AUTOCLAVE – VERTICAL

'TSI' BRAND EQUIPMENTS, BEST USE FOR YOUR LABORAORY

- Microbiology Laboratories
- Bio-technology Laboratories
- Bio-medical Laboratories
- Chemical Testing Chemical Engg. Laboratories
- Pharmaceuticals Manufacturer's
- Medical & Dental Colleges Laboratories
- Research Laboratories
- Educational & Research Institute's
- R & D Centre's & Q.C. Assurance
- Soil, Bitumen, Concrete Laboratories
- Environmental Testing Laboratories
- Civil Material Testing & Calibration Laboratories
- Water & Waste Water Testing Laboratories
- Material Management and Metrological Laboratories etc ….

GSTIN No.33BNUPA8038G1ZW **E-mail: thermalscientific2021@gmail.com**

GeM Seller Id: **JSSP210003098413** **www.thermalscientific.in**

M. ARAVINDH - 99522 04307 **M. KASTHURI - 8925710946**

COMPLETE SOLUTION FOR LABORATORY EQUIPMENTS

THERMA SCIENTIFIC INSTRUMENTS, CHENNAI

CAT NO.1003 “” AUTOCLVE - VERTICAL (DOUBLE WALLED) WITH STAINLESS STEEL BASKET

	
Autoclave – vertical with wing nut locking system	**Autoclave – vertical with Radial locking system**

Standard models of Vertical autoclave units manufactured by LEO Laboratory Products &Services are available with chamber volumes of **22 liters to 175 liters** that accommodate two and three drums accordingly (Supplied 1 Basket). These systems are designed for meeting effective sterilization requirements in bacteriological and research laboratories, hospitals and clinics and food and beverage units. The vertical chamber design maximizes space utilization, while microprocessor control system enables comfortable working all the time you operate the machine.

Also called **vertical – autoclave (steam sterilizer)**, our vertical type autoclaves deliver flexible solutions of steam sterilization in hospitals, clinics and other areas of application, where reliable steam sterilization is a mandatory process. Vertically designed chamber provides guaranty of safe and efficient sterilization even in confined spaces. In order to suit specific application, these units are fabricated as fully GMP stainless steel **double walled construction**; in addition, we also manufacture vertical autoclaves

The most important feature that keeps our range of vertical autoclaves top of others is meeting all relevant guidelines and standards such as **NAPL / NABH standards**. These systems are fully customizable and provided with large scope of customization; to meet individual budget, we can equipment your vertical autoclave with a number of optional accessories such as **Microprocessor based PID controlled digital temperature indicator cum controller (dual display SV – PV built in digital timer).**

➢ Tank volume 22 to 175 liters	➢ Equipped with joint less silicon rubber gasket
➢ Provided with immersion type heater	➢ Double walled construction
➢ Comply with NABL / NAPH standards	➢ Wing nut type or Radial (Optional) door locking

➢ Supply with stainless steel basket	➢ Water level indicator(Optional)
➢ Easy operation and low maintenance	➢ Digital temperature indicator(Optional)
➢ NAPL Calibration Certificate (Optional)	➢ Automatic pressure cut/off switch(Optional)

Internal Tank Capacity	22 Liters	40 Liters	50 Liters	75 Liters	100 Liters	175 Liters
Load	2.00 KW	3.00 KW	3.00 KW	4.0 KW	4.50 KW	6.00 KW
Chamber dimension	10” x 18”	12” x 20”	14” x 22”	16” x 24”	18” x 24”	22” x 30”
Working Pressure	1.2 kgf/cm sq.c (15 psi - 17 psi) (Can be Upgraded up to 30 PSI)					
Sterilizing Temperature	121°C to 134°C (150°C - Optional)					
Heat Average	±1°C					
Sterilization Time	20 to 30 Minutes					
Digital Timer	0 to 99 min (Optional)					
Construction	Double wall, SS construction					
Outer Chamber	Mild steel / 304 stainless Steel					
Inner Chamber	SS 304 Grade					
Basket	Stainless Steel					
Door / Lid	Foot lifted with safety and interlock device					
Power Supply	220 Volts / 440 Volts					

