YSP INSTRUMENTS

Quality Instruments. Trusted Performance.

Email
yspscientificsolutions.com

Phone
7338721875

Table of Contents – YSP Instruments

In addition, YSP Scientific Solution provides strong service support including:

- Comprehensive **warranty of up to 2 year**
- Industry-leading sales support and AMC service network
- Ongoing technical and application support from experienced and qualified engineers

Our business practice is **built on trust, transparency, and reliability.** These values are deeply appreciated by our clients and help us maintain the highest standards of quality in every aspect of our work.

We remain committed to upholding the trust placed in us and continuously strive to deliver the very best products and services.

Vision

To become a complete scientific equipment and laboratory instruments solution provider serving industries, institutions, and research sectors across all fields.

Mission

At YSP Scientific Solution, we continuously evaluate and deliver a wide range of high-quality products that meet the evolving needs of end users. We strive to remain steadfast in our decisions and policies, uphold the trust our customers place in us, and carry out our responsibilities with dedication, professionalism, and integrity.

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

Why Buy from YSP Instruments

When you **purchase instruments and equipment from YSP Instruments,** you receive more than just a product — you gain reliability, assurance, and professional support.

We provide an **additional 1-year warranty** on selected instruments, ensuring long-term performance and peace of mind for our customers.

In addition, we assist with **NABL-certified calibration support,** helping businesses and laboratories maintain compliance with recognized quality standards.

Our focus is to deliver **high-quality instruments, dependable service,** and trusted technical support, making YSP Instruments a reliable partner for your equipment needs.

AUTOCLAVE (VERTICAL TYPE)

Made: YSP Scientific Solution

Application:

Medical, Agriculture, Educational Institutions, Dairy, Food & Beverage, Biotechnology & Hospitals, Chemical, Chemical Laboratories, Cement Industries, etc.

- Used in chemical reactions in pharmaceutical and chemical industries
- Used for pre-disposal treatment and sterilization of waste materials
- Used for sterilizing instruments, glassware, and plasticware
- Suitable for laboratories, research institutes, hospitals, and testing facilities

Features:

- Double-walled construction with boiler made of stainless steel thick sheet
- Inner and outer chamber fully made of high-quality stainless steel sheet
- Lid made of stainless steel thick plate and tightened all around using wing nut locking system
- Sterilizer hydraulically tested up to 40 psi for safety and fitted with neoprene rubber gasket to ensure tight sealing
- Equipped with pressure gauge, steam release cock, spring-loaded safety valve adjustable between 15 psi to 20 psi ± 3 psi, and drain outlet
- Fitted with ISI marked immersion type heating element suitable for raising water and steam to desired temperature and pressure
- Supplied complete with pedal lifting device, perforated stainless steel basket, wing nut opener, cord and plug suitable for 220V, 50Hz AC supply

TECHNICAL SPECIFICATION	YSP001	YSP002	YSP003	YSP004	YSP005	YSP006
Inner Size (Dia & Depth)	250x450 mm	300x500 mm	350x600 mm	450x600 mm	550x750 mm	750x100 mm
Capacity	22 Ltrs	40 Ltrs	50 Ltrs	98 Ltrs	152 Ltrs	Ltrs
Load	2 KW	3 KW	3 KW	4 KW	5 KW	6.5 KW
MOC Inner	Stainless Steel					
MOC Outer	Stainless Steel or M.S Powder Coated					
Maximum Pressure	30 psi					
Regular Working Pressure	15 psi					
Power Supply	230 Volts 1 phase, 50 Hz, AC Supply					
Optional Accessories	Water Level Indicator Automatic Low Water Level Cut-Off Switch Automatic Pressure Control Cut-Off Switch Digital Temperature Controller Cum Indicator with Sensor Digital Timer Radial Locking System					

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

HORIZONTAL CYLINDRICAL AUTOCLAVE

Made: YSP Scientific Solution

The **Horizontal Cylindrical Autoclave** from **YSP Scientific Solution** features a triple-walled construction and is mounted on sturdy mild steel or stainless steel tubular stands. The inner chamber, middle wall, and outer wall are constructed using high-quality stainless steel sheets to ensure durability and efficient performance.The systemincorporates the latest technology including a **pressure gauge, safety valve, and steam release valve**, enabling optimum functionality and safe operation during sterilization processes.

The system incorporates the latest technology including a **pressure gauge, safety valve, and steam release valve,** enabling optimum functionality and safe operation during sterilization processes

Application:

This autoclave is widely used for:

- Various chemical reactions in pharmaceutical and chemical industries
- Pre-disposal treatment and sterilization of waste materials
- Sterilizing instruments, glassware, and plasticware in hospitals
- Laboratory sterilization in research and testing laboratories

Features:

- Robust system design comprising chamber and jacket support
- Chamber constructed using thick stainless steel sheet to minimize heat loss
- Complete shell mounted on sturdy MS tubular stand for stability
- Boiler fitted with **auto pressure control device** to maintain chamber pressure through automatic electric supply cut-off/on
- Doors made from thick stainless steel plate with safety mechanism that automatically locks when the chamber is under pressure
- System equipped with **auto pressure control device, timer switch, alarm switch, water inlet/outlet valve, water level indicator, pressure gauge, and jacket safety valve**
- Pressure vessel, middle walls, external walls, boiler, lid, and tubular stand available in stainless steel finish for durability and corrosion resistance

Technical Specification						
Model No	**YSP011**	**YSP012**	**YSP013**	**YSP014**	**YSP015**	**YSP016**
Inner Size (Dia & Depth)	250 × 450 mm	300 × 550 mm	350 × 600 mm	400 × 600 mm	450 × 600 mm	550 × 750 mm
Capacity	22 Ltrs	40 Ltrs	50 Ltrs	78 Ltrs	98 Ltrs	187 Ltrs
Heater Load	2.0 KW	3.0 KW	4.0 KW	6.0 KW	6.0 KW	8.0 KW
Sterilizing Pressure	1.2 Kgf/Cm² (15 Psi) at 121°C					

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

HORIZONTAL CYLINDRICAL AUTOCLAVE

Made: YSP Scientific Solution

Operating Pressure	From 15 Psi to 20 Psi
Pressure Gauge	0 – 2.1 Kgf / Cm (30 Psi)
MOC Pressure Vessel	Stainless Steel
MOC Middle Wall	Stainless Steel
MOC External Wall	Stainless Steel or M.S Powder Coated
MOC Boiler	Stainless Steel
MOC Lid	Stainless Steel
Tubular Stand	Made of Mild Steel or Stainless Steel
Gasket	Neoprene Rubber
Power Supply	230V AC, 50/60Hz or 430/440 Volts, 3 Phase

BACTERIOLOGICAL INCUBATOR (LAB MODEL)

Made: YSP Scientific Solution

Application:

Used for providing controlled temperature conditions for:

- Bio-Oxygen Demand (BOD) test
- Cell / tissue culture
- Bacterial and micro-organism culture applications

Features:

- Bacteriological Incubator is sturdy and double-walled with doors.
  The inner chamber is made of high-quality stainless steel.
- Door fitted with double glass window and heavy stainless steel hinges allowing inspection of samples without opening the door.
- Transparent glass door enables viewing of specimens without disturbing chamber temperature.
- Outer body made from thick mild steel sheet with durable powder-coated finish.
- Space between inner and outer walls filled with 2.5" fine glass wool insulation to minimize heat loss.
- Temperature controlled by capillary thermostat, adjustable from +5°C above ambient up to 80°C, with sensitivity of ±2°C.
- Inner chamber includes removable stainless steel perforated trays, adjustable air ventilator provided at the top.
- Supplied complete with trays, air ventilators, pilot lamps indicating operation status, on/off switch, thermostat, and power cord
- Suitable for operation on 220V, 50Hz AC supply.

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

BACTERIOLOGICAL INCUBATOR (LAB MODEL) Made: YSP Scientific Solution

Technical Specification					
Model No	**YSP021**	**YSP022**	**YSP023**	**YSP024**	**YSP025**
Inner Size (W × H × D)	350 × 350 × 350 mm	450 × 450 × 450 mm	450 × 600 × 450 mm	600 × 600 × 600 mm	600 × 900 × 600 mm
No. of Shelves	1 No	2 Nos	2 Nos	3 Nos	3 Nos
Load	300 W	500 W	600 W	750 W	1000 W
Temperature Range	+5°C above ambient up to 80°C with sensitivity ±2°C				
MOC Inner	Stainless Steel				
MOC Outer	Mild Steel / Stainless Steel				
Power Supply	230 Volts, 1 Phase, 50 Hz AC Supply				
Optional Accessories	Digital Temperature Indicator cum Controller with RTD Sensor Air Circulating Fan Assembly Timer Range: 0–9999 minutes				

BACTERIOLOGICAL INCUBATOR (MEMMERT TYPE) Made: YSP Scientific Solution

Application:

Used for drying and staining of slides, paraffin embedding, tissue culture work, incubation of antibody tests, and other microbiological determinations.

Also used for providing controlled temperature conditions for:

- Bio-Oxygen Demand (BOD) testing
- Cell / tissue culture
- Bacteria and micro-organism culture applications

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

BACTERIOLOGICAL INCUBATOR (MEMMERT TYPE) Made: YSP Scientific Solution

Features:

- Bacteriological Incubator is a sturdy triple-walled unit with doors, and the inner chamber is made of high-quality stainless steel.
- Door fitted with double glass window and heavy stainless steel hinges, allowing inspection of samples without opening the door
- Transparent glass door enables viewing of specimens without disturbing chamber temperature.
- Outer body made from thick mild steel sheet with durable powder-coated finish for long-lasting operation.
- Inner space between the walls filled with 3" glass wool insulation to minimize heat loss.
- Temperature controlled by capillary thermostat, adjustable from +5°C above ambient up to 80°C, with sensitivity of ±2°C to ±3°C.
- Uniform temperature maintained using nichrome wire heaters placed inside the ribs at the bottom and vertical sides of the chamber.
- Inner chamber includes easily removable stainless steel perforated trays with adjustable height, and an air ventilator provided at the top.
- Optional Air Circulating Fan Assembly available for uniform temperature distribution.
- Supplied complete with trays, air ventilators, pilot lamps indicating operation status, on/off switch, thermostat, cord and plug.
- Suitable for operation on 220V, 50Hz AC supply.

Model No	YSP026	YSP027	YSP028	YSP029	YSP030
Inner Size (W × H × D)	350 × 350 × 350 mm	450 × 450 × 450 mm	450 × 600 × 450 mm	600 × 600 × 600 mm	600 × 900 × 600 mm
No. of Shelves	1 No	2 Nos	2 Nos	3 Nos	3 Nos
Load	300 W	500 W	600 W	750 W	1000 W
Temperature Range	+5°C above ambient up to 80°C with sensitivity of ±2°C to ±3°C				
MOC Inner	Stainless Steel				
MOC Outer	Stainless Steel / Mild Steel				
Insulation	Glass Wool				
Power Supply	230 Volts, 1 Phase, 50 Hz AC Supply				

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

B.O.D INCUBATOR

Made: YSP Scientific Solution

Application:

- Used for performing Biochemical Oxygen Demand (BOD) tests
- Also used in Plant and Insect Studies
- Suitable for Chemical Oxygen Demand (COD) determination tests
- Widely used in laboratories and research applications

Features:

- Double-walled robust cabinet mounted on wheels with 3" super glass wool insulation between intermediate and outer walls forming the main structure.
- Outer chamber made of mild steel sheet with powder-coated finish for durability and corrosion resistance.
- Inner chamber made of stainless steel interior walls with adjustable shelf supports.
- Door fitted with double glass window and heavy stainless steel hinges, allowing inspection of samples without disturbing chamber temperature.
- Lock arrangements provided on the double-walled outer door and fitted with door-operated illumination lamp inside the chamber.
- Equipped with reliable Digital Temperature Controller cum Indicator with RTD sensor, with control range from 5°C to 60°C ±1°C.
- Hermetically sealed high-performance compressor with air-cooled condenser efficiently reduces internal chamber temperature.
- Heating elements made of nichrome wires placed at the inner back side of the incubator, while cooling coils are distributed around the chamber in the air circulation path.
- Hermetically sealed high performance Kirloskar–Copeland compressor, air cooled condenser works efficiently to lower the inside chamber temperature and accessories provided at the bottom of the chamber.
- Heating elements made of Nichrome wires are placed in the inner back side of the BOD Incubator. Cooling coils are distributed all round the chamber and lie in the air circulation path.
- Air is circulated by a fan to keep the temperature uniform throughout the inner chamber.
- All controls and circuitry are housed at the top of the incubator and therefore protected from spillage. Separate indicator lamps for mains, heating and cooling are fitted. Temperature setting knob allows the user to select and set any desired temperature.
- Supplied complete with 2 or 3 shelves of Stainless Steel as per chamber, cord and plug suitable to work on 220V, 1 phase, 50 Hz AC supply. The unit is provided with 4 wheels for easy movement.

