

THERMAL SCIENTIFIC INSTRUMENTS

ISO Certified | TM Registered Company | CA Certified
Predictable Performance in Unpredictable Worlds



INTELLIGENCE AT THE EXTREME

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THERMAL SCIENTIFIC INSTRUMENTS (ISO 9001 – 2015 CERTIFIED COMPANY)
BAVANI AMMAN KOVIL, NO:4, 1ST STREET, MANIMEDU, THANDALAM,
CHENNAI-600122

Laboratory solutions • Scientific Infrastructure • Research testing solutions

ABOUT US

We are leading manufacturer and supplier of laboratory furniture and scientific infrastructure solutions designed for research, industrial, educational, pharmaceutical, and testing laboratories. We specialize in providing durable, ergonomic, and customized laboratory systems that meet modern industry standards and client-specific requirements. With a strong focus on quality, innovation, and customer satisfaction, we deliver complete laboratory solutions from design to installation.

VISION & MISSION

To become a trusted leader in laboratory infrastructure solutions through innovation, quality, and engineering excellence.

To provide safe, efficient, and modern laboratory environments that support scientific research and industrial development.



10+

**Years of
Industry
Expertise**



500+

**Projects
Successfully
Delivered**



100+

**Satisfied
Industrial
Clients**



**PAN
INDIA**

Support Network

Our Core Technologies

Sterilization & Decontamination

- Bucket Type Autoclave •
- Portable Autoclave •
- Vertical Autoclave •
- Hospital Sterilizer •
- Horizontal Autoclaves •
- Triple Wall Sterilizers •

Life Science & Research

- Bacteriological Incubator •
- BOD Incubator •
- CO₂ Incubator •
- Environmental Chamber •
- Humidity Chamber •
- Climatic Chamber •
- Orbital Shaking Incubator •

Thermal & Industrial Processing Equipment

- Hot Air Oven •
- High Temp Oven •
- Industrial Furnace •
- Muffle Furnace •
- Tubular Furnace •
- Industrial Drying Oven •
- Hot Plates •
- Sand Bath •

Laboratory Safety & Airflow Systems

- Water Distillation Unit Wall Mounting •
- Water Distillation Table Top •
- Electric Bunsen Burner •
- Fume Hood Table Top •
- Fume Hood Floor Standing •
- Laminar Flow Horizontal •
- Laminar Flow Vertical •

Thermal Bath & Agitation Systems

- Constant Temp Water Bath •
- Curing Bath •
- Refrigerated Water Bath •
- Oil Bath •
- Water Bath Circular •
- Water Bath Rectangular •
- Serological Water Bath •
- Water Bath Shaker •
- Le-Chatelier Bath •
- Orbital Shaking Incubator •
- Water Bath Shake •



PERFORMANCE

AUTOCLAVE – BUCKET TYPE

Compact steam sterilizer for routine laboratory sterilization applications.

AUTOCLAVE – VERTICAL

Vertical steam sterilization system for laboratory materials.

AUTOCLAVE – PORTABLE

Portable sterilization unit designed for flexible laboratory and medical use.

AUTOCLAVE – HORIZONTAL CYLINDRICAL DOUBLE WALLED

Industrial-grade horizontal sterilizer with double-wall insulation for efficient operation

AUTOCLAVE – (STERILIZER) FOR HOSPITAL

Hospital
High-performance hospital sterilizer for medical and healthcare applications.

AUTOCLAVE – HORIZONTAL RECTANGULAR TRIPLE WALLED

High-capacity rectangular sterilizer for large-scale laboratory and hospital applications.

AUTOCLAVE – HORIZONTAL CYLINDRICAL TRIPLE WALLED

Advanced triple-wall sterilizer ensuring superior thermal efficiency and safety.



INNOVATION

BACTERIOLOGICAL INCUBATOR

Precision incubator designed for bacteriological and microbiological applications.

BOD INCUBATOR

Temperature-controlled incubator ideal for BOD testing and biological studies.

CO₂ INCUBATOR

Controlled CO₂ environment incubator for cell culture and tissue research applications.

ENVIRONMENTAL CHAMBER

Advanced environmental simulation chamber for stability and testing applications.

HUMIDITY CHAMBER 5°C TO 50°C WITH REFRIGERATION

Refrigerated humidity chamber for precise low-temperature humidity control.

CLIMATIC CHAMBER -20°C TO 150°C

Simulates climatic conditions with RH 5%–95% humidity control.

ORBITAL SHAKING INCUBATOR 5°C TO 50°C

Refrigerated orbital shaking incubator for advanced laboratory research processes.

ORBITAL SHAKING INCUBATOR AMBIENT +5°C TO 50°C

Incubation system with orbital shaking for microbiology and culture applications.



QUALITY

TUBULAR FURNACE – MAX TEMP. 1200°C

High-performance tubular furnace for controlled heating applications up to 1200°C.

INDUSTRIAL FURNACE

Heavy-duty industrial furnace for high-temperature laboratory and industrial processes.