OPTIONAL ACCESSORIES	
01	Water Level Indicator
02	Automatic Low Level Cut/Off Device
03	Microprocessor based PID controlled digital temperature indicating cum controller (SV - PV) built in digital timer
04	Automatic Pressure Cut/Off Device
05	Radial Locking System
06	NAPL Calibration Certificate

THERMAL SCIENTIFIC INSTRUMENTS, CHENNAI

OUR RANGE OF PRODUCTS

- Autoclave – Bucket / Portable & Vertical
- Autoclave Horizontal – Cylindrical / Rectangular
- Air tight cabinet
- Bacteriological Incubator – Lab & Memmert
- Backing oven – single & double deck
- Bio-Safety Cabinet Class A & B
- Bunsen burner electric
- B O D Incubator
- Cement Autoclave
- Centrifuges
- Cylindrical Furnace – Vertical & Horizontal
- Circulating water bath
- CO^2 Incubator
- C & S furnace
- COD apparatus – Mantle / Hot plate
- Constant Temp. Water Bath
- Ciller
- Crucible Furnace
- Curing Tank for cement / concrete moulds
- Curing oven
- Dead body freezer
- Deep Freezer – Vertical / Horizontal
- De-humidifier – Bucket type
- Dental Autoclave
- Double deck oven / Incubator& Furnace
- De-waxing bath
- Environmental / Stability / Climatic Test chamber
- Electronic weighing balances
- Flocculator / Jar Test Apparatus
- Fume Hood – Table top / Floor standing
- Furnace – lab / Heavy duty / High temp. & Industrial models
- Furnace – spilt type Vertical / Horizontal
- Glassware's drying oven 180°C fixed
- Heating Mantle
- Hot Air Oven – Lab / Memmert & High Temperature
- Hot Plate – Circular / Rectangular
- Hot & Cold chamber
- Humidity chamber (Cabinet) with/without Refrigeration
- Industrial Furnace & Oven
- Incinerator – Domestic / Industrial
- Incubator Shaker
- Island Table with Chemical cupboard (Centre table with wash basin & glassware's drying stand)
- Laboratory work table
- Laminar Air Flow Chamber (Cabinet) Horizontal / Vertical

- Le-chatelier bath 27°C for Cement Testing
- Low Temp. Water Bath
- Mortuary Chamber 2 / 4 / 6 / 8 bodies
- Muffle Furnace – Lab / Heavy duty & High Temperature
- Mushroom Autoclave
- Oven – Lab / Memmert / High Temp. & Industrial
- Oil Bath – Circular / Rectangular
- Orbital Incubator Shaker – with / without Refrigeration
- Rotary shaker
- Sand Bath
- Seed Germinator – Single / Double
- Soxhlet Extraction Unit
- Tubular Furnace – Horizontal 1000 / 1200 / 1400°C / 1700°C
- Tray Drier – 12 / 24 / 48 / 96 Trays
- Vacuum Oven / Furnace
- Vacuum Pump
- Water bath single wall – Circular / Rectangular
- Water bath double wall – Circular / Rectangular
- Water Bath – Low Temperature -10 / -20 / -40°C
- Water Bath – Constant Temperature
- Water Bath – Serological
- Water Bath shaker with / without Refrigeration
- Water Bath – Curing 100°C
- Water Bath – Hot & Cold 10 to 90°C
- Water Distillation unit – Glass Horizontal single / double / trible distillation
- Water Distillation unit – NPL design – Vertical single / double / triple distillation
- Water Distillation unit SS – Wall mounting / Table top model
- Warming Table / Plate
- Waxing Bath
- Wax Melting Oven 60 to 80°C constant Temp.
- Bulk Chemicals & Glassware's

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