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

Model No	YSP031	YSP032	YSP033	YSP034	YSP035
Inner Size (W × H × D)	455 × 610 × 410 mm	505 × 830 × 415 mm	565 × 865 × 550 mm	650 × 900 × 580 mm	700 × 900 × 650 mm
No. of Shelves	2 Nos	2 Nos	3 Nos	3 Nos	3 Nos
Capacity (Cu. Ft)	4.0 Cu. Ft	6.0 Cu. Ft	10.0 Cu. Ft	12.0 Cu. Ft	15.0 Cu. Ft
Power Rating	1.0 KW	1.5 KW	1.5 KW	2.0 KW	2.5 KW
Temperature Range	5°C to 60°C ±1°C				
MOC Inner	Stainless Steel				
MOC Outer	Mild Steel with Powder Coating				
Heating Element	Nichrome Wires				
Compressor	Hermetically Sealed High Performance Kirloskar – Copeland Compressor				
Power Supply	230 Volts, 1 Phase, 50 Hz AC Supply				
Optional Accessories	Automatic Digital Timer (0–24 hrs / 0–9999), Stabilizer – 1 KVA				

BUNSEN BURNER

Made: YSP Scientific Solution

Electrically operated, body made of Stainless Steel and the base made of stainless sheet. Unit is fitted with built-in energy regulator and indicating lamps. Supplied with plug and cord. Available with/without pyrometer. Suitable for heating crucible with samples.

Temp. Range : 600 deg. C

Model No	YSP041
Type of Rating	350 Watts (With Regulator)

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

CARBON & SULPHUR DETERMINATION APPARATUS Made: YSP Scientific Solution

Features:

- The furnace is designed to accommodate combustion tubes of dimensions 17 mm × 22 mm × 600 mm.
- Tubular combustion furnace unit, heated by 2 Nos heating units.
- Silicon carbide heating elements suitable for 1300°C.
- Control panel fitted with step-down indicating Digital Temperature Controller, voltmeter, and ammeter, calibrated for control panel range up to 1400°C.
- Indicating lamps and coarse & fine control provided.
- The following glass parts made of Borosilicate Glass are mounted on an attractive teak wood stand with laminated board base.

Sulphur Cup	Sulphur Burette (4 ml or 25 ml)
Coil Condenser	One Liter Reservoir
"L" Bend Stop Cock	Three Way Stopcock
Carbon Burette (Range: 4.5% or 1.5% or 0.5%) (Please indicate the range required while ordering)	Leveling Bottle
Gas Washing Bottle	Absorption Vessel
Dust Trap	Eye Piece

In addition to the above, the following standard accessories are supplied along with every equipment.

Kanthal scoop for handling combustion boat	1 No
Instruction manual with pressure temperature correction chart	1 Set
Combustion tubes	2 Nos
Clamps for heating elements	4 Nos
Rubber tube	10 Mtrs
Combustion boats	50 Nos

Model No	YSP051
Single Burette Model	Cr./Al. Thermocouple
Optional Accessories	Pt/Pt/Rh Model Thermocouple
Model No	**YSP052**
Double Burette Model	Cr./Al. Thermocouple
Optional Accessories	Pt/Pt/Rh Model Thermocouple

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

CONSTANT TEMPERATURE BATH

Made: YSP Scientific Solution

Features:

- Double-walled chamber with stainless steel inner chamber and powder-coated mild steel outer body.
- Front glass window for easy observation.
- Glass wool insulation packed between the walls for thermal efficiency.
- Stainless steel top lid with handle.
- Chromium plated immersion heating elements.
- Precision thermostat for accurate temperature control.
- Medium-speed stirrer with 1/20 HP motor for uniform temperature.
- Built-in control panel with indicator lamps, thermostat, ON/OFF switch, and stirrer speed regulator.
- Operates on 220/230V, 1 Phase, 50 Hz AC supply.
- Temperature Range: Ambient +5°C to 100°C (±2°C).

Model No	YSP071	YSP072	YSP073
Chamber Size	220 × 220 × 260 mm	300 × 360 × 300 mm	370 × 300 × 400 mm
Capacity (Volume)	12 Ltrs	28 Ltrs	40 Ltrs
Temperature Range	-20°C to 90°C ±2°C		
MOC Inner	Stainless Steel		
MOC Outer	Mild Steel Sheets with Powder Coating		
Insulation	Special Grade Glass Wool		
Temperature Controller	Digital Temperature Controller		

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

CRYOSTAT BATH (ULTRA)

Made: YSP Scientific Solution

Features

- Double walled chamber, inner made of **stainless steel** and outer made of **mild steel sheets finished in powder coat paint.**
- Inner space between the walls tightly packed with special grade glass wool to avoid thermal losses.
- Chamber provided with top opening stainless steel lid with handle.
- Evaporating coils kept inside the inner chamber for faster cooling.
- Refrigeration system consisting of compressor, air cooled condenser and accessories provided at the lower portion of the bath.
- Temperature controlled by digital ON/OFF temperature controller with accuracy of ±2°C.
- Unit fitted with a stirrer to re-circulate liquid to maintain uniform temperature inside the bath.
- Built-in control panel with indicator lights, ON/OFF switches and digital temperature controller provided at the side of the bath.
- Temperature Range: -20°C to 90°C ±2°C

Technical Specification			
Model No	**YSP071**	**YSP072**	**YSP073**
Chamber Size	220×220×260 mm	300×360×300 mm	370×300×400 mm
Capacity (Volume)	12 Ltrs	28 Ltrs	40 Ltrs
Temperature Range	-20°C to 90°C ±2°C	-20°C to 90°C ±2°C	-20°C to 90°C ±2°C
MOC Inner	Stainless Steel	Stainless Steel	Stainless Steel
MOC Outer	Mild steel sheets duly finished in powder coating	Mild steel sheets duly finished in powder coating	Mild steel sheets duly finished in powder coating
Insulation	Special grade glass wool	Special grade glass wool	Special grade glass wool
Temperature Controller	Digital Temperature Controller	Digital Temperature Controller	Digital Temperature Controller

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

REFRIGERATED UNIVERSAL CENTRIFUGE MACHINE

Made: YSP Scientific Solution

Application:

- Widely used in Life Science laboratories for centrifugation requiring controlled temperature of biomaterials
- Temperature control of the cold chamber is essential for enzymologists and cell biologists, ensuring reproducible conditions during the sample preparation stage.

Features:

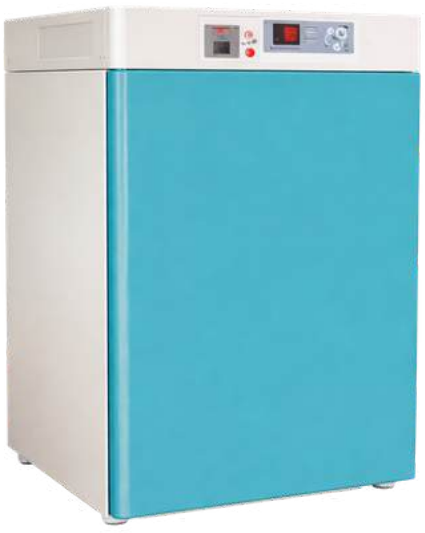
- Digital, premium brushless motor driven system.
- Maximum speed 20,000 rpm depending on rotor type used.
- Equipped with microprocessor-based LCD control panel with 0–59 minutes countdown timer, digital RPM meter and programmable speed controller.
- Temperature control from -20°C to room temperature, managed by microprocessor-based digital temperature controller with display indicator.
- Working temperature up to -8°C.

Technical Specification	
Model No	**YSP021**
Description	Refrigerated Universal Centrifuge Brushless, 20000 rpm Premium Model
Temperature Range	From Room Temperature to -8°C
Temperature Accuracy	±2°C
Optional Accessories	Angle Rotor 12 × 1.5 / 2.2 ml – With adaptor 0.5 / 0.2 ml, Max speed 20000 rpm
	Angle Rotor 24 × 1.5 / 2.2 ml – Max speed 16000 rpm
	Angle Rotor 8 × 15 ml – Max speed 13000 rpm
	Angle Rotor 4 × 50 ml – Max speed 13000 rpm
	Angle Rotor 4 × 100 ml – Max speed 10000 rpm

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

CO_2 INCUBATOR Made: YSP Scientific Solution

Name of Equipment	Micro Controller Based Platelet Incubator
Control System	Micro controller based temperature indicator cum controller with digital display and PT100 sensor
Alarm	Audio visual alarm if the temperature deviates from the preset temperature
Refrigeration System	Hermetically sealed CFC free Emerson compressor with R-134a refrigerant
Air Circulation	Motor and blower arrangement to have uniformity of temperature under loaded condition
Heating System	U shaped S.S. nichrome wire air heaters
Insulation	3" Thick CFC free PUF insulation
Inner Chamber	Stainless steel 304, 0.8 mm thick
Outer Chamber	Mild steel powder coated, 1.0 mm thick
Lighting	Interior illumination for working area
Observation Door	See through unbreakable acrylic door
Other	Castor wheels, MS cabinet with lock & key
Power	Works on 230 V AC single phase 50 Hz
Temperature Recorder	7 days circular chart
Safety Feature	1. Additional safety thermostat to cut off the equipment in case of overshoot of temperature. 2. 180 sec compressor "ON" delay timer for safe guard to compressor. 3. Password protected keypad lock
Certifications	ISO 9001:2008, ISO 13485:2012 and CE
Documentations	User manual with Calibration Test reports



CO_2 INCUBATOR

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

CO_2 INCUBATOR Made: YSP Scientific Solution

Technical Specification	
Model No	**Specification**
YSP091	Microcontroller based CO_2 Incubator with water jacket, PID temperature controller and CO_2 controller with infrared sensor. Capacity: 50 liters. Temperature range: 3°C above ambient to 50°C CO_2.
YSP092	Microcontroller based CO_2 Incubator with water jacket, PID temperature controller and CO_2 controller with infrared sensor. Capacity: 100 liters. Temperature range: 3°C above ambient to 50°C CO_2.
YSP093	Microcontroller based CO_2 Incubator with water jacket, PID temperature controller and CO_2 controller with infrared sensor. Capacity: 200 liters. Temperature range: 3°C above ambient to 50°C CO_2.
YSP094	Microcontroller based CO_2 Incubator with air jacket, PID temperature controller and CO_2 controller with infrared sensor. Capacity: 30 liters. Temperature range: 3°C above ambient to 50°C CO_2.
YSP095	Microcontroller based CO_2 Incubator with air jacket, PID temperature controller and CO_2 controller with infrared sensor. Capacity: 100 liters. Temperature range: 3°C above ambient to 50°C CO_2.
YSP096	Microcontroller based CO_2 Incubator with air jacket, PID temperature controller and CO_2 controller with infrared sensor. Capacity: 150 liters. Temperature range: 3°C above ambient to 50°C CO_2.

