

# **TEST CHAMBERS**

SGM test chambers are well designed for conducting different laboratory and research experiments for different quality control tests to be carried out on different materials e.g. cement, motors, various electrical fittings, electronic circuits and components, cloth and paper etc. under controlled temperature and humidity conditions.

We deal in all kinds of test chambers for product testing, environmental parameter testing for varied application (Temperature range □ 100 degree to +250 degree c, Humidity 10%-95% Rh)

















Humidity & Temp. Controlled Cabinet

Plant Growth Chamber

Environmental chamber

Seed Germinator

Stability Test Chamber

Photo stability Chamber

Salt Spray Chamber

Corrosion Test Chamber

Thermal Shock Chamber

Climate control chamber

Climate control chamber

Ultra low humidity chamber

Tissue culture rack

Tissue culture room

Sand & Dust Chamber

Walk in Plant Growth Chamber

Walk in Environmental chamber

Walk in Seed Germinator

Walk in Stability Test Chamber

Walk in Photo stability Chamber

Walk in Humidity & Temp. Controlled Cabinet

Walk in cold clean room

# **CLEAN ROOM EQUIPMENTS**

SGM has developed a wide variety of clean room equipments designed to meet diverse applications in the life science, clinical, pharmaceutical and industrial laboratory.

SGM Clean room system combines the need for a flexible solution with the request for durability and flush surfaces. It offers an economical approach to your clean room needs.

SGM is a multifaceted company having a state of art manufacturing plant with latest machines and assembly line to achieve absolute quality products for use with in Clean Rooms such as Dispensing / Sampling Booths, LAF Units, Dynamic/Static Pass Boxes etc.







#### **AIR CURTAIN**

#### MODULAR CLEAN ROOM

#### AIR SHOWER

One side flow air shower Both side flow air shower Tower flow air shower Industrial air shower Tunnel type air shower



#### **FUME HOODS**

Wooden construction fume hood
CRC fume hood
S.S construction fume hood
Chemical fume hood
Bench top fume hood



Vertical laminar air flow Horizontal laminar air flow

#### **BIO SAFETY CABINETS**

Bio safety cabinet class 1 Bio safety cabinet class 2 Bio safety cabinet class 3 Walk in bio safety cabinets



#### GLOVE & PASS BOX

Normal / Vacuum glove box Dynamic / Static pass box



# LABORATORY INCUBATORS & OVENS

We offer a design & manufacturing facility - providing custom built solutions to meet individual requirements for both special laboratory and industrial furnaces and ovens. SGM incubators and ovens are designed to meet customized requirements of different customers, SGM as an experienced incubators and ovens manufacturer in India, produces standard as well as customized models. These Incubators and ovens come in various sizes and capacities











#### **INCUBATORS**

BOD incubator
Co2 incubator(water/air jacket)
Egg incubator
Poultry incubator
Dry bath incubator
Anaerobic culture incubator
Orbital shaking incubator



#### **OVENS**

Hot air oven
Industrial drying oven
High temperature oven
Vacuum oven(Round/rectangular)
Hybridization oven
Blast proof oven
flame proof oven



# COOLING EQUIPMENTS

We are manufacturers of cooling equipments laboratory since more than two decades now, serving the industry with sincerity and integrity, thereby evolving with the changing needs and requirements of the industry, with the passage of time, embracing new challenges to produce quality cooling equipments and match up with the high degree of service back up and personalized touch, required and expected from us from our patrons across India and abroad.











Deep freezers
Ultra low deep freezers
Laboratory refrigerators
Chiller
Ice flaker machine
Freeze driers(lypholizers)
Blood bank refrigerator
Mortuary chamber

# STERILIZERS/AUTOCLAVE

Sterilization is any process that eliminates or kills all forms of microbial life. It can be achieved by applying the proper combinations of heat, chemicals, high pressure, and filtration. An autoclave is a device used to sterilize equipment and supplies by subjecting them to high pressure saturated steam at 121 °C for around 15-20 minutes depending on the size of the load and the contents. Autoclaves are widely used in microbiology, medicine, tattooing, body piercing, veterinary science, chiropody and prosthetics fabrication.













Vertical autoclave
Autoclave Horizontal (cylindrical)
Cement autoclave
Portable autoclave
Pulse sterilizer
UV sterilizer

Biomedical waste sterilizers
Table top front loading steam sterilizers
Vertical standing steam sterilizers
Horizontal high pressure cylindrical steam sterilizer
Horizontal high pressure rectangular steam sterilizer

# MICROSCOPES & TELESCOPES

Explore the world and space in detail with a selection of SGM's telescopes and microscopes. This high-quality microscopes and telescopes will allow you to see distant stars and microscopic nature with precision and clarity. The Universal Family Telescope allows you to capture a close-up look at the universe and natural wonders with adjustable eyepieces equipped with star tracking. SGM's Telescope is ideal for portability, whether you're tracking wildlife or meteor showers. The classic Brass Telescope is a collector's piece that combines a traditional mariner's scope with updated optics and a beautiful brass body.







