

Laboratory Equipments

ULTIMATE LAB SOLUTIONS



PRODUCT CATALOGUE



Borolab



TRAY DRYER / OVEN

B/1001 - TRAY DRYER

Standard Double Wall Fabrication. Outer painted with hammer tone paint finish. The gap between the walls is fitted with special grade glass wool. Heavy duty force air blowers are provided to constantly circulate hot air to achieve uniform temperature in the chamber.

Kanthal wire, heating elements provided to attain quick and uniform heating in range of 50°C to 250°C $\pm 3^\circ\text{C}$, controlled by hydraulic type capillary thermostat.

An dial type thermometer is fitted for reading the unit chamber temperature. Equipment suitable to be working on 220V AC 50Hz single phase.

Chamber Size (mm) **Size are available:-** 48 Trays

430 x 840 x 650 mm
 430 x 840 x 910 mm
 910 x 840 x 910 mm
 960 x 1270 x 1440 mm
 960 x 1700 x 1700 mm

OPTIONAL :-

1. Timer 0-99 hours
2. Digital PID temp. indicator-cum-controller



B/1001

B/1002 - HOT AIR OVEN THERMOSTATIC

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 duly finished with white powder coating. The gap between the walls is fitted with special grade glass wool, provided with two or three removable shelves.

Kanthal wire heating elements provided on three sides attain quick and uniform heating in range of 50°C to 250°C $\pm 3^\circ\text{C}$ controlled by hydraulic type capillary thermostat.

An L- Shaped prismatic thermometer is fitted to the unit for reading the chamber temperature. Equipment suitable to be working on 220V AC 50Hz single phase.

Chamber Size (mm) Aluminium / S.S	(HxWxD) Inches	No. of Shelves	Cap. Litres
300x300x300	(12"x12"x12")	2	28
350x350x350	(14"x14"x14")	2	45
400x400x400	(16"x16"x16")	2	65
450x450x450	(18"x18"x18")	2	95
600x450x450	(24"x18"x18")	2	125
600x600x600	(24"x24"x24")	2	224
900x600x450	(36"x24"x18")	2	252
900x600x600	(36"x24"x24")	2	336
900x900x900	(36"x36"x36")	3	720

★ We also offer our range of Hot Air Ovens in complete SS construction

OPTIONAL :-

1. Air Circulating Fan
2. Timer 0-24 hours / Timer 0-99
3. Digital Temp. Indicator.
4. Digital temp. Indicator-Cum-Controller.
5. Microprocessor PID Digital temp.



B/1002

OVEN

B/1003 - HOT AIR OVEN DIGITAL

Specifications same as B/1002, but fitted with :-

1. Microprocessor digital PID temperature indicator cum controller with temperature accuracy + 0.5°C.
2. Fitted with air circulating fan for maintaining equal temperature throughout the chamber.

Chamber Size (mm) Aluminium / S.S	(HxWxD) Inches	No. of Shelves	Cap. Litres
300x300x300	(12"x12"x12")	2	28
350x350x350	(14"x14"x14")	2	45
400x400x400	(16"x16"x16")	2	65
450x450x450	(18"x18"x18")	2	95
600x450x450	(24"x18"x18")	2	125
600x600x600	(24"x24"x24")	2	224
900x600x450	(36"x24"x18")	2	252
900x600x600	(36"x24"x24")	2	336
900x900x900	(36"x36"x36")	3	720



B/1003

OPTIONAL :- Timer 0-99 hours

B/1004 - HIGH TEMPERATURE OVEN

Triple wall fabrication, inner chamber made of mild steel or highly polished stainless steel sheet. Exterior fabricated out of thick mild steel duly finished with white powder coating or other colour combinations. The gap between the walls is fitted with special grade glass wool for heat insulation. Provided with two or three removable shelves. Special elegant door closing device has been provided. Temperature range up-to 300°C is controlled by Dual display microprocessor PID digital temperature indicator cum controller & one air circulation fan.

Control panel is provided with selector switch of high or low rates of power, Temperature controller and indicators for mains and heat. Supplied with plug and chord. Equipment suitable to be working on 220V AC 50Hz single phase.

Chamber Size (mm) Aluminium / S.S	(HxWxD) Inches
300x300x300	(12"x12"x12")
350x350x350	(14"x14"x14")
400x400x400	(16"x16"x16")
450x450x450	(18"x18"x18")
600x450x450	(24"x18"x18")
600x600x600	(24"x24"x24")
900x600x450	(36"x24"x18")
900x600x600	(36"x24"x24")
900x900x900	(36"x36"x36")



B/1004

OPTIONAL :- Timer 0-24 hours

OVEN

B/1005 - DRYING OVEN INDUSTRIAL

Standard Double Wall Fabrication, inner & outer chamber made of thick mild steel sheet. Painted with hammer tone paint finish. The gap between the walls is fitted with special grade glass wool. Heavy duty forced air blowers are provided to constantly circulate hot air to achieve uniform temperature in the chamber.

Kanthal wire heating elements provided to attain quick and uniform heating in range of 50°C to 250°C \pm 3°C controlled by hydraulic type capillary thermostat.

An dial type thermometer is fitted to the unit for reading the chamber temperature. Equipment suitable to be working on 220V AC 50Hz single phase.

Chamber Size (mm)

- 900 x 600 x 600 mm
- 1200 x 900 x 900 mm
- 1500 x 900 x 900 mm
- 1800 x 1200 x 900 mm

OPTIONAL

1. Timer 0-99 hours
2. Digital PID temp. indicator- cum-controller



B/1005

B/1006 - LABORATORY OVEN

Standard Double Wall Fabrication, inner chamber made of mild steel or highly polished Stainless Steel sheet.

Exterior fabricated out of thick mild steel duly finished with white powder coating. The gap between the walls is fitted with special grade glass wool, provided with two or three removable shelves.

Internal Dimension MS / SS	(HxWxD) Inches	No. of Shelves	Watts
350x350x350	(14"x14"x14")	2	1250
450x450x450	(18"x18"x18")	2	2000
600x600x600	(24"x24"x24")	2	3000

OPTIONAL :-

1. Air Circulating Fan
2. Timer 0-24 hours / Timer 0-99
3. Digital Temp. Indicator.
4. Digital temp. Indicator-Cum-Controller.
5. Microprocessor PID Digital temp.



B/1006

★ We also offer our range of Hot Air Ovens in complete SS construction

OVEN

B/1007 - VACUUM OVEN

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. The body capable of withstanding vacuum of 760mm hg. Workable on 220VAC 50 Hz single phase. Supplied without vacuum pump.

Chamber Size in mm

Dia x Depth	Capacity. (Approx.)
250 x 300mm	12ltrs.
300 x 300mm	24ltrs.
300 x 500mm	40ltrs.

OPTIONAL :

1. Digital temp. Indicator-cum-Controller.
2. Digital Temp. Indicator.
3. Microprocessor PID digital temp. Indicator-cum-Controllr with timer.



B/1007

B/1008 - VACUUM OVEN 200°C, DOUBLE WALLED

Inside chamber made of S.S.316 Grade supplied with Vacuum Guage, Cock Toughned Glass window for observation, Digital Temperature Controller.

WORKING SIZE (ROUND DIA X DEPTH)	WATTS
22.5 X 30 Cms (9" x 12")	750
30 X 38 Cms (12" X 15")	1000
38 X 45 Cms (15" X 18")	1250
12" X 12" X 12"	
18" X 18" X 18"	
18" X 18" X 24"	



B/1008

B/1009 PORTABLE ELECTROD DRYING OVEN

Thermostatically Controlled, Round

WATTS	SIZE
1000	80 Ø mm dia
750	65 Ø mm dia



B/1009

B/1010 INCUBATORS 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 the chamber. Temperature range 5°C above ambient to 80°C ± 1° C controlled by a thermometer. The equipment is workable on 220 VAC 50 Hz single phase.