DEEP FREEZER (HORIZONTAL TYPE)

Made: YSP Scientific Solution

Application:

- Medical R & D Units
- Industries
- Educational Institutions
- Agriculture

Features:

- Double-walled chamber with top-opening design.
- Top portion of chamber and lid made of thick stainless steel, well polished and fusion welded.
- Outer chamber made of mild steel sheet with durable powder-coated finish.
- Inner chamber made of stainless steel.
- High-class insulation using special grade glass wool and PUF insulation between the walls to minimize sweating in humid conditions.

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

DEEP FREEZER (HORIZONTAL TYPE)

Made: YSP Scientific Solution

- Top lid provided with gasket seal and locking arrangement
- Evaporating coils lead soldered and fixed at the back side of the inner chamber.
- Temperature maintained using Digital Temperature Controller with PT100 sensor.
- Refrigeration system includes compressor, air-cooled condenser and heavy-duty motor-driven fan, installed at the bottom.
- Control panel includes digital temperature controller cum indicator, indicator lamps and control switches.
    - Temperature RangeAmbient : +5°C to -20°C ±1°C
    - Power Supply : 220 / 240 Volts, 1 Phase, 50 Hz AC Supply

Technical specification									
Model No	YSP101	YSP101F	YSP101E	YSP102	YSP102F	YSP102E	YSP103	YSP103F	YSP103E
Inner Chamber Size	550 × 400 × 650 mm			800 × 400 × 650 mm			1200 × 400 × 650 mm		
Capacity	110 Ltrs			165 Ltrs			280 Ltrs		
Temperature Range	Ambient +5°C to -20°C / -40°C / -80°C								
MOC Inner	Stainless Steel								
MOC Outer	Mild Steel Sheets duly finished in Powder Coating								
Temperature	Digital Temperature Controller cum Indicator								
Insulation	High Grade Glass Wool or PUF								
Power Supply	220 / 240 Volts, 1 Phase, 50 Hz AC Supply								
Optional	Stabilizer								

DEEP FREEZER – VERTICAL (UPRIGHT)

Made: YSP Scientific Solution

Application:

- R&D Units
- Agriculture
- Industries
- Educational Institutions
- Dairy
- Food & Beverage
- Biotechnology Laboratories
- Hospitals

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

DEEP FREEZER – VERTICAL (UPRIGHT)

Made: YSP Scientific Solution

Features:

- Double-walled chamber construction
- Inner chamber made of stainless steel, well polished and fusion welded.
- Outer chamber made of mild steel sheets with powder-coated finish
- Inner chamber accommodates stainless steel trays with adjustable height
- High-grade glass wool or PUF insulation provided between the two walls to minimize sweating in humid conditions.
- Evaporating coils lead soldered and fixed at the back side of the inner chamber.
- Double-walled front door fitted with magnetic gasket for perfect sealing and heavy-duty latching arrangement.
- Temperature maintained and controlled by digital temperature controller with PT100 sensor.
- ·Door-operated illumination lamp provided inside the chamber.
- Refrigeration system includes compressor, air-cooled condenser and heavy-duty motor driven fan at the bottom.
- Control panel with digital temperature controller cum indicator, indicator lamps and control switches provided at the top of the cabinet

Technical specification									
Model No	**YSP111**	**YSP111F**	**YSP111E**	**YSP112**	**YSP112F**	**YSP112E**	**YSP113**	**YSP113F**	**YSP113E**
Inner Chamber Size	425 × 400 × 680 mm			500 × 415 × 825 mm			580 × 500 × 1000 mm		
Capacity	110 Ltrs			165 Ltrs			280 Ltrs		
Temperature Range	Ambient +5°C to -20°C / -40°C / -80°C								
MOC Inner	Stainless Steel								
MOC Outer	Mild Steel Powder Coated								
Temperature Control	Digital Temperature Controller cum Indicator								
Insulation	High Grade Glass Wool or PUF								
Power Supply	250 Volts, 1 Phase, 50 Hz AC Supply								
Optional	Stabilizer								

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

FUME HOOD

Made: YSP Scientific Solution

Application:

- Used when performing acid digestion applications in laboratories.

Features:

- Cabinet constructed from thick ply board / mild steel powder coated / stainless steel (SS 304).
- Interior coated with asbestos / lead sheets and further coated with fireproof epoxy paint
- Working table up to 2 feet height covered with glazed ceramic acid-resistant tiles
- Work table covered with granite / tiles / stainless steel 304
- Front door made of 6 mm clear toughened glass
- Counterweight balance provided for smooth front door operation
- Vertical sliding facility of the front door allows stopping at any desired position
- Exhaust blower consists of single phase motor enclosed in a wooden casing connected with PVC exhaust ducting

Technical specification					
Specification	**YSP121**	**YSP122**	**YSP123**	**YSP124**	**YSP125**
Inner Size (W × H × D)	2' × 2' × 2'	3' × 2' × 2'	4' × 2' × 2'	5' × 2' × 2'	6' × 2' × 2'
MOC	Cabinet made of Thick Ply Board / Mild Steel Powder Coated / Stainless Steel 304				
Door	Front Door made of 6 mm Clear Toughened Glass				
Exhaust System	Exhaust blower consists of single phase motor enclosed in wooden casing connected with PVC exhaust ducting				
Blower Volume	1800 CFM	1800 CFM	1800 CFM	1800 CFM	1800 CFM
Blower Pressure	2.5" WG	2.5" WG	2.5" WG	2.5" WG	2.5" WG
Blower Power	2 HP, 3 Phase	2 HP, 3 Phase	2 HP, 3 Phase	2 HP, 3 Phase	2 HP, 3 Phase
Motor	1 HP	1 HP	1 HP	1 HP	1 HP
RPM	1440	1440	1440	1440	1440
Type	Centrifugal	Centrifugal	Centrifugal	Centrifugal	Centrifugal
Duty	Exhaust	Exhaust	Exhaust	Exhaust	Exhaust
Model	EAST 1800 F	EAST 1800 F	EAST 1800 F	EAST 1800 F	EAST 1800 F
Balancing	Dynamically Balanced	Dynamically Balanced	Dynamically Balanced	Dynamically Balanced	Dynamically Balanced
Impeller	Radial Straight Type	Radial Straight Type	Radial Straight Type	Radial Straight Type	Radial Straight Type
Ducting Dimension	150 mm Ø	150 mm Ø	150 mm Ø	150 mm Ø	150 mm Ø
Ducting MOC	3 mm PVC	3 mm PVC	3 mm PVC	3 mm PVC	3 mm PVC
Ducting Quantity	20 Feet	20 Feet	20 Feet	20 Feet	20 Feet

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

FLOCCULATOR (JAR TESTING APPARATUS)

Made: YSP Scientific Solution

Application:

- Coagulation
- Flocculation
- Sedimentation in water
- Waste water treatment
- Other industrial applications

Features:

- Illuminator base consists of fluorescent tube mounted below translucent plastic to provide diffused cold light through floc samples
- Flocculator consists of geared continuous run heavy-duty 1/20 HP variable speed motor operating between 50 to 100 RPM with built-in speed control.
- Stainless steel stirring rods provided with adjustable spacers to adjust stirring paddle depth.
- Stirring shaft can be removed without disturbing other stirrers
- Supplied with 2, 4 or 6 stirrers depending upon order.
- Operates on 220 Volts, 50 Hz, 1 Phase AC Supply.
- Unit supplied with beakers

Technical specification			
Model No	**YSP131**	**YSP132**	**YSP133**
Size	Two Stirrer	Four Stirrer	Six Stirrer
Capacity	1 Ltr	1 Ltr	1 Ltr
RPM	50 – 100		
Power Supply	220 Volts, 50 Hz, 1 Phase AC Supply		
Optional Accessories	Digital RPM Meter		

FURNACE GROOVED

Made: YSP Scientific Solution

Application:

- Used in hospitals, research centers, and other institutions for heat treatment processes

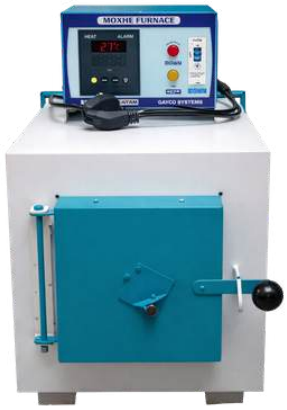
Features:

- Double-walled chamber made of 4 Nos refractory slabs
- Siliminite refractory slabs and outer body made from cold rolled mild steel sheet with powder-coated finish
- Insulated with ceramic fibre blankets to minimize radiation heat loss.
- Double-walled insulated door mounted on heavy-duty hinges with effective locking arrangement

FURNACE GROOVED

Made: YSP Scientific Solution

- Heating elements consist of Kanthal A1 coils suspended in grooves of the refractory
- Temperature maintained and controlled using Digital Temperature Controller with Cr/Al thermocouple, placed inside the hot zone
- Supplied complete with control panel.
- Operating temperature range: Ambient +5°C to 1100°C
- Maximum temperature: 1150°C
- Lightweight ceramic wool insulation
- Operates on 220 Volts, Single Phase, 50 Hz AC supply



Model No	YSP141	YSP142	YSP143	YSP144	YSP145
Inner Chamber Size	100 × 100 × 225 mm (4" × 4" × 9")	125 × 125 × 250 mm (5" × 5" × 10")	150 × 150 × 300 mm (6" × 6" × 12")	200 × 200 × 300 mm (8" × 8" × 12")	300 × 300 × 300 mm (12" × 12" × 12")
Rating	1.5 KW	2.5 KW	3.5 KW	5.0 KW	7.5 KW
Operating Temperature Range	Ambient +5°C to 1100°C				
Maximum Temperature	1150°C				
Heating Element	Kanthal A1 Coils				
Insulation	Ceramic Fibre Blankets				
Temperature Control	Digital Temperature Controller Cum Indicator				
Power Supply	220 Volts, 1 Phase, 50 Hz AC Supply				

FURNACE TUBULAR ELECTRICAL 1200°C

Made: YSP Scientific Solution

Application:

Used in hospitals, research centers, and other institutions for heat treatment processes

Features:

- Double-walled chamber, outer body made of cold rolled mild steel sheets with powder-coated finish
- Inner chamber formed by high alumina tube capable of withstanding temperatures up to 1200°C
- Tube diameter and length can be customized according to customer requirements
- Insulation provided using high-density superior quality ceramic fibre blanket
- Furnace heated by Kanthal heating elements
- Temperature controlled by Digital PID Controller with SSR output

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

ELECTRICAL TUBULAR FURNACE 1150°C

Made: YSP Scientific Solution

Model No	YSP151	YSP152	YSP153
Tube Size (mm)	Ø40 × 350 (L)	Ø50 × 450 (L)	Ø65 × 650 (L)
Rating	750 Watts	1000 Watts	1500 Watts
Temperature Range	600 – 1150°C		
Heating Element	Kanthal		
Insulation	Ceramic Fibre Blanket		
Temperature Control	Digital Temperature Controller Cum Indicator		
Power Supply	230 Volts, 1 Phase, 50 Hz AC Supply		

HIGH TEMPERATURE FURNACE 1400°C

Made: YSP Scientific Solution

Application:

- High Temperature Muffle Furnaces are designed to meet the requirements of industries, educational institutions, and research fields

Features:

- Double-walled chamber with outer body made of cold rolled mild steel sheets with powder-coated finish
- Inner chamber formed using high temperature resistant Zirconia Vacuum Board followed by ceramic fibre blankets on all sides
- Double-walled insulated door mounted on heavy-duty hinges with effective locking arrangement
- Heating elements made of Silicon Carbide Rods
- Furnace door fitted with door limit switch to automatically cut off power supply when door is opened and restart when closed
- Temperature maintained and controlled using Digital PID Temperature Controller with Thyristor Control Device, working with Cr/Al Thermocouple
- Supplied complete with control panel
- Continuous Operating Temperature: 1350°C
- Maximum Temperature: 1400°C
- Suitable to operate on 220V, Single Phase, 50 Hz AC Supply