Metallurgical microscope Inverted Metallurgical microscope









Digital LCD microscope
High Definition digital imaging microscope
Biological microscope
Parallel optical microscope
Projection microscope
Tools maker microscope
Reading telescope
Astronomical telescope

# LABORATORY BATHS

There is a wide range of laboratory baths that are ideal for chemical experimentation in different industries. SGM water baths are manufactured using superior quality raw material, and insulated using superior quality glass wool. Any baths that work above 100oC will need a liquid in them such as oil. Any baths that work below ambient will need an internal or external cooling system. If they work below the freezing point of water they will need to be filled with a suitable anti-freeze solution. If you require very accurate control you require the laboratory stirred baths with accurate thermostat/circulator.









Water bath rectangular(single walled)
Water bath rectangular(Double walled)
Serological water bath
Refrigerated water bath

High precision water bath
Circulatory water bath
Ultrasonic cleaning bath
Tissue flotation bath



# **SHAKERS**

SGM Laboratory shakers are known the world over for dependable operation and innovative design. They are so called because the method of creating sound involves shaking them—moving them back and forth rather than striking them. They are designed for applications that require precise control with speed and mode of operation. Rugged aluminum construction and durable motors ensure quiet and trouble-free use.









Bench top incubator shaker(single/double platform)
Orbital shakers
Magnetic shakers
Wrist action shaking machine
Rotary flask shaker
Rotary sieve shaker
Gyratory sieve shaker

Table top sieve shaker

Vortex shaker

Kahn shaker

Universal shaker

Gel rocker shaker

Flip Flop shaker

Metabolic shaker

# **SPECTROPHOTOMETERS**

A spectrophotometer is commonly used for the measurement of transmittance or reflectance of solutions, transparent or opaque solids, such as polished glass, or gases. However they can also be designed to measure the diffusivity on any of the listed light ranges that usually cover around 200nm - 2500nm using different controls and calibrations. Within these ranges of light, calibrations are needed on the machine using standards that vary in type depending on the wavelength of the photometric determination.



Fluorescent spectrophotometers
Digital Spectrophotometer (Double Display)
Microprocessor Spectrophotometer(VIS) Single Beam
Single beam UV visible range spectrophotometers
Double beam UV visible range spectrophotometers
Atomic absorption spectrophotometers

# **GENERAL LABORATORY EQUIPMENTS**

SGM Instruments offers a wide range of general lab equipments such as balances, furnace, microtome, Willy mill, ball mill, hot plate, magnetic stirrer, vacuum pump. Furnace is used to heat blocks and turn them into other items. SGM Microtomes are used in microscopy, allowing for the preparation of samples for observation under transmitted light or electron radiation

Bomb colorimeter

Colony counter

Heating mantle

Humidifier

Dehumidifier

Willy mill

Ball mill

Magnetic stirrer

**Polarimeters** 

Soxhlet extraction unit

#### **BALANCES**

General purpose table top balance

High precision balance

Micro balance

Analytical balance

Moisture balance

Industrial balance Flame proof balance

Counter table top balance

Platform scale

# Hot plate

Round Hot plate Rectangular Hot plate

# Centriguges Macines

Low capacity refrigerated centrifuge High capacity refrigerated centrifuge Programmable refrigerated centrifuge Low capacity non refrigerated centrifuge High capacity non refrigerated centrifuge Programmable non refrigerated centrifuge









#### **Microtome**

Hand Microtome Rotary Microtome Wood Microtome Semi automatic Microtome Automatic Microtome

Freezing Microtome cryostat microtome

#### Distillation unit

Metal Distillation unit Glass Distillation unit Quartz Distillation unit

### Vacuum pump

Single Stage Rotary Vane Pump (Oil Free) Rotary Vacuum Pump(Single/ Double Stage) Oil Sealed Rotary/oil Free Vaccum Pump Small Diaphragm Type Pump for Filtration

#### **FURNACE**

High temperature muffle furnace
Tube furnace
Rotary tube furnace
Vacuum box furnace
Annealing furnace

#### Refractometers

Hand Refractometer ABBE Refractometer

Sintering furnace



# **WATER TESTING EQUIPMENTS**











Water hardness/ Water tests meter
Dissolved oxygen meters
Ion concentration meters
BOD Analyzer
COD analyzer
TOC Analyzer
COD Analysis colorimeter
Electrochemical analyzer
Turbidity meter
Water analyzer
Water toxicity analyzer
Multi function reactor