Chamber Size (mm) Aluminium / S.S	(HxWxD) Inches	No. Of Shelves	Capacity (approx.)
300x300x300	(12"x12"x12")	2	28
350x350x350	(14"x14"x14")	2	45
400x400x400	(16"x16"x16")	2	65
450x450x450	(18"x18"x18")	2	95
600x450x450	(24"x18"x18")	2	125
600x600x600	(24"x24"x24")	2	224
900x600x450	(36"x24"x18")	2	252

OPTIONAL :

1. Air Circulating Fan.
2. Timer 0-24 hours
3. Digital temp. Indicator-cum-Controller.
4. Microprocessor PID digital temp. Indicator-cum-Controller with timer.
5. Digital Temp. Indicator.



B/1010

INCUBATOR

B/1011 - ORBITAL SHAKING INCUBATOR CUM-B.O.D 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 controller with light arrangement. Variable speed control regulator controls the speed up to 200rpm supplied complete to work on 220V AC 50Hz single phase. Capacity 16x500ml conical flasks.

Capacity 16x500ml. Flax temp. 5° above ambient to 60° C.
Same as PSAW-109 but temperature range 5° C to 60° C with Lighting Arrangement to hold 16 flasks 250ml or 500ml

OPTIONAL :

1. Timer 0-24 hours day night cycle.
2. Digital temp. Indicator-cum-Controller.
3. Microprocessor PID digital temp. Indicator-cum-Controller with time.
4. Automatic Voltage stabilizer 3KVA (recommended must).



B/1011

B/1012 - B.O.D. INCUBATOR

B.O.D. Incubator Inside Chambers S.S., Outer M.S. with magnetic Gasket & full length Glass Door. Digital Temperature Controlled for cooling & Heating. System with refrigeration forced air circulation system. Temperature Range 5°C to 60°C / Accuracy ±0.5 C (GMP MODEL ON REQUEST).

WORKING SIZE	INNER CHAMBER	SHELVES
3 Cu. Ft. (090 Ltr.)	45 x 45 x 45	2
6 Cu. Ft. (165 Ltr.)	70 x 50 x 50	2
10 Cu. Ft. (280 Ltr.)	100 x 55 x 55	3
12 Cu. Ft. (340 Ltr.)	100 x 60 x 60	3
18 Cu. Ft. (440 Ltr.)	115 x 65 x 65	4



B/1012

B/1012/B - B.O.D. INCUBATOR

Temperature range 5°C to above ambient temp to 60°C, controlled by digital temperature controller but without humidity arrangement.

Available Sizes (WxHxD)
1.1 x 2.3 x 1.1 meter

B/1012/C - B.O.D. INCUBATOR

Temperature range 10°C to 60°C. With controlled humidity up to 95%±5%.

Available Sizes (WxHxD)
1.1 x 2.3 x 1.1 meter

B/1013 - EGG. INCUBATOR

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° C is controlled by "EGO" / "JUMO" German capillary type thermostat with an accuracy of ± 0.5° C. The Unit is provided with metal tilting device, so as to tilt the tray holding the eggs. To work on 220/230 volts A.C. supply.



B/1013

INCUBATOR / SEROLOGICAL WATER BATH

B/1014 - 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 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 $5^{\circ}\text{C} \pm 0.5^{\circ}\text{C}$. 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 within 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 220VAC Hz single phase.

Chamber Aluminium / S.S

Inner Chambers Size in mm W x D X H	Capacity in Cu.ft.	Capacity
455x410x610	4cu.Ft.	112ltrs.
505x415x830	6.1cu.ft.	171ltrs.
565x565x865	10 cu.ft.	280ltrs.
650x580x900	12 cu.ft.	336ltrs.
700x650x900	15 cu.ft.	420ltrs.



B/1014

OPTIONAL :

1. Timer 0-24 hours day night cycle.
2. Digital temp. Indicator-cum-Controller. Internal illumination with 3 fluorescent tubes.
3. Co2/air mixer nozzle is provided. Microprocessor PID digital temp. Indicator-cum - Controller with digital
4. Automatic Voltage Stabilizer 3-5 KVA

B/1015 - SEROLOGICAL WATER BATH (THERMOSTATIC)

Temperature range from ambient temperature to 80°C . Thermostatic control with accuracy of $\pm 0.5^{\circ}\text{C}$ to 1°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)	Cap. (Approx)
300x175x175mm (Suitable for 1 racks)	12ltrs.
300x250x175mm (Suitable for 2 racks)	14ltrs.
375x300x175mm (Suitable for 4 racks)	18ltrs.
455x300x175mm (Suitable for 6 racks)	25ltrs.
605x300x175mm (Suitable for 8 racks)	32ltrs.



B/1015

OPTIONAL :

1. Digital temp. Indicator –cum-Controller.
2. stainless stirring rod and blade.
3. Microprocessor PID digital temp. Indicator – Cum-controller with timer
4. Stirrer with 1/20 H.P. High speed motor with Digital Temp. Indicator.

WATER BATH / OIL BATH

B/1016 - WATER BATH RECTANGULAR (DOUBLE WALL)

(Thermostatic Control)

Temperature range from ambient temperature to 95° 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 230/230 volts A.C.

Size inside Chamber (Stainless Steel) Capacity (Approx.)

300x250x100mm	6 holes of 75mm dia.	8ltrs.
355x405x100mm	12 holes of 75mm dia.	15ltrs.

OPTIONAL :

1. Digital temp. Indicator-cum-Controller.
2. Microprocessor PID digital temp. Indicator- Cum-Controller with timer
3. Stirrer with 1/20H.P. High Speed motor with Stainless steel stirring Rod and blade.



B/1016



B/1016/A

B/1016/A - WATER BATH RECTANGULAR (DOUBLE WALL)

SIZE	HOLES
A. 14" X 10" X 4" (350 X 250 X 100mm)	6
B. 16" X 12" X 4" (400 X 300 X 100mm)	12

B/1016/B - WATER BATH RECTANGULAR (DOUBLE WALL)

SIZE	HOLES
A. Inner Chamber made of SS / Outer Body made of MS 14" X 10" X 4" (350 X 250 X 100mm)	6
B. Inner Chamber made of SS / Outer Body made of MS 16" X 12" X 4" (400 X 300 X 100mm)	12



B/1016/B

B/1017 - 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 Chamber (Stainless Steel) Capacity (Approx.)

350x250x100mm	6 holes of 75mm dia.	8ltrs.
355x405x100mm	12 holes of 75mm dia.	15ltrs.



B/1017

B/1018 - WATER BATH PRECISION (CONSTANT TEMP. CONTROL)

Construction is as per BDI-57. But with glass windows on both opposite sides for observation. Temperature controlled by mercury contact the thermometer with an accuracy 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

425x250x225mm	(17"x10"x9")
450x375x375mm	(18"x15"x15")
600x450x450mm	(24"x18"x18")

OPTIONAL :

1. Digital temp Indicator-cum-Controller instead of contact thermometer.
2. Microprocessor PID digital temp. Indicator- cum-Controller instead of Constant thermometer with timer



B/1018

B/1019 - ULTRA SONIC BATH

Chamber Size

A. 9" x 5" x 2.5"	1.6 Liter
B. 12" x 6" x 4"	3.6 Liter
	Cap. 6 ltr.
	Cap. 9 ltr.



B/1019

WATER BATH / OIL BATH

B/1019/A - BATH (DOUBLE WALL) WITH CUP & SLEEVES

Thermostatically controlled. Double walled with cups and selves for glass tubes. Temperature upto 95°C with an accuracy of + 0.5°C to + 1°C. Stainless steel.

