



# CATALOG

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**PHARMACY**

**PHYSIOLOGY**

**MICROSCOPY**

**AGRICULTURAL**

**SCIENTIFIC LABORATORY**

**INDUSTRIAL AUTOMATION**

**ELECTRONICS INSTRUMENTS**



## **M.G. SCIENTIFIC TRADERS**

## About Us

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M.G. Scientific Traders offer wide range of scientific instruments and laboratory equipments of Excellent Quality at Low Prices, with a Huge Selection and Personalized Customer Service Instruments for Research Labs, Colleges, Schools and various industries:

Scientific and Laboratory Inst.	Agriculture & Seed Testing
Pharmacy Instrument	Industrial Automation
Microscopes	Garden Tools

M.G. Scientific Traders believe in producing a product of the highest quality and design. Our products are carefully designed and manufactured in the spirit of old world craftsmanship. To ensure the highest quality and durability possible, all parts are individually checked and inspected before they are manufactured.

M.G. Scientific Traders also utilize state of the art design along with advance technology and tooling to make high performance instruments. Our employees are continually refining the products to ensure that they are the best modern products you can get.

We Offers Scientific & Lab. Inst. Ovens, Incubator, Autoclave, Water Bath, Water Still, Muffle Furnance, Hot Plate, Heating Mantle, Glass Beed Sterizer, Soxhlet Extraction and Kjeldhal Units, Enviornmental Chamber, Mortuary Chamber, Incinerator, Bone and Meat cutting Machine, Blood Bank Refrigerator and deep Freezers, Laboratory Centrifuge, Laboratory Stirrer and Shakers, Over Head Projectors, Refractrometer and Polarimeter, Microtome and Tissue Processor, Clean Air Systems( Laminar Air Flow, Fume Hood, Air Curtains, Air Showers), Electronic Instruments. etc.....

**Microscopes :** Vernier Microscope, Student Dissecting Microscope, Student Microscope, Monocular, Binocular, Trinocular, Metallurgical, Stereo Zoom, Phase Contrast, Dark Field, Polarizing, Flourescent, Dual Head, Penta Head, Projection, Inverted Tissue Culture Microscopes, Photomicrography Equipments and Image Analyzer Software etc...

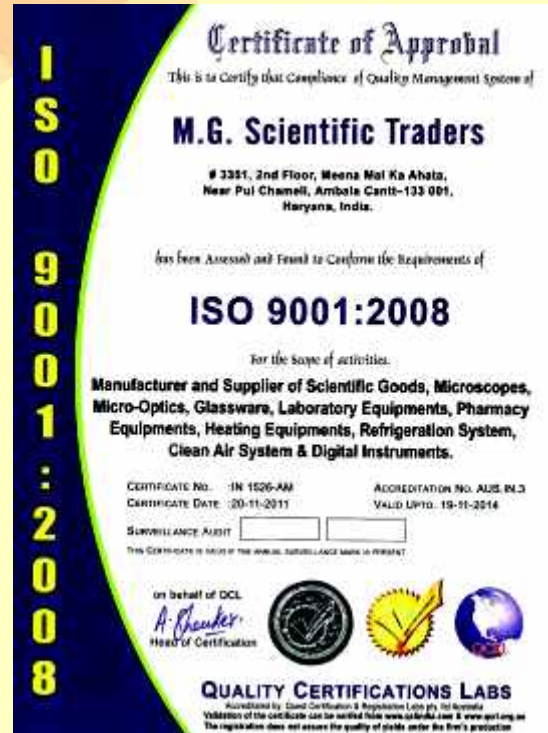
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**Industrial Automation Systems :** Level Control Systems for Liquid and Solids, PID Temperature, Humidity Controllers, Timers, AC/DC Drives, Counters, PLC's, Electrical Panels, Proximity Sensors, Panel Meters, Encoders and Washroom Automation etc ...

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**Garden Tools :** All Kind of Garden Tools.....

**Agriculture Product :** Grain Seed Counter, Seed Dividers, Seed analysis Kit, Lab Seed Grader, Seed Blower, lab aspirator, Sieves, Seed Dial caliper, Seed Triers, Illuminated Purity Work Board, Sample sheller, Rice Polisher, Grain sizing device, Mositure Analyser, Seed germinator (Single/ Dual Chamber), Plant Growth Chamber.... Complete Physics, Chemistry, Biology and Biotechnolgy Labs



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**MGS-1001 AUTOCLAVE LABORATORY (Portable)**

Fitted with pressure gauge upto 20psi. The unit has spring loaded safety valve for pressure adjustment and a dead weight safety valve. Supplied with electric fittings, cord and plug to work on 220/230 volts A.C. supply. Supplied complete with tripod stand.

**Size (Dia x height in mm)**

- a) 300 x 300 mm (Seamless)
- b) 300 x 375 mm (Jointed)

**MGS-1002 AUTOCLAVE VERTICAL (Double Wall)**

It used for Sterilizations under saturated steam pressure at any selected point between 10 to 20 p.s.i.(adjustable). These are double walled units with inner chamber (Boiler) made of 18 S.W.G. stainless steel fitted with neoprene rubber gasket. All autoclaves are fitted with standard accessories such as pressure gauge, steam release cock, spring loaded safety valve, water drain valve and heating elements. Supplied complete with cord and plug to work on 220/230 A.C. Supply.

**ECONOMY MODEL :**

Chamber size in mm	Load	Capacity (Approx.)
Dia x Depth		
a) 250 x 450 mm	2 KW	22 ltrs.
b) 300 x 500 mm	3 KW	40 ltrs.
c) 350 x 550 mm	4 KW	50 ltrs.
d) 400 x 600 mm	5 KW	78 ltrs.
e) 450 x 600 mm	5 KW	98 ltrs.
f) 550 x 750 mm	6 KW	152 ltrs.

**MGS-1003 Deluxe Model : All Stainless Steel Body fitted with Vacuum Breaker a safety device**

Chamber size in mm	Load	Capacity (Approx.)
Dia x Depth		
a) 250 x 450 mm	2 KW	22 ltrs.
b) 300 x 500 mm	3 KW	40 ltrs.
c) 350 x 550 mm	4 KW	50 ltrs.
d) 400 x 600 mm	5 KW	78 ltrs.
e) 450 x 600 mm	5 KW	98 ltrs.
f) 550 x 750 mm	6 KW	152 ltrs.

**OPTIONAL ACCESSORIES (For Deluxe and Economy Model)**

- i) Automatic low-water level cut off-device.
- ii) Pressure control switch.
- iii) Water level arrangement.
- iv) Digital Temp. Indicator
- v) Digital Timer
- vi) Digital temp. Controller & Digital Timer Combined
- vii) Pedal lifting device
- viii) Digital temp. Indicator cum Controller
- ix) Dressing bins for various sizes

**MGS-1004 AUTOCLAVE VERTICAL HIGH PRESSURE (Triple walled) Dry Sterilization**

Most useful for sterilizing the loaded material under a steam pressure of 10 to 20 psi (adjustable). It has inner chamber, steam jacket and outer wall made of S.S. duly argon arc welded. The space between outer wall and steam jacket is filled with high grade glass wool to minimize the temperature loss. The lid is made of thick stainless steel and closed by radial type closing arrangement. Fitted with a gasket made up of neoprene rubber, safety valve. Drain cock, water inlet, water level indicator, steam release valve, pressure gauge, and S.S. basket.

Chamber size in mm	Load	Capacity (Approx.)
Dia x Depth		
a) 250 x 450 mm	2 KW	22 ltrs.
b) 300 x 500 mm	3 KW	40 ltrs.
c) 350 x 550 mm	4 KW	50 ltrs.



MGS-1001



MGS-1003



MGS-1004



**MGS-1005**

d)	400 x 600 mm	5 KW	78 ltrs.
e)	450 x 600 mm	5 KW	98 ltrs.
f)	550 x 750 mm	6 KW	152 ltrs.

**OPTIONAL ACCESSORIES**

- i) Pressure control switch.
- ii) Automatic low-water level cut off-device.
- iii) Digital Temp. Indicator.
- iv) Digital Temp. Indicator-cum-controller.
- v) Digital Timer.
- vi) Digital temp. Controller & Digital Timer Combined.

**MGS-1005 AUTOCLAVE HORIZONTAL (Cylindrical with Separate Boiler)**

This is a double walled unit mounted horizontal on a sturdy, heavy mild steel tubular stand duly painted. Pressure is adjustable from 10-20 psi. Fitted with pressure gauge, safety valve and steam release valve. Fitted with S.S. Boiler, separate valves for injecting the steam into the main chamber and releasing the steam in atmosphere after use are provided. Automatic vacuum breaker is provided to break the vacuum in case of formation of vacuum due to steam condensation. Inner Chamber made S.S. and Outer of S.S./ M.S. duly painted. Fitted with Automatic pressure control switch and automatic low water level cut off device. Lid is made os S.S. plate with radial locking.

	<b>Dia x Depth</b>	<b>Load</b>	<b>Capacity (Approx.)</b>
a)	300 x 500 mm	3 KW	40 ltrs.
b)	350 x 550 mm	4 KW	50 ltrs.
c)	400 x 600 mm	5 KW	78 ltrs.
d)	450 x 600 mm	5 KW	98 ltrs.
e)	550 x 750 mm	6 KW	152 ltrs.
f)	400 x 1100 mm	9 KW	162 ltrs.



**MGS-1006**

**MGS-1006 HORIZONTAL HIGH PRESSURE CYLINDRICAL STEAM STERILIZER (TRIPLE WALLED WITH STEAM JACKET AND SEPARATE BOILER)**

The inner chamber, steam jacket, outer chamber and boiler are made of heavy gauge stainless steel with leak proof argon arc welding. The radial locking lid is made thick S.S. plate. The space between the outer chamber and steam jacket is fitted with glass wool to minimize thermal losses. Steam boiler is fitted with water level indicator, pressure gauge, low water cut-off device and automatic pressure control device and vacuum breaker to break vacuum in case of formation of vacuum due to steam condensation. Two separate valves are provided for evacuating steam for inner chamber and jackets as and when desired. Stand made of M.S. pipe.

	<b>Dia x Depth</b>	<b>Load</b>	<b>Capacity (Approx.)</b>
a)	400 x 600 mm	6 KW	78 ltrs.
b)	400 x 1100 mm	9 KW	162 ltrs.
c)	500 x 900 mm	9 KW	165 ltrs.
d)	500 x 1200 mm	9 KW	221 ltrs.

Note: Please ask for other capacities and sizes of your requirement.

**MGS-1007 INCUBATOR BACTERIOLOGICAL**

Standard double wall fabrication. Inner chamber made out of richly anodized aluminium or highly polished stainless steel sheet and outer made out of thick mild steel sheet finished in white stoving enamel/powder coated paint with mat finished colour combinations. Double wall door with double glass window for observation in the chamber. Temperature range 5° C above ambient to 80° C ± 1° C controlled by a thermostat. The equipment is workable on 220 V Ac 50 Hz single phase.



**MGS-1007**

	<b>Chamber size in mm/Inches</b>	<b>No. of Shelves</b>	<b>Capacity (Approx.)</b>
	<b>H D W</b>		
a)	300 x 300 x 300 (12"x 12"x12")	2	28 ltrs.
b)	350 x 350 x 350 (14"x 14"x14")	2	45 ltrs.
c)	400 x 400 x 400 (16"x16"x16")	2	65 ltrs.
d)	450 x 450 x 450 (18"x 18"x18")	2	95 ltrs.





e)	600 x 450 x 450 (24"x 18"x18")	2	125 ltrs.
f)	600 x 600 x 600 (24"x 24"x 24")	2	224 ltrs.
g)	900 x 600 x 450 (36" x 24"x18")	2	252 ltrs.
h)	900 x 600 x 600 (36"x 24"x24")	2	336 ltrs.
i)	900 x 900 x 900 (36"x 36"x36")	3	480 ltrs.

**OPTIONAL:**

- i) Air circulating fan.
- ii) Timer 0-24 hours.
- iii) Imported Thermostat "EGO" / "JUMO" German with the accuracy of  $\pm 0.1^{\circ}\text{C}$ .
- iv) Digital temp. Indicator-cum-Controller.
- v) Microprocessor PID digital temp. Indicator-cum-controller.

**MGS-1008 B.O.D INCUBATOR (BIO-CHEMICAL OXYGEN DEMAND) (Deluxe-Digital Control)**

Double wall construction. Inner chamber made of richly anodized aluminium or highly polished stainless steel sheet. Supplied with two/three removable perforated shelves. Exterior made out of thick mild steel sheet duly finished in white stoving enamel/powder coated paint with mat finished colour combinations. Outer double wall door is provided with magnetic gasket and lock & key arrangement. Inner door unbreakable acrylic transparent sheet for inspection of material in the chamber without disturbing the chamber temperature. Door operated inner illumination has been provided. Temperature is controlled by Deluxe Digital Controller from  $5^{\circ}\text{C}$  to  $50^{\circ}\text{C} \pm 0.5^{\circ}\text{C}$ . Standard cooling unit with a sealed compressor with protective devices has been provided below the chamber for safe and efficient working. Heating arrangement has been made with in the chamber for higher temperature working. Inner air circulating system is provided to achieve uniform temperature. A control panel is provided with various indicators, on-off switch. Supplied with cord and plug etc. To work on 220V AC 50Hz single phase.

	<b>Inner Chambers sizes in mm W x D x H</b>	<b>Cap. in cu.ft.</b>	<b>Capacity (Approx.)</b>
a)	405 x 405 x 405 (Bench Top Model)	2.4 cu.ft.	65ltrs.
b)	455 x 410 x 610	4 cu. Ft.	112 ltrs.
c)	505 x 415 x 830	6.1 cu.ft.	171 ltrs.
d)	565 x 565 x 865	10 cu. ft.	280 ltrs.
e)	650 x 580 x 900	12 cu. ft.	336 ltrs.
f)	700 x 650 x 900	15 cu. ft.	420 ltrs.

**OPTIONAL:**

- i) Timer 0-24 hours day night cycle.
- ii) Co2/air mixer nozzle is provided.
- iii) Internal illumination with 3 fluorescent tubes.
- iv) Microprocessor PID digital temp. Indicator-cum-controller.
- v) Automatic Voltage stabilizer 3 KVA (recommended - must).
- vi) Automatic Voltage stabilizer 5 KVA (recommended - must).

**MGS-1009 HYBRIDIZATION INCUBATOR**

Inside made of stainless steel. Temperature Range is above ambient  $5^{\circ}\text{C}$  to  $90^{\circ}\text{C}$ . The chamber has Air circulating fan to ensure uniformity of temp. A carrier to hold bottles (6 number of 60 mm DIA. x 200 mm Depth) can be easily placed on front of rotator mechanism. Any bottle can be taken out easily from the carrier. The carrier rotates with bottles parallel to the door at a variable speed. Viewing glass window in the specimen inside the chamber. Complete with microprocessor PID digital temp. Indicator-cum-controller.

**MGS-1010 EGG INCUBATOR**

Outer wall is made of M.S. sheet duly finished in white stoving enamel/powder coated paint with mat finished colour combinations and inside of stainless steel. The gap between inner and outer wall is filled with high grade mineral glass wool. Temperature range from ambient to  $70^{\circ}\text{C}$  is controlled by "EGO" / "JUMO" German capillary type thermostat with an accuracy of  $\pm 0.5^{\circ}\text{C}$ . The unit is provided with manual tilting device, so as to tilt the tray holding the eggs. To work on 220/230 volts A.C. supply.

<b>CAPACITY</b>			
a)	50 eggs	c)	200 eggs
b)	100 eggs	d)	250 eggs

**OPTIONAL:**

- i) Digital temp. Indicator-cum-Controller.
- ii) Microscope PID digital temp. Indicator-cum-Controller.



**MGS-1008**



**MGS-1009**



**MGS-1010**



**MGS-1011**

**MGS-1011 ORBITAL SHAKING INCUBATOR**

Standard double wall construction. Outer chamber made out of mild steel finished in white stoving enamel/powder coated paint with mat finished colour combinations. Inner chamber made of stainless steel sheet. The double door is provided with double glass full view window. Interchangeable platform has been provided. Temperature range 5°C above ambient to 60° C ± 1° C is controlled by a digital controller. Variable speed control regulator controls the speed up to 200 rpm Supplied complete to work on 220V Ac 50Hz single phase. Capacity 16x500ml conical flasks.

**OPTIONAL:**

- i) Air circulating fan.
- ii) Timer 0-24 hours
- iii) Microprocessor PID digital temp. Indicator-cum-controller.



**MGS-1012**

**MGS-1012 ORBITAL SHAKING INCUBATOR cum B.O.D. Incubator**

Same as MGS-1011 but temperature range 5° C to 60° C with lighting arrangement.

**MGS-1013 WALK-IN-INCUBATOR**

Designed for vast number of incubation applications. Can be installed even in hallway room or wherever convenient. Design feature includes enameled mild steel sheet exterior, aluminium / stainless steel, interior ventilators, internal lighting, exhaust fan etc. Suitable insulated 300 mm sq. inspection window at the door permits inside view with-out opening the door. Complete with panel. Pre fabricated at factory assembled at site. Complete with cord and plug to work on 220V single phase 50 Hz AC supply. Temperature range from 5° C above ambient to 60° C ± 1° C. Controlled by digital indicator-cum-controller .

**Available sizes W x H x D**

- a) 1.2 x 2.3 x 1.2 meter
- b) 2.3 x 2.3 x 2.3 meter



**MGS-1013**

**MGS-1014 WALK-IN-INCUBATOR**

Same as MGS-1013 but with controlled humidity up to 95% ± 5 %

**Sizes (W x H x D)**

- a) 1.2 x 2.3 x 1.2 meter
- b) 2.3 x 2.3 x 2.3 meter

**MGS-1015 WALK-IN-INCUBATOR**

Same as MGS-1014 but Temperature range 10° C to 60° C.

**Sizes (W x H x D)**

- a) 1.2 x 2.3 x 1.2 meter
- b) 2.3 x 2.3 x 2.3 meter



**MGS-1016**

**MGS-1016 HOT AIR OVEN & INCUBATOR COMBINED (TWIN MODEL)**

Consists of two chambers-upper and lower chambers. The lower chamber works as an incubator where as the upper chamber works as an oven. Chamber made of polished 304 grade stainless steel sheet. Exterior fabricated out of thick mild steel sheet duly finished in white stoving enamel/powder coated paint with mat finished colour combinations.

Kanthal wire heating elements provided on three sides to attain quick and uniform heating in range of 150°C to 200°C ± 2°C, controlled by capillary type thermostat. L-shaped thermometer is built-in type. Control panel is provided with selector switch of high or low rates of power thermostat control Knob and indicators for mains & thermostat. Supplied with cord and plug. The equipment is suitable to operate on 220 V AC 50 Hz single phase.

	Chamber size in mm / Inches		No. of Shelves	Capacity (Approx.)
	H	W		
a)	300 x 300 x 300	(12" x 12" x 12")	4	28 ltrs.
b)	350 x 350 x 350	(14" x 14" x 14")	4	45 ltrs.
c)	400 x 400 x 400	(16" x 16" x 16")	4	65 ltrs.
d)	450 x 450 x 450	(18" x 18" x 18")	4	95 ltrs.
e)	600 x 450 x 450	(24" x 18" x 18")	4	125 ltrs.
f)	600 x 600 x 600	(24" x 24" x 24")	4	224 ltrs.



OPTIONAL:

- i) Air circulating fan.
- ii) Timer 0-24 hours.
- iii) Imported Thermostat "EGO" / "JUMO" German, Accuracy of ± 1°C.
- iv) Digital temp. Indicator-cum-Controller.
- v) Microprocessor PID digital temp. Indicator-cum-controller.

**MGS-1017 HOT AIR UNIVERSAL OVEN (Memmert Type) (Three side heating elements)**

Standard double wall fabrication, Inner chamber made of richly anodized aluminium or highly polished stainless steel sheet. Exterior fabricated out of thick mild steel sheet duly finished in white stoving enamel/powder coated paint with mat finished colour combinations.

Kanthal wire heating elements provided on three sides to attain quick and uniform heating in range of 50°C to 250°C ± 2°C, controlled by capillary type thermostat. L-shaped thermometer is built-in type. Control panel is provided with selector switch of high or low rates of power thermostat control Knob and indicators for mains & thermostat. Supplied with cord and plug. The equipment is suitable to operate on 220 V AC 50 Hz single phase.