TUBULAR FURNACE – HIGH TEMP. 1400°C

Advanced tubular furnace designed for high-temperature research and thermal applications.

HOT AIR OVEN

Uniform heating oven for drying, sterilizing, and laboratory heating applications.

HOT AIR OVEN – HIGH TEMP.

High-temperature oven designed for advanced thermal processing applications.

HOT PLATE – CIRCULAR

Compact circular hot plate for efficient laboratory heating operations.

HOT PLATE – RECTANGULAR

Rectangular laboratory hot plate for uniform surface heating applications.

INDUSTRIAL DRYING OVEN (TRAY DRIER)

Industrial drying system designed for uniform drying and thermal treatment.



TRUST

MUFFLE FURNACE LAB MODEL – 1000°C

Laboratory furnace suitable for thermal analysis and high-temperature testing up to 1000°C.

MUFFLE FURNACE – HEAVY DUTY GROOVED TYPE 1200°C

Heavy-duty muffle furnace engineered for intensive high-temperature operations

MUFFLE FURNACE – HIGH TEMP. 1400°C

Advanced high-temperature furnace designed for precision thermal processing up to 1400°C.

FUME HOOD – TABLE TOP / FLOOR STANDING MODEL

Laboratory safety enclosure designed for safe handling of hazardous fumes and chemicals.

LAMINAR FLOW CABINET – HORIZONTAL & VERTICAL

Clean air workstation providing particle-free environment for sterile laboratory operations.

BUNSEN BURNER – ELECTRIC

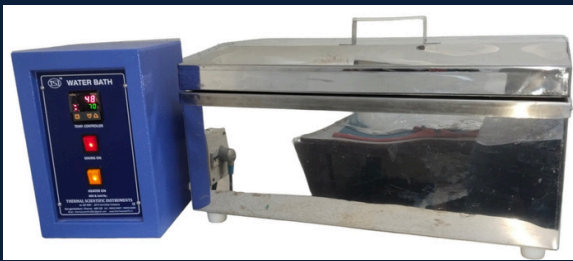
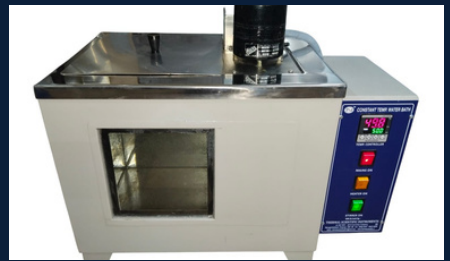
Safe and efficient electric heating burner for laboratory applications

WATER DISTILLATION UNIT – WALL MOUNTING TYPE

Wall-mounted distillation system for producing high-purity laboratory water.

WATER DISTILLATION UNIT – TABLE TOP MODEL

Compact tabletop distillation unit designed for laboratory water purification applications.



CURING TANK BATH

Temperature-controlled curing bath for concrete and material testing applications.

CURING TANK BATH WITH REFRIGERATION SYSTEM

Refrigerated curing bath designed for controlled material curing environments.

LE-CHATELIER BATH

Specialized laboratory bath designed for cement and material testing procedures.

LE-CHATELIER BATH WITH REFRIGERATION SYSTEM

Refrigerated Le-Chatelier bath for precision temperature-controlled testing applications.

LOW TEMP. WATER BATH (REFRIGERATED WATER BATH)

Refrigerated water bath for low-temperature laboratory testing and analysis.

OIL BATH – CIRCULAR

Circular oil bath designed for uniform high-temperature laboratory heating.

OIL BATH – RECTANGULAR

Rectangular oil bath for precise thermal processing applications.

SAND BATH – RECTANGULAR

Laboratory sand bath for uniform indirect heating applications.

EXCELLENCE

CONSTANT TEMP. WATER BATH

Precision water bath designed for stable temperature maintenance applications.

WATER BATH – CIRCULAR / CYLINDRICAL SINGLE WALL

Single-wall water bath for routine laboratory heating applications.

WATER BATH – CIRCULAR / CYLINDRICAL DOUBLE WALL

Double-wall insulated water bath ensuring stable and efficient temperature control.

WATER BATH – RECTANGULAR DOUBLE WALL

Double-wall rectangular water bath for enhanced thermal efficiency and uniform heating.

WATER BATH – RECTANGULAR SINGLE WALL

Rectangular single-wall water bath for laboratory heating and testing applications.

WATER BATH – SEROLOGICAL

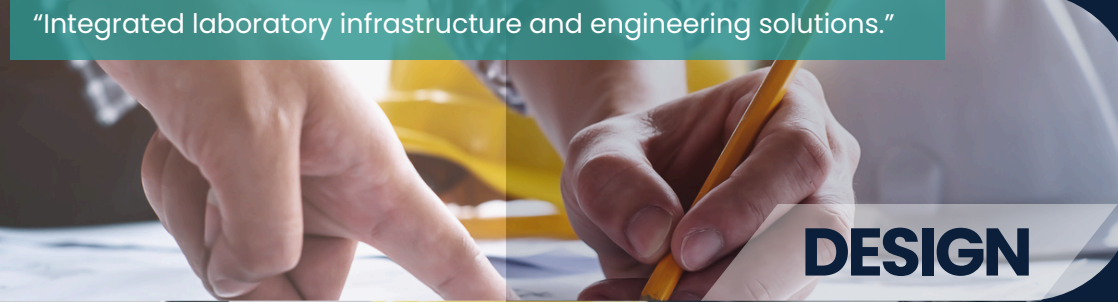
Specialized serological water bath designed for clinical and laboratory applications.