A. 4 cups & 6 sleeves. B. 6 cups & 8 sleeves. C. 12 Cups & 14 sleeves.



B/1019/A

B/1020 - OIL BATH (ELECTRIC ROUND FOR ROUND BOTTOM FLASK)

DOUBLE WALL Out Side MS & Inside Stainless Steel
THERMOSTATICS CONTROLLED / DIGITAL CONTROLLED

	CAP.	WATTS
A.	2 Ltr.	1250
B.	5 Ltr.	2000



B/1020

B/1021 - 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 220V.A.C. without Thermometer.

DIA	DEPTH	DIA	DEPTH
A. 200mm	x 75mm	B. 250mm	x 125mm



B/1021

B/1022 - 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 is controlled by a thermostat. Supplied complete with stirrer, diffuser shelves, cover etc.

Chamber Size A. 250x250x250mm B. 300x300x250mm C. 350x350x250mm
(10"x10"x10") (12"x12"x10") (14"x14"x10")

OPTIONAL :

1. Mercury contact thermometer and relay with accuracy better than 1°C.
2. Digital temp. Indicator-cum-controller.
3. Microprocessor PID digital temp. Indicator-cum- Controller with timer
4. Digital Temp. Indicator.



B/1022

B/1023 - 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 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 220 v AC 50 Hz single phase.

Chamber Size in mm & Inches	Capacity (Approx.)
A. 300x225x175mm (12"x9"x7")	14ltrs.
B. 450x300x175mm (18"x12"x7")	25ltrs.

OPTIONAL :

1. Stirring arrangement with Stainless Steel rod & blades.
2. Digital temp. Indicator.
3. Digital temp. Indicator-cum-Controller.
4. Microprocessor PID digital temp. Indicator-cum-Controller

B/1024 - OIL / WATER BATH (INDUSTRIAL PURPOSE)

MS / SS Single wall with Oil Immersion Heaters, Heating & Cooling arrangements, Electric Control Box & Powder Coated three phase. Also available with Digital Temperature Controller & Flame-Proof.

SIZE	WATTS
10 Ltr	(2 x 1000 W)
20 Ltr	(2 x 1500 W)
50 Ltr	(2 x 3000 W)
100 Ltr	(2 x 4000 W)
200 Ltr	(2 x 5000 W)
300 Ltr	(2 x 7000 W)



B/1024

REFIGERATION-LIQUID BATH / WATER STILL

B/1025 - CONSTANT TEMPERATURE REFIGERATION-LIQUID BATH

Standard double wall construction. Inner chamber made out of thick highly polished stainless Sheet. Temperature range 5°C to 90°C and controlled by a sensitive mercury contact thermo-meter with accuracy of $\pm 1^\circ\text{C}$. Fitted with a stirrer, and FHP pump for circulating the cold liquid To the external equipment.

Chamber size	Capacity (Approx.)
500x250x250mm	32ltrs.



B/1025

B/1026 - 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	Capacity (Approx.)
450x300x300mm	42ltrs.

B/1027 - WATER BATH INCUBATOR SHAKER (METABOLIC SHAKING INCUBATOR)

Temperature range from ambient to 90oC this is double walled unit inside made of thick S.S. Sheet and outside M.S. Powder Coated, supplied complete with shaking tray, water bath cover to work on 220 volt 50 Hz. A.C. Supply.

Shaking Tray Size (Stainless Steel)	Capacity (Approx.)
275x275x150mm	12ltrs.
405x300x150mm	18ltrs.

OPTIONAL :

1. Digital temp. Indicator.
2. Digital temp. Indicator-cum-Controller.
3. Microprocessor PID digital temp. Indicator-cum-Controller.
4. Shaking tray for 25ml, 50ml, 100ml, 250ml 500ml And 25mm
5. Dia.test tubes or Conical flasks.



B/1027

B/1028 - WATER STILL (Alluminium Vessel, MANASTY TYPE)

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.)

1. Output approx. 2 liters per hour.
2. Output approx. 3 to 4litres per hour.
3. Output approx. 5 to 6litres per hour.

B/1028/A - WATER STILL (S.S. Casting, MANASTY TYPE)

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



B/1028/A

WATER STILL / FURNACE

Output Capacity (Approx.)

1. Output approx. 2 liters per hour.
2. Output approx. 3 to 4litres per hour.
3. Output approx. 5 to 6litres per hour.

B/1029 - WATER STILL (BARNSTEAD TYPE) TABLE TOP

S.S. DOUBLE WALL BODY

Output Capacity (Approx.)

1. Output approx.8 to 9lites per hour
2. Output approx.15 to 16litres per hour
3. Output approx. 25 to 26liters per hour



B/1029

B/1030 - 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 220VAC 50Hz single phase.

Inner Muffle size in mm & inches

1. 225x100x100 (9"x4"x4")
2. 250x125x125 (10"x5"x5")
3. 300x125x125 (12"x5"x5")
4. 300x150x150 (12"x6"x6")
5. 300x200x200 (12"x8"x8")
6. 350x175x125 (14"x7"x5")
7. 475x175x125 (19"x7"x5")
8. 450x225x225 (18"x9"x9")

OPTIONAL :

1. Digital temp. Indicator-cum-Controller instead of energy regulator and pyrometer.
2. Microprocessor PID digital temp. Indicator-cum-Controller Instead of energy Regulator, pyrometer.



B/1030

B/1031 - MUFFLE FURNACE 1200°C (INDUSTRIAL)

The Furnace is insulated the 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.

Inner Muffle size in mm & inches

- 225x100x100mm (9"x4"x4")
- 250x125x125mm (10"x5"x5")
- 300x150x150mm (12"x6"x6")
- 300x200x200mm (12"x8"x8")
- 450x225x225mm (18"x9"x9")

OPTIONAL :

1. Microprocessor PID digital temp. Indicator-cum-Controller instead of energy regulator, pyrometer.



B/1031

B/1031/A - SPARE MUFFLE WOUNDED WITH HEATING ELEMENT

Made from nichrome 80/20wire

SIZE	930°C / 1150°C
(9"x4"x4")	
(10"x5"x5")	
(12"x6"x6")	
(12"x8"x8")	
(18"x9"x9")	



B/1031/A

HEATING MANTLE

B/1032 - HEATING MANTLE SINGLE SIZES

It with stands high temperature up to 350°C. The body of the mantle is spun in one piece from non-rusting aluminum (Up to 300.0 liters capacity) duly finished 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.

A. Strong painted Aluminum housing. B. Maximum Glass wall insulation to Prevent Loss of Heat.

C. Mantle knitted from fiber glass yarn. D. Element Temp. 450 C Built in Energy Regulator.

CAPACITY	RATING WATTS	CIRCUITS	VOLTS
50 MI	60	1	230
100 MI	60	1	230
250 MI	150	1	230
500 MI	200	1	230
1 Liter	300	1	230
2 Liter	450	1	230
3 Liter	450	1	230
5 Liter	600	1	230
10 Liter	2 X 500	2	230
20 Liter	3 X 600	3	230
50 Liter	6 X 600	3	440
100 Liter	6 X 900	3	440
200 Liter	9 X 900	3	440
300 Liter	16 X 800	3	440



B/1032

B/1033 - REPLACEMENT (HEATING ELEMENT)

This Consists of Fiber Glass Knitted Portion with Heating Element attached. Can be easily fit to Mantles.

FOR SINGLE SIZE HEATING MANTLE CAPACITY

50 MI
100 MI
250 MI
500 MI
1 Liter
2 Liter
3 Liter
5 Liter
10 Liter
20 Liter
50 Liter
100 Liter
200 Liter
300 Liter

SINGLE SIZES



B/1033

B/1034 - HEATING MANTLE MULTI SIZE / BOTTOM OUT-LET

MULTI SIZE	RATING WATTS	VOLTS
25 - 250 ML	150	230
50 - 500 ML	200	230
250 - 1 Liter	300	230
250 - 2 Liter	350	230
500 - 3 Liter	500	230
1 - 5 Liter	600	230
3 -10 Liter	2 x 500	230
3 -20 Liter	3 x 600	230



B/1034

HEATING MANTLE / HOT PLATE

B/1035 - CONTROL UNIT

With Receiving One Energy Regulator 5 Amp. x 15 Amp. Socket with Receiving Two Energy Regulator, Two Lamp & Two Socket 5 & 15 Amp., Three Phase Contro Box.