	Chamber size in mm / Inches H W (Approx.)	No. of Shelves	Capacity (Approx.)
a)	300 x 300 x 300 (12" x 12" x 12")	2	28 ltrs.
b)	350 x 350 x 350 (14" x 14" x 14")	2	45 ltrs.
c)	400 x 400 x 400 (16" x 16" x 16")	2	65 ltrs.
d)	450 x 450 x 450 (18" x 18" x 18")	2	95 ltrs.
d)	600 x 450 x 450 (24" x 18" x 18")	2	125 ltrs.
e)	600 x 600 x 600 (24" x 24" x 24")	2	224 ltrs.
f)	900 x 600 x 450 (36" x 24" x 18")	2	252 ltrs.
g)	900 x 600 x 600 (36" x 24" x 24")	2	336 ltrs.
h)	900 x 900 x 900 (36" x 36" x 36")	3	480 ltrs.

OPTIONAL:

- i) Air circulating fan.
- ii) Timer 0-24 hours.
- iii) Imported Thermostat "EGO" / "JUMO" German, Accuracy of ± 1°C.
- iv) Digital temp. Indicator-cum-Controller.
- v) Microprocessor PID digital temp. Indicator-cum-controller.

Note: Bottom Heated Oven is available on same price.

**MGS-1018 DRYING OVEN INDUSTRIAL**

Standard sturdy double wall fabrication. Inner & outer chamber made out of thick mild steel sheet. Inner chamber backed silver paint finish and exterior finished in hammertone. Heavy duty forced air blowers are provided to constantly circulate hot air to achieve uniform temp. in the whole chamber. Double wall door is mounted on heavy hinges and provided with heavy moulded latch.

Temperature is controlled by a thermostat and it can be read on dial type thermometer. Temperature range: 50° C to 250° C ± 2° C to 5° C and equipment is workable on 220 V AC 50Hz single phase or 440 volts AC supply.

**Chamber size in mm & inches (HxWxD) Approx.**

a)	900 x 600 x 600 mm	(36" x 24" x 24")
b)	1200 x 900 x 600 mm	(48" x 36" x 24")
c)	1500 x 900 x 900 mm	(60" x 36" x 36")
d)	1800 x 1200 x 900 mm	(72" x 48" x 36")

OPTIONAL:

- i) Timer 0-24 hours.
- ii) Digital temp. Indicator-cum-Controller.

Note: Please ask for other capacities of your requirement.



MGS-1017



MGS-1018



MGS-1019

**MGS-1019 TRAY DRYER (Tray Size 16" x 32" x 1¼")**

Standard sturdy double wall fabrication. Inner & outer chamber made out of thick mild steel sheet. Inner chamber backed silver paint finish and exterior finished in hammertone. Heavy duty forced air blowers are provided to constantly circulate hot air to achieve uniform temperature in the whole chamber. Double wall door is mounted on heavy hinges and provided with heavy moulded latch. Temperature is controlled by a thermostat and it can be read on dial type thermometer. Temperature range: 50° C to 250° C ± 2° C to 5° C and equipment is workable on 220 V AC 50Hz single phase or 440 volts AC supply.

	<b>Chamber size in mm approx. (W x D x H)</b>	<b>Tray Capacity</b>
a)	430 x 840 x 650	8 trays
b)	430 x 840 x 910	12 trays
c)	910 x 840 x 910	24 trays
d)	960 x 1270 x 1450	48 trays

**OPTIONAL:**

- i) Timer 0-24 hours.
- ii) Digital temp. Indicator-cum-Controller.
- iii) Aluminium Tray 16" x 32" x 1¼" size.

**MGS-1020 BOTTLE DRYER**

Standard specifications as per MGS-1018 & 1019. Complete with thermostatic temp. Control, dial type thermometer, double wall construction and two side opening doors. Temperature attained uniformly by forced air circulation through heavy duty blowers.

	<b>Capacity</b>
a)	For 8 crates of size 18"x15"x 6"
b)	For 10 crates of size 18"x15"x 6"
c)	For 12 crates of size 18"x15"x 6"

**OPTIONAL:**

- i) Timer 0-24 hours.
- ii) Digital temp. Indicator-cum-Controller.
- ii) Crate of size 18" x 15" x 6"

Note: Please ask for other capacities of your requirement.



MGS-1021

**MGS-1021 OVEN VACUUM (Round)**

Double walled construction. Inner round chamber made out of stainless steel, exterior made out of mild steel duly finished in white stoving enamel/powder coated paint with mat finished colour combinations. Temperature range 50° C to 130° C ±3° C. The body capable of withstanding vacuum of 760 mm hg. Workable on 220 V AC 50Hz single phase. Supplied without Vacuum pump.

	<b>Chambers size in mm Dia x Depth</b>	<b>Capacity. (Approx.)</b>
a)	250 x 250	12 ltrs.
b)	300 x 300	17 ltrs.
c)	300 x 500	40 ltrs.

**MGS-1022 OVEN VACUUM (Rectangular)**

Double walled construction. Inner round chamber made out of stainless steel, exterior made out of mild steel duly finished in white stoving enamel/powder coated paint with mat finished colour combinations. Temperature range 50° C to 130° C ±3° C. The body capable of withstanding vacuum of 760 mm hg. Workable on 220 V AC 50Hz single phase. Supplied without Vacuum pump.

	<b>Chambers size in mm Dia x Depth</b>	<b>Capacity. (Approx.)</b>
a)	250 x 250 x 250	19 ltrs.
b)	300 x 300 x 300	28 ltrs.
c)	455 x 455 x 455	95 ltrs.



MGS-1022



**OPTIONAL:**

- i) Timer 0-24 hours.
- ii) Imported Thermostat "EGO" / "JUMO" German, Accuracy of  $\pm 0.1^\circ\text{C}$ .
- iii) Digital temp. Indicator-cum-Controller.
- iv) Microprocessor PID digital temp. Indicator-cum-controller.

**MGS-1023 SEROLOGICAL WATER BATH (Thermostatic Water Bath)**

Temperature range from ambient temperature to  $80^\circ\text{C}$ . Thermostatic control with accuracy of  $\pm 0.5^\circ\text{C}$  to  $1^\circ\text{C}$ . Double walled, inside stainless steel and outside mild steel painted in epoxy powder coating. Bath consists of two pilot lamps. Temperature control knob and on/off switch. To work on 220/230 volts A.C. Supplied with or without stirring arrangement, without racks and thermometer. Lid of water bath is made of stainless steel sheet.

	Size inside chamber (Stainless steel)	Capacity (Approx.)
a)	300 x 175 x 175 mm (suitable for 1 racks)	12 ltrs.
b)	300 x 250 x 175 mm (suitable for 2 racks)	14 ltrs.
c)	375 x 300 x 175 mm (suitable for 4 racks)	18 ltrs.
d)	455 x 300 x 175 mm (suitable for 6 racks)	25 ltrs.
e)	605 x 300 x 175 mm (suitable for 8 racks)	32 ltrs.

**OPTIONAL:**

- i) L-shaped thermometer (fitted with water bath).
- ii) Imported Thermostat "EGO" / "JUMO" German with an accuracy of  $\pm 0.5^\circ\text{C}$ .
- iii) Digital temp. indicator-cum-Controller.
- iv) Microprocessor PID digital temp. Indicator-cum-controller.
- v) Stirrer with 1/20 H.P. high speed motor with stainless steel stirring rod and blade.

**MGS-1024 WATER BATH WITH PUMP For Abbe & B.R. Reflectometer****MGS-1025 WATER BATH PRECISION (Constant Temp. Control)**

Construction is as per MGS-1024. But with glass windows on both opposite sides for observation. Temperature controlled by mercury contact thermometer with a sensitivity of  $\pm 1^\circ\text{C}$ . Suitable for precision laboratory activities requiring constant temperature with high degree of accuracy. Complete with stirrer, workable on 220V AC 50 Hz single phase.

**Chamber Size in mm & Inches**

a)	425 x 250 x 225 mm	(17" x 10" x 9")
b)	450 x 375 x 375 mm	(18" x 15" x 15")
c)	600 x 450 x 450 mm	(24" x 18" x 18")

**OPTIONAL:**

- i) Microprocessor PID digital temp. Indicator-cum-controller.

**MGS-1026 WATER BATH RECTANGULAR (Single wall)**

Made of stainless steel sheet. Top of the bath and concentric rings are of stainless steel. Heating elements have an automatic cut off device when the bath gets dry. Electrically operated on 220/230 volts A.C.

	Size Inside (Stainless steel) L x W x H	Capacity (Approx.)
a)	300x250x100 mm (6holes of 75 mm dia)	8 ltrs.
b)	355x405x100 mm (12 holes of 75mm dia)	15 ltrs.

**MGS-1027 WATER BATH RECTANGULAR (Double wall) (Thermostatic Control)**

Temperature range from ambient temperature to  $95^\circ\text{C}$ . Thermostatic control with an accuracy of  $\pm 1^\circ\text{C}$ . Double walled, inside stainless steel and outside mild steel sheet painted in epoxy powder coating. Top of the bath and concentric rings of stainless steel. To work on 220/230 volts A.C.

	Size inside (Stainless Steel) LxWxH	Capacity (Approx.)
a)	300x250x100mm 6 holes of 75 mm dia.	8 ltrs.
b)	355x405x100mm 12 holes of 75 mm dia.	15 ltrs.

**OPTIONAL:**

- i) Imported Thermostat "EGO" / "JUMO" German with the accuracy of  $\pm 0.5^\circ\text{C}$ .
- ii) Digital temp. indicator-cum-Controller.

**MGS-1023****MGS-1025****MGS-1026****MGS-1027**



**MGS-1030**

**MGS-1028 UNIVERSAL WATER BATH (Dual Purpose)**

Useful for dual purpose. It is a combination of serological and routine rectangular water bath with holes and concentric rings. Standard double wall construction. Inner chamber made out of highly polished stainless steel sheet and exterior made out of thick mild steel duly finished in stoving enamel/power coated paint. Immersion heaters are provided for heating to attain temp. range from 5° C above ambient to 95° C ±1° C. The equipment to work on 220v AC 50 Hz single phase.

Chamber size in mm & inches	L x W x H	Capacity (Approx.)
a) 300 x 225 x 175 mm	(12" x 9" x 7")	14 ltrs.
b) 450 x 300 x 175 mm	(18" x 12" x 7")	25 ltrs.

**OPTIONAL:**

- i) Stirring arrangement with Stainless Steel rod & blades.
- ii) Imported Thermostat "EGO"/"JUMO" German with the accuracy of ± 0.5°C.
- iii) Digital temp. Indicator-cum-controller.
- iv) Microprocessor PID digital temp. Indicator-cum-controller

**MGS-1029 ULTRASONIC BATH (Dual Purpose)**

a) 9"x5"x2½"	1.6 ltrs.	b) 12"x6"x4"	3.6 ltrs
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**MGS-1032**

**MGS-1030 WATER BATH TISSUE FLOTATION**

Double wall round construction. Inner chamber Stainless Steel/black anodized aluminium and outer made out of mild steel painted in epoxy powder coating. Thermostatic control. Temp. range 5° C above ambient to 80° C ± 1° C. Complete with indicators, wire & plug. To work on 220 V. A.C. without Thermometer.

DIA x DEPTH	
a) 200 mm x 75mm	b) 250 mm x 125mm

**MGS-1031 WATER BATH PARAFFIN**

Body specification as per MGS-1027 with Standard double walled water bath but provided with cups & sleeves for glass tubes.

- a) 4 cups & 6 sleeves
- b) 6 cups & 8 sleeves
- c) 12 cups & 14 sleeves

**MGS-1032 PARAFFIN WAX DISPENSER**

It is double walled unit with both inner and outer made of stainless steel. The gap between the two walls is filled with high- grade glass wool to avoid thermal loss. Temperature from ambient to 70° C is controlled by hydraulic type "EGO"/"JUMO" GERMAN thermostat. Tap system is provided for the outlet of molten paraffin wax.

a) Cap. 2.0 ltrs	b) Cap. 4.0 ltrs.
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**MGS-1033 OIL BATH (High temperature)**

Double wall construction. Inner chamber made of highly polished stainless steel sheet and the outer is made of mild steel duly finished in white stoving enamel/powder coated paint with mat finished colour combinations. Temperature range 50° C to 250° C ± 2° C is controlled by a thermostat. Supplied complete with stirrer, diffuser shelves, cover etc.



**MGS-1033**

Chamber size in mm & inches Approx.	L x W x H
a) 250 x 250 x 250 mm	(10" x 10" x 10")
b) 300 x 300 x 250 mm	(12" x 12" x 10")
c) 350 x 350 x 250 mm	(14" x 14" x 10")

**OPTIONAL:**

- i) Digital temp. Indicator-cum-controller.
- ii) Microprocessor PID digital temp. Indicator-cum-controller.



**MGS-1034 CONSTANT TEMPERATURE REFRIGERATION-LIQUID BATH (Cooling Bath)**

Standard double wall construction. Inner chamber made out of thick, highly polished stainless steel sheet. Temperature range 5° C to 90° C and controlled by a sensitive Mercury contact thermometer with accuracy of ± 1° C. Fitted with a stirrer, and FHP pump for circulating the cold liquid to the external equipment.

**Chamber size:**  
500x250x250 mm

**Capacity (Approx.)**  
32 ltrs.

**OPTIONAL:**

- i) Microprocessor PID digital temp. Indicator-cum-controller

**MGS-1035 REFRIGERATED LIQUID BATH**

Standard Construction, inner Chamber made out of stainless steel sheet with digital temp. controller-cum-indicator. Temperature can be controlled from range minus (-) 20° C to plus (+) 20° C.

**Chamber size:**  
450 x 300 x 300 mm

**Capacity (Approx.)**  
42 ltrs.

**OPTIONAL:**

- i) Microprocessor PID digital temp. Indicator-cum-controller.

**MGS-1036 WATER BATH INCUBATOR SHAKER (Metabolic Shaking Incubator)**

Temperature range from room temperature to 95° C. Thermostatic control with an accuracy of ±1° C. Double walled, inside made of stainless steel and outside mild steel sheet, painted in epoxy powder coating. Oscillating tray is riding on ball rollers. Shaking speed range 40 to 140 r.p.m. Shaking tray can hold either test tubes or flask of 25ml, 50ml, 100ml. To work on 220/230 volts A.C. without R.P.M. Indicator.

**Shaking Tray Size(Stainless steel)**

**Capacity (Approx.)**

- a) 275x275x150 mm
- b) 405x300x150 mm

- 12 ltrs.
- 18 ltrs.

**OPTIONAL:**

- i) L-shaped thermometer (fitted with water bath).
- ii) Imported Thermostat "EGO" / "JUMO" German with the accuracy of ± 0.5°C.
- iii) Digital temp. indicator-cum-Controller.
- iv) Microprocessor PID digital temp. indicator-cum-controller.
- vi) Shaking tray for 25ml, 50ml, 100ml, 250ml, 500ml, 25mm dia. Test Tubes or conical flasks.

**MGS-1037 WATER STILL (Manasty type) Aluminium**

Wall hanging casted aluminium vessel is electrically operated for getting pyrogen-free distilled water automatically. Wall hanging arrangement is provided. The condenser is seamless. Fitted with automatic ejection device which operates automatically when water vessel gets dried. The baffle cup and condenser are made out of thick stainless steel sheet.

**Output Capacity (Approx.)**

- a) Output approx. 2 litres per hour.
- b) Output approx. 3/4 litres per hour.
- c) Output approx. 5/6 litres per hour.

**MGS-1038 WATER STILL: (Manasty type) Stainless steel**

Wall hanging with Specifications as Model MGS-1037 but made of stainless steel sheet.

**Output Capacity (Approx.)**

- a) Output approx 2/3 litres per hour.
- b) Output approx 3/4 litres per hour.
- c) Output approx 5/6 litres per hour.



MGS-1034



MGS-1036



MGS-1038



**MGS-1039**

**MGS-1039 DISTILLATION APPARATUS ALL GLASS (Electrically Heated)**

The assembly consists of a corning glass flask with embedded heating elements fused in spiral with types glass coil internally at bottom. A double wall coiled condenser has standard ground glass joints. Complete with glass fitting, metallic stand, rights clamps and electrical fittings. The unit supplied is as per NPL patent design. To work on 220/230 volts A.C. supply.

As per NPL Pattern

Flask Capacity :Single Stage, Double Stage, Triple Stage

- a) 3 ltr.
- b) 5 ltr.

**Optional :**

- i) Thermal Sensor Cut off device : for single unit
- ii) ---- do ---- : for double unit
- iii) ---- do ---- : for triple unit
- iv) Special grade rubber tubing (coil of 10 meter)



**MGS-1040**

**MGS-1040 GLASS BEAD STERILIZER**

An alternative to traditional methods of sterilizing, once switched 'ON' the units are ready to use within 30 minutes and ensure total destruction of all micro-organism within seconds. Preset temp. of 230° C-250° C, incorporated with a thermostat with an accuracy of ± 1°C of the preset range. These are compact enough to be placed on any Laminar Air Flow Bench or any other work side tables in a clean room. To work on 220 volts A.C.

- a) Crucible size: 2" Dia x 2" Depth
- b) Crucible size: 2" Dia x 6" Depth



**MGS-1041**

**MGS-1041 TUBE HEATING BLOCK (DRYBATH)**

This Block is comprised of an outer case with heater and thermostat, fitted with aluminium blocks drilled to accept test tubes of 25mm dia. Temperature control by means of thermostat. Outside painted in epoxy powder coating. Outer case is insulated and ventilated. Temperature range 90°C. to 300° C. The chamber has 40 holes to accept 25mm dia. test tubes.

**OPTIONAL:**

- i) Digital Temp controller-cum-indicator.
- ii) The above chamber with 40 holes to accept 13 and 19mm test tubes.

**MGS-1042 MELTING POINT APPARATUS**

For determination of melting points up to 350° C. The mounted block is illuminated from below by a lamp fixed in its housing. The aluminium block accepts three capillary tubes and mercury thermometer. The temperature is regulated by energy regulator fitted to the unit. The lamp provides uniform and shadow less light, regulator fitted to the unit. Supplied without capillary tubes and thermometer.



**MGS-1042**

**MGS-1043 HEATING MANTLE**

It withstands high temperature up to 350° C. The body of the mantle is spun in one piece from non-rusting Aluminum (up to 5.0 litres capacity) duly finished in white stoving enamel/powder coated paint with mat finished colour combinations. All heating mantles are lagged with special grade mineral wool. Works on 220/230 Volts A.C.

	<b>Capacity</b>	<b>Wattage</b>
a)	50 ml	60
b)	100 ml	60
c)	250 ml	150
d)	500 ml	200
e)	1 liter	300
f)	2 ltrs.	450
g)	3 ltrs.	450
h)	5 ltrs.	600
i)	10 ltrs.	2x500





**MGS-1044 RECTANGULAR MUFFLE FURNACE (Laboratory model)**

Outer shell made out of thick mild steel duly finished in attractive stoving enamel/powder coated paint. Fitted with grooved refractory for supporting the heating elements made out of kanthal wire and are easily replaceable. Maximum temp. 1000°C and working temp. 900° C controlled by SUNVIC energy regulator. Complete with indicators, pyrometer, thermocouple, thermal fuse etc. workable on 220 V AC 50 Hz single phase.

**Inner Muffle size in mm & inches**

- a) 225 x 100x100 (9"x4"x4")
- b) 250 x 125x125 (10"x5"x5")
- c) 300 x 150x150 (12"x6"x6")
- d) 300 x 200x200 (12"x8"x8")
- e) 350 x 175x125 (14"x7"x5")
- f) 450 x 225x225 (18"x9"x9")

**OPTIONAL:** (Instead of energy regulator and pyrometer.)

- i) Digital temp. indicator-cum-controller
- ii) Microprocessor PID digital temp. Indicator-cum-controller instead of Energy regulator, pyrometer.

**MGS-1045 HIGH TEMPERATURE FURNACE 1200° C. (INDUSTRIAL)**

The furnace is insulated with ceramic fibre blanket of high density for better insulation. The furnace can run continuously at 1150° C, trouble free. The furnace is quick heating type, light in weight, table mounting type, compact, elegant in design. Outer painted in epoxy powder coating. The hinged type swing door insulated with ceramic fibre to avoid heat losses from the door. The furnace is fitted with digital temperature controller-cum-indicator to avoid over heating for long life and trouble free working. The panel is fitted at the top of the furnace.