WATER BATH SHAKER

Combined heating and shaking system for sample incubation and laboratory mixing applications.



"Integrated laboratory infrastructure and engineering solutions."



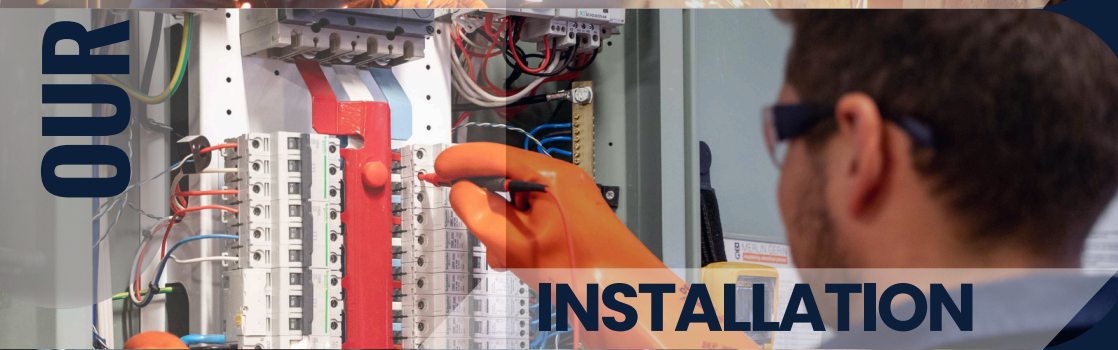
DESIGN



ENGINEERING



FABRICATION



INSTALLATION



SUPPORT

"Delivering Precision Laboratory Solutions Through Engineering Excellence."

OUR SERVICES

Why Industry Trusts Us

Delivering precision-engineered laboratory solutions with quality, reliability, and technical excellence.



Precision Engineering

High-quality engineering solutions designed for reliability and performance. And Advanced engineering solutions designed for accuracy, durability, and high operational performance.



Experienced Team

Skilled professionals with strong industry expertise and technical knowledge and also extensive expertise in laboratory engineering and manufacturing solutions.



Timely Execution



Quality Assurance

Strict quality control procedures ensuring reliable performance and consistent product standards.



Custom Manufacturing

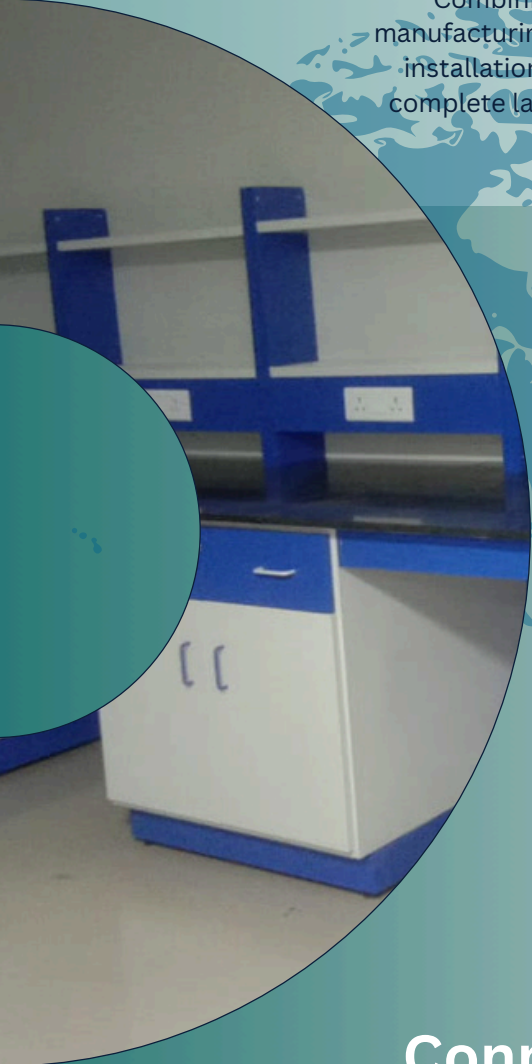
Customized laboratory equipment solutions developed to meet industry-specific requirements.

Built on Trust



Laboratory Interior & Furniture Solutions

Combining laboratory design, furniture manufacturing, scientific equipment production, installation, and technical support, we offer complete laboratory solutions under one roof.



Connect With Our Team



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Your Trusted Partner in Laboratory Engineering & Manufacturing Solutions