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

HIGH TEMPERATURE FURNACE 1400°C

Made: YSP Scientific Solution

Model No	YSP161	YSP162	YSP163	YSP164	YSP165
Inner Chamber Size	100 × 100 × 225 mm (4" × 4" × 9")	125 × 125 × 250 mm (5" × 5" × 10")	150 × 150 × 300 mm (6" × 6" × 12")	200 × 200 × 300 mm (8" × 8" × 12")	300 × 300 × 300 mm (12" × 12" × 12")
Rating	1.8 KW	2.5 KW	3.5 KW	5.0 KW	7.5 KW
Operating Temperature Range	1350°C				
Maximum Temperature	1400°C				
Heating Element	Silicon Carbide Rods				
Insulation	Ceramic Fibre Blankets				
Temperature Control	Digital PID Temperature Controller with Thyristor Control Device working with Cr/Al Thermocouple				
Power Supply	220 Volts, 1 Phase, 50 Hz AC Supply				
Optional Accessories	Programmable Controller				

FERMENTOR

Made: YSP Scientific Solution

Features:

- Autoclavable Glass 3 Ltr & 7 Ltr Reactors
- Glass In Situ Sterilization reactors available in 10 Ltr, 15 Ltr & 20 Ltr capacities
- Airlift Reactor (only with Lark in India)
- Batch, Fed Batch and Continuous Reactor capability
- Microbial and Cell Culture design
- 100% contamination free operation
- Unique stirrer assembly design
- 316L quality stainless steel components
- Imported pH & DO Sensors
- Imported Temperature, pH, DO & Foam control
- Agitation, Temperature, pH, DO & Foam control
- Agitation Range: 20 – 1000 RPM
- Temperature Range: Ambient +5°C to 80°C
- pH Range: 2 – 12
- DO Range: 0 – 100% or mg/lit
- Three pumps provided with additional pumps available on demand
- Marine impeller with ring sparger

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

FERMENTOR

Made: YSP Scientific Solution

Optional on Demand:

- Variable Speed Pumps: 2–20 & 50–150 RPM with digital display for fed batch and continuous operation

Data Acquisition System:

Economy Model

- Online data recording of all parameters with PC interface
- Online view of trend graph and data storage

Classic Model

- Both ON/OFF line data storage and trend graph display on PC
- Data acquisition system available with large color LCD monitor to view trend/bar graphs
- Memory card used to store data in offline mode, which can later be downloaded to a PC or Laptop

Chiller Cum Circulator

- Used for maintaining low ambient temperatures
- PC/Laptop compatible with data logging software installation

Model No	YSP171	YSP172	YSP173	YSP174	YSP175
Capacity (Ltrs)	3 Ltrs	7 Ltrs	10 Ltrs	15 Ltrs	20 Ltrs
Temperature Range	Ambient +5°C to 80°C				

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

HOT AIR OVEN (LAB TYPE)

Made: YSP Scientific Solution

Application:

Used for various thermal processing applications, including:

- Component and stability testing
- Core hardening
- General laboratory work
- Drying processes

Features:

- Double-walled construction with inner chamber made of stainless steel.
- Outer chamber made of mild steel with powder-coated finish for durability
- Inner chamber fabricated with ribs to adjust trays at convenient heights
- Oven supplied with removable perforated trays (2 or 3 depending on model).
- Trays made of stainless steel
- Space between walls filled with special grade glass wool insulation to minimize heat loss.
- Double-walled structure with inner stainless steel chamber and powder-coated outer body, fitted with heavy stainless steel hinges and spring-loaded door lock
- Heating elements made from high-grade nichrome wire, placed inside porcelain beads at the bottom for uniform temperature distribution
- Temperature controlled using a capillary thermostat adjustable from +5°C above ambient up to 250°C, with sensitivity of ±2°C
- Air ventilators provided at top and bottom to remove fumes if required
- Control panel provided below the door including capillary thermostat, thermostat control knob, ON/OFF switch, indicator lamps, and fixing terminals

Model No	YSP181	YSP182	YSP183	YSP184	YSP185
Inner Size (W × H × D)	350 × 350 × 350 mm	450 × 450 × 450 mm	450 × 600 × 450 mm	600 × 600 × 600 mm	600 × 900 × 600 mm
No. of Shelves	1 No	2 Nos	2 Nos	3 Nos	3 Nos
Rating	1.2 KW	1.8 KW	2.5 KW	3.0 KW	4.0 KW
Temperature Range	+5°C above ambient to 250°C (±2°C sensitivity)				
MOC Inner	Stainless Steel				
MOC Outer	Mild Steel with Powder Coating				
Heating Element	High Grade Nichrome Wire				
Insulation	Special Grade Glass Wool				
Tray	Stainless Steel				
Power Supply	220 Volts, 1 Phase, 50 Hz AC Supply				
Optional Accessories	Digital Temperature Indicator cum Controller with RTD Sensor				
	Air Circulating Fan Assembly				
	Timer Range 0–9999 minutes				

HOT AIR OVEN (MEMMERT TYPE)

Made: YSP Scientific Solution

Application:

- Used for dry heat sterilization of articles
- Suitable for use in hospitals and laboratories

Features:

- Triple-walled construction with inner chamber made of stainless steel
- Outer chamber made of mild steel with durable powder-coated finish
- Inner chamber fabricated with ribs to adjust trays at convenient heights
- Oven supplied with removable perforated trays (2 or 3 depending on model size)
- Trays made of stainless steel
- ·Space between the walls filled with 3" special grade glass wool insulation to minimize heat loss.
- Double-walled inner stainless steel chamber and outer mild steel body fitted with heavy stainless steel hinges and spring-loaded door lock
- Heating elements made from high-grade nichrome wire, placed inside porcelain beads at the bottom to maintain uniform temperature
- Temperature controlled using capillary thermostat adjustable from +5°C above ambient to 250°C, with sensitivity of ±2°C
- Air ventilators provided at top and bottom to allow ventilation of gases and fumes if required
- Control panel located below the door includes capillary thermostat, thermostat control knob, ON/OFF switch, two pilot lamps, and provision for timer fixing
- Supplied complete with cord and plug, suitable for 220V AC single-phase, 50 Hz power supply

Model No	YSP191	YSP192	YSP193	YSP194	YSP195
Inner Size (W × H × D)	350 × 350 × 350 mm	450 × 450 × 450 mm	450 × 600 × 450 mm	600 × 600 × 600 mm	600 × 900 × 600 mm
No. of Shelves	1 No	2 Nos	2 Nos	3 Nos	3 Nos
Rating	1.2 KW	1.8 KW	2.5 KW	3.0 KW	4.0 KW
Temperature Range	+5°C above ambient to 250°C (±2°C sensitivity)				
MOC Inner	Stainless Steel				
MOC Outer	Mild Steel with Powder Coating				
Heating Element	High Grade Nichrome Wire				
Insulation	Special Grade Glass Wool				
Tray	Stainless Steel				
Power Supply	220 Volts, 1 Phase, 50 Hz AC Supply				
Optional Accessories	Digital Temperature Indicator cum Controller with RTD Sensor				
	Air Circulating Fan Assembly				
	Timer Range 0–9999 minutes				

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

HIGH TEMPERATURE HOT AIR OVEN (INDUSTRIAL TYPE)

Application:

- Medical
- Agriculture
- Rubber Molding and Industrial Research Organizations

Features:

- Triple-walled construction, with all chambers made of mild steel sheet
- Outer chamber finished with durable powder-coated paint
- Inner and middle chambers coated with heat-resistant aluminum paint.
- 75 mm gap between walls filled with special grade glass wool insulation to minimize heat loss on all sides including the door
- Heating elements made of spring type Kanthal A1 heating coils, evenly distributed at the bottom portion of the chamber
- Power selector switch allows selection of High, Medium, and Low wattage, ensuring quick stabilization of working temperature
- Temperature range from ambient +5°C to 350/400°C (±3°C), controlled by digital temperature controller cum indicator with FEK sensor
- Air ventilators provided at the top and bottom to remove gases and fumes. Unit can be fitted with air circulation fan
- Control panel includes two indicator lamps, rotary switch for wattage selection, ON/OFF switch, and provision for expanded metal shelves
- Suitable for operation on 220/240 Volts, 1 Phase, 50 Hz AC supply

Technical specification			
Model No	YSP201	YSP202	YSP203
Inner Size (W × H × D)	450 × 450 × 450 mm	450 × 600 × 450 mm	600 × 600 × 600 mm
Rating	3.5 KW	5.0 KW	7.5 KW
Temperature Range	Ambient +5°C to 350/400°C (±3°C)		
MOC Outer	Mild Steel with Powder Coating		
Heating Elements	Spring Type Kanthal A1 Heating Coil		
Insulation	Special Grade Glass Wool		
Power Supply	220/240 Volts, 1 Phase, 50 Hz AC Supply		

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

HEATING MANTLE WITH REGULATOR

Made: YSP Scientific Solution

Application:

- Aluminium housing with durable powder-coated finish
- Heating elements made from Kanthal wire, helically wound for efficient heating
- Heating coil placed inside safety-insulated fiberglass sleeves, attached to knitted glass fabric to provide flexible support for flasks
- Temperature controlled using a built-in simmerstat regulator
- Temperature Range: +5°C above ambient up to 400°C

Features:

- Aluminium housing with powder-coated finish for durability
- Heating elements made of Kanthal wire in a helically wound coil, safely insulated with fiberglass sleeves
- Heating coil attached to knitted glass fabric to provide flexible support for the flask
- Temperature controlled using a simmerstat regulator
- Temperature Range: +5°C above ambient to 400°C

Technical specification									
Model No	YSP191	YSP191	YSP191	YSP191	YSP191	YSP191	YSP191	YSP191	YSP191
Capacity	100 ml	250 ml	500 ml	1 Ltr	2 Ltrs	3 Ltrs	5 Ltrs	10 Ltrs	20 Ltrs
Watts	60	150	200	300	500	500	800	1000	1500

MAGNETIC STIRRER WITH HOT PLATE

Made: YSP Scientific Solution

Unmatched Operation:

- Excellent temperature uniformity with CerAlTop™ aluminium alloy / ceramic heating plate
- Highly resistant to chemicals, scratches, and surface abrasions
- Maximum temperature 370°C / 550°C depending on model
- Suitable for 10 to 20 litre flasks
- Electronic speed regulation up to 1500 RPM.
- Precise speed control even at low speeds
- High power PCM-type driving magnet

Reliable & Precise Results:

- SpeedServo™ system ensures constant speed even when viscosity changes
- Digital setting and display for temperature and time
- Direct temperature control using probe or VTF Vertex digital thermoregulator
- VTF incorporator timer for unattended operation and increased productivity

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

MAGNETIC STIRRER WITH HOT PLATE

Made: YSP Scientific Solution

Convenient Format:

- Available packaged with probe (AREX Digital) or VTF (AREX Digital PRO)
- High visibility LED displays visible from a distance

Sample & User Safety:

- Programmable maximum safety temperature
- Hot plate warning display during cooling below 50°C
- Control panel IP42 protected from liquid spills with run-off groove

Technical specification		
Model No	**AREX C**	**AREX Digital**
Heating Plate	Ceramic	Aluminium Alloy
Stirring Speed	1500 RPM	1500 RPM
Stirring Volume	Up to 15 Ltrs	Up to 15 Ltrs
Temperature Regulation	Ambient to 550°C	Ambient to 370°C
Weight	3.3 Kg	3.3 Kg
Power	800 Watts	630 Watts

HOT PLATE (CIRCULAR TYPE)

Made: YSP Scientific Solution

Application:

Used for regular laboratory testing such as:

- General laboratory purposes including drying liquids and chemicals
- Continuous heating applications

Features:

- Heavy-duty heating plate with removable MS/SS plate on top
- Housing made of mild steel sheet with powder-coated finish
- Equipped with control switch for low, medium, and high heat settings
- Two indicator lamps provided on the front panel
- Maximum power consumption 3.0 KW
- Designed to operate on 230V, 1 Phase, 50 Hz AC supply

Technical specification			
Model No	**YSP226**	**YSP227**	**YSP228**
Standard Size	8" Dia	10" Dia	12" Dia
Rating	1.5 KW	2.0 KW	2.0 KW

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

HOT PLATE (RECTANGULAR TYPE)

Model No	YSP236	YSP237	YSP238	YSP239	YSP240
Standard Size	10" × 12" Dia	10" × 16" Dia	12" × 18" Dia	12" × 24" Dia	18" × 24"
Rating	1.5 KW	1.5 KW	1.5 KW	2.0 KW	3.5 KW

HUMIDITY CHAMBER

Made: YSP Scientific Solution

Application:

- Cosmetics Industry
- Plant / Insect Growth Studies
- Packaging Industry

Features:

- Double-walled construction, inner chamber made of thick gauge stainless steel sheets and outer chamber made of cold rolled mild steel sheets with powder-coated finish
- Space between walls filled with special grade glass wool insulation.
- Door designed with double-wall construction and toughened glass window, sealed with rubber gasket to prevent atmospheric infiltration
- Inner chamber fitted with stainless steel trays adjustable in height
- Humidity controlled using a humidistat controller with range 35% to 100% RH, and humidity obtainable up to 95% with sensitivity of ±3%
- Temperature controlled using digital temperature controller, range Ambient +5°C to 60°C, accuracy ±1°C
- Heater and blower fitted in the rear side for maintaining above ambient temperature
- For achieving below ambient temperature, evaporator coils, compressor, condenser and fan motor are provided
- Humidity maintained by mist of water reservoir, equipped with auto low-level water cut-off device and alarm
- Compact control panel with switches, indicator lamps, and temperature controller mounted at the side of the chamber for easy operation

Model No	YSP241	YSP242	YSP243
Inner Chamber Size	455 × 455 × 710 mm	605 × 605 × 605 mm	605 × 605 × 910 mm
Temperature Range	Above ambient +5°C to 60°C (with cooling) / Above ambient +5°C to 60°C (without cooling)		
MOC Inner	Stainless Steel		
MOC Outer	Mild Steel with Powder Coating		
Tray	Stainless Steel		

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

INCUBATOR SHAKER

Made: YSP Scientific Solution

Application:

- Suitable for ageing tests
- Life sciences applications
- Growth studies
- Fermentation studies
- Biological cultures

Features:

- Double-walled chamber with inner chamber made of polished stainless steel sheets and outer body made from cold rolled mild steel sheets with powder-coated finish
- Chamber insulated with special grade glass wool to maintain temperature stability
- Inner chamber includes removable stainless steel tray with adjustable height and a shaking platform with holes for holding conical flasks from 50 ml to 1000 ml capacity
- Outer double door with acrylic viewing window allows inspection of samples during operation
- Heating elements made of imported nichrome wire
- Temperature controlled using Digital Temperature Controller with PT100 sensor
- Air circulation system ensures uniform temperature distribution inside the chamber
- Shaking mechanism driven by variable DC motor with variable speed control
- Control panel mounted at the top includes digital controller, pilot indicating lamps and ON/OFF switches

Temperature Range: 5°C to 60°C Temperature Accuracy: ±0.5°C Shaking Speed: 50 to 250 RPM

Specification	YSP251	YSP252
Platform Holding Capacity	8 Conical Flasks × 250 ml	16 Conical Flasks × 250 ml
Platform Size	325 mm × 325 mm	425 mm × 425 mm
Temperature Range	5°C to 60°C	5°C to 60°C
Temperature Accuracy	±0.5°C	±0.5°C
Shaking Speed	50 to 250 RPM	50 to 250 RPM
MOC Inner	Stainless Steel	Stainless Steel
MOC Outer	Mild Steel with Powder Coating	Mild Steel with Powder Coating
Temperature Controller	Digital Temperature Controller	Digital Temperature Controller
Heating Element	Nichrome Wire	Nichrome Wire
Optional Accessories	Digital RPM Indicator	Digital RPM Indicator
	Digital Timer (0–9999)	Digital Timer (0–9999)
	Chamber illumination – two fluorescent lamps	Chamber illumination – two fluorescent lamps
	Chamber illumination by two UV lamps instead of fluorescent lamps	Chamber illumination by two UV lamps instead of fluorescent lamps
	Voltage Stabilizer	Voltage Stabilizer

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

INCINERATOR

Made: YSP Scientific Solution

Application:

- Portable Incinerator is an effective Bio-Medical Waste Treatment equipment suitable for small nursing homes, blood banks, veterinary hospitals, and poultry farms. The unit is designed for quick and safe disposal of waste.
- Working Principle: Furnace-type system associated with burning refuse. The equipment uses simple brick-lined enclosures for efficient waste destruction

Features:

- Designed to destroy infected waste materials generated at health care facilities
- Equipped with dump waste chamber and digital temperature control system capable of achieving 900°C, along with an emission chimney complying with pollution control standards
- Maximum Temperature: 1000°CRegular Working Temperature: 900°C

Construction:

- Incinerator body fabricated using M.S. iron angle frame with welded and screw joints
- Inner working chamber made of 304 / 316 heavy gauge stainless steel with TIG welding to minimize heat loss
- Consists of dual chamber system:
  - Primary (burning) chambe
  - Secondary chamber operating up to 1050°C
- Heating chamber lined with high-quality Siliminite grooved refractory to hold heating elements
- Heating provided by Kanthal A-1 heating element coils placed on all four sides for uniform heat distribution and easy replacement

Doors and Ash Handling:

- Double door system provided for burning chamber and ash collection chamber
- Flame-proof design with easy feeding charge door
- Door size 150 x 150 mm with stainless steel damper to prevent flame escape during waste loading
- Doors equipped with two locking systems and fibre handle
- Ash automatically collected at the bottom ash chamber
- No manual handling required to collect ash
- Collected ash can be easily removed through the ash door and transferred to the ash tray
- Ash door size 150 x 150 mm, made of thick gauge M.S. with heat-resistant aluminum paint

Chimney:

- Chimney provided with 75 mm (3″ diameter) rain hood and 5 meter height for proper emission discharge

Structure:

- Entire system mounted on a supporting stand made of M.S. iron angle, approximately 2 feet height, with attractive color finish

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

INCINERATOR

Control Panel:

Separate control panel box mounted on one side of the incinerator including:

- 2 Nos Automatic Digital Temperature Controllers with Cr/Al Thermocouple for monitoring primary and secondary chamber temperature
- 2 Nos ON/OFF switches
- Heavy-duty indicator lamps for main power and heater status
- Air-break magnetic contactor for electrical safety

Power Supply:

Suitable to operate on:

- 220/230 Volts, 1 Phase, or
- 400/440 Volts, 3 Phase, 50 Hz AC Supply

Model No	YSP261	YSP262	YSP263
Capacity	3 Kg	5 Kg	10 Kg
Model	Electrical Operated		
Maximum Temperature Range	1000°C		
Regular Working Temperature Range	900°C		
MOC Inner	Stainless Steel		
MOC Outer	Mild Steel with Powder Coating		
Heating Element	Kanthal A-1 Coil		
Power Supply	220/230 Volt, 1 Phase or 400/440 Volts, 3 Phase, 50 Hz AC Supply		

INDUSTRIAL DRYING OVEN (TRAY DRIER) Made: YSP Scientific Solution

Application:

For a variety of industrial applications such as:

- Drying components, parts or final products
- Curing components, parts or final products
- Baking components, parts or final products

Features:

- Triple-walled construction on a sturdy angle iron frame, with both inner and outer walls made of thick PCRC sheet, properly degreased and primer painted to prevent rusting
- Inner walls painted with aluminium paint to withstand long-duration heating cycles required in industrial applications
- 100 mm gap between walls filled with special grade glass wool insulation to minimize heat loss and conserve energy
- Air circulation maintained by a heavy-duty blower, ensuring constant internal temperature with minimum temperature gradient throughout the chamber
- Heating provided by strip type heating elements, interlocked with the blower to ensure uniform heat distribution inside the chamber
- Adjustable ventilator openings provided at the top to remove vapours and fumes produced during operation
- Adjustable ventilator openings provided at the top to remove vapours and fumes produced during operation
- Temperature range from 50°C to 300°C ±3°C, controlled by automatic digital temperature controller cum indicator
- Power selection switch allows selection of working temperature inside the chamber
- Air ventilators provided at both top and bottom to release gases and fumes if required

  Control panel includes:

  Main ON/OFF switch

  Heater ON/OFF switch
- Indicating lamps
- Motor starter
- Ammeter
- Voltmeter with selector switch
- Heater selector switch (for low, medium and high heating stages)
- Designed to operate on 400/440 Volts, 3 Phase, 50 Hz AC mains supply

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

INDUSTRIAL DRYING OVEN (TRAY DRIER)

Made: YSP Scientific Solution

MODEL NO	YSP271	YSP272	YSP273	YSP274
Inner Chamber Size	3' × 3' × 2'	3' × 4' × 3'	3' × 6' × 3'	4' × 8' × 3'
Tray Capacity	12 Trays	24 Trays	48 Trays	96 Trays
Rating	5 KW	8 KW	12 KW	22 KW
Temperature Range	50°C to 300°C ±3°C	50°C to 300°C ±3°C	50°C to 300°C ±3°C	50°C to 300°C ±3°C
Insulation	Special Grade Glass Wool	Special Grade Glass Wool	Special Grade Glass Wool	Special Grade Glass Wool
Power Supply	400/440 Volts, 3 Phase, 50 Hz AC Mains	400/440 Volts, 3 Phase, 50 Hz AC Mains	400/440 Volts, 3 Phase, 50 Hz AC Mains	400/440 Volts, 3 Phase, 50 Hz AC Mains
Optional Accessories	Aluminium Tray Size 32" × 16" × 1½"	Aluminium Tray Size 32" × 16" × 1½"	Aluminium Tray Size 32" × 16" × 1½"	Aluminium Tray Size 32" × 16" × 1½"
	Stainless Steel Tray	Stainless Steel Tray	Stainless Steel Tray	Stainless Steel Tray

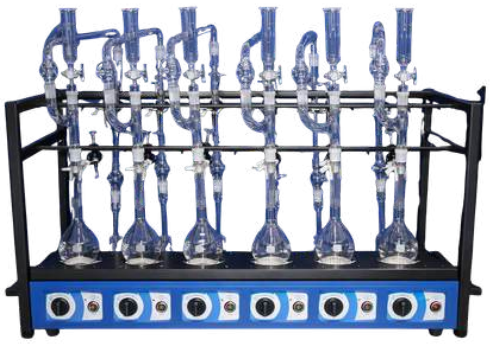
KJELDAHL DIGESTION UNIT (WITHOUT GLASS PARTS)

Application:

Used for analysis concerning applications such as:

- Determining ammonia nitrogen
- Protein determination
- Nitrogen content analysis
- Nitric nitrogen analysis
- Phenols determination
- Volatile fatty acids analysis
- Cyanides analysis
- Alcohol content determination

Model No	Capacity	Watts	Type
YSP281	250 ml	450 W	3T × 3R
YSP282	250 ml	900 W	6T × 6R
YSP283	500 ml	600 W	3T × 3R
YSP284	500 ml	1200 W	6T × 6R



Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

LAMNIOR AIR FLOW CABINET (M.S., S.S. & WOOD)

Application:

- For creation of a bacterial dust-free air space
- For bio-assays and sterility applications

Features:

- Laminar Flow Cabinet constructed using DURO Board teak wood, which is termite and insect proof, fire resistant, and weather resistant
- Front, back, top and exterior surfaces covered with white Decolam or Formica finish
- Interior surfaces finished with epoxy paint
- Work table made of mica top (optional stainless steel top) with 6 mm thick transparent flexi glass sliding side panels
- Laminar flow principle uses double air filtration
- Atmospheric air is drawn through a pre-filter and then passed through a high-efficiency HEPA filter
- HEPA filters provide 99.99% efficiency with cold DOP and 99.97% efficiency with hot DOP, removing airborne particles of 0.3 microns and larger
- Filtered air flows through the working area at a designed velocity of 90 ft/min ±20%
- Equipped with a statically and dynamically balanced direct drive blower motor, sized to provide adequate airflow volume over the HEPA filter
- Blower fitted with ¼ HP motor operating with low noise level below 65 dB and vibration less than 2.5 microns.
- Work area illuminated by diffused glare-free fluorescent lighting
- Provided with gas inlet, front door, manometer, wheel for easy movement, UV lamp, and other operational accessories
- Power Supply: 230 Volts, Single Phase, 50 Hz AC supply

Laminar Flow Cabinet – Horizontal Type

Technical Specification	YSP291	YSP292	YSP293
Working Area	2' × 2' × 2'	3' × 2' × 2'	4' × 2' × 2'
Size of HEPA Filter	2' × 2' × 6"	3' × 2' × 6"	4' × 2' × 6"
No. of HEPA Filter	1	1	1
No. of Pre Filter	1	2	2
Illumination	1 × 20 W	1 × 20 W	2 × 40 W

Laminar Flow Cabinet – Vertical Type

Technical Specification	LI301	YSP302	YSP303
Working Area	2' × 2' × 2'	3' × 2' × 2'	4' × 2' × 2'
Size of HEPA Filter	2' × 2' × 6"	3' × 2' × 6"	4' × 2' × 6"
No. of HEPA Filter	1	1	1
No. of Pre Filter	1	2	2
Illumination	1 × 20 W	1 × 20 W	2 × 40 W

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

LOW TEMPERATURE BATH

Made: YSP Scientific Solution

Application:

- Medical
- R & D Units
- Processing Industries
- Educational Institutes

Features:

- Unit StructureDouble-walled chamber. Inner chamber made of stainless steel and outer chamber made of cold rolled mild steel sheets with powder coating for durability.
- Insulation 70 mm PUF insulation between two walls
- Heating Element "U" type tubular immersion heater
- Cooling Refrigeration system attached
- Circulation pump for uniform temperature distribution
- Controller Digital proportional temperature controller with PT100 sensor
- Power Supply 240 Volts, 1 Phase, 50 Hz AC Supply

Technical specification			
Model No	LI311	YSP312	YSP313
Temperature Range	-10°C to 90°C	-20°C to 90°C	-30°C to 90°C
Insulation	70 mm PUF insulation between two walls		
Heating Element	U type tubular immersion heater		
Cooling	Refrigeration system attached		
Circulation	Circulation pump for uniform temperature		
Controller	Digital proportional temperature controller with PT100 Sensor		
MOC Inner	Stainless Steel		
MOC Outer	Mild steel attractively finished in powder coating		
Power Supply	240 Volts, 1 Phase, 50 Hz AC Supply		

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

LYOPHILIZER / FREEZE DRYER

Made: YSP Scientific Solution

- Freeze-drying (also known as lyophilisation) is a dehydration process typically used to preserve perishable materials or make the material more convenient for transport. Freeze-drying works by freezing the material and then reducing the surrounding pressure, allowing the frozen water in the material to sublime directly from the solid phase to the gas phase.

- Freeze dryers with cascade refrigeration systems can reach temperatures up to -85°C and are ideal for freeze-drying samples with minimum melting points

Application:

- Ideal for laboratory research and development
- Small-scale production freeze drying of food
- Blood plasma storage
- Pharmaceuticals
- Tissue culture
- Process development with the intention to move to clinical-size freeze dryers

Features:

- Available in two models: -55°C and -85°C
- Easy cleanable trap and drying chamber
- Efficient dual-stage rotary vane vacuum pump
- Safety cut-off for vacuum pump
- Well-arranged ports for convenient placement of flasks
- Castor wheels for easy movement

Model No	YSP321
Temperature Range	Available in -85°C
	Available in -55°C
Display Resolution	0.1°C
Temperature Controller	Microprocessor based Controller with RTD Sensor (PT-100)
Refrigeration System	Hermetically Sealed Compressor (Cascade system for -85°C)
	Fin & Tube type Air-Cooled Condenser
	R404a & R508b (only for -85°C range)
Insulation	High Density Polyurethane Insulation (PUF)
Vacuum Indication	Pirani Gauge (Analog)
Vacuum Level	Up to 0.001 mbar
Vacuum Pump	Hindhighvac make Vacuum Pump
Vacuum Pump Capacity	2 stage direct drive, 100 ltrs/min
Ports	8 Ports with 12 manifolds (including 4 spare)
Drying Chamber Height	225 mm

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

LYOPHILIZER / FREEZE DRYER

Made: YSP Scientific Solution

Model No	YSP321	
Chamber Size	Drying Chamber Diameter	150 mm
	Cold Trap Chamber Length	350 mm
	Cold Trap Chamber Diameter	150 mm
	Exterior Cabinet Height	800 mm
	Exterior Cabinet Width	700 mm
	Exterior Cabinet Depth	600 mm
Cabinet Material	Exterior	CRCA with Powder Coated
	Top Cover	Duly polished 304 grade Stainless Steel
	Drying Chamber	Duly polished 304 grade Stainless Steel
	Cold Trap Chamber	Duly polished 304 grade Stainless Steel
	Drying Chamber Lid	Acrylic
	Cold Trap Chamber Lid	Acrylic
Manual On/Off Controls	Refrigeration and Vacuum	
Castors	Friction free Heavy Duty Castor Wheels with Lock	
Discharging Facility	Presence of Drain for condensed water	
Power Source	230V, 50Hz single phase	
Accessories	Pre freezing bath -40°C	
	Pre freezing bath -80°C	
	One set of 250ml conical flask, cork and glass adaptor	
	Manifold with quick set valves with 12 manifolds (including 4 spare)	
Optional	Duly polished 304 grade Stainless Steel exterior cabinet	

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

STEREO ZOOM TRINOCULAR MICROSCOPE Made: YSP Scientific Solution

Model No	Make	Description
SPZ-10ERGO	OPTIKA	Stereo Zoom Trinocular Microscope with Vision Image Analysis System

Specification:

- Microscope Type: Microscope Zoom Body with Parallel Optics zooming system;infinity-corrected optics (Galilean type). Coaxial coarse and fine focusing system (graduated 0.002 mm). The tension of focusing can be adjusted. The head holder can slide along the fixed arm. (PN-ST-156)
- Zoom Ratio and Magnification:
  Zoom Ratio of 1:10 magnification 8x–80x (10x eye piece and 1x objective)
- Observation Tube: ERGO 0°–35° inclined, 360° rotatable, Diopter adjustment on both eyepieces ± 5 diopters. (PN-SZP-10ERGO) with 2 nos. of Eyepiece : Wide Field WF10x/22 with Trinocular port for photography so that we can observe and capture simultaneously (PN-ST-170)
- Base: Base and pillar plain stage with LED illumination for transmitted light application
- Objectives: Parfocal Plan-achromatic objective 1X. Working distance: 80 mm
- External Light Source:Flexible bifurcated fiber optics illumination with LED light source. (PN-CLD-01)
- Camera & Software: VISION 5 Megapixel CMOS Camera, Data Interface: USB2.0 with Capture & Linear Measurement Software
- Computer System: Lenovo Laptop PC with Intel Pentium i5 Processor, 4GB RAM with 500 GB HDD or better, DVD Writer, nvidia graphics card, LED monitor, key board and mouse

ROTARY EVAPORATOR
(RV 10 Digital V) MAKE 1-KVA

Features:

- The RV 10 digital represents the continual enhancement of the RV 10 Rotary Evaporator line. The unit comes with a new universal heating bath, vertical glassware, state-of-the-art safety features and digital connectivity. The RV 10 digital is a robust and reliable lab companion. Its optimized bath volume allows for fast heat-up times. The condenser unit has special designed glass tubes that utilize the 1500 cm^2 surface extremely efficient. That's why the RV 10 digital delivers reliable and reproducible process results that are usually reserved for more costly systems. Additional features such as smooth start, left-right interval or timer function, notably support the user in their daily lab work. Another important aspect of the RV 10 digital are the sophisticated safety features. The motorized lift has an automatic lift-out function in case of power outage to prevent superheating of the solvent. Safety temperature circuits can be set individually. Dry-run protection, adjustable lower end stop and lock function of bath setting complete the line of safety features. Furthermore, IKA offers a choice of coated glassware for increased safety needs.
- The RS 232 interface allows for remote control via IKAs "labworldsoft". The Heating bath is controlled on the IR interface from the main unit

Universal Heating Bath Overview:

- Heating bath with T 10500 digital thermometer safety stop function
- RS 232 and IR interface
- Optimized heating bath volume for fast heat-up
- Highly efficient 1500 cm^2 condenser unit
- Rugged design
- Ergonomically placed handles on heating bath
- Smooth start
- Left-right interval
- Timer function
- Dry-run protection
- Safety temperature circuits
- Lower end-stop
- Choice of coated glassware
- Push-off mechanism to loosen tight ground glass joints
- Easy and safe operation due to ergonomically designed vertical glassware

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

Vertical Accessories:

- HB 10.1 Shield
- HB 10.2 Protective cover
- RV 10.1 Glassware vertical
- RV 10.3 Vertical-intensive condenser with manifold
- RV 10.30 Vertical-intensive condenser with manifold, coated
- RV 10.4 Dry Ice Condenser
- RV 10.40 Dry Ice Condenser, coated
- RV 10.5 Vertical condenser with manifold and cut-off valve for reflux distillation
- RV 10.50 Vertical condenser with manifold and cut-off valve for reflux distillation, coated
- RV 10.6 Vertical-intensive condenser with manifold and cut-off valve for reflux distillation

Vertical-Intensive CondenserAccessories:

- RV 10.60 Vertical-intensive condenser with manifold and cut-off valve for reflux distillation, coated
- RV 10.70 Vapor tube (NS 29/32)
- RV 10.80 Evaporation flask (NS 29/32, 50 ml)
- RV 10.81 Evaporation flask (NS 29/32, 100 ml)
- RV 10.82 Evaporation flask (NS 29/32, 250 ml)
- RV 10.83 Evaporation flask (NS 29/32, 500 ml)
- RV 10.84 Evaporation flask (NS 29/32, 1,000 ml)
- RV 10.85 Evaporation flask (NS 29/32, 2,000 ml)
- RV 10.86 Evaporation flask (NS 29/32, 3,000 ml)
- RV 10.300 Powder flask (NS 29/32, 500 ml)
- RV 10.301 Powder flask (NS 29/32, 1,000 ml)
- RV 10.302 Powder flask (NS 29/32, 2,000 ml)
- RV 10.400 Evaporation cylinder (NS 29/32, 500 ml)
- RV 10.401 Evaporation cylinder

- The Rotary Evaporator system includes a wide range of compatible accessories and glassware components designed to enhance laboratory performance and flexibility. The available components include evaporation flasks such as NS 29/32 (1,500 ml), RV 10.500 foam brake (NS 29/32), RV 10.600 distilling spider with 6 distilling sleeves (NS 29/32), RV 10.601 distilling spider with 12 distilling sleeves (NS 29/32), and RV 10.602 distilling spider with 20 distilling sleeves (NS 29/32). Additional distilling spiders include RV 10.606 with 5 flasks of 50 ml and RV 10.607 with 5 flasks of 100 ml. The receiving flask range includes RV 10.100 (KS 35/20, 100 ml), RV 10.101 (KS 35/20, 250 ml), RV 10.102 (KS 35/20, 500 ml), RV 10.103 (KS 35/20, 1,000 ml), RV 10.104 (KS 35/20, 2,000 ml), and RV 10.105 (KS 35/20, 3,000 ml). Coated receiving flask variants are also available, including RV 10.200 (KS 35/20, 100 ml), RV 10.201 (KS 35/20, 250 ml), RV 10.202 (KS 35/20, 500 ml), RV 10.203 (KS 35/20, 1,000 ml), RV 10.204 (KS 35/20, 2,000 ml), and RV 10.205 (KS 35/20, 3,000 ml). Additional system components include the RV 10.300 extension plate, RV 10.8001 seal, PC 1.1 cable, labworldsoft® software, RV 10.5003 pressure control valve, RC 2 basic, RC 2 control, UC600 Unichiller, HBR 4 control unit, and H11 mains cables available with Euro, USA, CH, and UK plug configurations.