#### Ph meter

Portable Ph meter
Table top Ph meter
Microprocessor based Ph meter
Analytical Ph meter

#### Conductivity meter

Portable Conductivity meter
Table top Conductivity meter
Microprocessor based Conductivity meter



# **NDT EQUIPMENTS**

It is a wide group of analysis techniques used in science and industry to evaluate the properties of a material, component or system without causing damage. The terms Nondestructive examination (NDE), Nondestructive inspection (NDI), and Nondestructive evaluation (NDE) are also commonly used to describe this technology. Because NDT does not permanently alter the article being inspected, it is a highly-valuable technique that can save both money and time in product evaluation, troubleshooting, and research. Common NDT methods include ultrasonic, magnetic-particle, radiographic, remote visual inspection (RVI).











Ultrasonic flaw detectors
Pulse velocity tester
Portable hardness meter
Dry penetration kit
Rebar locater
Rebound hammer

# **ENVIRONMENT TESTING EQUIPMENTS**

Environmental tests are used to verify a piece of equipment can withstand the rigors of harsh environments for example - extremely high and low temperatures, large, swift variations in temperature, accelerations, solar radiations. We offer critical environment Testing Services. Our service comprises ambient air, stack emissions, noise, soil, sludge, effluent, generator and engine exhausts, volatile compounds, semi-volatiles, hazardous air pollutants, air toxics, metals and particulates.













#### Vibration Monitoring







### Flue Gas Analyzer

Flue Gas Emissions Analyzer

### Air Monitoring Equipments

Water Pollution Monitoring

# Air Monitoring Equipments

PM 2.5 Sampler
Portable/Handy Dust Sampler
Stack Monitoring Kit
Respirable Dust Sampler
Air Sampler
Thermoelectrically Cooled Gaseous Sampling Attachment
Ambient Air Monitoring Equipments

# Sound Level / Noise Monitoring

Digital Sound Measurement Meters
Digital Sound Level Meters
Lutron Sound Level Meter
Integrating Sound Level Meter
Sound Level Meter With LEQ And Data Logger

#### Weather Monitoring Station

Climate Monitoring Station Automatic Weather Monitoring Station Automatic Weather Station Meterological Station Digital Weather Station

### Analytical & Laboratory Instruments

Spectrophotometer Cells Fluorimeter Cell/Cuvettes KBR Hydraulic Press



# **ENGINEERING AND CONSTRUCTION EQUIPMENT**

Cement Concrete Testing Instruments

Aggregate Testing Instruments.

Soil Testing Instruments.

Bar Bending & Bar Cutting

# **Cement Concrete Testing Instruments**





















**VICAT Needle Apparatus** 

Flow Table

LE Chatelier Mould

LE Chatelier Water Bath

LE ChatelierFlask

Flexure Testing Machine (Motorised)

**MortorMixer** 

**Gauging Trowel** 

Vibrating Machine

**VEE BEE Consistometer** 

Slump Test Apparatus

**VICAT Needle Apparatus** 

Cement Mortar Permeability Apparatus (Six Cell Model)

Flow Table LE Chatelier Mould LE Chatelier Water Bath

LE ChatelierFlask

Flexure Testing Machine (Motorised)

**MortorMixer** 

**Gauging Trowel** 

Vibrating Machine

**VEE BEE Consistometer** 

Slump Test Apparatus

Cement Mortar Permeability Apparatus (Six Cell Model)

# **Aggregate Testing Instruments**





















Thickness Gauge
Length Gauge
Cylindrical Measures
MeatalMeasures
Riffle Sample Divider
Riffle Sample Divider
Aggregate Crushing Value Apparatus
Aggregate Impact Tester with Blow Counter
Los Angeles Abrasion Testing Machine
Ring & Ball Apparatus
Ring & Ball Apparatus (Electrical
Standard Penetrometer

Semi-Automatic Penetrometer
Straight Edge (3 Meters)
Binder Extractor (Hand Operated)
Centrifuge Extractor (Motorised)
SAY Bolt Viscometer
Ring & Ball Apparatus
Pavement Core Drilling Machine
Automatic Compactor
Ductility Testing Apparatus
BENKELMAN Beam



# **Aggregate Testing Instruments**



















Plastic Limit Test
Shrinkage Limit Set
Linear Shrinkage Mould
Soil Cone Penetrometer
Liquid Limit Device
High Speed Stirrer:
Grain Size Analysis (Pipette Method)
Soil Hydrometer

Sand Equivalent Test Set

# **Bar Cutting & Bending**

Steel Bar Cutting Machine



# **Bar Bending**

Steel Bar Bending Machine (with Crompton motor)





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