**MUFFLE SIZE in mm & inches**

- a) 225 x 100 x 100 mm (9" x 4" x 4")
- b) 250 x 125 x 125 mm (10" x 5" x 5")
- c) 300 x 150 x 150 mm (12" x 6" x 6")
- d) 300 x 200 x 200 mm (12" x 8" x 8")
- e) 450 x 225 x 225 mm (18" x 9" x 9")

**OPTIONAL:** Microprocessor PID digital temp. Indicator-cum-controller.

**MGS-1046 HOT PLATE**

Body is fabricated out of thick mild steel sheet duly finished in white stoving enamel/powder coated paint with mat finished colour combinations. The hot plate made of cast iron or top is made of highly polished stainless steel sheet precisely machined & smoothed duly finished in heat resistant black paint is firmly mounted on the body. Heavy duty heating elements are securely layed under the plate to operate on 220V AC 50Hz single phase. Temp. is controlled by a three-heat rotary switch / energy regulator as per demand.

- A) HOT PLATE : (ROUND) SINGLE**  
20 cm (8") dia. moulded top with SS Sheet top
- B) HOT PLATE : (ROUND) DOUBLE**  
two plates of 20 cm (8") dia. with SS Sheet top
- C) HOT PLATE (Rectangular)**  
Following standard sizes are available :
 

a) 30 x 25 cm (12" x 10")	4000.00	with SS Sheet top
b) 40 x 25 cm (16" x 10")	4800.00	with SS Sheet top
c) 45 x 30 cm (18" x 12")	5600.00	with SS Sheet top
d) 60 x 45 cm (24" x 18")	8200.00	with SS Sheet top

**OPTIONAL:**

- i) Sunvic energy regulator can be provided against routine energy regulator. P. O. R.
- ii) Digital temp. indicator-cum-controller.

**MGS-1047 SLIDE WARMING TABLE**

Temperature range ambient temp. to 70° C i.e. below the melting point of wax. The temperature is thermostatically controlled. The body is made out of thick mild steel duly finished in white stoving enamel/powder coated paint with mat finished colour combinations and top is made of highly polished aluminium sheet. To work on 220V AC 50 Hz single phase.



**MGS-1044**



**MGS-1046A**



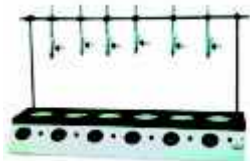
**MGS-1046A**



**MGS-1046C**



**MGS-1047**



MGS-1048



MGS-1049A



MGS-1049B



MGS-1049C

**(Length x Width)**

- a) 30 x 25 cm (12" x 10")
- b) 40 x 25 cm (16" x 10")
- c) 45 x 30 cm (18" x 12")
- d) 60 x 15 cm (24" x 6")

**MGS-1048 SOXHLET EXTRACTION UNITS (Mantel type) All following units are without glass part**

Standard mild steel body and upright fittings. Body finished in stove heating paint and other parts are duly chrome plated. Housing provided with heating mantels for surface temp. up to 300 °C. Provided with a common energy regulator to control all units, individual on-off switches & pilot lamps. To work on 220V AC.

**SOXHLET EXTRACTION UNITS (Mantel type)**

- a) The unit of 3 mantels rating 500 watts.
- b) The unit of 6 mantels rating 750 watts.
- A) SOXHLET EXTRACTION UNIT: (Heater type)**
  - 1) A unit of 3 heaters.
  - 2) A unit of 6 heaters.
- B) SOXHLET EXTRACTION UNITS: (Hot plate type)**
  - 1) A unit of 3 hot plates.
  - 2) A unit of 6 hot plates.
- C) SOXHLET EXTRACTION UNITS: (Bath type)**
  - Double wall - inner chamber made of stainless steel
  - a) A unit of 3 baths.
  - b) A unit of 6 baths.

**OPTIONAL:** Sunvic energy regulator can be provided with all above units.  
Note: All above units are without glass parts.

**MGS-1049 KJELDHAL UNITS : All following units are without glass part.**

Made out of mild steel duly finished in white stoving enamel/powder coated paint with mat finished colour combinations other metallic parts are chrome plated.

**A) KJELDHAL DIGESTION UNITS:**

Useful for estimation of nitrogen contents in substance by digestion in 300 & 500 ml flasks. Provided with fume duct (optional) made of lead and pair of hangers. Workable on 220V AC 50Hz single phase. Individual on-off switches and one energy controller for all units is provided.

- 1) Unit of 3 tests (Heater type)
- 2) Unit of 6 tests (Heater type)
- 3) Unit of 3 tests (Mantel type)
- 4) Unit of 6 tests (Mantel type)

**B) KJELDHAL DISTILLATION UNITS:**

Asbestos tops mounted on mild steel tubular stand. Provided with condenser clamps and water manifold. Other specification as above.

- a) Unit of 3 tests (Heater type)
- b) Unit of 6 tests (Heater type)
- c) Unit of 3 tests (Mantel type)
- d) Unit of 6 tests (Mantel type)

**C) KJELDHAL DISTILLATION & DIGESTION UNITS: (Combined)**

One single mild steel tubular stand is provided with two heating shelves, one above other. A fume duct holder and a heating box are supplied for digestion unit. The heating unit has individual on-off switches. In the upper portion another heating unit with a condenser rack is provided. The unit is workable on 220v AC 50 Hz single phase.

- a) Unit of 3 tests (Heater type)
- b) Unit of 6 tests (Heater type)
- c) Unit of 3 tests (Mantel type)
- d) Unit of 6 tests (Mantel type)

**OPTIONAL:** i) Fume duct of lead or Borosilicate glass for 3 tests  
for 6 tests

ii) Sunvic energy regulator.



**MGS-1050 AEROSOL DISINFECTOR (S.S. BODY) CAP. 3 LTR**

It instantly converts liquid formalin disinfecting liquid, into the true aerosol particles. Due to high aerodynamic stability the formalin droplets remain suspended for longer duration and thus ensure 100% sterile germ free and zero bacteria environment. A single unit can sterilize 250cu. meters. (9000 cu.ft) in just 30-60 mint. To work on 330 / 230 Volt A.C

**OPTIONAL ACCESSORIES :**

- i) Automatic GERMAN timer 0-120 mint. & Control Module

**MGS-1051 HUMIDIFIER (S.S. Body) Capacity .5 Ltr**

Humidifier is basically an Atomizing Humidifier of splash plate rotating disc type. Designed to give relative humidity as high as upto 95% RH in enclosed areas. Humidifier is a portable unit body made of Aluminium/Stainless steel. Capable of atomizing up to three liters of water in an hour at full evaporation in the driest possible ambient conditions. Provided with automatic float valve assembly to work on 220V AC. Capacity: 5 Liters

**OPTIONAL :** Control box with Humidistat for controlling humidity.

**MGS-1052 DE-HUMIDIFIER**

(Fitted with time controlled safety device in, case humidity controller fails, for safety of the compressor) These are water condensing type, based on "Refrigeration Cycle" to avoid use of expensive chemicals required for desiccant type models. The unit is self standing and is mounted on a study angle iron frame. Fitted with castor wheels. It removes excess moisture from the atmosphere and is fitted with hermetically sealed compressor. Heat exchanger and water condensing coils are made of copper. Water collection tank is provided below the unit to collect condensate water. Humidity is controlled by HUMIDITY CONTROLLER incorporated in the unit, up to 30% ± 3% RH, depending upon the ambient conditions. To achieve very low humidity, the room should have a independent window type Air conditioner to much with the dehumidifier heat load in the room. Suitable to work on 220/230 volts A.C. supply. Capacity: 1.5 Tons

**MGS-1053 DE-HUMIDIFIER**

Specification as per MGS- 1052 but fitted with DIGITAL HUMIDITY INDICATOR-CUM -CONTROLLER in lieu of analog controller.

**OPTIONAL :** Automatic Voltage stabilizer 4.0 KVA. (Recommended)

**MGS-1054 HUMIDITY CABINET**

Temperature range ambient temperature to 60° C. Temperature controlled by a hydraulic thermostat with an accuracy of ±1° C with built-in horizontal 'L' shape thermometer. The humidity is controlled by Humidistat from atmospheric humidity to 95% with a sensitivity of ±3%. Double walled inside anodized Aluminium/Stainless steel and outside Mild steel painted in epoxy powder coating. The door has glass window. To work on 220/230 volts A.C. Inside water tank is made of stainless steel.

	Size Inside Chamber			Capacity (Approx.)
	W	D	H	
a)	455 x	455 x	455 mm	95 ltrs.
b)	455 x	455 x	710 mm	147 ltrs.
c)	605 x	605 x	605 mm	225 ltrs.
d)	605 x	605 x	910 mm	335 ltrs.

**OPTIONAL :**

- i) Hygrometer (Humidity indicator).
- ii) Digital Temp. controller-cum-indicator.
- iii) Digital Humidity Controller with 100% sensor
- iv) Microprocessor PID digital temp. Indicator-cum-controller.
- v) Automatic electronic controller with digital display for Temp. & Humidity combined.
- vi) Automatic voltage stabilizer 3 KVA (recommended)

**MGS-1055 ENVIRONMENTAL CHAMBER HUMIDITY CABINET (Temperature Control/ 'Digital')**

General specification as MGS-1054 but with added specification for low temp. Control & humidity. The



MGS-1050



MGS-1051



MGS-1053



MGS-1054



inner working chamber is made out of stainless steel. The temperature can be controlled from 10° C to 60° C ± 2° C and humidity from 55% to 95% ± 5% RH Temperature below ambient is controlled by hermetically sealed compressor complete with accessories provided below the unit. Two stainless steel water reservoirs heated by immersion heaters are provided to create humidity. Complete with all accessories. Control panel provided with control switches and indicators. Chambers size in mm.

	W	D	H	Capacity (Approx.)
a)	455	455	455	95 ltrs.
b)	455	455	710	147 ltrs.
c)	605	605	605	225 ltrs.
d)	605	605	910	335 ltrs.

**OPTIONAL:**

- i) Hygrometer (Humidity indicator).
- ii) Microprocessor PID digital temp. Indicator-cum-controller.
- iii) Automatic electronic controller with digital display for Temperature & Humidity combined.
- iv) Automatic voltage stabilizer 3 KVA (recommended).



**MGS-1055**

**MGS-1056 MORTUARY CHAMBER**

Used for storing cadaverous under low temperature cool conditions in order to prevent decomposition. These units are double walled with outer made of M.S. sheet duly painted and inner wall of stainless steel. Front opening covered door with magnetic gasket lock & key and handle individual chambers are provided independent lock with duplicate keys. Trays made of G.I. sheet to carry dead bodies are provided with handles. Trays travel on rollers fitted with ball bearings for easy movement. Hermetically sealed compressor serves refrigeration unit, to maintain temperature range of 2° C to 5° C or (-) 15° C to (-) 20° C (as ordered) Unit is fitted with Digital Temperature Indicator-cum-controller. Works on 220/230 volts A.C. Supply.

	Capacity	Temp.	Voltage Stabilizer
a)	Single Body	2° to 5° C	3 KVA
b)	Two Bodies	2° to 5° C	4 KVA
c)	Three Bodies	2° to 5° C	5 KVA
d)	Four Bodies	2° to 5° C	8 KVA
e)	Six Bodies	2° to 5° C	8 KVA



**MGS-1056**

**MGS-1057 BLOOD BANK REFRIGERATOR**

Blood Bank chamber is a most versatile unit for Blood Bank mounted on a sturdy angle frame. The inner chamber is made up of stainless steel sheet and outer of mild steel sheet duly powder coated paint. Caster wheels provided for easily mobility. The temperature is maintained in 4° C to 6° C with forced air circulation ensures uniform temperature, for storing blood bottles or blood bags. Temperature is controlled by Microprocessor PID digital temperature controlled-cum-indicator and triggers the AUDIO VISUAL ALARM in the event of fluctuation exceeding permitted tolerance. Unit is also fitted with DOOR OPERATED ALARM and POWER SUPPLY FAILURE ALARM, as a safety devices.

A highly efficient refrigeration system consists of hermetically sealed compressor, for high performance cooling coil runs all around the cabinet to maintain uniformity of temperature.

The entire refrigeration unit is housed at bottom. Two doors are provided. Inner door is of transparent acrylic sheet for easy viewing inside the chamber. Outer door is duly insulated for proper sealing from external environment and is lockable. Drawers are provided for holding bags. Suitable to works on 220/230 volts A.C.

Available in following capacities :-

- a) 85 litres (50 blood Bags)
- b) 165 litres (110 blood Bags)
- c) 200 litres (200 blood Bags)
- d) 280 litres (250 blood Bags)
- e) 400 litres (360 blood Bags)



**MGS-1057**

**OPTIONAL:**

- i) Chart type temperature recorder.
- ii) Voltage Stabilizer 3KVA (Recommended)
- iii) Voltage Stabilizer 5KVA (Recommended)





**MGS-1058 VACCINE STORAGE CABINET**

Vaccine storage cabinet, the most versatile unit for vaccine storage. Inner chamber made of stainless steel external mild steel sheet body of rigid steel frame. Insulated thoroughly provided with face fitting doors, complete with self- closing hinges lockable fasteners. Cabinet is fully sealed to avoid spilling and contamination from external environment. Temp. ranges from 4° C to 6° C. Available in various sizes for keeping vaccines bottles. Drawers with clear Perspex fronts and index card holders. Temp. controlled and displayed by Microprocessor PID digital temperature controlled-cum-indicator. Audio visual alarms are triggered, in the event of fluctuations exceeding permitted tolerance level. Suitable to work on 220 V, single phase, 50 Hz, AC supply.

Available in following size :-

- a) 450x400x850 mm.
- b) 600x675x850 mm.

**OPTIONAL:**

- i) Chart type temperature recorder.
- ii) Voltage Stabilizer 3KVA (Recommended)
- iii) Voltage Stabilizer 5KVA (Recommended)

**MGS-1059 DEEP FREEZER (Horizontal & Vertical)**

Double walled with inner chamber made of S.S and outer of thick PCRC sheet duly enamel painted. Temperature range from ambient to -20°C is achieved by hermetically sealed compressor. Body is mounted on a sturdy angle iron frame and is mounted on castor wheels. Unit is fitted with solid State Digital Temperature Indicator-Cum-Controller. Horizontal Chest type models are supplied in a single compartment where as vertical models are supplied with three stainless steel storing shelves.

	Cap.	Chamber Size
1.	4 cuft.	375 x 500 x 605mm
2.	6 cuft.	505 x 410 x 830mm
3.	10 cuft.	570 x 550 x 875mm
4.	12 cuft.	650 x 580 x 900mm

**OPTIONAL:**

- i) Chart type temperature recorder.
- ii) Voltage Stabilizer 3KVA (Recommended)
- iii) Voltage Stabilizer 5KVA (Recommended)

**MGS-1060 FROZEN SEMEN STORAGE CABINET**

Double walled with inner chamber made of S.S-304 and outer of thick PCRC sheet duly enamel painted. Temperature range fixed at 3°C or 4°C is achieved by hermetically sealed compressor. The inner chamber is provided with a fluorescent tube (40 watts) for wasy and clear inside view. The inner chamber shelves for handling the frozen samples is also made of stainless steel. Body is mounted on a sturdy angle iron frame and is mounted on castor wheels. Unit is fitted with solid state Digital Temp. indicator-cum-controller.

Chamber Size : 1250(W)x200(at top)(D)x660mm(H)

**OPTIONAL:**

- i) Chart type temperature recorder.
- ii) Built U.V. Germicidal light.
- iii) Voltage Stablizer 3KVA(recommended)

**MGS-1061 PLASMA FREEZER**

For uniform and safe storage of plasma and related blood components at uniform preset temp. range - 30°C. All vertical models of plasma freezers are fitted with 7 days circular chart recorder fitted Digital Temp. indicator - cum - controller supplied with three stainless steel storing shelves. To work on 220/230 volts.

- a) Cap. to accommodate approx. 130 plasma bags
- b) Cap. to accommodate approx. 240 plasma bags



**MGS-1058**



**MGS-1059**



**MGS-1061**



MGS-1062

**MGS-1062 LYOPHILIZER (FREEZE DRYER)**

These are the most modern Lyophilizer/ Freeze, which is available in various capacities. Our bench top models have been developed to meet the most demanding requirement for a research freeze dryer.

- a) Capacity 3.25 ltr. approx.
- b) Capacity 5.25 ltr. approx.

**MGS-1063 TISSUE PROCESSING UNIT (SINGLE UNIT)**

Compact model, suitable for use in small Laboratories. Supplied with One S.S. Basket Rotor, One S.S. Tissue Basket, One S.S. Wax Bath, 24 Nos. S.S. Tissue Capsules, 6 Nos. S-type Dividers. Suitable to work on 220 V, single phase, 50 Hz, Ac supply.

**MGS-1064 AUTOMATIC TISSUE PROCESSING UNIT (LATEST MODEL)**

The latest model incorporates an automatic safety device and locking System. The safety device prevents the transfer of tissue from 10th stage to 11 th stage or from 11th to 12th stage, in case the Wax has not been melted properly due to power failure or any malfunctioning, thus protecting the unit and the tissues. The auto locking system checks the transfer of tissues from 12th to 1st stage to safeguard against the accidental reprocessing of the same and locks the machine. This lock can be undone by pressing of a push switch to prepare the unit for fresh use.

Supplied complete with One S.S. Basket Rotor, One S.S. Tissue Basket, 24 Nos. S.S. Tissue. Capsules, 10 Nos. Glass Beakers of 1 lt. capacity each, 11 Nos. Beaker Covers, 2 Nos. S.S. Wax Baths, 5 Nos. 24 hrs. calibrated Timing Discs and One notch plier to program metallic timing discs. Suitable to work on 220 V, single phase, 50 Hz, AC supply. Capacity: 1 Litre.

**MGS-1065 AUTOMATIC TISSUE PROCESSING UNIT**

This model is specially designed and immaculately combines aesthetic appeal with functional utility. Most effective feature of the machine is that only Basket Rotor long with the single bakelite beakercover lifts up to change the position on to the next stage of the processing cycle. All the other beakers remain covered during each change of stage, thus keeping the loss of alcohol/reagents to a minimal level due to evaporation.

**Technical Data :** It progresses from its natural stage, through dehydration stages to its final embedding in wax, with 12 processing stages. Quite elaborate methods can easily be employed for baths. Programming the machine is very simple by cutting notches at desired timing intervals on the disc calibrated for 24 hrs. If used with single load head, 36 tissues can be processed for unequal immersion time and with double load head 72 tissues can be processed using the equal immersion time. The delay timer for 24 hours is also provided for weekend and routine delay starting.

Both the baskets keep rotating to ensure better penetration. All the beakers remain covered throughout the process. On completion of the cycle the unit automatically gets locked up to prevent double processing and the tissues remain embedded in the wax bath, until removed.

**Safety Device :**

The built-in safety device protects the tissues by not allowing them to shift from 10th to 11th or 11th to 12th stage in case the wax is not melted. It precludes any accident due to power failure or manufacturing of the wax baths.

The equipment is supplied complete with 2 Nos. S.S, Basket Rotors, 2 Nos. S.S. Baskets, 24 Nos. S.S. Tissue capsules, 10 Nos. Borosil Glass Beakers without lip, 2 Nos. S.S. Wax Baths, 5 Nos. 24 hrs. calibrated metallic timing disc, One notch cutting plier. Considering the requirement of different individual users, the Model is available in different Capacities. Beaker/Wax Bath Capacity: 1 litre, 2 liters Suitable to work on 220V, Single Phase 50 Hz, AC supply. Capacity: 1 litre, 2 liters

**Spare Accessories for :**

- i) Automatic wax bath special type
- ii) Basket Rotor which rotates the tissue basket slowly
- iii) Tissue capsule basket S.S. even perforation
- iv) Tissue capsule S.S. 28x28x9 mm with sliding cover
- v) Tissue capsule S.S. 20x20x10 mm with sliding cover
- vi) Tissue capsule S.S. circular, 36mm dia with auto press lid
- vii) Divider for Tissue capsule 's' shape
- viii) Divider for Tissue capsule 'v' shape
- ix) Beaker without lip
- x) Timing Disc calibrated for 24 hours



MGS-1064



MGS-1065

**MGS-1066 MICRO PROCESSOR BASED AUTOMATIC TISSUE PROCESSOR**

Under the guidance of eminent pathologists our R & D Division has developed yet another unique model of Tissue Processor having complete Programmer logic Controller for complete cycle. Timing & stage sequence, Wax bath temperature safety system etc. are all controlled/operated by feather touch key board with Digital Display. The entire unit looks very attractive with aesthetic appeal. The data is retained in case of power failure. Front panel comprises of the key board, digital display, control switch. The PID temperature controller have been used for controlling the wax bath temperature.