ROTARY EVAPORATOR
(RV 10 Digital V) MAKE 1-KVA

Parameter	Specification
Model No	RV10 Digital
Type of cooling	Vertical
Cooling surface	1500 cm^2
Motor principle	DC
Speed range	20 – 280 rpm
Reversible direction of rotation	Yes
Lift	Yes
Stroke	140 mm
Heating temperature range	Room temperature – 180°C
Heat output	1300 W
Set temperature resolution	±1 K
Filling volume max.	3 L
Vacuum controller integrated	No
Timer	Yes
Dimensions (W × H × D)	500 × 430 × 410 mm
Weight	20 kg
Permissible ambient temperature	5 – 40°C
Permissible relative humidity	80%
Protection class according to DIN EN 60529	IP 20
RS 232 interface	Yes
Voltage	220 – 240 / 115 / 100 – 240 / 100 – 120 / 100 – 115 V
Frequency	50 / 60 Hz
Power input	1400 W

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

OIL BATH (RECTANGULAR TYPE)

Application:

- Double walled chamber, inside made of stainless steel and outside made of cold rolled mild steel sheet finished in powder coating.
- Inner space in between wall is tightly packed with special grade glass wool on all sides.
- The inner chamber accommodates perforated and removable diffuse shelf.
- The lid is also made of stainless steel and provided with handle.
- Heating is achieved by immersion heaters and the temperature is controlled by a Digital Temperature Controller from ambient to 300°C with an accuracy of ±1°C.
- The unit is fitted with a high-speed stirrer with speed regulator for speed control.
- Built-in control panel is provided at the side of the chamber.
- Instrument supplied without oil.

Model No	LI351	YSP352	YSP353
Inner Chamber Size	250 × 250 × 250 mm	300 × 300 × 300 mm	355 × 355 × 355 mm
Rating	2.0 KW	3.0 KW	4.0 KW
Temperature Range	Ambient to 300°C with an accuracy of ±1°C		
MOC Inner	Stainless Steel		
MOC Outer	Mild Steel attractively finished in powder coating		
Temperature Controller	Digital Temperature Controller		

OIL BATH (CYLINDRICAL TYPE)

Features:

- Double walled chamber, inside made of polished stainless steel and outside made of cold rolled mild steel sheet finished in powder coating. Inner space in between wall is tightly packed with special grade glass wool on all sides. Air heaters are provided for heating and a thermostat controls the temperature. Control panel accommodating pilot lamp and thermostat will be attached to the side of the bath. Supplied complete with plug and cord.
- Temperature Range: Ambient +5°C to 250°C.

Model No	YSP361	YSP362	YSP363	YSP364	YSP365	YSP366	YSP367
Capacity	500 ml	1000 ml	2000 ml	3000 ml	5000 ml	10 Ltrs	20 Ltrs
Rating	500 watts	750 watts	1000 watts	1500 watts	1500 watts	2000 watts	2500 watts
Temperature Range	Ambient +5°C to 250°C						
MOC Inner	Stainless Steel						
MOC Outer	Mild steel attractively finished in powder coating						

ORBITAL SHAKER

Application:

- Cell cultures
- Solubility studies
- Extraction procedures
- Diagnostic tests
- General mixing
- Bacterial suspensions
- Staining
- Destaining
- Washing procedures
- Hybridization

Features:

- Triple position eccentric pin for vibration free movement
- Ball bearings for noiseless and smooth operation
- PMDC motor for continuous operation
- Microprocessor based digital RPM indicator cum timer
- Proximity sensor for reliable RPM sensing
- Electronic control for speed
- Continuous mode and timer mode operations for time studies

Model No	YSP371		
Speed indicator and timer	Microprocessor based RPM cum Timer with Proximity Sensor (Timer can be set in minutes / hours or can be deactivated)		
Motor Drive	DC drive with Potentiometer		
Shaking Speed	40 to 250 rpm		
Shaking Accuracy	±1%		
Shaking Diameter	25 mm		
Motor	PMDC Motor		
Overall Dimensions	Height	Width	Depth
	460 mm	460 mm	210 mm

Shaking Tray Size	Length	Width
	420	420

Capacity of flask	Quantity of flask
100 ml	25
250 ml	16
500 ml	16
1000 ml	9
250 ml & 500 ml	8 + 8
Cabinet Material	CRCA Steel with Powder Coated
Power Source	230V, 50Hz Single Phase
Optional	Duly polished 304 grade Stainless Steel exterior cabinet

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

ORBITAL HEAD STIRRER

Excellent Performance:

- Electronic speed regulation up to 1300 rpm
- Can stir up to 15 liters of water
- Maximum torque of 15 Ncm
- Will stir liquids up to 1000 mPa·s viscosity
- Soft start to prevent splashes and the creation of bubbles

Rugged Design:

- Technopolymer structure prevents any possible rust
- Optimum chemical resistance and enhanced handling
- Long life, robust motor

Safety Incorporated:

- Automatically stops if blocked – no burn-out or damage
- Overload, overcurrent and overtemperature protection

Convenient Operation:

- Hand-tightened chuck; no tools required
- Universal voltage / frequency model

Technical specification	
Parameter	**Specification**
Model No	YSP381
Control System	Microcontroller Based Laboratory Stirrer
Stirrer Motor	Brushless DC Motor
Display	Process values (RPM)
Power	Works on 230V AC Single Phase 50/60 Hz
Speed Range	50 – 200 RPM
Noise	65 dB
Optional Accessories	Universal plate stand including support holder and fixing stirrer
	Crossed stirrer, shaft length 40 cm, stirrer diameter 5 cm, 316L stainless steel

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

SOXHLET EXTRACTION MANTLE (C.O.D) – WITHOUT GLASS PARTS

Application:

- Suitable for extractors of Soxhlet and other types

Features:

- The unit consists of a compact rectangular box section of light metal alloy, housing the heating elements and built-in energy regulator controls
- The flexible and elastic heating elements ensure closer contact with the flask surface, providing even distribution of heat over the contact surface which minimizes glassware breakage
- High thermal insulation of glass wool backing of the heating elements minimizes heat losses
- Every flask recess is provided with a pilot lamp and a regulator. The built-in energy regulators facilitate good control of temperature
- Supplied with two vertical and one horizontal rods, neon lamp indicators, energy regulators, cord and plug – 230V, 50 Hz

Technical specification

Model No	LI391	YSP392	YSP393	YSP394
Capacity	250 ml	250 ml	500 ml	500 ml
Watts	450	900	600	1200
Type	3T × 3R	6T × 6R	3T × 3R	6T × 6R
MOC Inner	Stainless Steel			
MOC Outer	Mild steel attractively finished in powder coating			
Insulation	Glass Wool			
Power Supply	230 Volts, 50 Hz			

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

SEED GERMINATOR – SINGLE CHAMBER (GROWTH CHAMBER)

Application:

- Biological Studies
- Forestry Research Work
- Other similar applications

Features:

- Double walled inner chamber made of stainless steel. Water reservoir at the bottom to provide 90% to 95% fixed humidity
- Outer chamber is made of M.S. sheets and finished with powder coating
- Temperature from 5°C to 50°C controlled by Digital Temperature Controller-cum-Indicator with ±1°C accuracy. Side panel is fitted with pilot lamps and switches
- Supplied complete with S.S. perforated trays, cord and plug to operate on 220 Volts, 1 Phase, 50 Hz AC supply.
- Push type switch for illumination lamp provided inside the chamber
- Plant chamber mounted on wheels for easy movement
- Chamber fitted with cooling system using Kirloskar Copeland compressor with fan cooled condenser at the bottom of the working chamber
- Evaporating coils lead soldered around the outer surface of the inner chamber

Technical specification		
Model No	**YSP401**	**YSP402**
Inner Chamber Size (W × H × D)	500 × 810 × 500 mm	650 × 900 × 550 mm
Capacity	6 cu. ft	12 cu. ft
No. of Trays (Stainless Steel)	6	12
Temperature Range	5°C to 50°C	
MOC Inner	Stainless Steel	
MOC Outer	Mild steel attractively finished in powder coating	
Temperature Controller	Digital Temperature Controller	

SEED GERMINATOR – DUAL CHAMBER (COMBINED)

Technical specification		
Model No	**YSP411**	**YSP412**
Inner Chamber Size (W × H × D)	500 × 810 × 500 mm	650 × 900 × 550 mm
Capacity	6 cu. ft	12 cu. ft
No. of Trays (Stainless Steel)	6	12
Temperature Range	5°C to 50°C	
MOC Inner	Stainless Steel	
MOC Outer	Mild steel attractively finished in powder coating	
Temperature Controller	Digital Temperature Controller	

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

SAND BATH

Features:

- This is a heavy-duty heating plate with a removable M.S. plate at the top. The housing is made of mild steel sheet finished with powder coating. A heat control switch for low, medium and high heat with two indicator lamps is provided on the front panel. Temperature control is achieved by a capillary type thermostat from ambient temperature up to 300°C. The hot plate has a maximum power consumption of 3.5 kW. The unit is designed to operate on 220/230 Volts, 1 Phase, 50 Hz AC supply

Model No	YSP421	YSP422	YSP423	YSP424	YSP425
Standard Size	10" × 12"	10" × 16"	12" × 18"	12" × 24"	18" × 24"
Rating	1.0 KW	1.5 KW	2.0 KW	2.5 KW	3.5 KW
MOC Inner	Stainless Steel				
MOC Outer	Mild steel attractively finished in powder coating				
Power Supply	220/230 Volts, 1 Phase, 50 Hz AC Supply				

SEROLOGICAL WATER BATH

Application:

- Widely used in bacteriological and laboratory applications requiring incubation and general testing support

Applications include:

- Biotechnology
- Clinical
- Environmental
- Medical
- Petroleum
- Pharmaceutical
- Industrial Applications

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

Features:

- Double wall construction with complete inner chamber made of highly polished stainless steel. The outer chamber is made of mild steel sheet finished with powder coating. The gap between the walls is filled with special grade glass wool insulation to minimize heat loss. The water bath is provided with a drain plug to facilitate easy emptying and cleaning of the inner chamber whenever necessary.
- The bath cover is of pyramidal shape with perforated removable diffuser trays. Immersion heating elements made of high-grade materials ensure uniform temperature distribution. Temperature control is achieved by a capillary thermostat from 5°C above ambient to 90°C ±1°C. The equipment is supplied with a control panel including thermostat, ON/OFF switch, and two pilot lamps. The unit is supplied with cord and plug and is suitable for operation on 220V, Single Phase, 50 Hz AC supply.