B/1035

B/1036 - HEATING TAPES

- Standard Loading of 2 - 5 Watts per Sq. Inch.
- Completely Flexible & are applied by winding it around the body to be heated.
- Fully Insulated & can laid on MS, SS Tubes, Valves, Nozzles etc. Provided with unheated Load in Flexible Wires.
- Terminating in a connection.

LENGTH INCHES APPROX.	WIDTH INCHES	WATTS
24	1	60
36	1	90
48	1	120
60	1	150
24	2	120
36	2	180
48	2	240
60	2	300
72	2	360
250 Cms	25mm	250
500 Cms	25mm	1000



B/1036

B/1037 - ELECTRIC HOT PLATES

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 if firmly mounted on the body. Heavy duty heating elements are securely layed under the plate to operate on 220VAC single phase. Temp is controlled by a three heat rotary switch//energy regulator as per demand.

MADE OF CAST IRON, BODY IS OF THICK MILD STEEL PAINTED WITH ATTRACTIVE COLUR, ROUND SHAPE 230 VOLTS.

SIZE ROUND	RATING
4" Dia	300 Watts
8" Dia	1.2 K.W.
9" Dia	1.5 K.W.
12" Dia	1.7 K.W.



B/1037 - M.S

MADE OF S.S. (PLATE IN S.S.) AND S.S.BODY

SIZE ROUND	RATING
8" Dia	1.2 K.W.
9" Dia	1.5 K.W.
12" Dia	1.7 K.W.



B/1037 - S.S.

B/1037/B - RECTANGULAR HOT PLATES

Thermostatically controlled with energy regulator & 3 heat control switch only.

* PLATES IN MS / SS

SIZE	WATTS
12" X 10" (30 Cm X 25 Cm)	1 K.W.
16" X 10" (40 Cm X 25 Cm)	1.2 K.W.
18" X 12" (45 Cm X 30 Cm)	2 K.W.
24" X 18" (60 Cm X 45 Cm)	3 K.W.



B/1037/B

B/1038 - HOT PLATE TYPE SOXHLT (HOT PLATE SIZE 4" DIA)

FLASH CAPACITY	NO. OF FLASK	NO. OF REGULATOR	NO. OF SWITCH	TOTAL WATTS
Upto 0 / 500 MI	6	6	-	1500
Upto 0 / 500 MI	3	3	-	750



B/1038

SEED GERMINATOR / HUMIDITY CHAMBER

B/1039 - SEED GERMINATOR (SINGLE CHAMBER)

Temperature range 5°C to 50°C. Temperature controlled by Digital temperature indicator cum controller in the variation of $\pm 1^\circ\text{C}$. Chamber with 14 perforated trays. Chamber is provided with stainless steel water reservoir at bottom. Humidity from 90 to 95% $\pm 3\%$ (Not adjustable) double-walled inside made of anodized aluminum /stainless steel and outside Mild steel painted in epoxy powder coating. To work on 220/230volts 50 cycles A.C. Only.

Chamber of highly polished S.S. Capacity

555(W) x 910(H) x 605(D)mm 308 Ltrs.

OPTIONAL :

Automatic 0-24 hour's timer to regulate cyclic illumination conditions.
Automatic voltage Stabilizer 3KVA (recommended).



B/1039

B/1040 - SEED GERMINATOR (DUEL CHAMBER)

Each Chamber size 555(W)x910(H)x 605(D)mm
Heating and cooling in both chamber and chamber made of stainless steel sheet.

OPTIONAL :

Automatic 0-24 hour's timer to regulate cyclic illumination conditions.
Automatic voltage Stabilizer 5KVA (Recommended).



B/1040

B/1041 - HUMIDITY CHAMBER

Temperature range ambient temperature to 60°C. Temperature controlled by a hydraulic thermostat with an accuracy of $\pm 1^\circ\text{C}$ with built-in horizontal 'L' shape thermometer. The humidity is controlled by humidistat from atmospheric humidity to 95% with a sensitivity of $\pm 3\%$. 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 (W x D x H)	Cap.(Approx.)	Inner S.S.
---------------------------------	---------------	------------

455x455x455mm	95ltrs.	
455x455x710mm	147ltrs.	
605x605x605mm	225ltrs.	
605x605x910mm	335ltrs	

OPTIONAL :

Hygrometer (Humidity Indicator.)
Digital Temp. Controller-cum-Indicator.
Microprocessor PID digital temp. Indicator-cum-Controller.
Automatic electronic controller with digital display For Temp. & Humidity combined.
Automatic voltage Stabilizer 3 KVA (Recommended)



B/1041

HUMIDITY CHAMBER / PLANT GROWTH CHAMBER

B/1042 - ENVIRONMENTAL CHAMBER HUMIDITY CHAMBER

(Digital Temperature Controller)

General specification as BDI-83 but with added specification for low temp. Control & humidity. The 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.

Chamber inside chamber (WxDxH) Inner S.S.

- 455x455x455mm
- 455x455x710mm
- 605x605x605mm
- 605x605x910mm

Capacity (Approx.)

- 95ltrs.
- 147ltrs.
- 225ltrs.
- 335ltrs.



B/1042

OPTIONAL :

- Hygrometer (Humidity Indicator.)
- Digital Temp. Controller-cum-Indicator.
- Microprocessor PID digital temp. Indicator-cum- Controller.
- Automatic electronic controller with digital display For Temp. & Humidity combined.
- Automatic voltage Stabilizer 3 KVA (Recommended).

B/1043 - PLANT GROWTH CHAMBER (SMALL)

Inside made of stainless steel sheet. Outside 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 ± 1C 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 temperatures 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 humidistat. Complete with 0-24 hrs. Timer to work on 220/230 volts 50 cycles A.C. Only.

Chamber inside chamber (WxDxH) Inner S.S

- 570x875x550 mm
- 775x900x775mm
- 835x1200x825mm
- 900x1720x800mm

Capacity in cu. Ft.

- 10cu.ft
- 20cu.ft.
- 30cu.ft.
- 45.8cu.ft.

Capacity (Approx.)

- 280ltrs.
- 560ltrs.
- 840ltrs.
- 1282ltrs.



B/1043

OPTIONAL :

- Electronics Digital Indicator cum-Humidity controller and temperature Controller.
- Microprocessor PID digital temp. Indicator-cum-Controller.
- Automatic voltage stabilizer (recommended).

AUTOCLAVES

B/1044 - AUTOCLAVE LABORATORY (PORTABLE)

Suitable for general laboratory use and sterilization. Stainless steel or aluminium vertical body. Pressure range 15 psi. Domed cover can be sealed by joint-less gasket which is clamped to the vessel by wing nuts by hinged bolts which engage slotted lugs on rim of the cover. Provided with dial pressure gauge. Spring loaded safety value has threaded cap for pressure adjustment. Supplied complete with plug & cord us suitable to work on 220V AC 50Hz single phase.

Sizes : Dia x height in mm Aluminium & S.S.

300 x 300mm (Seamless)
 300 x 375mm (Joined)
 300 x 500mm (Jointed)



B/1044

B/1045 - AUTOCLAVE (CYLINDRICAL) (TRIPLE WALLED)

Cylindrical (triple walled) inner/outer chamber made of thick S.S fitted with automatic pressure control switch and automatic low water level cut off device. Lid made of S.S with radial lock to work on 440 volts 3 phase supply.