**Technical Data :** The 12 stage timing sequence may be programmed for each stage for duration between 1 minute to 9 hrs. 59 minute, in steps of 1 minute.

**Delay Time:** Delay time can be programmed up to hours and Will be sequenced with main control.

**Wax Bath Safety Control :** Wax Bath PID temperature controller gives signal if temperature is not between 500 to 650C. Safety System will function at 10th, 11 th & 12th position and will stop the main unit in stage 9 onward till the set temperature is attained in the wax bath.

**Basket Rotor:** Slowly rotating 2 basket rotors are also operated through the microprocessor, The unit is supplied complete with 2 Nos. S.S. Basket Rotors, 2 Nos. S.S. Baskets, 24 Nos. S , S. Tissue Capsules, 10 Nos. S.S. beakers without lip, 2 Nos. S.S. Wax Baths (Special designed for use with PID temperature controller). Suitable to work on 220 V, single phase, 50 Hz, AC supply. **Cap. 1 litre, 2 liters**

**Spare Accessories :**

Automatic Wax Bath specially designed for PID control with sensor. It signal's the machine in stage 9, prior to immersion in Wax and if wax is melted it automatically takes change from stage 9 to 10 and so on, but if wax is not melted due to some reasons, then machine signals "Wax not melted or temperature is not proper". When wax is melted/wax temperature is attained then only the tissue basket is allowed to immerse or rotate in the wax bath. Thus 100% safety of precious tissue.

- ii) Basket Rotor which rotate the tissue basket slowly.
- iii) Tissue Capsule Basket is of S.S. with even perforation.
- iv) Tissue Capsule S.S. 28x28x9 mm with sliding cover.
- v) Tissue Capsule S.S. 20x20x10 mm with sliding cover.
- vi) Tissue capsule S.S. circular, 36mm dia'with Auto press lid.
- vii) Divider for Tissue Capsule 'S' shape.
- viii) Divider for Tissue Capsule 'V' shape.
- ix) Beaker without lip.

**MGS-1067 BONE DECALCIFIER (Latest Model Designed on International Pattern)**

Suitable for use in Histology for decalcification of the bone tissue by electrolytic action for easy and precise sectioning. Through the combination of heat & fluid agitation, this instrument provide a method of decalcifying bone in preparation for sectioning & cellular staining. Decalcification is completed for significantly reduced time as compared to manual process, to ensure good staining characteristics. Nitric or Hydrochloric acid of not more than 5% concentrated is generally used.

Basket movement is provided by an electric motor, which raises & lowers the basket and concurrently rotates it at slow speed for thorough solution action. A heating jacket vessel in the base of the support stand heats the solution. An electric sunvic energy regulator/control box is fitted on the stand for easy operation. Suitable complete with plug & cord, the units is suitable for operation at 220 V, single phase, 50 Hz, AC supply.

**MGS-1068 AUTOMATIC SLIDE STAINING MACHINE (12 SECTION)**

Manual Slide Staining procedure occupies considerable amount of technician's time. To accelerate the process. Slide Staining Machin6"was designed on modern principles for carrying out practically all Slide Staining techniques of Cytology & Histology.

Slide Staining Machine "12 Stations", is compact and rugged equipment designed on latest technology tot automatic staining of slides in different reagents according to pre programmed chronological user selectable cycles. Throughout the process the slides are shaken (Switch selectable) for effective staining in a slide carrier (Capacity 16 Slides). The last trough i.e. 12<sup>th</sup> Station is provided with an inlet and outlet to enable washing of the residual chemicals.

The unit is supplied complete with 11 Glass, Staining troughs, 1 trough with inlet and outlet, 1 slide carrier, 5 Timing Discs for chronological programming calibrated for 60 minute and 1 notch cutting plier. Suitable for work on 220 V, single phase, 50 Hz, Ac supply.

**MGS-1066****MGS-1068**



MGS-1069

**MGS-1069 AUTOMATIC SLIDE STAINING MACHINE (23 STATION)**

The most versatile machine capable of being used in different configuration, for Cytology, Histology & Hematology. Consist of two tiers. The upper tier having 11 Stations, plus a blank station, and the lower tier having 12 Stations. A simple operating system facilitates the machine to function in different configurations as below.

- i) Single unit with 23-staining station series grouping.
- ii) 2 Different units operating on two separate chronological cycles Independently, simultaneously.
- iii) 2 Different units operating on single chronological cycle parallel grouping.

A switch -selectable shaking mechanism continuously shakes the slides for thorough staining. The standard unit supplied complete with 23 staining troughs (2 nos. with inlet and outlet for running water), Timing discs for chronological programming 5 each for 30 minutes and 60 minutes duration 2 Slide carriers. 1 notch cutting plier for programming the discs. Suitable to work on 220 V, single phase, 50 Hz, AC supply.

Spare Accessories :

- i) Timing Disc Calibrated for ½ hour
- ii) Timing Disc Calibrated for 1 hour
- iii) Slide Carrier (for 16 slides)
- iv) Staining Trough
- v) Staining Trough with inlet & outlet



MGS-1071

**MGS-1070 FORCEPS HEATER**

Designed for heating forceps as well as for removal (melting)-of residual paraffin. The melted paraffin run into opening location at the bottom of machine in tray fitted to it, These unit are designed to heat 3 or 6 forceps simultaneously the temperature is variable and controlled upto 70°C.

Very easy to operate, after switching ON the desired temperature is achieved, insert forceps in the holes provided. Suitable to operate on 230 Volts 50 Hz.

- a) For 3 forceps
- b) For 6 forceps.



MGS-1072

**MGS-1071 ROTARY MICROTOME (Erma type)**

Simple but versatile rotary microtome for uniform sectioning up to 25 microns in step of 1 micron each. The mechanical system encased in a removable cover. Complete with razor (120mm) with back & handle, object holder set of three, honing plate and oil can. Packed in a box.

**MGS-1072 ROTARY SENIOR MICROTOME (A.O. Spencer 820 Types)**

Streamlined standard equipment incorporated with latest technology for cutting serial sections in research work. The precise feed mechanism cuts sections from 1-50 microns in steps of one micron. Feed Adjustments: 1-50 microns. Total feed excursion 28mm with opening of object clamps 37x27mm. Overall dimensions 16x10x9" Complete with razor-120mm with back & handle, honing plate, object holder set of three, oil can. Packed in a wooden box .

**MGS-1073 PRECISION ROTARY MICROTOME (Lipshaw type)**

Most elegant and sturdy, latest in the range of Microtomes. Complete with counter balancing wheel, automatic feed mechanism and feed release. Light aluminum cover hinged at back, protects the internal mechanism. Heavy casted base plate fitted with heavy rubber pads to provide better grip. Smooth operation for uniform serial sectioning adjustable from 1 to 50 microns in steps of 1 micron. Feed mechanism is independent of other movements. Supplied complete with one knife, having back and handle in wooden box, 6 block holders, honing plate with abrasive powder, one bottle of lubricating oil and Rexine cover.



MGS-1073

**MGS-1074 MICROTOME RAZOR SHARPENER AUTOMATIC (Spencer type)**

Automatic microtome razor sharpener with electric timer coupled with simple operation for razor upto 180mm on both the wedges. Working mechanism encased in aluminium cover and front portion covered with clear Acrylic canopy to observe safe and dust free honing. Complete with honing plate & dust cover.

**OPTIONAL:**

- i) Micro Coarse & Fine Abrasive (set of two bottles of 200 gm each)
- ii) Spare glass plate.
- iii) Spare knife holder.



MGS-1074





# M.G. SCIENTIFIC TRADERS MICROTOME ACCE./ SHARPENERS

## MGS-1075 AUTOMATIC MICROTOME KNIFE SHARPENER (Arthur Thomas type)

The unit is fitted with assembly for perfect cutting edge of the knife of any size up to 300mm. Automatic reversing of the knife takes place at regular intervals for equal bevel angle on both sides of its edge, and the sharpening process is across the full diameter of the rotating plate. The plate is rotated at a constant speed by ¼ H.P. motor. A lubricant reservoir with clamp needed for grinding and polishing is supported on the top. The ground glass plate is of size 500mm. (dia) x 12m.m. (thick). A metal scale graduated from 0 to 25 degree division indicates the exact angle between plate & razor with dust cover and cord and plug. Operates on 220/230 V AC. Fitted with 0-60 minute timer.

### OPTIONAL:

- i) Micro Coarse & Fine Abrasive (set of two bottles of 200 gm each)
- ii) Spare glass plate.
- iii) Spare knife holder.

## MGS-1076 AUTOMATIC MICROTOME KNIFE SHARPENER

The unit is fitted with assembly for perfect cutting edge of the knife of any size up to 180mm. Automatic reversing of the knife takes place at regular intervals for equal bevel angle on both sides of its edge, and the sharpening process is across the full diameter of the rotating plate. The plate is rotated at a constant speed by ¼ H.P. motor. A lubricant reservoir with clamp needed for grinding and polishing is supported on the top. The ground glass plate is of size 350mm. (dia) x 12m.m. (thick). A metal scale graduated from 0 to 25 degree division indicates the exact angle between plate & razor with dust cover and cord and plug. Operates on 220/230 V AC. Fitted with 0-60 minute timer.

## MGS-1077 MICRO ABRASIVES

Most effective for efficient sharpening of microtome knives manually or on automatic knife sharpeners. These enhance the life of ground glass honing plates and assure perfectly sharpened knife edges:

**Coarse & Fine Set of two bottles, each of 200 gm**

## MGS-1078 ROTARY MICROTOME RAZOR

Fabricated out of grain tool steel, heat treated and tested for microstructures, both slides wedges with back & handle in wooden box.

### Size :

- a) 120mm
- b) 140mm
- c) 160mm

## MGS-1079 BLOCK HOLDERS

Specimen Holder used for holding the wax block for taking sections on the microtome.

Size: 37mm dia, 25mm dia, 20 mm dia. (Price each)

## MGS-1080 LEATHER STROP

Special quality leather 12 x 2" fitted on wooden plank for honing of razors.

**MGS-1081 HONING STONE** : Special quality stone in box.

**MGS-1082 HONING PLATE** : Glass plate mounted on wooden base.

**MGS-1083 DIAMOND POINT PENCIL**: For marking on slides

**MGS-1084 COLOURED WAX PENCIL**: For marking & notations on slides.

**MGS-1085 L-MOULDS (Embedding Moulds)** Made of brass alloy heavy duty and polished.

### Size:

- a) 37 x 25 x 15 mm pair
- b) 50 x 25 x 15 mm pair
- c) 75 x 30 x 19 mm pair

**MGS-1086 BACK FOR MICROTOME KNIFE**

Sizes: 120 mm, 150 mm, 180 mm, 200 mm



MGS-1075



MGS-1076



MGS-1080



MGS-1081



MGS-1085



**MGS-1088**



**MGS-1089**



**MGS-1092**



**MGS-1093**



**MGS-1094**

**MGS-1087      CADAVEROUS INJECTOR**

For injecting formaldehyde solution in cadaverous at much higher speed than normal gravity process. Unit is fully covered mounted on a portable trolley having four castor wheels for easy movement. Unit consists of one air compressor fitted with ½ hp motor which is connected with a stainless steel tank of 10 liters capacity meant for storing and injecting the solution. Tank is fitted with a safety valve, pressure gauge and rubber tubing having provision for injection. Supplied complete with electric cord, plug and works on 220 volts, single phase 50 Hz AC supply.

**MGS-1088      BONE & MEAT CUTTING MACHINE**

Useful for preparing specimen of big size in Anatomy and Meat Departments. Fitted with large moving table and extension table operated on four ball-bearing rollers. Used extensively in the meat packing, and wholesale fish industry, for handling sword fish and large halbutes etc.

<b>Specifications</b>	<b>(Approx. Size)</b>
Size of cutting table	785 x 585 mm
Total Table Travel	1245 mm
Extension table	455 x 760 mm
Size of wheel	455 mm
Height	1700 mm

The table is made of thick S. S. sheet with special heavy axles for easy and firm movement. Supplied complete with one blade, starter, cord and plug, works on 220 V, single phase, 50Hz, AC Supply.

**MGS-1089      U.V. CHROMATOGRAPHY INSPECTION CABINET**

For viewing and detecting prepared substances on TLC layers fitted with long wave (365 nm.) U.V. tube for use on 220 volts. AC.

**MGS-1089A      U.V. CHROMATOGRAPHY INSPECTION CABINET**

For viewing and detecting prepared substances on T.C.L layers fitted with two U.V tubes of different wave lengths, without filter, for use on 220 volts AC. Separate lamp for visible light.

**MGS- 1090      ULTRAVIOLET FLUORESCENCE ANALYSIS CABINET**

For visualization of test objects under U.V. tubes having long wavelength (365 n.m) And short wavelength (254 n.m) as desired. A fluorescent tube is fitted to the unit for day light visualization. Supplied with three tubes to work on 220/230 volts A.C.

**MGS- 1091      DESTRUCTOR INCINERATOR (Electrical)**

**MGS-1092      SYRINGE NEEDLE DESTROYER (Electrical)**

Scientific research has discovered that used syringes and needles are very dangerous to human which can cause incurable disease like AIDS. Hepatitis and many more. Needle & Syringe in a safe, Eco friendly, Cost effective manner, after switching ON, insert the used needle to small hole provided and with in seconds the needle will be destroyed. Insert the syringe on the top of the machine in the big hole provided with a cutting blade, Just pull the lever and syringe will be cut into two.

**MGS-1093      SYRINGE NEEDLE DESTROYER (Non-Electrical)**

**MGS-1094      OVERHEAD PROJECTOR**

Streamlined body finished in various pastel colours. Projection head folding type, focusing by Rack-n-Pinion. Illumination -600/ 650W-220V AC or 24V-250W halogen bulbs on step-down transformer with solid state control Light intensity and cooling system to projector overheating self lubricating type motor, the stage temperature is maintained at 45° C approx. Interlocked with switch for lamp protection against voltage surges. Writing surface 250x250mm or 285x285mm.

Complete with on-off switch, mains indicators, light intensity control switch cord plug & fuse etc Accessories provided are transparent cellophane roll writing pen pack cleaning cloth venyle cover. Packed in a card-board box with thermocole packing.

- a) Single bulb low voltage 24V-250W Halogen.
- b) Double bulb low voltage system with two Halogen bulbs 24V -250W.
- c) Double bulb low voltage system with two Halogen bulbs 24V -250W.

**OPTIONAL:** Laser Pointer (Imported)



**MGS-1095 OVERHEAD PROJECTOR (Imported)**

Dual Bulb with writing surface 285x285mm

**MGS-1096 OHP PORTABLE (Folding type) Imported**

Folding type smooth focusing with 3 element high definition focusing lens supported by picture sharpness compensator to achieve brilliant projection with optimum contrast. Equipped with two low voltage 24V 250W halogen bulbs with lever to instantly shift to second provided bulb in case of sudden failure of the running one. Mini turbo cooling fan thermal cut out for safety. Writing surface 285 x 285mm. Supplied in molded luggage case.

**MGS-1097 PROJECTION SCREEN (With Metallic Stand)**

Metallic, sturdy, folding, portable with collapsible tripod stand. Housing equipped with automatic spring roller system. Screen size:

**Screen size:**

- a) Projection Screen (Tripod Model) Deluxe 180 x 230 cm
- b) Projection Screen (Tripod Model) Deluxe 132 x 178 cm
- c) Projection Screen (Tripod Model) Deluxe 150 x 150 cm

**MULTIMEDIA PROJECTION SCREEN (With Metallic stand)**

- e) Projection Screen (High Gain) Tripod Model 180 x 230 cm
- f) Projection Screen (High Gain) Tripod Model 132 x 178 cm
- g) Projection Screen (High Gain) Tripod Model 150 x 150 cm

**MGS-1098 PROJECTION SCREEN (Wall Hanging)**

Folding type in metallic case wall hanging arrangement provided.

**Screen size:**

- a) Projection Screen (Wall and Ceiling Model) Deluxe 180 x 230 cm
- b) Projection Screen (Wall and Ceiling Model) Deluxe 132 x 178 cm
- c) Projection Screen (Wall and Ceiling Model) Deluxe 150 x 150 cm

**MULTIMEDIA PROJECTION SCREEN (Wall hanging)**

- e) Projection Screen (High Gain) 180 x 230 cm
- f) Projection Screen (High Gain) 132 x 178 cm
- g) Projection Screen (High Gain) 150 x 150 cm

**MGS-1099 PROJECTION SCREEN (Economic)**

**Screen size :**

- a) 120x130 cm
- b) 130x178 cm

**MGS-1100 HORIZONTAL LAMINAR AIR FLOW CABINET**

Laminar Air flow principle involves double filtration of air through coarse pre-filter (up to 5 microns) and Hepa filter (down to 0.3 microns) for filtration of biological and particulate contaminants. A constant uni-directional air flow is drawn from atmosphere and passed through pre and hepa filters on the work surface. Fabricated out of reinforced ply board which is clad in from out side in laminated sheet and inner exposed areas are finished in epoxy paint. Table top covered with non glaring laminated sheet or stainless steel sheet. Side panels are fixed and are made out of transparent acrylic sheet. The front door is folding type and made of thick acrylic sheet. (Optional) Stand is built in type or detachable.

Blower unit has AUE or equivalent motor and is dynamically balanced with minimal sound & vibration level. Fluorescent lighting is also provided. A suitable UV tube is provided for sterilization. An acrylic block type manometer to measure static pressure in the chamber has been installed. Two way gas tap for gas line has also been provided.

Working Chamber	(A)	(B)	(C)	(D)
SIZE OF HEPA filter	2'x2'x2"	3'x2'x2"	4'x2'x2"	6'x2'x2"
No. of HEPA filter	2'x2'x6"	3'x2'x6"	4'x2'x6"	3'x2'x6"
No of pre filter	1	1	1	2
Illumination	1	1	1	2
U.V. Germicidal Light	1x20 W	1x20 W	1x40 W	2x20 W
	1x1½ feet	1x1½ feet	1x3 feet	2x3 feet

- A) Whole cabinet made of commercial board & laminated with sunmica.
- B) Whole cabinet made out of stainless steel sheet duly smooth polished enhances the life of cabinet.
- C) Whole cabinet made out of Stainless steel



MGS-1096



MGS-1097



MGS-1098



MGS-1100



MGS-1101

**MGS-1101 HORIZONTAL LAMINAR AIR FLOW CABINET (Table Top Model)**

These equipment are also horizontal laminar air flow cabinets. These are table top model and not floor mounted. These can be easily placed on existing laboratory platform .However if required, tubular stand can be provided for these laminar flow cabinet & for its work table, if these equipment are to be used as floor mounting design. Supplied with Static Pressure manometer , U.V. Fluorescent light, Cock for gas & air. Sizes same as above.

Working Chamber	(A)	(B)	(C)	(D)
SIZE OF HEPA filter	2'x2'x2'	3'x2'x2'	4'x2'x2'	6'x2'x2'
No. of HEPA filter	2'x2'x6"	3'x2'x6"	4'x2'x6"	3'x2'x6"
No of pre filter	1	1	1	2
Illumination	1	1	1	2
U.V. Germicidal Light	1x20 W	1x20 W	2x20 W	2x40 W
	1x1½ feet	1x1½ feet	1x3 feet	2x3 feet

- A) Whole cabinet made of commercial board & laminated with sunmica.
- B) Whole cabinet made out of stainless steel sheet duly smooth polished enhances the life of cabinet.
- C) Whole cabinet made out of Staiinless steel

**Optional :** Tubular Stand MS



MGS-1102

**MGS-1102 VERTICAL LAMINAR AIR FLOW CABINET**

Details same as above MGS-1100 but with laminar flows down vertically from top to towards the work table. Supplied complete with static finish Mica table top. Transparent front door (5m.m), Static pressure Manometer, Built in U.V. Germicidal light & fluorescent light and Cock for gas, air or vacuum line.

