.P.	Up to 4000 RPM
JS-LE-073B	1/6 H.P.	Up to 6000 RPM



* CUSTOMIZED SIZE AVAILABLE *

74. MICRO TISSUE HOMOGENIZER (JS-MT-074)

DESCRIPTION : A high-speed micro tissue homogenizer designed for rapid tissue reduction, sample disruption, and preparation of fine emulsions across biological and chemical applications.

FEATURES :

- **Motor & Speed Control:** Powered by a 1/10 H.P 4000 RPM motor equipped with an integrated speed regulator for precise speed adjustment.
- **Cutting Mechanism:** Features a stainless steel shaft fitted with rapidly rotating, razor-sharp micro cutting blades for thorough tissue breakdown.
- **Vessel Compatibility:** Supplied with micro homogenizing bottles/flasks suitable for sample volumes of 25 ml, 50 ml, and 100 ml.
- **Stand Assembly & Power:** Complete with a vertical mounting stand assembly and designed to operate on a 220 Volts A.C power supply.

SIZE OPTIONS : MICRO TISSUE HOMOGENIZER

MODEL NO.	Vessel Capacity	Speed Range
JS-MT-074A	25 ml	Up to 4000 RPM
JS-MT-074B	50 ml	Up to 4000 RPM
JS-MT-074C	100 ml	Up to 4000 RPM
JS-MT-074D	25 ml, 50 ml & 100 ml	Up to 4000 RPM



* CUSTOMIZED SIZE AVAILABLE *

75. FLOCCULATOR (JAR TEST) (JS-FC-075)

DESCRIPTION : Designed specifically for water and sewage treatment plants to determine optimal dosing of alum and coagulants by providing identical stirring conditions across samples.

FEATURES :

- **Illuminated Base:** Features a fluorescent tube mounted below a translucent plastic plate to pass diffused cold light through samples for clear visibility.
- **Drive & Speed Control:** Powered by a heavy-duty variable DC motor with built-in speed control delivering 10 to 200 RPM.
- **Stirring Assembly:** Equipped with stainless steel (S.S) stirring rods with adjustable spacers for paddle depth adjustment; individual stirring shafts can be removed without disturbing adjacent stirrers.
- **Electrical Specs & Configuration:** Operates on 220/230 Volts A.C (supplied without beakers) and comes in 2-stirrer, 4-stirrer, and 6-stirrer setups.
- **Optional Accessories:** Available with optional DC drive for low RPM, Digital RPM meter, and Digital timer.

SIZE OPTIONS : FLOCCULATOR (JAR TEST)

MODEL NO.	Stirrer Capacity	Beaker Volume / Capacity
JS-FC-075A	2 Stirrers / Jars	1 Litre / 2 Litres
JS-FC-075B	4 Stirrers / Jars	1 Litre / 2 Litres
JS-FC-075C	6 Stirrers / Jars	1 Litre / 2 Litres



* CUSTOMIZED SIZE AVAILABLE *

76. DIGITAL CHEMICAL OXYGEN DEMAND (COD) DIGESTER) (JS-COD-076)

DESCRIPTION : A laboratory COD Digester designed for sample digestion in wastewater analysis, environmental testing, and Chemical Oxygen Demand determination.

FEATURES :

- **Heating Block & Capacity:** Built with a high-grade, uniform-heating aluminum block featuring 15 holes designed to fit standard 38 mm diameter reaction vials/tubes.
- **Temperature Control:** Equipped with a microprocessor-based PID digital controller with a temperature range from ambient up to 180°C (accuracy ±1°C).
- **Integrated Digital Timer:** Includes a timer configurable up to 120 minutes with an automatic audio alarm and heating cut-off upon completion.
- **Cabinet & Insulation:** Housed in a heavy-duty, powder-coated mild steel outer cabinet with thermal insulation for energy efficiency and user safety.

SIZE OPTIONS : DIGITAL CHEMICAL OXYGEN DEMAND (COD) DIGESTER)

MODEL	CAPACITY	Hole Diameter / Tube Size
JS-COD-076A	15 Samples / Holes (Standard)	38 mm diameter
JS-COD-076B	20 Samples / Holes	38 mm diameter
JS-COD-076C	25 Samples / Holes	38 mm diameter
JS-COD-076D	30 Samples / Holes	38 mm diameter



*** CUSTOMIZED SIZE AVAILABLE ***

77. MASHING BATH (JS-MB-077)

DESCRIPTION : The Mashing Bath is specialized laboratory equipment designed for precision temperature-controlled mashing processes in brewing, malting, and food/agricultural research applications.

FEATURES :

- **Construction & Material:** Built with high-grade Stainless Steel 304 for durability, corrosion resistance, and easy maintenance in liquid environments
- **Temperature & Process Control:** Features an i-therm digital controller for precise thermal regulation, accompanied by individual switches for heater and stirrer functions
- **Agitation Mechanism:** Equipped with variable stirrer speed control knobs to ensure uniform heat distribution and mixing across samples
- **Power & Operation:** Operates on standard laboratory electrical input with a front-facing main ON/OFF switch and clear

SIZE OPTIONS : MASHING BATH

MODEL	CAPACITY
JS-MB-077A	2 JAR
JS-MB-077B	4 JAR
JS-MB-077C	6 JAR
JS-MB-077D	8 JAR
JS-MB-077E	10 JAR



* CUSTOMIZED SIZE AVAILABLE *

78. TERG-O-TOMETER (JS-TOT-078)

DESCRIPTION : The Mashing Bath is specialized laboratory equipment designed for precision temperature-controlled mashing processes in brewing, malting, and food/agricultural research applications.

FEATURES :

- **Construction & Build:** Heavy-duty double-walled body featuring a corrosion-resistant Stainless Steel (S.S.) inner chamber and an outer structure with durable powder coating, integrated with high-density thermal insulation
- **Temperature Control System:** Microprocessor-based digital temperature controller with a precision sensor to maintain uniform thermal conditions across test chambers
- **Agitation & Drive Mechanism:** Driven by a robust variable-speed motor featuring an integrated speed controller and digital speed indicators for precise RPM regulation
- **Multi-Station Setup:** Configured with multiple independent washing jars/pots equipped with specialized stainless steel agitator shafts for parallel sample testing
- **Power Supply:** Operates on standard 220–230 Volts AC, 50/60 Hz power input fitted with a standard Indian plug



*** CUSTOMIZED SIZE AVAILABLE ***