Chamber Size in Dia x Depth	Load	Capacity (Approx.)
400X600mm	6KW	78ltrs
400x1100mm	9KW	162ltrs
500x900mm	9KW	165ltrs.
500x1200mm	9KW	221ltrs.



B/1045

B/1046 - AUTOCLAVE (VERTICAL) DOUBLE WALLED

A versatile, electrically heated sterilizer under saturated steam of adjustable pressure of 10 to 20 psi. Double walled construction with boiler & steam jackets made of thick stainless steel. The outer Chamber is made our of thick mild steel/stainless steel. The lid is made out of thick stainless steel plate (Joint less) or gunmetal and can be sealed by a joint less neoprene rubber gasket by wing nuts through hinged bolts by engaging slotted lugs on rim of the cover. Provided with dial pressure gauge, air/steam release cock, spring loaded safety value adjustable to any required point from 10 psi to 20 psi with accuracy ± 3 psi. All autoclaves are fitted with standard accessories, such as, a drain cock, pressure gauge, steam release cock, spring loaded safety value and heating element, but supplied without dressing bins.

Inner & Outer M.S/S.S.

Chamber Size in Dia x Depth	Load	Capacity Approx.
250x450mm	2KW	22ltrs.
300x500mm	3KW	40ltrs.
350x550mm	4KW	50ltrs.
400x600mm	5KW	78ltrs.
450x600mm	5KW	98ltrs.
550x750mm	6KW	152ltrs

OPTIONAL :

Automatic low-water level cut off-device.
 Pressure Control Switch.
 Water level arrangement.
 Dressing bins for various size.
 Radial Lock
 Digital temp. Indicator.



B/1046

AUTOCLAVES / DEEP FREEZER

B/1047 - AUTOCLAVE (VERTICAL) DOUBLE WALLED (RADIAL LOCK S.S.)

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, pedal lifting device and S.S. basket. Supplied complete with cord and plug to work on 220/440 volt A.C. Supply. And supplied without dressing bins.

Radial Lock Inner Outer S.S.

Chamber Size in Dia x Depth	Load	Capacity (Approx.)
250x450mm	2KW	22ltrs.
300x500mm	3KW	40ltrs.
350x550mm	4KW	50ltrs.
400x600mm	5KW	78ltrs.
450x600mm	5KW	98ltrs.
550x750mm	6KW	152ltrs.

OPTIONAL :

Automatic low-water level cut off-device.
Pressure control Switch.
Dressing bins of various Size.



B/1047

B/1048 - DEEP FREEZER (CHEST TYPE & 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 models are supplied in a single compartment where as vertical models are supplied with three stainless steel storing shelves.

Capacities	Vertical / Horizontal
4 cuft.	375x500x605mm
6cuft.	505x410x830mm
10cuft.	570x550x875mm
12cuft.	650x580x900mm

OPTIONAL :

Supplied with Automatic Voltage Stabilizer.



B/1048

B/1048/A - DEEP FREEZER

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 models are supplied in a single compartment where as vertical models are supplied with three stainless steel storing shelves.

Capacities	Vertical / Horizontal
4 cuft.	375x500x605mm
6cuft.	505x410x830mm
10cuft.	570x550x875mm
12cuft.	650x580x900mm



B/1048/A

FUME HOOD / DE - HUMIDIFIER

B/1051 - FUME HOOD

Fabricated out of thick wooden board. It is designed so as to throw-out all toxic/harmful vapors & fumes thus protecting costly instrument 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 3'x2'x2' 4'x2'x2' 5'x2½'x2½'

MOC : M.S / S.S / Wooden

OPTIONAL :

High CFM exhaust System (For duct exceeding 10 feet)

S.S Lining on work bench.

PVC Fume Duct (Per ft.)



B/1051

B/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 is collect condensate water. Humidity is controlled by HUMIDITY CONTROLLER is incorporated in the unit, up to 30% ± 30% 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 220/230volts A..C. Supply.

Capacities : 1.5 Tons

Capacities : 2 Tons

B/1052/A - 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 is collect condensate water. Humidity is controlled by HUMIDITY CONTROLLER is incorporated in the unit, up to 30% ± 30% 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 220/230volts A..C. Supply.

Capacities : 1.5 Tons

OPTIONAL :

Automatic Voltage Stabilizer 4.0KVA.(Recommended)



B/1052

HUMIDIFIER / ELECTRONIC INSTRUMENTS

B/1053 - HUMIDIFIER

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

Capacities: 3 Liters

OPTIONAL :

Contort box with Humidistat for controlling humidity.

ELECTRONICS INSTRUMENTS

B/001 - DIGITAL pH METERS

Micro controller based Ph/Temperature/mv Meter a research grade 1 instrument with 16 x 2 alpha numeric LCD display having auto temperature compensation, auto buffer recognition along with accessories. Its features include 3 point calibration. Data Storage facility upto 1000 samples, complete with pH electrode, temperature probe, electrode stand, dust cover & instructions manual. Computer interface through USB



B/001

B/002 - AUTO DELUX PH METER WITH AUTOMATIC TEMP.

Compensation, ph electrode and RTD probe 3 ½ digit LED display Useful for pH and Redox Potential measurements Range 0.00 to 14.00 Touch Button Calibrations Table Model



B/002

B/003 - AUTO DIGITAL PH METER WITH MANUAL TEMP.

Compensation and combination pH electrode, 3½ digit LED display. Useful for pH and Redox Potential measurements. Range 0.00 to 14.00 Touch Button Calibration (Table Model)



B/003

B/004 - PORTABLE PH METER "HANDY"

3½ digit LCD display in ABS Plastic body, touch switches with combination pH electrode.



B/004

B/005 - DIGITAL PH, CONDUCTIVITY & TEMP. METER

for measurement of Ph Conductivity & Temp 3½ digit LED Display with PH Combination electrode Conductivity Cell and Temperature probe Table Model



B/005

B/005/A - DIGITAL PH CUM TEMP. METER

For measurement of pH & temperature 3½ digit LED display with pH combination electrode and temperature probe (Table Model)

ACCESSORIES ON REQUEST

PH Combination Electrode (0-14 pH)
Electrode Stand.
Temperature Probe

DIGITAL SPECTRO PHOTOMETER

B/006 - VARIABLE BANDWIDTH

Double Beam Microprocessor UV-VIS Spectrophotometer Range 190-1100 nm, fully automatic operations, automatic wavelength calibration & wave length scan, automatic peak picking & spectrum display. Large screen with graphic display. Spectrum and data can be printed out by printer and sent to computer via USB port. Software included (Imported).



B/006

B/007 - DIGITAL SPECTRO METER (DOUBLE DISPLAY)

Digital Spectrophotometer (Double Display) Range 340-960 nm . with facility for automatic concentration, % Transmission and absorbance measurements. 3½ digit data display, separate 3 digit LED display for Wavelength in nm with 1 nm wavelength resolution. Equipped with a set of 2 Cuvettes.



B/007

B/007/A - DIGITAL SPECTRO METER (DOUBLE DISPLAY)

Digital Spectrophotometer (Double Display) Range 340-960 nm with facility for automatic concentration, % Transmission and absorbance measurements. 3½ digit data display, separate 3 digit LED display for Wavelength in nm with 1 nm wavelength resolution. Provision for 10mm & 50mm path length Cuvettes. Provided with set of 10mm & 50mm path length Cuvettes.



B/007/A

B/007/B – DIGITAL SPECTRO METER (DOUBLE DISPLAY)

Digital Spectrophotometer (Double Display) Range 340-960nm with facility for automatic concentration, % Transmission and absorbance measurements. 3½ digit data display, separate 3 digit LED display for Wavelength in nm with 1 nm wavelength resolution. Provision for 10mm, 50mm & 100mm path length cuvettes. Provided with set of 10mm, 50mm & 100mm path length cuvettes.