Working Chamber	(A)	(B)	(C)	(D)
SIZE OF HEPA filter	2'x2'x2'	3'x2'x2'	4'x2'x2'	6'x2'x2'
No. of HEPA filter	2'x2'x6"	3'x2'x6"	4'x2'x6"	3'x2'x6"
No of pre filter	1	1	1	2
Illumination	1	1	1	2
U.V. Germicidal Light	1x20 W	1x20 W	2x20 W	2x40 W
	1x1½ feet	1x1½ feet	1x3 feet	2x3 feet

- A) Whole cabinet made of commercial board & laminated with sunmica.
- B) Whole cabinet made out of stainless steel sheet duly smooth polished enhances the life of cabinet.
- C) Whole cabinet made out of Staiinless steel

**MGS-1103 BIOLOGICAL SAFETY CABINET (As per Class II)**

The cabinets are fabricated out of thick board duly laminated sheet clad. The work table is made of heavy gauge stainless steel sheet and is fitted with U.V. Germicidal Light, static pressure manometer, Exhaust system (suitable for 6 feet duct) and virus burn out Unit. Side panels are made out of thick transparent flexi glass duly framed. The unit is fitted with pre-filter and HEPA filter. Air is drawn through pre-filter and is made to pass through highly effective HEPA (High efficiency particular Air) filters having efficiency retaining all air borne particles of size 0.3 micron and larger. Using a dynamic balancing machine, the blower and motor assembly is statically and dynamically balanced. Motor of 1/5 H.P. Capacity operates with minimum noise level. The working area is illuminated by florescent lighting fitted to the unit. In addition to the above features of a standard vertical Laminar Flow Bench, the Bio-safe cabinets have arrangements for re-circulating a part of the air thus creating highest level of clean air. The unit is also convertible to the conventional vertical laminar flow bench with download air flow by fitting the sliding front door upwards. Air is sucked through the pre-filter and the excess air is thrown out from the top through a HEPA filter of size 1'x1'x6". Supplied with glove ports and gauntlets, HEPA filter, pre-filter, U.V. light and fluorescent light.

Working Size	3'x2'x2'	4'x2'x2'	6'x2'x2'
Size of HEPA Filter	3'x2'x6"	4'x2'x6"	3'x2'x6"
No. of HEPA Filter	1	2	2
Illumination	1x 20W	1x 30W	1 x 30W

- a) Whole cabinet made of wooden board laminated with sunmica
- b) Whole cabinet made of cold rolled steel duly powder coated
- c) Whole cabinet made out of stainless steel

**OPTIONAL:**

- i) Virus burn out unit
- ii) Exhaust Ducting (per running feet)
- iii) Gas Burner



MGS-1103





**MGS-1104 GARMENT STORAGE CABINET (Vertical Flow)**

Self standing providing down flow air to clean room Garments. Recommended in clean room for storage of materials. Suitable for pharmaceuticals, Hospitals and O/T, Electronic industry etc. supplied complete with Hepa Filter & Pre Filter, Motor Blower etc. but With Static pressure manometer, U.V. Germicidal Light, Fluorescent light.

Working Area	3'x2'x5'	4'x2'x5'
Size of Hepa Filter	3'x1 1/2'x6"	4'x1 1/2'x6"
No of Hepa Filter	1	1
No of Pre Filter	1	2

- A) Whole Cabinet made of commercial board & laminated with sun mica.
- B) Whole Cabinet made of cold rolled steel sheet duly powder coated inside & outside for longer life & durability.
- C) Whole cabinet made out of Stainless steel

**OPTIONAL:** Exhaust Ducting per running ft.

**MGS-1105 MATERIAL STORAGE CABINET (Vertical Flow)**

Self standing providing down flow air to clean room Garments. Recommended in clean room for storage of materials. Suitable for pharmaceuticals, Hospitals and O/T, Electronic industry etc. supplied complete with Hepa Filter & Pre Filter, Motor Blower, Static pressure manometer, U.V. Germicidal Light, Fluorescent light and Shelves.

Working Area	3'x2'x5'	4'x2'x5'
Size of Hepa Filter	3'x1 1/2'x6"	4'x1 1/2'x6"
No of Hepa Filter	1	1
No of Pre Filter	1	1
No. of Shelves	3	3

- A) Whole Cabinet made of commercial board & laminated with sun mica.
- B) Whole Cabinet made of cold rolled steel sheet duly powder coated inside & outside for longer life & durability.
- C) Whole cabinet made out of Stainless steel

**OPTIONAL:**

- a) Extra Shelves
- b) Exhaust Ducting per running ft.

**MGS-1106 FUME HOOD**

Fabricated out of thick wooden board. It is designed so as to throw-out all toxic/harmful vapors & fumes thus protecting costly instruments and the persons working in the lab. Outer is finished with sunmica and inner epoxy painted. Working table top is acid/alkali resistant and a small wash basin with connections provided for inlet and outlet of water. The front door moves vertically up and down with concealed counter balanced weights. The unit is fitted with fluorescent light and a gas cock for gas/air supply. The front facing panel is fitted with 15/5 Amp socket with switches for exhaust system and fluorescent light. To work on 220/230 volts A.C. supply.

Working chamber size:	(A) 3'x2'x2'	(B) 4'x2'x2'	(C) 5'x2'x2'	(D) 6'x2'x2'
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- a) Whole cabinet made of wooden board laminated with sumica
- b) Whole cabinet made of Cold rolled steel duly powder coated
- a) Whole cabinet made out of Stainless Steel

**OPTIONAL:**

- i) High CFM exhaust System( for duct exceeding 10 feet in length )
- iii) PVC Fume Duct (per ft.)

**MGS-1107 AIR CURTAINS**

Very useful to create curtain of air between Air-conditioned and clean room to adjoining room. Widely used in various applications in industry, Hospitals, Hotels, Showrooms etc.

**Door Width**

- a) 900 mm
- b) 1200 mm
- c) 1500 mm
- d) 1800 mm

**MGS-1108 INOCULATION CHAMBER**

Economical Clean-air chamber for transfer of tissues and other tissues culture work and use as a dry-box and by dust proof bacteria free clean uncontaminated environmental enclosure. Fabricated out of thick ply board clad, externally laminated sheet and inner exposed areas painted with chemically resistant



**MGS-1105**



**MGS-1106**



**MGS-1107**



MGS-1108

Epoxy paint. It's provided with tightly covered rectangular opening on one side for putting in the material. A clear fixed acrylic sheet window provided in front for observation. Complete with fluorescent lighting and germicidal ultra violet tube.

Chamber size:

- a) 100 x 60 x 90 cm
- b) 100 x 60 x 60 cm
- c) 70 x 50 x 40 cm
- d) 100 x 60 x 60 cm
- e) 70 x 50 x 40 cm

**Chamber size: Inoculation Chamber Economy**



MGS-1109

**MGS-1109 TISSUE CULTURE RACK**

Made out of tubular M.S. Pipes/tubular aluminum pipes duly painted for longer life. Each rack of size 48"x21" (Depth) is covered with thick unbreakable flexi glass/ helyem Sheet. Distance between each rack is 15". Each rack is fitted with 4 fluorecent tubes, 4 bulbs and one U.V germicidal light. The panel box fitted with on/off switches and 0-24 hrs. Timer) To work on 220/230 volts 50 cycles A.C. only.

**No. of Racks**

- a) Unit of four racks 16 tubes & 16 bulbs
- b) Unit of five racks 20 tubes & 20 bulbs
- c) Unit of six racks 24 tubes & 24 bulbs

**OPTIONAL:**

- a) Automatic 0-24 Hours timer to regulate cyclic illumination Conditions
- b) U.V. germicidal light 3 feet long.



MGS-1111

**MGS-1110 TISSUE CULTURE HOOD**

Made of sun mica clad thick wooden board and sun mica clad working top. The unit has frame at front fitted with transparent flexi glass and has an arrangement for keeping the door open if desired. Fitted with U.V. Germicidal light and one Fluorescent Tube.

Outside Size: 1200 x 600 x 600 mm. (ht. at back)

**OPTIONAL:** Exhaust system

**MGS-1111 SEED DRYER (Digital Temp controller)**

Standard sturdy double walled fabrication, inner and outer chamber made of thick Mild steel sheet. Inner chamber made of Anodized Al/ S.S. and exterior finished in hammertone. Heavy duty forced air blowers are provided to constantly circulate hot air to achieve uniform temp. in the whole chamber. Double wall door is mounted on heavy hinges and provided with heavy moulded latch.

Temp. is controlled by Digital Temp. controller-cum-indicator. Temp. range ambient to 120°C ±1 to 2 and equipment is workable on 220 V AC 50 Hz single phase or 440 volts AC supply.

	Chamber Size in mm approx.		Tray Capacity
	W	D x H	
a)	430 x 840	650	8 trays
b)	430 x 840	910	12 trays
c)	910 x 840	910	24 trays
d)	960 x 1270	1450	48 trays

**OPTIONAL:**

- i) Timer 0-24hours
- ii) Aluminium/S.S. Tray size. 16" x 32" x 1¼"



MGS-1112

**MGS-1112 SEED TESTING DRYER CABINET TYPE (Digital Temp. Controller)**

Double walled, cabinets made of stainless steel, outer made of mild steel enamel painted, properly insulated, provided with metallic insulated door with best quality hinges, handle synthetic gasket, etc. Inner Chamber is provided with draws, chamber is provided with heating elements made of kanthal wire with temperature indicator with fan. Temp from ambient to 100°C controlled by digital temp. controller-cum-indicator.

**Cabinet Size : 8"x5"x5"**

- a) 6 cabinets
- b) 12 cabinets
- c) 16 cabinets
- d) 20 cabinets



**MGS-1113 SEED STORAGE CABINET**

Made out of thick P.C.R.C. sheet duly painted. Size of each tray is 12" x 12" x 4" (Height) and into 4 compartments with index card holder. Fitted with handle, lock and key.

Cabinet Size approx.	Trays
a) 27" x 30" x 14"	10 trays
b) 49" x 30" x 14"	20 trays
c) 72" x 30" x 14"	30 trays

**MGS-1114 SEED STORAGE CABINET (with Temp. and Humidity)**

It has double door at front, allowing wide range for storage of various seeds under controlled conditions of temperature and humidity. This double walled unit has outer chamber made of M.S. duly enamel painted and inner chamber is made of Stainless Steel. The chamber has glass windows which allow easy inspection of samples. Inner chamber is fitted with 4no.s fluorescent tubes and 0-24 hrs. timer to control cyclic illumination conditions. Humidity can be achieved and adjusted (variable) from 80% to 95% ± 3% RH. Temperature range 5°C ambient to 40°C which is controlled by Digital Temperature Indicator-cum-controller. The unit works on 220 volts AC. (H) 1200 mm x (D) 420 mm x (W) 820 mm

**MGS-1115 SEED STORAGE CABINET (with Temp. & Refrigeration)**

Standard specifications as per MGS -1114 but Refrigerated seed storage cabinet with temp. from 10°C to 40°C. (H) 1200 mm x (D) 420 mm x (W) 820 mm

**MGS-1116 SEED GERMINATOR (Single Chamber)**

Temperature range 5°C to 50°C. Temperature controlled by Digital temperature indicator cum controller in the variation of ±1° C. Chamber with 14 perforated trays. Chamber is provided with stainless steel water reservoir at bottom. Humidity from 90 to 95% ±3 % (not adjustable) Double-walled inside made of anodized Aluminium/stainless steel and outside Mild steel painted in epoxy powder coating. To work on 220/230 volts 50 cycles A.C. only.

**Chamber Size : 555 (W) x 910 (H) x 605 (D) mm Capacity: 308 ltrs.**

- a) Chamber & trays made of Anodized Aluminium
- b) Chamber & trays made of highly polished Stainless Steel

**OPTIONAL:**

- i) Automatic 0-24 hour's timer to regulate cyclic illumination conditions.
- ii) Automatic voltage stabilizer 3KVA (recommended).
- iii) For Controlled Humidity

**MGS-1117 SEED GERMINATOR MICROPROCESSOR CONTROLLED**

**Technical Features:** Temp. **Controller:** Microprocessor based 16 x 2 characters LCD display with backlit digital display off temperature & humidity. **Data record:** Facility to **Data record** & storage capacity of 1000 readings. **Alarm :** Audio visual alarm for temperature and humidity deviation. **Light levels:** OFF, 25%, 50%, 75% & 100% **Program lock.** lock facility after program. **Watchdog Timer:** To check the program and control at all the time. And make sure that the program and control is working property. Any surge in the electric supply may cause any control (Temperature, humidity and light) to latch at one position. **Temperature:** 10°C -50°C ±1 °C. **Humidity:** Natural humidity with water inside. **No. of Chamber:** One (heating & cooling) **Inner chamber:** Stainless Steel. **Capacity:** 10 cft. (approx). **No. of Trays:** 14 trays. **Compressor :** Hermetically sealed type of standard make. **Operating Voltage:** 220V, 50Hz Ac ±10%.

**MGS-1118 SEED GERMINATOR (Dual Chamber)**

Specifications as Model no. MGS-1116 but double chamber. For cooling a sealed compressor unit has been provided below the chamber to work independently. Each chamber size 555(W) x 910 (H) x 605 (D) mm

- a) Heating and cooling in separate chamber made of anodized Aluminium.
- b) As in (a) but chamber made of stainless steel sheet.

**OPTIONAL:**

- i) Automatic 0-24 hour's timer to regulate cyclic illumination conditions.
- ii) Automatic voltage stabilizer 3KVA (Recommended).
- iii) For Adjustable controlled Humidity (each chamber)



MGS-1116



MGS-1117



MGS-1118



MGS-1119

**MGS-1119 PLANT GROWTH CHAMBER (Small)**

Inside made of stainless steel sheet. Outside of mild steel sheet with finished in white stoving enamel/powder coated paint with mat finished colour combinations.. Fitted with cooling, heating and lighting arrangements. Temperature range 5° C to 50° C± 1° C. Temperature can be obtained from 15° C to 50° C± 1° C when all lights from two sides and top are 'ON'. Temperature is controlled by DUAL temperature electronic Digital temperature Controller-cum-Indicator to set two temperature for day and night. Above Growth chamber is complete with Humidity control from 55% to 95% RH. Light intensity can be adjusted controller according to requirement and Humidity shall be controlled by Digital Humidity controller. Complete with 0-24 hrs. Timer. To work on 220/230 volts 50 cycles A.C. only.

	W	H	D	Capacity in cft.	Capacity Approx.
a)	570	875	550 mm	10 cu.ft.	280 ltrs.
b)	775	900	775 mm	20 cu.ft.	560 ltrs.
c)	825	1200	825 mm	30 cu.ft.	840 ltrs.
d)	900	1720	800 mm	45.8 cu.ft.	1282 ltrs.
e)	1200	1200	1200 mm	64.0 cu.ft.	1792 ltrs.

**OPTIONAL:** Automatic voltage stabilizer (recommended).

3KVA

5KVA

8KVA

10 KVA



MGS-1120

**MGS-1120 SEED BLOWER (DACOTA TYPE)**

Seed blower makes the separation by accurately controlling the upward air flow through a transparent plastic column for purity testing, docking and cleaning of the grain/seed samples. Time can be controlled either by means of a timer or manually. The air flow can be precisely controlled to obtain even the most difficult sensitive air separations. Column are built to trap light weight seed and chaff; only pure seed remains at the bottom of the column, It has a wire mesh bottom to prevent seed from falling into the fan. All -the controls are mounted on the top panel including the timer for easy access. It has three sizes of columns for covering the entire range of seeds/grains. Balanced suitable blower sizes of columns for covering the ritre range of seeds/grains. Balanced suitable blower fitted on the table, fitted with caster wheels for portability. To work on 220/230 volts 50 cycles A.C. only.

**Size:** 48 x 56 x 86 cm. (approx.) w/o tubes

**Small tube Set:** Recommended for Brome, Red top, Blue Grass, Legumes, small cereal grains etc

**Size:** 7.6cm dia x 93 cm length (approx.) and 4.5 cm dia x 93cm Length (approx).

**Large tube set:** Recommended for large capacities and for grain, grasses, legumes, com, soyabean



MGS-1121

**MGS-1121 BOERNER GRAIN DIVIDER**

It is used to reduce the size of a grain / seed sample into two halves, each exactly representative the original sample. The body and inner parts are made of copper and brass eliminating possibility of rust. The legs and supports are made of crome plated steel. The bottom section of the divider is removable for cleaning and the pockets are visible from top. All units are designed for self emptying. Provides accurate splits of the grain samples with an accuracy of ±5% on a 1 kg sample. SIZE: 38"(H)X17"(W)X43"(D)

a) No. of Pockets : 18

b) No. of Pockets : 38



MGS-1122

**MGS-1122 PRECISION DIVIDER (GAMET TYPE)**

It is used for dividing and mixing gram samples and perform accurately on all grains, seeds, feeds etc. Division and mixing are carried out by centrifugal action of motor driven revolving neoprene disc positioned under hopper. The sample falls from hopper on to the revolving disc and is evenly split into two smaller samples. All wearing parts are made of brass and copper, body of high finish stainless steel, made of cast iron duly painted. Inside smooth finish laminated sticking of samples to inner surface, Hopper and cylinder top lift of together providing easy access to interior parts. It is operated on 220V, 50 c/s., single phase electric motor.

SIZE: 38X 31X 51.5 Ht cms. Approx. Hopper Capacity: 2000gms.



MGS-1123

**MGS-1123 RIFFLE DIVIDER**

Suitable for dividing or halving dry materials. Materials poured in to hopper is divide in two equal divisions and discharged alternatively in opposite directions into separate pans. It is supplied with steel pan, SCOOP and cleaning brush. Hopper and Chutes made of High Quality Steel duly painted to give best possible rust protection.





	Width of Chutes	Hopper Size	No. of Pans
a)	2"	19.5"x9.5"	4
b)	0.5"	11"x6.75"	4

**MGS-1124 SAMPLE SHELLER (LAB MODEL PADDY DE-HUSKER)**

Sample Capacity	:	1000 gms
Power	:	0.25 H.P. Single Phase
Dimensions	:	715x335x795 mm (LxBxH)
Features	:	Maintenance free, Lower power consumption, Simple and trouble free mechanish

**MGS-1125 RICE POLISHER (Lab Model)**

Sample Capacity	:	200 gms. Approx.
Power	:	0.50 H.P. Single Phase
Dimensions	:	600x400x400 mm (LxBxH)
Features	:	Easy maintenance, High capacity with low power consumption, Simple and trouble free mechanism. Sieve attached for bran collection.

**MGS-1126 GRAIN/ RICE SIZING DEVICE**

Screen Area	Weight	Sample Size	Grain Sizing
600x250 mm	55 kg	500 g	1.6, 3.2, 4.8 mm
300x125 mm	25 kg	100 g	1.6, 3.2, 4.8 mm

**MGS-1127 ASPIRATOR (Lab Model) BATES TYPE**

Most Appropriate for Seed Testing in Laboratories For separation of light chaffy material from granular product Fast & accurate Separate detachable transparent collector Feed rate controller & Controlled air flow Triangularpan Large hopper capacity 2.2 kg Approx. for Wheat/Rice  
Size -51x30x82.5 cms (Approx.)  
Motor 300 W, 220V, 50 Us AC/DC Single phase

**MGS-1128 SEED ANALYSIS KIT**

Comprises of 1 No. Dispensing Balance, 1 No. Hand Magnifier (4" dia), 1 Set of Parkhi (9", 12" 14"), Scoop Set, 1 No. Enamelle Plate (12" Dia), 1 No. Palm husker, Measuring Cylinders (10 cc, 50 cc, 100 cc), 1 No. Brass Seed caliper, 1 No. Petri dish packed in compact brief case specially designed for Seed/Grain inspectors.

**MGS-1129 SEED GRADER (Lab Model)**

This is a very light and precise unit and is a very useful cleaner for Laboratory tests. Seed growers for cleaning small lots of Beans, Peas and other Seeds. It has power fan with adjustable air intake opening and two screen-one for scalping and the other for grading. Adjustable feed rate & blower speed. Work even without electricity.

Size	:	76x38x58 cms.
Electric Power	:	¼ H.P. 220 220 V, single phase, 50 c/s
Each Screen Size	:	39 x 25.4 cms.

Supplied with a set of 10 screens and two trays.

**MGS-1130 RICE MILL (McGILL TYPE)**

It is used for testing rice samples for milling quality grading, colour and style at low cost. Just put double handful of rough rice and close with stainless steel pressure cover and weight lever assembly. Apply pressure for 30 to 4Q seconds and milled sample is obtained. Sample weight is approx. 162 grams. Provided with a timer. Operates on 220v, 50 c/s, AC Supply  
Size: 37 x 23 x 27 Ht. cms. Approx.