Technical specification				
Model No	**LI431**	**LI432**	**LI433**	**LI434**
Chamber Size	250 × 175 × 175 mm (for 2 racks)	350 × 250 × 175 mm (for 4 racks)	450 × 250 × 175 mm (for 6 racks)	600 × 300 × 175 mm (for 8 racks)
Load	1 KW	1.5 KW	2 KW	3 KW
Temperature Range	Ambient to 90°C ±1°C			
MOC Inner	Stainless Steel			
MOC Outer	Mild steel attractively finished in powder coating			
Insulation	Special grade glass wool			
Power Supply	220V, Single Phase, 50 Hz AC Supply			
Optional Accessories	Stirrer with 1/20 HP motor with S.S rod and blade			
	Digital Temperature Controller			

VACUUM OVEN

Application:

Suitable for laboratory processes such as:

- Quenching
- Baking
- Curing
- Sterilizing
- Brazing
- Drying
- Ageing
- Soldering
- Preheating
- Annealing
- Burn-off

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

The unit is constructed with a double-walled chamber. The inner chamber is cylindrical and made of stainless steel with provision for vacuum, and the vacuum gauge is provided at the top unit. The outer chamber is made of M.S. sheets finished with powder coating to ensure durable operation.A glass viewing window is provided in the center of the chamber to observe samples inside without disturbing the door opening. The space between the walls is filled with superior grade glass wool insulation to reduce heat loss to a minimum.The inner chamber accommodates stainless steel trays with adjustable height. The door is made of stainless steel plate with specially designed mechanism having alignment. A positive screw mechanism ensures proper tightening of the lid for a perfect seal.Heating elements are placed around the inner chamber for uniform temperature distribution. Temperature control is achieved using a Digital Temperature Controller working in conjunction with an FEK thermocouple. A compact control panel is provided with pilot indicating lamps, main switch, fuses, and temperature control.The unit is supplied with three-core wire and plug and is suitable for operation on 220 Volts, 1 Phase, 50 Hz AC Supply

Technical specification							
Model No	**YSP411**	**YSP442**	**YSP443**	**YSP444**	**YSP445**	**YSP446**	**YSP447**
Chamber Size (Dia x Depth)	200 x 200 mm	200 x 200 mm	250 x 300 mm	300 x 300 mm	300 x 450 mm	300 x 500 mm	300 x 550 mm
Temperature Range	200°C						
MOC Inner	Stainless Steel						
MOC Outer	Mild steel attractively finished in powder coating						
Insulation	Glass Wool						
Power Supply	220 Volts, 1 Phase, 50 Hz AC Supply						

VACUUM PUMP

Single stage					
Model No	**YSP451**	**YSP452**	**YSP453**	**YSP454**	**YSP455**
Chamber Size (Dia x Depth)	50 Litres	100 Litres	200 Litres	325 Litres	600 Litres
Motor Power	0.25 H.P	0.50 H.P	0.50 H.P	1.00 H.P	1.50 H.P

Second stage					
Model No	**YSP451**	**YSP452**	**YSP453**	**YSP454**	**YSP455**
Chamber Size (Dia x Depth)	50 Litres	100 Litres	200 Litres	325 Litres	600 Litres
Motor Power	0.25 H.P	0.50 H.P	0.50 H.P	1.00 H.P	1.50 H.P

Accessories for Vacuum Pump:

- Oil trap with gauge
- Moisture trap
- Vacuum control valve
- Exhaust filter
- Four-way connector with dial gauge
- Oil trap
- Solenoid valve (4 way)
- Connector with dial gauge

WATER BATH – LAB TYPE (6 HOLES RECTANGULAR)

Used in Areas Like:

- Industrial clinical laboratories
- Government research laboratories
- Academic facilities
- Environmental applications

Features:

- Double walled chamber, inner S.S. and outer M.S./S.S. with powder coated finish
- Immersion heater with thermostat control
- Concentric rings for flask support
- Glass wool insulation for efficient heat retention
- Temperature Range: 5°C above ambient to 90°C
- Size: 350 × 250 × 100 mm (6 holes)

Model No	Chamber Size	Watts
YSP461	Double walled with thermostat (Outer M.S.)	1000
YSP462	Double walled with thermostat (Full S.S.)	1000
Optional Accessories: Digital Temperature Controller cum Indicator available at extra cost.		

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

WATER BATH – LAB TYPE (12 HOLES RECTANGULAR)

Application:

- Industrial clinical laboratories
- Academic facilities
- Government research laboratories
- Environmental applications

Features:

- Double walled chamber with inner stainless steel and outer M.S./S.S. powder coated finish
- Immersion heater with thermostat control
- Concentric rings for flask placement
- Glass wool insulation

Temperature Range: 5°C above ambient to 90°C Chamber Size: 400 × 300 × 100 mm (12 holes)

Technical specification		
Model No	**Chamber Size**	**Watts**
YSP471	Double Walled with Thermostat (Outer M.S.)	1500
YSP472	Double Walled with Thermostat (Full S.S.)	1500

WATER BATH SHAKER

Application:

- Finding usage for linear or orbital shaking processes in laboratory applications

Features:

- Double walled chamber, inner chamber made of stainless steel and outer fabricated out of cold rolled mild steel sheets duly finished in attractive powder coating paint.
- The pyramidal lid is also made of stainless steel which prevents falling of condensed water droplets on the specimens. The inner space between the two walls is tightly packed with special grade glass wool in order to prevent thermal losses.

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

Features:

- Heating is achieved by immersion type heater and the temperature is controlled by hydraulic type thermostat within the operating range from Ambient +5°C to 95°C.
- The bath is provided with an oscillating tray riding on ball rollers oscillated through a gear variable speed motor.
- Shaking speed range is between 40 to 140 cycles per minute. The shaking tray can either hold test tubes or conical flasks of 250 ml to 1000 ml as ordered by the user.
- Supplied complete with one shaking tray and cord and plug.
- Designed to work on 220/230 Volts AC supply.
- Temperature Range: Ambient +5°C to 90°C.

Model No	YSP481	YSP482
Shaking Platform Size	275 × 275 × 150 mm	405 × 300 × 150 mm
Shaking Water Bath Size	375 × 300 × 225 mm	600 × 325 × 225 mm
Temperature Range	Ambient +5°C to 95°C	
MOC Inner	Stainless Steel	
MOC Outer	Mild steel attractively finished in powder coating	
Power Supply	220/230 Volts AC	
Optional Accessories	Clamp Extra	

WATER DISTILLATION UNIT – SINGLE

Application:

- Used for regular testing and distillation of water for general and laboratory use

Features:

- Wall mounting type unit.
- Entire fabrication made of stainless steel with highly polished finish.
- Consists of a main boiling chamber with high dome lid.
- Provided with water sealing arrangement.
- Equipped with a tubular condensing column with automatic water level arrangement to maintain constant water level inside the chamber

Model No	YSP491	YSP492	YSP493	YSP494	YSP495
Capacity (Ltrs./Hour)	2	4	6	8	10
Heater Load (KW)	2	3	45	6	8

UV VISIBLE SPECTROPHOTOMETER (SINGLE BEAM)

- Single Beam UV Visible Spectrophotometer offers advanced technology-based systems with photometric accuracy of ±0.1%, photometric repeatability of ±0.3%, and a photometric display range of -0.3 to 3.0 Abs, 0–200%T, 0–9999C with stability of ±0.002 Abs/hour at 500 nm.
- The system provides stray light suppression of ≤0.3% at 220 nm and 360 nm, and includes USB-based data output port and parallel printer port. The display system is based on 128 × 64 dot matrix LCD and the instrument utilizes deuterium and tungsten halogen lamps for accurate measurements.

- Standard features include automatic wavelength setting, silicon photodiode detector system, and it operates on AC 220V / 50 Hz power supply.

Model No	YSP501
Optical System	Single beam, grating 1200 lines/mm
Wavelength Range	190 – 1000 nm
Band Width	1 nm
Wavelength Accuracy	±0.5 nm
Wavelength Repeatability	±0.1 nm
Wavelength Setting	Automatic
Photometric Accuracy	±0.1 %
Photometric Repeatability	±0.3 %T
Photometric Display Range	-0.3 – 3.0 Abs, 0 – 200 %T, 0 – 9999 C
Stability	±0.002 Abs/hour @ 500 nm
Stray Light	≤0.3 %T @ 220 nm, 360 nm
Data Output Port	USB
Printer Port	Parallel Port
Display	128 × 64 Dots LCD
Lamps	Deuterium Lamp & Tungsten Halogen Lamp
Detector	Silicon Photodiode
Power Requirement	AC 220V / 50 Hz

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

PH / ORP & TEMPERATURE METER (BENCH TOP METER)

- The HI3220 pH/ORP and Temperature Benchtop Meter features CAL Check™, a clear and informative LCD display, data logging capability, and USB port for computer connectivity. The instrument can be used for the measurement of pH and ORP. Readings for pH can be manually or automatically compensated for temperature variations with the use of a HI7662-T temperature probe from -20.0 to 120.0°C.
- The instrument can be calibrated up to five points with a choice of seven standard buffers and five custom buffers.

- CAL Check™ – Diagnostic system that ensures accurate pH readings every time by alerting users of potential problems during the calibration process. It eliminates erroneous readings caused by dirty or faulty pH electrodes or contaminated pH buffer solutions.
- HI1131B pH Electrode – The meter is supplied with the HI1131B glass body, double junction refillable pH electrode with temperature sensor indicating HT (High Temperature) glass.
- Temperature Compensation – Temperature for pH measurements can be compensated automatically (ATC) or manually (MTC) from -20.0 to 120.0°C using the supplied HI7662-T temperature probe.
- Automatic Calibration – pH calibration can be performed up to five points with seven standard buffers and five custom buffers.
- GLP Data – Calibration data including date, time, standards used, offset, and slope can be accessed at any time through the instrument menu.
- Data Logging – The long-on-demand feature allows up to 200 data points to be recorded. Up to 600 data points can be recorded when utilizing interval logging, allowing measurements at intervals from 5 seconds to 180 minutes.
- Data Transfer – With built-in logging function, measurements are stored in non-volatile memory and can be transferred to a PC through the USB port using optional software and cable.

Model No	YSP3220
CAL Check™	Probe condition is evaluated and an indicator is displayed informing the user of the overall pH electrode status
pH Electrode	Double junction refillable HT glass design suitable for samples with metals and Tris buffer
Temperature Compensation	-20.0 to 120.0°C with supplied temperature probe
Automatic Calibration	Up to five points with seven standard buffers and five custom buffers
GLP Data	Date, time, standards used, offset, and slope available through the menu
Data Logging	Selectable logging intervals from 5 seconds to 180 minutes
Data Transfer	Stored in non-volatile memory and transferred to PC via USB with optional software and cable

WEIGHING BALANCE

- AUX series models are the newest single-range analytical balances engineered with advanced technology. The system provides fast response and excellent stability with 0.1 mg readability. These balances are designed for professional laboratory use and support various applications along with fully automatic calibration for accurate measurements

Features:

- **Fully Automatic Calibration (PSC)** : PSC is a fully automatic span calibration initiated based on temperature change detection, ensuring consistent accuracy.
- **GLP/GMP/ISO Calibration Report** : Calibration reports can be automatically printed with an optional electronic printer. Date and time outputs meet GLP/GMP/ISO requirements.
- **Direct PC Connectivity** : The balance communicates directly with a PC using Windows-based applications without additional software. It can be connected with spreadsheets, databases, word processing, and laboratory software.
- **Interval Timer** : Weighed data can be automatically output to external devices at user preset intervals

Model No	AUX220
Capacity	220 g
Minimum Display	0.1 mg
Pan Size	80 mm dia
Motor-driven Built-in Calibration Weight	
Calibration Modes	PSC, Touch-key built-in or external weight
Windows Direct	

Email: sales.yspscientific@gmail.com | Phone : 09626297366 | 9360299056

Thank You

Thank you for considering YSP Instruments. We appreciate your interest in our products and services.

For any inquiries or assistance, please don't hesitate to contact us.

YSP
INSTRUMENTS

sales.yspscientific@gmail.com

9626297366 | 9360299056