ACCESSORIES ON REQUEST

- Set of 2 Cuvettes (50 mm)
- Set of 2 Cuvettes (10 mm)
- Spare Lamp 6v, 10 w

B/008 - MICROPROCESSOR SPECTROIPHOMETER VISIBLE SINGLE BEAM

Microprocessor Spectrophotometer Visible Single Beam with range 320-1020nm and facility for Auto Concentration, % Transmission, Absorbance and K factor measurement. It has 3½ Bright LCD display for data. Its sample holder accomodates glass cuvettes of 10 to 50mm path length. Facility has been provided for unlimited sample data storage and interface for any printer through RS232C. A set of 4 glass cuvettes of 10mm path length is provided. Including software.



B/008

CENTRIFUGE

B/009 – MINI CENTRIFUGE - MAX SPEED 10000 rpm

MODEL : SPIN-TOP

Micro processor controlled Micro -Centrifuge Machine (Mini Centrifuge) speed 1000 to 10000

Technical Specification

R.P.M in step of 1000 rpm. fitted with 0-15 minute electronic digital timer. Supply completed with 2 Standard rotors means

- (i) 6 micro centrifuge of 1.5ml capacity (PSAWT-01)
- (ii) 12 micro centrifuge tubes of 0.5ml capacity (PSAWT-02)

To work on 220 volts 50 Hz AC.

- * Quiet & reliable
- * Small foot print
- * Built in power supply
- * Digital display of time & RPM
- * High quality brushless motor

Spare Rotor at extra cost

Cat No	Description	Packing
PSAWT-1	Spin-Top	1

TECHNICAL DATA

Cat No	Description	Packing
PSAWT-01	6x1.5ml tubes	1
PSAWT-02	12x0.5ml tubes	1

Size	Weight	Size	Weight
R.P.M	RCF(xg)	R.P.M	RCF(xg)
1000	56	6000	2011
2000	223	7000	2737
3000	503	8000	3575
4000	894	9000	4524
5000	1396	10000	5585



B/009

B/010 – RO' CLINICAL CENTRIFUGE (BRUSHLESS)

The best model for clinical, pathological, Biochemistry and Pharmacy/Pharmaceutical Labs and to separate blood serum

* It is also most suitable for infertility labs where low speed is Recommended.

TECHNICAL SPECIFICATION

- * Bench Top Digital Centrifuge Machines.
- * The body is made of CRC sheet, finished in Powder coating.
- * See thru acrylic lid.
- * Digital Timer 0-99 minutes. * Digital display of speed (rpm).
- * Maximum speed 3000 r.p.m. (Without load) and 2850 rpm on load.
- * Supply is completed with 8x15ml Swing out head, instruction manual, spare fuses, cord & plug to work on 220volts 50 Hz A.C
- * Also supplied with 8 reduction adpoter to accept test tubes of size 12x100mm of borosil means 5ml capacity
- * Angle head of 8x15ml can also be supplied in place of swing out head.



B/010

SPECIAL FEATURES

- * Brush less Ac motor-(without carbons) No need to change the carbons as required in other centrifuges
- * Low in noise
- * Can run continuously upto 8 hrs.
- * Fitted with anti vibration pads.
- * Maintenance free Budget Priced.

CENTRIFUGE

B/011 - CENTRIFUGE MACHINE DIGITAL 5200 rpm.

- * General Purpose Laboratory Centrifuge Machine
- * Microprocessor based (LCD Display)
- * Heavy duty C.R.C construction finished with Powder coating
- * Fitted with well balanced universal motor
- * Digital timer of range 0-59 minutes
- * Digital Speed Indicator
- * Programmable speed regulator
- * Lid lock for safe drive

TECHNICAL PARAMETER :-

Max Speed	5200 rpm
Motor	Universal Motor
Power	AC 220V 50 Hz \pm 10%
Dimension of machine	L=415MM, W=360mm, H=305mm
Dimension of outer box	510 x 510 x 390 mm
Weight of Machine	21kg.approx, WEIght with box = 23.5Kg

Optional Accessories at extra Cost :

Electronic inter lid lock | Dynamic break | Imbalance detector Price of above machines are without Rotor Head which can be selected by customer as per their specific requirement at extra cost as under

Rotor Capacity	Rotor Types
16X15ml.	Swing Out Head
12x15ml	Swing Out Head
8x15ml.	Swing Out Head
6x50ml.	Swing Out Head
4x50ml.	Swing Out Head
16x15ml.	Angle Head
12x15ml.	Angle Head
8x15ml.	Angle Head
6x50ml.	Angle Head
4x50ml.	Angle Head
4X100ml	Angle Head
24X15ml	Angle Head

The above mentioned rotor heads are completed with S.S tube carriers suitable Glass/PVC centrifuge tubes head puller spanner and rubber cushions

Complete machine is packed in thermocol box further packed in corrugated box

- * Any special Rotor Head can be manufactured on customer's demand *
- Speed can be given up to 6000 rpm if specific requirement by an customer

Special Features :-

- * The lid is light in weight to avoid accident due to heavy weight metallic lids during operations
- * Very Stable *
- Low in noise *
- No vibrations
- * Fitted with anti vibration pads

B/012 - LABORATORY CENTRIFUGE BRUSHLESS MAXIMUM SPEED 6000

Fitted with maintenance free BLDC motor (without carbons) square MS body powder coated Hydraulic lid. Microprocessor based 4 lines 16 characters LCD display with 0-99 minutes countdown timer, digital rpm meter and preset programmable speed regulator . Also featured with dynamic brake Electronic lid lock imbalance detector 10 programme memory. 3 accelerations and 3 decelerations Price without rotor head Rotor can be selected at extra cost under from A TO K



B/011



B/012

CENTRIFUGE

TECHNICAL PARAMETER :-

- * Max. Speed 6000 r/min
- * Max.RCF 4390xg
- * Motor Brushless Motor
- * Noise =65dB
- * Power AC 220V 50 Hz 15A
- * Weight 35 kg.
- * Dimensions 530 x 420 x 350 (LxWxH)

Machine comes without rotor because individual customer require rotor as per his specific requirement hence price of rotors is coated separately (At extra cost)

Rotor Type	Rotor Capacity	Speed on Rotor (r.p.m)	R.C.F on Rotor
Swing bucket rotor	32x15ml	4000	2810xg

Most suitable for medical colleges clinical labs, where work load is very high

Rotor Type	Rotor Capacity
Swing Rotor	16x15ml
Angle Rotor	24x15ml
Swing Rotor	24x7ml
Angle Head	4x100ml
Swing out Head	6x50ml
Angle Head	16x15ml
Angle Head	8x15ml
Angle Head	6x50ml

SPECIAL FEATURES :

* Table Top * Brushless self Balancing Motor without carbons * High capacity Rotors

- * High Quality *
- High Performance
- 15 Vials/containers in Swing Out Head

B/013 - MICRO CENTRIFUGE 16000 rpm.

- * High speed Micro Centrifuge Max R.P.M. 16000 * Heavy duty plastic injection moulded body. * Stainless Steel protection bowl. * Fitted with well balance universal motor having long life with imported carbons. * Microprocessor based Digital Timer of range 0-15 min. with LCD display. * Preset speed controls thru microprocessor from 2000 to 16000r.p.m.

* Digital display shows Set Time/Run Time/R.P.M.