**MGS-1131 ILLUMINATED PURITY WORK BOARD**

It is suitable for testing physical purity of Seed samples with maximum comfort and efficiency. Suitable to be used to distinguish, discolored, damaged wand chalky grains/seeds. Light below the rectangular 8" x 5" opal glass which makes a handy disphanoscope, using of this spot with chaffy grass eliminate all guess works on test. One convenient drawer is provided in the front for larger seed lots. Fitted with a magnifying glass covering the entire surface of opal glass.

Size	:	50 x 28 x 10 Ht. cms. (Made of teak wood for longer life).
Drawer Capacity	:	930 CC (approx.).



**MGS-1125**



**MGS-1126**



**MGS-1128**



**MGS-1129**



MGS-1133



MGS-1134



MGS-1135



MGS-1136

**MGS-1132 BAG SAMPLER**

Available in set of three of 9", 12", 14", long sampler made mild steel chrome plated. Suitable for drawing samples of grain from bag

**MGS-1133 MOISTURE METER/ANALYSER (Digital)**

Sturdy & versatile equipment suitable for wide range of grains, oil seeds, pulses etc. It has inbuilt battery indicator and is high speed and accurate.

**Technical Data:**

Range	8% to 40%
Principle	Resistance Measurement
Accuracy	± 0.2%
Display	Three Seven Segment FND
Dimensions	30 (L) x 17 (B) x 20 (H) cm approx.
Weight	9.5 kg without accessories
Temp.	Compensation Automatic
Power	Six 9V dry Cells or 230 V, AC 50Hz through adopter.
Low battery indicator	Yes

**MGS-1134 MOISTURE METER/ANALYSER (Digital) DIRECT READING**

Sturdy & versatile equipment suitable for wide range of grains, oil seeds, pulses etc. It has inbuilt battery indicator and is high speed and accurate.

**Technical Data:**

Range	3.5% to 40%
Principle	Resistance Measurement
Accuracy	± 0.2%
Display	Three Seven Segment FND
Dimensions	30 (L) x 17 (B) x 26 (H) cm approx.
Weight	9.5 kg without accessories
Temp.	Compensation Automatic
Power	Six 9V dry Cells or 230 V, AC 50Hz through adopter.

Direct Reading Display for all commodities RS-232 Port available for interfacing Printer or Personal Computer Separate code for each commodity No Arithmetic Required Room Temperature Display.

**MGS-1135 UNIVERSAL DIGITAL MOISTURE METER/ANALYSER**

Detail same as MGS-1134 but universal moisture meter having following parameters :

**Technical Data:**

Range	3.5% to 40%
Principle	Resistance Measurement
Accuracy	± 0.2%
Display	Three Seven Segment LED Display
Dimensions	45 (L) x 25 (B) x 33 (H) cm approx.
Weight	22.5 kg without accessories
Power	Six 9V dry Cells or 230 V, AC 50Hz through adopter.

**MGS-1136 ADVANCE DIGITAL MOISTURE METER/ANALYSER**

Detail same as above but universal moisture meter having following parameters :

**Technical Data :**

Display	2x16 columns LCD Display
Dimensions	34 (L) x 17 (B) x 19 (H) cm approx.
Weight	10.5 kg without accessories

**Special Features :**

- |  |  |
|--|--|
| i) Menu driven operation.                                | ii) Direct reading display along with room temp. |
| iii) Backlit facility, real time clock                   | iv) Date time setting available.                 |
| v) Calibration check and re-calibration through software |  |



**MGS-1137 HANDY DIGITAL MOISTURE METER/ANALYSER**

**Technical Data :**

Range 8% to 40%  
 Principle Resistance Measurement  
 Accuracy ± 0.2%  
 Display Large Bright LCD Display  
 Dimensions 18 (L) x 10 (B) x 0.7 (H) cm approx.  
 Weight 1 kg(approx.) without accessories  
 Temp Compensation Automatic  
 Power Six 9V dry Cells or 230 V, AC 50Hz through adopter.

**Special Features :**

- i) Complete portable
- ii) Low battery indication
- iii) Auto off for longer battery life
- iv) Membrane key-pad

**MGS-1138 COMPUTERIZED SEED COUNTER**

The seed counter is computerized one and specially designed for quick counting of seeds. This machine is useful for grains and pulses laboratories where counting of seeds is a routine requirement. It is micro controller based highly advanced unit with alphanumeric display of the commodity name and its other details. The machine can be attached to personal computer for maintaining the records of the samples obtained. It can also be connected with a serial and /or a parallel printer. It counts seeds in a given weight or volume quickly and accurately. Electromagnetic vibratory action moves the seed upward along with the track. Seeds are arranged into a single line before they are discharged. As the seed speeds down the chute, it is detected by a solid state sensor.

**Salient Features :**

Micro controller based. 16x1 line alphanumeric LCD display. Membrane keyboard. Easily detachable pan. Counts seeds of sizes from 1 mm to 15 mm. Counts max. up to 999999 seeds in a lot. Counting speed can be regulated. Batch creating facility. Programmable batch, number of lots in batch through membrane keyboard. Programmable stop counts. Electromagnetic vibratory feeder. Upto electronic sensor (for detecting the seeds). RS 232 interface capabilities for attaching computer and printer. Parallel port for parallel printer. Power supply 220V/50 Hz operated.

**MGS-1139 SEED COUNTER**

Display	Seed Size	No. of seed in one Batch
7 Segment FND Display	0.5 to 15 mm.	9999

**MGS-1140 INFRARED MOISTURE BALANCE**

Aluminium body duly finished with hammertone paint, heat control with electronic regulator. Easy to operate. With accuracy of 0.2% by direct reading 0.1%. Complete with L-shaped thermometer, 10-Disposal Pan, One tweezer and instructional manual.

**Range**

- a) 5 gms
- b) 10 gms
- c) 25 gms

**MGS-1141 FLOCCULATOR (JAR TEST APPARATUS)**

Fitted with D.C. motor but to work on 220 Volts A.C. with variable speed from 20 R.P.M. to 100 R.P.M approx. : Jar test app. allows efficient and economical flocculation matter and collides in general and also has been specially designed for use in water treatments to correctly estimate the dosing of alum and such other coagulants for treatment of water sewage and floc. formation test in water treatment plants. Heavy duty structural construction for rigidly and vibration-free base consists of fluorescent tube mounted below translucent plastic plate to provide diffused cold light to floc. samples : The gear chain for multiple spindle drive gives same speed for all the stainless steel stirring paddle approx. 1"x3" are attached to the rod having 10" long approx. : with lighting knob at top permit adjustment of paddle height spacing of approx. : 6" in between rods permits use to 1000 ml glass beaker which rest directly on bench.

**Stirring Capacity**

- a) For Two Stirrers
- b) For Four Stirrers
- c) For Six Stirrers

**OPTIONAL :**

- i) Digital Timer
- ii) Digital RPM Counter



**MGS-1138**



**MGS-1140**



**MGS-1141**



MGS-1143

**MGS-1142 ROTAMANTLE**

It is a combined mechanism. In this unit magnetic stirrer is fixed beneath the heating mantle. Max. speed 1200 RPM with speed control.

	Flask Cap.	Watts
a)	500 ml.	150
b)	1000 ml.	250
c)	2000 ml.	400



MGS-1145

**MGS-1143 MAGNETIC STIRRER (With Hot Plate and Heavy Duty Permanent Magnet)**

It has a compact stirring device utilising magnetic field (created by a PERMANENT MAGNET) which induces variable speed stirring action. Stirring is accomplished by means of small Teflon rotor, which when placed to be stirred is capable of rotation by magnetic field applied from below the container. The unit is fitted with pilot lamp. Works on 220/230 volts A.C.

	Capacity
a)	1 liter.
b)	2 liters.
c)	5 liters.

**MGS-1144 LABORATORY STIRRER**

The motor stirrer having maximum speed up to 4000 r.p.m. Unit is clamped to C.P. rod fitted on a heavy cast iron base. The height and angle of the stirrer can be adjusted according to the requirement. Variable speed motor with 1/20 H.P. Regulator is fitted with S.S. stirrer rod to give smooth and noiseless operation.

**OPTIONAL:** Automatic 0-60 minutes Timer.



MGS-1146

**MGS-1145 TISSUE HOMOGENISER**

Heavy & stable cast iron base duly painted with mild steel chrome plated upright provided with strong adjustable clamps to hold motor with stirring F rod of stainless steel with Teflon grinder and clamp to hold tissue homogenizing vessel of borosilicate glass which is also adjustable. Speed variable through a control unit to work on 220V AC 50Hz single phase Motor used is of 1/20 H.P

**Homogenizing vessel**

a)	25 ml.	b)	50 ml.	c)	100 ml.
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**MGS-1146 ROTARY SHAKER (VDRL ROTATOR) Variable Speed**

Suitable for VDRL and others agglutination tests, blood grouping tests and for mixing of solutions in small flasks, beakers or bottles. Body made of sturdy mild steel sheet duly finished in stoving enamel/powder coated paint. Tray type platform size 300x300 mm can take cavity slides, bottles flask etc; for shaking at a fixed speed by the help of spring wires. Standard fixed speed 180 RPM. An automatic 60 minutes timer can be provided against extra cost as optional by which shaking duration can be set. To work on 220V AC 50Hz single phase.



MGS-1148

**MGS-1147 ROTARY SHAKER (VDRL ROTATOR) Fixed Speed**

**OPTIONAL:** Automatic 0-60 minutes timer.

**MGS-1148 SHAKING MACHINE (Wrist Action)**

Heavy cast iron base with sturdy construction with two side arms for holding flasks. A heavy duty fractional motor with variable speed through continuously variable speed controller is provided. The holder can hold flasks of capacity 100 to 1000 ml. Supplied complete with cord & plug etc. To work on 220V AC 50Hz single phase. Speed 80-280 oscillations per minute.

**Capacity of holding**

a)	4 flasks	b)	8 flasks
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**OPTIONAL:** Automatic 0-60 minutes timer.



MGS-1149

**MGS-1149 VORTEX SHAKER/CYCLO MIXER (Test Tube Shaker)**

Useful for accelerated mixing of solutions in test tubes, small flasks or centrifugal tubes etc. The housing is 150x150 mm. The speed is regulated by a speed control devices. Short eccentric stroke motor imparts vigorous agitation to the tubes or flasks. Body is strong and finished in white stoving enamel/powder coated paint with mat finished colour combinations. The equipment is workable on 220V AC 50 Hz single phase.





**MGS-1150 RECIPROCATING SHAKING MACHINE (Kahn RackType)**

Designed for shaking KAHN racks, bottles, flasks of different size by adjusting compartments. Fitted with heavy duty motor to work on 220V, AC 50 Hz single phase. The rate of motion is adjustable mechanically by belt tension. Speed is fixed in same models to approximately 275.

	Size of Carrier	Strokes per Minutes	Motor	Body Type
a)	20"x13"x4"	275	0.25 HP	open
b)	20"x13"x4"	275	0.25 HP	covered
c)	20"x13"x4"	150 to 250	0.25 HP	covered
d)	31"x17"x4"	150 to 250	0.25 HP	covered
e)	36"x18"x4"	150 to 250	0.50 HP	covered

**OPTIONAL:** 0-60 minutes timer.

**MGS-1151 ROTARY SHAKER (Platform Type)**

Body made out of thick mild steel finished in stoving enamel/powder coated paint. Heavy duty motor of suitable capacities are provided for long duration operations. Fixed speed and variable speed models are offered. Platform is provided with rubber discs or stainless steel clamps to hold flasks. To work on 220V AC 50 Hz single phase. The choices available are:

	Platform size	Holding cap.	Motor HP
a)	45x 45 cm	25 flasks of 100ml	0.25
b)	45x 45 cm	36 flasks of 50 ml	0.25
c)	45 x 45 cm	16 flasks of 250 ml	0.25
d)	55 x 55 cm	25 flasks of 250 ml	0.25
e)	65 x 65 cm	36 flasks of 250 ml	0.25
f)	100 x 100 cm	81 flasks of 250 ml	1.00
g)	100 x 100 cm	81 flasks of 500 ml	1.00

**OPTIONAL:**

- i) Automatic 0-60 minutes timer.
- ii) Digital Tmer
- iii) Gigital RPM meter

**MGS-1152 SIEVE SHAKER (TABLE TOP) FOR 8" DIA SIEVE**

Fitted with a FHP motor, it can accommodate six sieves of 6" to 8" dia. Speed can be regulated through a continuously variable speed regulator fitted to the unit. To work on 220/230 volts A.C.

**Optional :** Automatic 0-60 min. timer.

**MGS-1153 SIEVE SHAKER (ROTAP MODEL)**

Designed to carry upto 7 sieves of 8" dia it is driven by ¼ HP electric motor, through reduction gear. The whole gear mechanism which gives circular end to end motion runs in oil bath. The tapping motion is given by hammer from top. To work on 220/230 volts single phase AC. supplied complete with adaptor for 8" sieves but without test sieve.

**Optional Accessories :** Automatic 0-60 min. timer.

**MGS-1154 SIEVE SHAKER (GYRATORY MODEL)**

Designed to carry upto 7 sieves of 8" dia it is driven by ¼ HP electric motor, through reduction gear. The sieves table does not rotate but is inclined from the vertical axis the direction. In addition to the Gyratory motion of the table, there is an upword and downward movement ensuring that each square inch of the sieve is utilised. The whole gear mechanism runs in oil bath. To work on 220/230 volts single phase AC. supplied complete with adaptor for 8" sieves but without test sieve.

- Optional :**
- i) Adaptor for 12" sieves
  - ii) Automatic 0-60 min. timer

**MGS-1155 WET SIEVE SHAKER (YODER TYPE) WITH PERFECT / MOTOR**

- a) For 1 Set (supplied without sieves)
- b) For 2 Set (supplied without sieves)
- c) For 4 Set (supplied without sieves)

**Optional :** i) Automatic 0-60 min. timer



MGS-1150



MGS-1151



MGS-1152



MGS-1153



MGS-1154



**MGS-1155**

**MGS-1156 LAB WILLEY GRINDER (Arthur H. Thomas Type)**

Recommended for grinding of dry plant samples. Also for a great variety of commercial dry materials. The unit has two stationary steel edges provided in the cast Iron chamber. A removable safety Glass sheet plate from the face of chamber of permit observation during operation. Willey Mill is fitted on substantial Cast iron base. Complete unit supplied with aluminium /Cast chamber, polished hoper with cover, wooden plunger, three delivery tubes mounted with sieves cloth mesh no: 20, 40 and 60 mesh. One Allen Key for adjusting blades and 3 Glass Jars, brush etc. Electrically operated to work on 220 Volts AC.

	Chamber Size	Motor Cap.
a)	40 x 25 mm	0.25 H.P.
b)	65 x 25 mm	0.25 H.P.
c)	100 x 50 mm	0.50 H.P.
d)	200 x 75 mm	1.00 H.P. (Heavy Duty)

**MGS-1157 BALL MILL (Laboratory Type)**

Electrically operated having a capacity from a few grams, To 1 kg. or 2 kg or 5kg. Fitted with a F.H.P. motor for cap. up to 2 kg. Jar and with ¼ H.P. Heavy-duty motor for 5 kg. jar. Maximum speed 80 R.P.M. supplied with steel balls for mixing and grinding particularly soft powder. Operates on 220 volts AC. mains.

	Capacity	Motor Cap.
a)	1 kg Jar	F.H.P.
b)	2 Kg Jar	F.H.P.
c)	5 Kg Jar	

**OPTIONAL:** Automatic 0-60 minute Timer.



**MGS-1156**

**MGS-1158 ANAEROBIC CULTURE JAR S. STEEL (B.T.L. Type)**

Modified Macintosh and Fildes pattern has all metal construction consisting of a S.S. Jar with a top flangs recessed for a toroidal rubber sealing ring and a cover held in place by strong clamp. The cover is fitted with two needle valves for evacuation and a sachet containing a catalyst. A side arm on the jar is provided for connecting to Semisoild Lucas Indicator. (The unit is supplied without Semi-Solid Lucas indicator). Supplied complete with pressure-cum-cacuum gauge.

- OPTIONAL:**
- i) Spare Catalyst in sachet
  - ii) Rubber sealing ring
  - iii) Gas pack



**MGS-1159**

**MGS-1159 VACUUM PUMP**

Vacuum pumps are V Belt driven at 400 rpm and fitted with electric motor mounted on a cast iron base plate. Material of construction is specially chosen (graded cast iron) and all the parts are precisely machined. Micron finished and assembled to close tolerance for high efficiency. Pumps are supplied either single stage or double stage. Single stage pump creates maximum vacuum of 0.01 mm Hg. Column and double stage creates 0.001 Hg. Suitable to work 220 V single Phase, 50Hz AC supply. Following is the range of vacuum pumps (Single/Double stage)

	Capacity	Motor
a)	32 lt/mm	0.25 HP
b)	50 lt/mm	0.25 HP
c)	75 lt/mm	0.25 HP
d)	100 lt/mm	0.50 HP

- OPTIONAL:**
- i) Vacuum Gauge with regulator.
  - ii) Moisture Trap, with non return valve and vacuum gauge with regulator combined.
  - iii) Vacuum Gauge with regulator and non-return valve combined.



**MGS-1160**

**MGS-1160 MEDICO/CLINICAL CENTRIFUGE**

Electrical operated dome type sturdy stable heavy body with resiliently mounted motor working on 220V AC 50 Hz single phase for vibration free performance with built in 5- speed regulator and non-removable swing out rotor. Complete with tube carriers. Maximum speed 3500 RPM. neatly finished in stoving enamel.



- a) 4 x 15 ml tubes.
- b) 6 x 15 ml tubes.
- c) 8 x 15 ml tubes.

**OPTIONAL:** Automatic 0-60 minutes timer.

**MGS-1161 CENTRIFUGE ANGLE ROTOR HEAD (Doctor Pattern)**

Maximum speed 4500 r.p.m. with speed regulator and plug & cord.

- a) 4 x 15ml.
- b) 6 x 15 ml.
- c) 8 x 15 ml tubes.

**MGS-1162 CENTRIFUGE ANGLE ROTOR HEAD (Pathological)**

Maximum speed 4500 r.p.m. with speed regulator and plug & cord.

- a) 24 x 1.5ml. Ependroft Tubes
- b) 24 x 5 ml. RIA Tubes

**MGS-1163 CENTRIFUGE RECTANGULAR (Research)**

4000 to 5000 r.p.m fitted with electronic solid state speed regulator top cover made of transparent acrylic sheet cord & plug

**Capacity**

- a) 6x15 ml tubes.
- b) 8x15ml tubes.
- c) 12x15ml tubes.
- d) 4x50 ml tubes.

**OPTIONAL:**

- i) Automatic Timer (Manual)
- ii) Automatic timer (Digital )
- iii) Speed meter (Manual)

**MGS-1164 ABBE REFRACTOMETER**

Latest model designed for quick and convenient measurement of refractive index and also dispersion of liquids and solids. In additional a sugar scale in provided facilitating measurement of percentage of sugar in solution. Useful for measuring refractive index in the range of 1.3 to 1.7 with an accuracy of 0.01 direct on scale and 0.0001 by estimation. Sugar percentage of 0-95% with an accuracy of 1% on scale and 0.01 by estimation can be measured. Packed in a wooden cabinet.

**MGS-1165 BUTYRO REFRACTOMETER**

This instrument can be used for measuring on oils, fats and waxes giving a reading directly in terms of the oil scale, otherwise known as BUTYRO scale. The micrometer eye piece allows an accuracy on their scale of 0.1 the soil scale may also be conversion tables. This allows as measuring on materials with index of refraction in the range 1.42 to 1.49 to an accuracy of 0.0002. Dual scale : sugar percentage scale & Butyro scale divided at 1% interval. Easy temp. control. No Coloration of the field view. Micrometer allows accuracy of 0.01% on the oil (Butyro) scale.

**MGS-1166 HAND REFRACTOMETER (Erma Japan)**

A pocket refractometer is designed on the principle of total reflection for measuring the refractive index. Built in ocular scale, on inspection, gives direct reading for percentage of sugar density

- a) Range 0-32%
- b) Range 0-50%
- c) Range 28-62%
- d) Range 58-92%



MGS-1163



MGS-1164



MGS-1166



MGS-1167

**MGS-1167 STUDENT POLARIMETER (Laurent Half Shade)**

Designed on Laurent's half shade principle for accurate results. Equipped with polarizing Unit analyzer precisely graduated scale capable of rotation and divided in single degrees Vernier reading to 1/10 Supplied complete with 200mm polarimeter tube , hand magnifier for easy reading of Vernier Packed in cabinet.

- a) STUDENT POLARIMETER (Laurent Half Shade)
- b) STUDENT POLARIMETER (Bi-quartz)
- c) STUDENT POLARIMETER (Tri-quartz)
- d) SODIUM LAMP with stand & transformer for use with above Polarimeters



MGS-1168

**MGS-1168 POLARIMETER (Research 220 mm)**

Latest polarimeter equipped with imported optical components and to accept observation tube up to 220mm length Sensitive and accurate glass scale is divided to read angular degrees and also carries sugar scale in ISS units. The angular scale from 0-360 degrees is sub-divided to 1 degrees to enable direct reading to 0.5 degrees and by estimation 0.2 degrees The sugar scale from 30 degrees to 120 degrees ISS units enable direct reading to .1 and by estimation,05 sugar degrees Complete with polarimeter tube 200mm in a wooden cabinet.

**MGS-1169 POLARIMETER TUBE (Side Filling)**

Made out of borosilicate glass with screw cap and bubble trap

- a) Length 100 mm.
- b) Length 200 mm.
- c) Length 400 mm.



MGS-1203-07

**MGS-1170 POLARIMETER TUBE (Centre Filling )**

Made out of borosilicate glass.

- a) Length 100 mm.
- b) Length 200 mm.
- c) Length 400 mm.

**MGS-1171 POLARIMETER (Research 400mm)**

Latest design to accept tubes up to 400 mm Complete with 100 mm 200 mm, 400 mm polarimeter tube.



MGS-1208-12

**SLIDE STORAGE BOXES & CABINETS**

**Size/Capacity**

MGS- 1201	Slide Box Supreme	50
MGS-1202	Slide Box Supreme	100
MGS-1203	Slide Cabinet Super Deluxe Wooden Grooves	500
MGS-1204	Slide Cabinet Super Deluxe Wooden Grooves	1000
MGS-1205	Slide Cabinet Super Deluxe Wooden Grooves	2000
MGS-1206	Slide Cabinet Super Deluxe Wooden Grooves	5000
MGS-1207	Slide Cabinet Super Deluxe Wooden Grooves	10000
MGS-1208	Slide Cabinet Deluxe Aluminium Grooves	500
MGS-1209	Slide Cabinet Deluxe Aluminium Grooves	1000
MGS-1210	Slide Cabinet Deluxe Aluminium Grooves	2000
MGS-1211	Slide Cabinet Deluxe Aluminium Grooves	5000
MGS-1212	Slide Cabinet Deluxe Aluminium Grooves	10000
MGS-1213	Trolley for slide cabinets for 500 & 1000 slides	
MGS-1214	Slide Tray, Aluminium	20
MGS-1215	Slide Tray, Wooden	20



MGS-1216

**HERBARIUM/PLANT PATHOLOGY EQUIPMENT**

**Size/Capacity**

MGS-1216	Herbarium Press for laboratory use	45 x 30 cm
MGS-1217	Herbarium Press for Field use	45 x 30cm
MGS-1218	Herbarium Cabinet	6 drawers
MGS-1219	Herbarium Cabinet	12 drawers
MGS-1220	Herbarium Cabinet	24 drawers
MGS-1221	Botanical Vasculum	45 x 15 x 25 cm
MGS-1222	Botanical Vasculum	60 x 20 x 30 cm

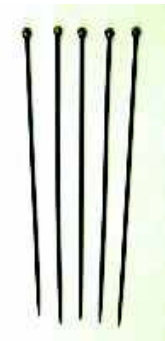




MGS-1223	Chromatography cabinet for 6 filter papers	57x 68 cm
MGS-1224	Chromatography cabinet for 6 filter papers	46 x 57 cm
MGS-1225	Riker Specimen showcase	45 x 30 x 5 cm

**INSECT STORAGE/ENTOMOLOGICAL EQUIPMENT****Size/Capacity**

MGS-1226	Insect Storage Box	53 x 45 x 9 cm
MGS-1227	Insect Storage Box	45 x 30 x 7.5 cm
MGS-1228	Insect Storage Box	38 x 25 x 7.5cm
MGS-1229	Insect Storage Box	30 x 23 x 7.5cm
MGS-1230	Insect Display & Storage showcase	53 x 45 x 9 cm
MGS-1231	Insect Display & Storage showcase	45 x 30 x 6.5 cm
MGS-1232	Insect Display & Storage showcase	38 x 25 x 6.5 cm
MGS-1233	Insect Display & Storage showcase	30 x 23 x 6.5 cm
MGS-1234	Insect Display showcase	90 x 60 x 11 cm
MGS-1235	Insect showcase cabinet (small)	6 showcases
MGS-1236	Insect showcase cabinet (small)	12 showcases
MGS-1237	Insect showcase cabinet (small)	24 showcases
MGS-1238	Insect showcase cabinet (large)	12 Drawers
MGS-1239	Insect showcase cabinet (large)	24 Drawers
MGS-1240	Insect Box with stretching Strips	43 x 30 x 11 cm
MGS-1241	Insect Stretching board (Adjustable)	
MGS-1242	Insect Collecting Net with Aluminium Handle	
MGS-1243	Insect Collecting Net with Iron Handle	
MGS-1244	Insect Collecting Net with Wooden Handle	
MGS-1245	Spare net bags for insect collecting Nets	
MGS-1246	Plankton Net	
MGS-1247	Aquatic Net	
MGS-1248	Insect Light Trap with Electric Bulb	
MGS-1249	Insect Light Trap with Electric Bulb & Battery	
MGS-1250	Insect Light Trap with florescent Tube	
MGS-1251	Insect Light Trap with U.V. Tube	
MGS-1252	Insect Light Trap For Hurricane Lamp	
MGS-1253	Light Trap for both with Mercury Bulb	
MGS-1254	Trap for fruit flies	
MGS-1255	Insect Cage	15 x 15 x 15 cm
MGS-1256	Insect Cage	20 x 15 x 15 cm
MGS-1257	Insect Cage	25 x 20 x 20 cm
MGS-1258	Insect Cage	30 x 30 x 45 cm
MGS-1259	Insect Cage Folding type	20 x 20 x 20 cm
MGS-1260	Insect Split Cage with Black tasser, Round shape	
MGS-1261	Breeding cage for Flies	45 x 45 x 45 cm
MGS-1262	Brown Plant Hopper Insect Rearing cage	45 x 45 x 45 cm
MGS-1263	Green Leaf Hopper Insect Rearing cage	45 x 45 x 45 cm
MGS-1264	Rat & Mosquito cage	45 x 30 x 30 cm
MGS-1265	Animal cage	30 x 23 x 30 cm
MGS-1266	Animal cage	45 x 45 x 38 cm
MGS-1267	Animal cage with slanting front door	30 x 23 x 30 cm
MGS-1268	Mating Cage	45 x 30 x 30 cm
MGS-1269	Field collection Bag (with accessories)	
MGS-1270	Field collection Bag (with accessories)	
MGS-1271	Entomological Pins (Imported)	Pkt. of 100 approx
MGS-1272	Cabinet for boxes of specimen tubes	6 Boxes
MGS-1273	Cabinet for boxes of specimen tubes	12 Boxes
MGS-1274	Insect specimens tube box	20
MGS-1275	Insect specimens tube cabins	500
MGS-1276	Corcyra Cage MDF	43 x 23 x 12 cm
MGS-1277	Corcyra Cage (Waterproof plywood)	38 x 38 x 10 cm
MGS-1278	Breeding Nest for Corcyra	60 x 30 x 30 cm
MGS-1279	Corcyra Egg Laying Cage	32 x 25 x 18 cm
MGS-1280	Corcyra Egg Sterilization Chamber	150 cards
MGS-1281	Corcyra Egg Sterilization Chamber	50 cards
MGS-1282	Corcyra Egg Sterilization Chamber	25 cards
MGS-1283	Corcyra Egg cleaning device with vacuum cleaner	

**MGS-1226****MGS-1242****MGS-1261****MGS-1271**



**Ref. Card Cabinet**



**MGS-1297**



**MGS-1299**



**MGS-1314**

MGS-1284	Corcyra Rearing System	
MGS-1285	Observation Beehive	
MGS-1286	Apparatus for culturing the Biological control agent in SITU	
MGS-1287	Field kit for the multiplication of insect Larval Parasitoid	
MGS-1288	Reference Card cabinet for 13x8 cm cards	6 drawers
MGS-1289	Reference Card cabinet for 13x8 cm cards	12 drawers
MGS-1290	Reference Card cabinet for 13x8 cm cards	18 drawers
MGS-1291	Reference Card cabinet for 13x8 cm cards	24 drawers
MGS-1292	Reference Card cabinet for 15x10 cm cards	6 drawers
MGS-1293	Reference Card cabinet for 15x10 cm cards	12drawers
MGS-1294	Reference Card cabinet for 18x11 cm cards	6 drawers
MGS-1295	Reference Card cabinet for 15x10 cm cards	12 drawers
MGS-1296	Tracers	68x45x11.5/2.5cm
MGS-1297	Acrylic Table desk	58 x 40 cm
MGS-1298	Reprint Box	38 x 25 x 6 cm
MGS-1299	Literature Cabinet	24 boxes
MGS-1300	Literature Cabinet	30 boxes
MGS-1301	Literature Cabinet	36 boxes
MGS-1302	Chart cabinet for 100x75 cm hand made charts	100 charts
MGS-1303	Chart cabinet for Bio-Visual charts	100 charts

**GENERAL PURPOSE EQUIPMENT**

**SIZE/CAPACITY**

MGS-1304	Perpex cover for Binocular Microscope	29 x 24 x 43 cm
MGS-1305	Perpex cover for Trinocular Microscope	30 x 25 x 45 cm
MGS-1306	Perpex cover for Instruments	45 x 30 x 30 cm
MGS-1307	Perpex cover for Instruments	38 x 38 x 45 cm
MGS-1308	Perpex cover for Instruments	45 x 45 x 45 cm
MGS-1309	Staining Rack for 60ml dropping bottles	6 bottles
MGS-1310	Staining Rack for 60ml dropping bottles	12 bottles
MGS-1311	Staining Rack for 125ml dropping bottles	6 bottles

**EXHIBITS / EXTENSION EQUIPMENT**

**SIZE/CAPACITY**

MGS-1312	Museum Specimen Display Showcase	60x40x6 cm
MGS-1313	Drawing Board with stand (Adjustable)	81x61 cm
MGS-1314	Drawing Board with stand (Fixed)	81x61 cm
MGS-1315	Perforated Board	30x20 cm
MGS-1316	Perforated Board	60x45 cm
MGS-1317	Perforated Board	90x60 cm
MGS-1318	Perforated Board	120x60 cm
MGS-1319	Perforated Board	120x90 cm
MGS-1320	Perforated Board	120x120 cm
MGS-1321	Perforated Board	150x90 cm
MGS-1322	Perforated Board	150x120 cm
MGS-1323	Perforated Board	180x90 m
MGS-1324	Perforated Board	180x120 cm
MGS-1325	Exhibits Panel for Outdoor Use	120x90 cm
MGS-1326	Exhibits Panel for Outdoor Use	150x90 cm
MGS-1327	Exhibits Panel for Outdoor Use	180x90 cm
MGS-1328	Multiple Exhibits Panel for outdoor Use	60x90cmx3
MGS-1329	Multiple Exhibits Panel for outdoor Use	60x90cmx4
MGS-1330	Multiple Exhibits Panel for outdoor Use	90x120cmx3
MGS-1331	Exhibits Panel for Indoor Use	60x45 cm
MGS-1332	Exhibits Panel for Indoor Use	90x60 cm
MGS-1333	Exhibits Panel for Indoor Use	120x60 cm
MGS-1334	Exhibits Panel for Indoor Use	120x90 cm
MGS-1335	Exhibits Panel for Indoor Use	150x90 cm
MGS-1336	Exhibits Panel for Indoor Use	150x120 cm
MGS-1337	Exhibits Panel for Indoor Use	180x90 cm
MGS-1338	Exhibits Panel for Indoor Use	180x120 cm
MGS-1339	Exhibits Panel with Acrylic/Glass cover	60x45 cm



MGS-1340	Exhibits Panel with Acrylic/Glass cover	90x60 cm
MGS-1341	Exhibits Panel with Acrylic/Glass cover	120x60 cm
MGS-1342	Exhibits Panel with Acrylic/Glass cover	120x90 cm
MGS-1343	Exhibits Panel with Acrylic/Glass cover	120x120 cm
MGS-1334	Exhibits Panel with Acrylic/Glasscover	150x90 cm
MGS-1345	Exhibits Panel with Acrylic/Glass cover	150x120 cm
MGS-1346	Exhibits Panel with Acrylic/Glass cover	180x90 cm
MGS-1347	Exhibits Panel with Acrylic/Glass cover	180x120 cm
MGS-1348	Exhibits Panel for indoor use (Cork Surface)	60x45 cm
MGS-1349	Exhibits Panel for indoor use (Cork Surface)	90x60 cm
MGS-1350	Exhibits Panel for indoor use (Cork Surface)	120x60 cm
MGS-1351	Exhibits Panel for indoor use (Cork Surface)	120x90 cm
MGS-1352	Exhibits Panel for indoor use (Cork Surface)	150x90 cm
MGS-1353	Exhibits Panel for indoor use (Cork Surface)	150x120 cm
MGS-1354	Exhibits Panel for indoor use (Cork Surface)	180x90 cm
MGS-1355	Exhibits Panel for indoor use (Cork Surface)	180x120 cm
MGS-1356	White Board	60x45 cm
MGS-1357	White Board	90x60 cm
MGS-1358	White Board	120x60 cm
MGS-1359	White Board	120x90 cm
MGS-1360	White Board	120x120 cm
MGS-1361	White Board	150x90 cm
MGS-1362	White Board	150x120 cm
MGS-1363	White Board	180x90 cm
MGS-1364	White Board	180x120 cm
MGS-1365	White Board	240x120 cm
MGS-1366	Magnetic Board (White Resin Surface)	60x45 cm
MGS-1367	Magnetic Board (White Resin Surface)	90x60 cm
MGS-1368	Magnetic Board (White Resin Surface)	120x60 cm
MGS-1369	Magnetic Board (White Resin Surface)	120x90 cm
MGS-1370	Magnetic Board (White Resin Surface)	120x120 cm
MGS-1371	Magnetic Board (White Resin Surface)	150x120 cm
MGS-1372	Magnetic Board (White Resin Surface)	180x120 cm
MGS-1373	Magnetic Board (White Resin Surface)	240x120 cm
MGS-1374	Ceramic magnetic White Board	120x60 cm
MGS-1375	Ceramic magnetic White Board	120x90 cm
MGS-1376	Ceramic magnetic White Board	120x120 cm
MGS-1377	Ceramic magnetic White Board	150x120 cm
MGS-1378	Ceramic magnetic White Board	180x120 cm
MGS-1379	Ceramic magnetic White Board	240x120 cm
MGS-1380	Exhibit Panel-cum-white Board for Outdoor use	120x90 cm
MGS-1381	Exhibit Panel-cum-white Board for Outdoor use	150x90 cm
MGS-1382	Exhibit Panel-cum-white Board for Outdoor use	180x90 cm
MGS-1383	Green Surface Board	60x45 cm
MGS-1384	Green Surface Board	90x60 cm
MGS-1385	Green Surface Board	120x60 cm
MGS-1386	Green Surface Board	120x90 cm
MGS-1387	Green Surface Board	120x120 cm
MGS-1388	Green Surface Board	150x120 cm
MGS-1389	Green Surface Board	180x120 cm
MGS-1390	Green Surface Board	240x120 cm
MGS-1391	Ceramic Green Chalk Board	120x60 cm
MGS-1392	Ceramic Green Chalk Board	120x90 cm
MGS-1393	Ceramic Green Chalk Board	120x120 cm
MGS-1394	Ceramic Green Chalk Board	150x120 cm
MGS-1395	Ceramic Green Chalk Board	180x120 cm
MGS-1396	Ceramic Green Chalk Board	240x120 cm
MGS-1397	Dual Purpose (Half exhibit-half white) display panel	90 x 60 cm
MGS-1398	Dual Purpose (Half exhibit-half white) display panel	120 x 60 cm
MGS-1399	Dual Purpose (Half exhibit-half white) display panel	120 x 90 cm
MGS-1400	Dual Purpose (Half exhibit-half white) display panel	120 x 120 cm
MGS-1401	Dual Purpose (Half exhibit-half white) display panel	150 x 90 cm
MGS-1402	Dual Purpose (Half exhibit-half white) display panel	150 x 120 cm
MGS-1403	Dual Purpose (Half exhibit-half white) display panel	180 x 90 cm



MGS-1356



MGS-1366



MGS-1391



MGS-1405

- MGS-1404 Dual Purpose (Half exhibit-half white) display panel 180 x 120 cm
- MGS-1405 Flexible stand for white/Magnetic/Green surface Board 2500.00
- MGS-1406 Words 1" Pkt. of 100
- MGS-1407 Words 3/4" Pkt. of 100
- MGS-1408 Dustor Magnetic
- MGS-1409 Dustor Non-Magnetic
- MGS-1410 Combination Board (Half White Half Green) 120x90 cm
- MGS-1411 Combination Board (Half White Half Green) 150x120 cm
- MGS-1412 Combination Board (Half White Half Green) 180x120 cm
- MGS-1413 Combination Board (Half White Half Green) 240x120 cm



MGS-1410

**PROJECTOR AND ACCESSORIES**

**SIZE/CAPACITY**

- MGS-1411 Film Strip-cum-slide projector (Halogen) 2"x2" slides
- MGS-1412 Automatic slide projector with cordless Remote



MGS-1411

**FOOD LAB. EQUIPMENTS**

**MGS-1500 PULPHER MACHINE**

This machine is designed for extracting the pulp of most fruits and vegetable such as mangoes, guavas, peaches, tomatoes, bananas etc. Mounted on a heavy duty mild steel stand the central pulping unit of the machine consists of a pair of brushes fixed on a stainless steel shaft and one stainless steel sieve. The gap between sieve and the brushes can be adjusted to suit different types, sizes and qualities of the product to be pulped. The sieve is available in perforations of different sizes and is easily removable for quick inter changing and cleaning. (All spare contact part of S.S. -304)

- |    | Capacity   | Motor    |
|----|------------|----------|
| a) | 80Kg/ Hr.  | 1/2 H.P. |
| b) | 200Kg/ Hr. | 1 H.P.   |
| c) | 500Kg/ Hr. | 2 H.P.   |



MGS-1500

**MGS-1501 FRUIT CRUSHER (CRUSHING MACHINE)**

This machine is suitable for crushing stoneless fruits and vegetable. This machine is mounted on a heavy duty mild steel stand equipped with motor and starter. The material is fed into the stainless steel hopper which feeds the product into the crushing drum, which consists of stationary blade and rotary beater which crushes the loaded product.

- a) with 1.0 H.P. Motor (Cap. 300 Kg/ Hr.)

**MGS-1502 Juice Press (To extract juice from crushed fruits)**

- a) Hand Screw Basket Press
- b) Hydraulic Juice Presses

It is a hand operated unit with a hydraulic pump of capacity 5 ton. The units mounted on very heavy base and pillars along with hand screw arrangement. Supplier with TEAK WOOD circular plank held together with stainless steel strips. A thick M.S. base tray lined with stainless steel is provided with the unit. It is the most suitable press for extracting juice from apples, pineapples, carrots, ginger, grapes etc. Cap. is 5 ton.

- c) -do- but with 10 ton pressure unit.



MGS-1502

**MGS- 1503 ROSING MACHINE** for juicing lemon and tight skin oranges with S.S. contact parts.

- a) Hand worked Table Model
- b) Two head motorized Model with 1/2 H.P. Motor

**MGS- 1504 CAN REFORMING UNIT**

This is a simple machine which rounds flatterened can bodies prior to flanging. The Flatterened can is mounted on to the rubber roller and on depressing the paddle, It presses the can against the rotating steel roller there by giving it round shape.

- a) Hand Operated Model
- b) Electrical Motorized Model with 1.0 H.P. Motor

**Optional Accessories**

- i) Spare rubber roller                      301 dia                      401 dia                      603 dia                      700 dia





**MGS-1505 CAN FLANGING MACHINE**

Heavy duty model, this is a simple hand operated machine for simultaneous flanging of both sides of a round can. A toggle motion balanced handle are enables the machine to be operated with min. exertion. Supplier with one die for 401 mm dia cans.