Supply completed with following accessories

- * Rotor Head to accommodate ependrof (Centrifuge Tubes with cover) of 1.5ml/2ml (12x1.5/2ml) * Reduction adaptors for 0.5ml ependrof (Micro centrifuge Tubes)

* Head Puller Spanner Dust Cover Instruction Manual Cord & plug to work on 220 volts 50Hz A.C

Optional at extra cost

- * Rotor head to accommodate 24 micro tubes
- * Any other size of rotor to accommodate micro centrifuge can be supplied at customer requirements

Special Features

- * Microprocessor based
- * Fitted with anti vibration pads
- * Motor remain cool even after running full time



B/013

CENTRIFUGE

B/014 - CENTRIFUGE HIGH SPEED (BRUSHLESS MOTORS)

- * High speed Micro Centrifuge
- * Heavy duty C.R.C Construction
- * Powder coated finish
- * Fitted with brushless automatic balanced motor
- * Digital Timer 0-99 minutes
- * Digital Speed Indicator
- * Digital R.C.F Indicator
- * Programmable speed regulator
- * Electronic Safety lid lock
- * Imbalance detector



B/014

select Rotor from below mentioned types

Rotor Type	Rotor Capacity	R.P.M. Speed Max.	RCF on Rotor
Angle Rotor	12 x 1.5/2 ml.	20000	27800 xg
Angle Rotor	24 x 1.5/2 ml.	16000	23200 xg
Angle Rotor	8 x 5 ml.	16000	23200 xg
Angle Rotor	6 x 15 ml.	13000	16800 xg
Angle Rotor	6 x 50 ml.	13000	16800 xg

Note: The speed of the machine depends upon the type of rotor being used. if rotor is heavy the speed will reduce as per above mentioned table.

SPECIAL FEATURES

- * Table Top Compact
- * Brushless self Balancing Motor without carbons
- * Ultra High speed
- * Microprocessor based
- * Low noise

B/015 - HAEMATOCRITE CENTRIFUGE

- * Haematocrite Centrifuge Machine, Max. speed 13000 r.p.m
- * Compact body which is made of plastic injection moulded.
- * Inner safety bowl made of stainless steel
- * Fitted with well balance universal motor having long life with imported carbons
- * Digital display shows Set time/ Run time /R.P.M.
- * Microprocessor based Digital timer of range 0-15 min with LCD display.
- * Preset speed controls thru microprocessor from 2000 to 13000 r.p.m.

Supply Completed with Following accessories

- * Micro Hematocrite rotor to accommodate 24 capillaries of 75mmx1mm or 12 capillaries
- * Heparinised capillary tubes 75mm longx1mm bore (pack of 100 Nos)
- * Non Heparinised Capillary tubes 75mm long x1mm bore (Pack of 100 Nos)
- * Reading device.

- * Sealing Wax 1tray



B/015

Haematocrite Centrifuge (Brushless) Mode "Borolab" - 15BLG

All specification are same as above but in this model the motor is Brushless (without carbon)

Note: Speed can also increased upto 16000 r.p.m. on the demand of customer.

CENTRIFUGE

B/016 - HIGH SPEED LABORATORY CENTRIFUGE MACHINE MAXIMUM SPEED 20000 rpm.

It is a high capacity high speed bench top Laboratory Centrifuge Machine. It has 4 lines 20 characters LCD Display Microprocessor based digital timer r.p.m meter and programmable speed regulator. Also featured with dynamic brake electronic lid lock imbalance detector 10 programme memory 3 acceleration and 3 decelerations max speed of machine is 20000 r.p.m Further speed depends upon the rotor being used with the machine **Price are without rotor**

Angle Head 12x1.5ml max speed on the head 20000 rpm.
 Angle Head 24x1.5ml max speed on the head 16000 rpm.
 Angle Head 6x50ml max speed on the head 13000 rpm.
 Angle Head 4x100ml max speed on the head 13000 rpm.
 Angle Head 8x15ml max speed on the head 13000 rpm.
 Angle Head 6x200ml max speed on the head 7000 rpm.
 Angle Head 8x100ml max speed on the head 7000 rpm
 Angle Head 12x50ml max speed on the head 7000 rpm



B/016

B/017 - REFRIGERATED MICRO CENTRIFUGE DIGITAL M. SPEED 1600 rpm.

- * Table Top refrigerated micro centrifuge machine. The temp from room temp upto minus 8°C is controlled by PID Electronic Digital Temp. Controller cum indicator.
- * Microprocessor based Digital Timer of range 0-15 min. with LCD display.
- * Preset speed controls thru microprocessor from 2000 to 16000 r.p.m.
- * Digital display shows Set Time/Run Time /R.P.M.
- * S.S. Bowl Size: 9" dia

Supply complete with following angle rotor heads to accommodate polypropylene micro Centrifuge tubes (Eppendorf Tubes as well)

Angle Rotor Head	Model No	Qty.
Angle Rotor Head Cap. 12 x 1.5/2ml.	Cat. No T-124	11

Adopters to accept 1.5ml Eppendorf micro-centrifuge tubes.
 Also supplied with head puller, spanner, 12 eppendorf Tubes of 2ml, 1.5ml capacity 12



B/017

Special Features

- * Microprocessor based Table Top Centrifuge
- * Compact and elegant design * Fitted with vacuum feet
- * CFC Free refrigerant
- * Centrifuge bowl made of Stainless steel

Any Special Head can also be manufactured and supplied as per customer's requirement Weight & Dimension can be changed without prior notice

B/018 - REFRIGERATED CENTRIFUGE MACHINE ALL PURPOSE 1600 rpm.

Digital microprocessor based max speed 16000 rpm Further speed depends upon rotor being used fitted with microprocessor based LCD panel for 0-59 minutes countdown timer digital rpm meter and programmable speed controller stand by temperature from -20°C to room temperature is controlled by microprocessor based digital temperature controller cum indicator working temperature from -8°C **Price are without rotor head**

Angle Rotor 12x1.5ml with adopters 0.5/0.2ml max speed 16000 rpm.
 Angle rotor 24x1.5/2.2ml with adopters 0.5/0.2ml max speed 13000 rpm
 Angle rotor 8x15ml made from special alloy with stand cooling and high speed max speed 7000 r.p.m
 Angle rotor 4x50ml made from special alloy with stand cooling and high Speed max speed 7000 r.p.m



B/018

OIL FREE ROTARY VACUUM PUMP

B/019 - OIL FREE VACUUM PUMP (SB.10)

The SB.10 pumps are equipped with:

- Protective filter at the inlet
- Silencer at the outlet

Limited weight and dimension are possible by the mono block industrial design type with the rotor directly assembled on the motor shaft.

Mainly built with light-weight alloy, they can be fitted in places where little room is available, but in which ventilation is good.

The cooling of the pump is ensured by the motor fan. The SB.10 pump can work as compressor up to a pressure 0.6 bar. We recommend fitting a pressure relief valve set at the proper pressure, to avoid damages to the electric motor or to the pump.



B/019 (SB.10)

Description	Unit	50 Hz	60 Hz
Nominal capacity	m ³ /h	10	12
Total final pressure (Abs)	mbar - hPa	120	120
Motor power	(1~/3~) KW	0.37 / 0.37	0.45 / 0.45
Nominal r.p.m	n/min	1400	1700
Noise level (UNI EN ISO 2151 - K 3dB)	dB(A)	64	66
Weight	(1~/3~) kg [N]	15.5 [152] / 14 [137]	15.5 [152] / 14 [137]
Pump intake / outlet		1/2" G / ---	1/2" G / ---
Operating temperature @ 20°C	°C	70 ÷ 75	80 ÷ 85
Required room temp. for place of installation	°C	0 ÷ 40	0 ÷ 40
Ambient temperature for storage / transport	°C	-20 ÷ 50	-20 ÷ 50
Max humidity / altitude		80% / 1000m s.l.m.	80% / 1000m s.l.m.

B/20 - OIL FREE VACUUM PUMP

Capacity	Motor
15 Litres	1/16hp
25 Litres	1/8hp
45 Litres	1/4hp



B/20

B/021 - VACUUM PUMP (SINGLE & DOUBLE STAGE)

We have the speciality in the manufacturing of high vacuum pumps. The material and technology used in such pumps is latest and gives high performance in all types of laboratory use with special high quality motor for hours of service, properly coupled with and on base.