- a) Spare flanging die 301 dia or 401 dia
- b) Spare flanging die 603 dia or 700 dia

**MGS-1506 LID EMBOSSING MACHINE**

This machine is designed to emboss standard ends with the required ref. letter or figures. The machine is operated by a foot treadle which, when depressed, embosses the lid by virtue of marks dies, without peiching it. Supplied with one set of double row die holder, but without alphabets and numerical.

- a) Cost of alphabets (A to Z) and Nemericals (0 to 9)

**MGS-1507 FLANGE RECTIFIER UNIT**

This is very useful and simple machine for the rectification of deshaped flanges of cans. The deshape flanged can is placed on the die and by simple application of the handle, the flange is rectified.

Dia	202 dia	301 dia	401 dia	603 dia	700 dia
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**MGS-1508 STEAM JACKETED KETTLE**

This equipment is used for batch heating and cooking of various food products. Mounted on a heavy duty mild steel with tilting arrangement. Jacket and pan are both made of high quality S.S. -304 grade stainless steel of heavy gauge. The pan is 2/3 jacketted for max. steam utlization and efficiency.

- a) Cap. 25 gallons (110 ltrs)
- b) Cap. 50 gallons (225 ltrs)

**MGS-1509 BOTTLE FILLING MACHINE**

This machine is suitable for accurate filling of liquids like syrups, ketchup, solutions etc. in bottles. Machine consists of Two/ Four filling heads with vacuum pump and 1/2 H.P. Motor. All contact parts are S.S. -304 grade stainless steel.

- a) Two Head Model (~ 20/25 bottleles min.)
- b) Four Head Model (~ 40/45 bottles min.)

**MGS-1510 P.P. CAP SEALING MACHINE**

Suitable for all sizes of bottles for treading and sealing operations. Supplied with one die.

- a) Hand worked Table Model
- b) Heavy Duty Hand Worked Pedestal Model
- c) Heavy Duty Motorized Unit (With 1/4 H.P. Motor)

**MGS-1511 LUG CAP SEALING MACHINE**

This is a semi-automatic sealer with easy foot switch and lever operation. It works entirely on compressed air which ensures gentle pressure application and easy lever movement Air Filter and regulator provides recommended pressure for leak proof tight seal.

**MGS-1512 FRUIT AND VEGETABLE SLICER**

- a) Hand Operated Unit
- b) Motorized Unit with 1/4 H.P. Motor

**MGS-1513 COIL TYPE JUICING MACHINE**

For oranges and soft fruits with aluminium juicing head and s. steel sieve.

- a) With ¼ H.P. Motor
- b) With ½ H.P. Motor
- c) With 1 H.P. 3 Phase Motor



**MGS-1506**



**MGS-1508**



**MGS-1509**



**MGS-1511**



**MGS-1514**

**MGS-1514 MEAT MINCER**  
 Cap. Motor  
 65 kg/hr 1.0 H.P.

**MGS-1515 SAUSAGE FILLER (FOR 8 KG BATCH)**  
 a) Contact parts of M.S. b) Contact Parts of S.S.

**MGS-1516 POTATO PEELER**  
 a) Cap. 5 kg with 0.5 H.P. Motor  
 b) Cap. 10 Kg with 1.0 H.P. Motor

**MGS-1517 POTATO SLICING MACHINE**  
 a) Hand operated with arrangement to adjust thickness of slices  
 b) Heavy duty Motorized with 1.0 H.P. Motor

**MGS-1518 CROWN CORKING MACHINE**  
 a) Hand worked heavy duty table model  
 b) Floor operated pedestal model

**SPECTRO PHOTO METER**



**MGS-E01**

**MGS-E01 MICROPROCESSOR UV/VIS SPECTROPHOTOMETER (Double Beam)**  
 Range 190 to 1000 nm with fully automatic operation, automatic 8 cell changer, automatic wave length calibration and wave length scan, automatic peak picking and spectrum display. Large screen with graphic display. Spectrum and data can be printed out by printer via RS 232 set of 4 quartz and 16 glass cuvettes. Software included (Imported)

**MGS-E02 MICROPROCESSOR UV/VIS SPECTROPHOTOMETER (Single Beam)**  
 Range 195 to 1000 nm with facility for automatic concentration, % Transmission, Absorbance and K factor measurements. It has sample holder with 4 position selector control for 10mm path length cuvettes. Facility has been provided for interface for any printer and RS 232. A set of 2 quartz and 4 glass cuvettes is provided. Software included (Imported)

**MGS-E03 DIGITAL UV-VIS SPECTROPHOTOMETER (Visible)**  
 Range 320 to 1000 nm with facility for automatic concentration, % Transmission & Absorbance measurements. Wavelength with 1 nm resolution & 4 digit LED display for results. Cuvette holder 4 position for 10 nm optical path length is provided. Facility has been provided for printing RS 232. Software included (Imported).

**MGS-E04 DIGITAL SPECTROPHOTOMETER Range 340-960 nm**  
 340-960nm with facility for automatic concentration, % Transmission and O.D. measurement. 3 ½ digit LED display for wavelength with 5 nm resolution with round test tubes.

**MGS-E05 DIGITAL SPECTROPHOTOMETER - Range 340-960 nm**  
 Range 340-960nm with facility for automatic concentration, % Transmission and O.D. measurement 3 digit LED display for wavelength with 1 nm resolution with round test tubes.

**MGS-E06 DIGITAL SPECTROPHOTOMETER - Range 340-960 nm**  
 Range 340-960 nm with facility for automatic concentration, % Transmission and Absorbance measurement. Separate 3 digit LED display for wavelength with 1nm wavelength resolution. 3 ½ digit LED display for results. Provision for 10mm to 50mm path length glass cuvettes.

**MGS-E07 DIGITAL SPECTROPHOTOMETER- Range 340-960 nm**  
 Range 340-960nm with facility for automatic concentration % Transmission & Absorbance measurement. 3 ½ digit data display. Separate 3 digit LED display for wavelength in nm with 1nm for wavelength resolution. Provision is made for 10mm path length cuvettes.



**MGS-E05**

**OPTIONAL:**

- a) Cuvettes Glass 10mm path length (Set of 2)
- b) Cuvettes Quartz 100mm path length (Set of 2)
- c) Round glass test tubes 10mm path length (Set of 10)
- d) Spare lamp Halogen 6V, 10W
- e) 80 Character centronics printer
- f) Polystyrene cuvettes 10mm path length (Set of 10)

**FLAME PHOTOMETER****MGS-E08 MICROPROCESSOR FLAME PHOTOMETER**

with sodium (Na) & potassium (K) filters, Direct readout in ppm & meq/l, auto filter selection, 16x2 lines LCD display single aspiration and dual reading display. It is supplied with compressor and other accessories for lab & medical use.

**MGS-E09 DIGITAL CLINICAL FLAME PHOTOMETER**

Dual channel, single aspiration, with filters (Na & K) for medical use. Final results in meq/l Dual 3 digit LED display for simultaneous results along with compressor and other accessories.

**MGS-E10 DIGITAL FLAME PHOTOMETER**

With filters (Na & K) 2 ½ digit LED display (ppm) along with compressor and other accessories.

**OPTIONAL:**

- a) Interference Filters (Na, K, Li, or Ca) each
- b) Air compressor unit with regulator and pressure gauge
- c) Capillary tubes (set of 5)
- d) Connecting Tubes Set

**DIGITAL PH METERS****MGS-E11 MICROPROCESSOR BASED pH/mV/Temperature METER**

with 16x2 alphanumeric LCD display showing pH, mV, Temp, having auto temperature compensation, Date & Time, auto buffer recognition along with accessories. Date storage facility up to 1000 samples Complete with pH electrode, temperature probe, electrode stand, dust cover & instruction manual.

**MGS-E12 MICROPROCESSOR BASED pH/mV/Temperature METER**

with 16x2 alphanumeric LCD display having auto temperature compensation, auto buffer recognition along with accessories.

**MGS-E13 MICROPROCESSOR BASED pH/mV/Temperature METER**

with 16x2 alphanumeric LCD display Portable having auto temperature compensation, auto buffer recognition along with accessories.

**MGS-E14 DIGITAL pH METER (Portable)**

3 ½ digit LCD display in ABS plastic body with touch switches, and combination pH electrode.

**MGS-E15 DIGITAL pH METER (Table Model)**

3 ½ digit LCD display manual temperature compensation and combination pH electrode.

**MGS-E16 DIGITAL pH METER (Table Model) DELUXE**

3 ½ digit LCD display manual temperature compensation and combination pH electrode & RTD probe.

**MGS-E17 DIGITAL pH Conductivity & Temperature Meter (Table Meter)**

for measurement of pH, conductivity & Temperature 3 ½ digit LED display with pH combination electrode conductivity cell and Temperature probe.



MGS-E08



MGS-E10



MGS-E14



MGS-E15



MGS-E18

**MGS-E18 DIGITAL Conductivity & TDS Meter (Table Model)**  
with 3 ½ digit LED display along with glass, silver, platinum and reference electrodes.

**OPTIONAL:**

- a) pH combination electrode
- b) Gel filled epoxy body combination electrode
- c) General purpose ORP electrode
- d) Electrode Stand
- e) Standard Solution 4.00, 7.00 & 9.20 pH (100ml) each

**DIGITAL POTENTIOMETER**

**MGS-E19 DIGITAL POTENTIOMETER (Table Model)**  
with 3 ½ digit LCD display along with glass, silver, platinum and reference electrodes. Mains operated.

**MGS-E20 DIGITAL POTENTIOMETER (Table Model)**  
with 3 ½ digit LCD display along with glass, silver, platinum and reference electrodes. Mains operated.

**MGS-E21 DIGITAL POTENTIOMETER (Table Model)**  
with 3 ½ digit LCD display along with glass and reference electrodes. Mains operated.

**Optional :**

- i) Reference Electrode
- ii) Glass electrode
- iii) Silver electrode
- iv) Platinum electrode

**PHOTO COLORIMETER/ HEAMOGLOBIN METERS**



MGS-E25

**MGS-E22 AUTO COLORIMETER**  
8 filters with 16x2 line LCD display for % transmission & optical density display. Soft touch Zero facility.

**MGS-E23 AUTO COLORIMETER ANALYZER**  
8 filters with 16x2 line LCD display for % transmission, optical density and concentration. Soft touch type. Memory of 3 standard to avoid frequent use of standards. 1ml. solution measurement.

**MGS-E24 DIGITAL PHOTO COLORIMETER 8 FILTER**  
8 filters Mains and Battery operated with optical density and 2 ½ % age transmission. sample size 1 ml.

**MGS-E25 DIGITAL PHOTO COLORIMETER 8 FILTER**  
8 filters Mains operated with optical density and 2 ½ % age transmission. sample size 1 ml.

**MGS-E26 DIGITAL BALANCE CELL COLORIMETER**  
3 digit LED display blue, green & red filters on a disc covering 400 to 700 nm range.

**MGS-E27 MICROPROCESSOR HAEMOGLOBIN METER**  
16x2 lines LCD display for direct HB result soft touch keys, auto calibration. Direct reading of Hb units, Standard memory facility. 1 ml sample measurement.

**MGS-E28 MICROPROCESSOR HAEMOGLOBIN METER**  
3 digit LED display with soft touch keys, auto calibration. Direct reading of HB unit, 1 ml. sample standard memory facility.

**MGS-E29 MICROPROCESSOR HAEMOGLOBIN CUM GLUCO METER**  
3 digit LED display with soft touch keys, auto calibration. Direct reading of HB and GLUCO unit, 1 ml. sample standard memory facility.

**MGS-E30 DIGITAL GLUCOSE METER**  
16x2 line LCD display for direct HB result. Standard memory facility.

**OPTIONAL:**

- a) Standard glass filter (Each colour)
- b) Test tube for colorimeter (set of 5)
- c) Photocell/Photo diode
- d) Spare lamp 6V 300mA



MGS-E28





**WATER / SOIL TESTING INSTRUMENTS**

**MGS-E31 MICROPROCESSOR WATER & SOIL ANALYSIS KIT (7 parameter)**

For measurement of pH, Conductivity, mV, TDS, Salinity DO Temperature. 16x2 Line bold alphanumeric LCD display, battery cum mains operated with all accessories, fitted in a VIP portable briefcase. Data storage facility up to 700 samples & external printer attachment facility available. (without ORP electrode)

**MGS-E32 WATER AND SOIL ANALYSIS KIT (7 parameter)**

3 ½ digit LCD display covering 7 parameters: pH, Conductivity, TDS, Salinity, Turbidity, Dissolved oxygen & Temperature, Complete with accessories. (without ORP electrode)

**MGS-E33 WATER AND SOIL ANALYSIS KIT (6 parameter)**

3 ½ digit LCD display covering 6 parameters: pH, Conductivity, TDS, Dissolved oxygen, Turbidity & Temperature, Complete with accessories.

**MGS-E34 WATER AND SOIL ANALYSIS KIT (6 parameter)**

3 ½ digit LCD display covering 6 parameters: pH, Conductivity, TDS, Dissolved oxygen & Temperature, Complete with accessories. (without ORP electrode)

**MGS-E35 WATER AND SOIL ANALYSIS KIT (5 parameter)**

3 ½ digit LCD display covering 6 parameters: pH, ORP, Conductivity, TDS & Temperature. Complete with accessories. (without ORP electrode)

**MGS-E36 WATER & SOIL ANALYSIS KIT (4 parameter)**

3 ½ digit LCD display covering parameters: pH, ORP, conductivity, Temp. Complete with accessories. (without ORP Electrode)

**OPTIONAL:**

- a) ORP Electrode
- b) Temp. Probe

**CONDUCTIVITY METERS**

**MGS-E37 MICROPROCESSOR BASED CONDUCTIVITY/TDS TEMP. METER**

Alphanumeric 16x2 LCD display having auto temperature compensation, Digit cell constant adjustment, conductivity cell & temp. probe data can be printed via RS232 port.

**MGS-E38 MICROPROCESSOR BASED CONDUCTIVITY/ TEMP. METER**

Alphanumeric 16x2 LCD display having auto temperature compensation, Digit cell constant adjustment, conductivity cell & temp. probe.

**MGS-E39 MICROPROCESSOR BASED CONDUCTIVITY/ TEMP. METER (Portable)**

Alphanumeric 16x2 LCD display having auto temperature compensation, Digit cell constant adjustment, conductivity cell & temp. probe.

**MGS-E40 DIGITAL CONDUCTIVITY METER**

3 ½ digit LED display with auto temperature compensation facility and digital cell constant adjustment along with conductivity cell and temperature probe.

**MGS-E41 DIGITAL CONDUCTIVITY AND TEMP. METER**

3½ digit LED display in 5 ranges along with conductivity cell, Digit cell constant display adjustment, facility for temp. compensation.

**MGS-E42 DIGITAL CONDUCTIVITY METER (Portable)**

ABS plastic cabinet with touch switches 3 ½ digit LCD display along with conductivity cell battery operated.



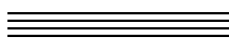
**MGS-E32**



**MGS-E37**



**MGS-E40**



## TDS / SALINITY METERS



MGS-E46

**MGS-E43 DIGITAL TDS METER**

3 ½ digit LED display with facility for temperature compensation and digital cell constant adjustment along with TDS cell (Table Model)

**MGS-E44 DIGITAL TDS METER (Portable)**

3 ½ digit LCD display in ABS plastic cabinet with touch switches. Battery operated.

**MGS-E45 DIGITAL SALINITY METER**

3 ½ digit LED display with salinity cell and other accessories (Table model) .

**OPTIONAL:**

- Conductivity Cell (Cell constant 1.0)
- Conductivity Cell (Cell constant 0.5)
- Conductivity Cell (Cell constant 0.1)
- Conductivity Cell stand
- Temperature Probe

**Note:** Conductivity, TDS and salinity meters are supplied with conductivity cell having cell constant of 1.0 approximately.



MGS-E47

## TITRIMETERS

**MGS-E46 AUTO KARL FISCHER TITRIMETER**

Having separate control and stirring units with array of 10 LED's buzzer, auto zero burette, adjustable timer, dual platinum electrode and other accessories.

**OPTIONAL:**

- Dual Platinum Electrode
- Burette Clear Glass (10ml)
- Titration Vessel
- Reservoir Bottle (500ml)
- Teflon Capsule
- Rubber Bellow



MGS-E48

## PYROGEN TESTING INSTRUMENTS

**MGS-E47 DIGITAL TELE THERMOMETER (6 Channels with probe)**

Optional : Veterinary probe for rabbit/rats each

## TURBIDITY / NEPHELOMETERS

**MGS-E48 MICROPROCESSOR TURBIDITY METER**

with 16x2 alphanumeric LCD display having two range up to 1000 JTU with memory of storage of 2 standard solution.

**MGS-E49 DIGITAL TURBIDITY METER**

3 ½ digit LED displays. Range up to 1000 NTU/JTU.



MGS-E49



**MGS-E50 DIGITAL TURBIDITY METER**

3 ½ digit LED displays. Range up to 200 NTU/JTU.

**MGS-E51 DIGITAL NEPHELO METER**

3 ½ digit LED display. Range up to 200 NTU

**OPTIONAL:**

- a) Test tube set of 5
- b) Spare lamp 6.8V, 0.3Amp.
- c) Photo Diode

**DISSOLVED OXYGEN METER**

**MGS-E52 DISSOLVED OXYGEN ANALYZER (Table Model)**

Cum Temperature Indicator along with speed regulated stirrer. Gold/silver DO probe and RTD temperature sensor (Table Model)

**MGS-E53 DIGITAL DISSOLVED OXYGEN METER**

3 ½ LED display along with Gold/Silver DO Probe (Table Model).

**MGS-E54 DIGITAL DISSOLVED OXYGEN METER (Portable)**

3 ½ digit LCD display in ABS plastic body, touch switches along with Gold/Silver DO probe.

**OPTIONAL:**

- a) Dissolved oxygen Probe (Gold/Silver)
- b) Aset of 10 DO Membranes

**COLONY COUNTER**

**MGS-E55 DIGITAL COLONY COUNTER**

4 digital LED display, Range 0-9999. with magnify glass & pen.

**Optional :**

- i) Spare Pen for colony counter
- ii) Magnified lens with stand



**MGS-E51**



**MGS-E55**

## **TERMS & CONDITIONS**

- PRICES : Prices are Ex-factory Ambala Cantt., Packing, Forwarding, Freight Insurance shall be charged Extra.
- TAXES : Sales Tax or any other Govt. Tax shall be charged extra as applicable at the time of supply.
- PAYMENT : 40 % advance payment with the orders and documents for balance through Bank or COD.
- WARRANTY : Warranty for M.G. Scientific Traders stands for 12 months from the date of dispatch.
- SPECIFICATION : All equipments are manufactured as per details given in the catalogue, but we reserve the right against change or modification in design and construction without notice. Hence the illustrations in the catalogue are not binding.
- BREAKAGE : Utmost care is taken in the packing of the material and so we do not undertake responsibility of breakage during transit.
- JURISDICTION : All disputes are subject to Ambala jurisdiction only.
- PRICE LIST : Prices are subject to change without prior notice.
- DELIVERY : 3-4 weeks after the receipt of orders or depends upon the volume of order.

**NOTE: WE RESERVES THE RIGHT TO SUPPLY THE ORDER IN FULL OR PART.**



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- Hand Grinding Mill ● Disintegrator ● Tablet Machine ● Tablet Coating Pan ● Ball Mill ● Polishing Pan
- Tablet Counter ● Tablet Friability Test Apparatus ● Collapsible Tube/ Capsule Filling Machine ● Ampule Washing
- Ampule Filling and Sealing ● Aspic Cabinet ● Clarity Test Equipment ● Sieves
- Suppository Moulds ● Ointment or Drug Spatula ● Tablet Triturate Moulds ● Rabbit Cage ● Rabbit Holder
- Animal Cage ● Water Bottle ● Pill Tile ● Mixing Vat with Stirrer ● Blender ● Filtration Apparatus
- Glass Crucibles ● Pestle & Mortar ● Balances ● Water Deionization/ Distillation Apparatus ● Millipore Filter Holder Assembly
- Weight Boxes ● Abbe/ Hand Refract Meters ● Polarimeters ● Automatic Model (College Type)
- Burette Clamps ● Boss Head ● Screw Clips ● Electrophoresis Apparatus Horizontal/ Vertical Model
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