Capacity	Motor
32lt/mm	0.25 hp
50lt/mm	0.25 hp
75lt/mm	0.25 hp
100lt/mm	0.50 hp

OPTIONAL :

- Vacuum Gauge with regulator.
- Belt guard
- Moisture Trap.
- Non-returnable Valve.
- Air Blast



B/021

ROTAMETERS

B/022 - BY PASS ROTAMATER

By pass rotameter suitable for the most economical provides a solution for measuring large rates of flow & suitable in pipelines from 40 NB to 350 NB.

Available in variety of materials carrier ring impulse piping and the flow rate through the rotameter as a flow indicator with volumetric. The orifice plate dimensions are based on ISO 5167 / BS1042 / BSA

We require data for offering.

- 1 : Flow rate mini / max.
- 2 : ID of main pipeline Exactly.
- 3 : Flanges of main pipeline.
- 4 : Pressure & temp.
- 5 : Material of wetted parts.



B/022

B/023 - REFLUX LEVEL INDICATOR

It is designed for most critical requirements of liquid level in vessels under high pressure & temperature condition in petrochemicals, fertilizer and pharmaceuticals & chemical industries involving inflammable toxic liquid, high temp Liquids.

FEATURES:-

The glass has precision moulded prismatic grooves cut on its inner side coming in contact with the medium. These level gauges have liquid chamber made out of single piece bar stock. Liquid level in the slotted chamber is seen through heavy duty toughened glasses. These glasses are clamped firmly on the chamber using carbon steel cover plates and using with CS "U" Bolts & Nuts.

Material of construction available

Liquid Chamber : Machined out of single piece bar solid bar stock made of M.S. / S.S. / P.P.

Cover Plates : M.S. / S.S.304 / S.S.-316.

"U" Bolts & Nuts : C.S. / S.S.304 / S.S.-316.

Cushion : CAF.

Packing : Imported / Teflon

Glass : Indian toughened glass / Imported klinger

Test pressure : 50 kg / cm² Max.

Temp. : 350° c.

Isolation valve : Isolation can be provided with built in auto shut off or simple isolation valve without shut off.

Mounting : Flanged or screwed end.

Available Length : In single piece 3.5 meter



B/023

B/024 - PURGE ROTAMETER (LOW FLOW RATE)

Suitable for measurement of low flow rate of liquid / gases. The standard mounting is 1/4" BSP rear and several arrangements of flanged or hose nipple connection can be offered on request.

Ranges Available

For water : 500 cc | min to 10 LPM.

For Air : 100cc | min to 1000 LPM at NTP.

Feature : Glass tube & acrylic body available.

Regulator Valve : Needle valve for controlling of flow at Inlet & easily to panel Mounting.



B/024

ROTAMETERS

B/025 - GLASS TUBE ROTAMETER

Rotameter are designed for the accurate measurement of rate of flow for liquids and gases. The rotameter is mounted vertically. A complete rotameter installation consists of tapered glass tube and shielded from all the sides with clear front visibility. Inside the tubes, the float provides indication of flow rate.

FEATURES:-

1. Over all face to face length 500mm for flanged connection.
2. Easily interchangeability of tubes without disconnection from the lines.
3. Scale Length 180-210mm.
4. Body M.S. powder coated or SS on request.
5. Cover M.S. powder coated.
6. Accuracy $\pm 2\%$ of FSD
7. Detachable scale with flow rate.
8. End connection rotatable through 360° .
9. Connection - Flanged & Screwed end.
10. Cover glass protected with rubber.
11. Gland Bolt : SS 304 Strictly
12. Packing : pure teflon.

Material of construction available

Metering tube	: Borosilicate glass tapered.
Flow range available	: 25 - 30000 LPH of water & 0.1 - 300 nm^3 /hr of air at NTP.
Floats	: SS-0316 / 304 / MS. / S.S. / PP. / Pure Teflon.
End Connection	: SS-316 / 304 / MS. / S.S. / P.P. / Pure Teflon Lined.
Packing	: Pure teflon + neoprene & silicon on request
Gland	: C.S. Epoxy Coated / SS on request
Body	: M.S. Powder coated / SS on request

Material of wetted parts :

LINE SIZE : Flanged / Screw.	SIDE - SIDE: Top & Bottom.
ORIENTATION : Vertical - top bottom.	INLET- side & OUTLET- vertical vice versa.

SPECIFICATION DATAS REQUIRES FOR OFFER AS UNDER:-

- 1 : Named of fluid (service).
 - 2 : Density / Specific gravity.
 - 3 : Flowrange.
 - 4 : Scale marking in LPH / LPM /kg/hr/USGPM.
- OPERATING PRESSURE : Min - Max - Working.
- OPERATING TEMPERATURE : Min -- Max. - Working.

Note : Prevents of glass tube breaking to always open outlet valve & gradually operates inlet valves sizes available from 15 nb to 100 nb pipe size. Flow Ranges available from 25 LPH to 30000 LPH of water and 0.1 to 300 nm^3 /hr Air at NTP.



B/025

ROTAMETERS

B/026 - SIDE MOUNTED TUBULAR TANK LEVEL INDICATOR

Suitable for storage tanks, Batch tank, Day tank, Receiver tank for direct reading in Atmospheric or pressurised tank application.

FEATURES:-

Glass tube is fully protected by box section made out of M.S. Channel 2mm thick light weight & Economical design. Heavy wall borosilicate glass tube 19mm OD available in single length 3mtr. Extended length by coupling through a coupler.

Material of construction available

Body / Space	: M.S./S.S./M.S.with FEP / PP Lined.
Tube	: Borosilicate 19mm/25mm OD on request.
Packing	: Pure Teflon & special application - Silicon.
Flange Mounting	: M.S./S.S./PP./SLIP ON.
Scale	: Machined Engraved Aluminium / Acrylic / S.S.
Temp.	: 0-120°C
Pressure	: Full vacuum /6 kg cm ² / max.



B/026

B/027 - SIDE MOUNTED MAGNETIC LEVEL INDICATOR

Magnetic level indicator works simple magnetic principle used to get unique, most reliable & absolutely safe level indicator under used for most dangerous liquids.

The unit consist of all SS 316 Parts. With inside of SS main Chamber pipe, The SS magnetic float which moves up & down accurately follows liquid Variation in tank. The float magnet is operated by magnetically coupled to the follower red magnet outside chamber, which is mounted on front side of the main S.S. pipe

Material of construction available

Main Chamber pipe	: S.S. / P.P.
Float	: S.S. -316 / P.P.
Outside casing pipe	: Bicolour red & white magnetic Roller
Scale	: Aluminium black Engraved / S.S. / Acrylic.
Flange	: S.S. / P.P.
Drain	: 1/2" BSP drain valve provided on request.
Pressure	: 20kg/cm ² or 50kg/cm ²
Temp	: 130 °C
Available Length	: Maximum 3.5 meter



B/027

B/028 - TOP MOUNTED MAGNETIC LEVEL INDICATOR

Suitable for continuous level indication of horizontal tank and mainly underground tank covered in two units, one units fixed on mounting flange with guided cage assembly & float is connected to the S.S. pipe having imported magnet assembly.

Second unit fixed on mounting flange. The magnet assembly moves up & down in the main S.S. pipe chamber. The float magnet is operated by magnetically coupled to the follower red magnet outside chamber mounted on front side of the main S.S. pipe.

Material of construction available

Main Chamber pipe	: S.S. / P.P.
Float	: S.S. 316 / P.P.
Outside casing pipe	: Glass tube inside red follower.
Scale	: Aluminium / S.S. / Acrylic.
Flange	: S.S. / M.S.
Pressure	: 25Kg /cm ²
Temp.	: 225 °C.
Available Length	: Maximum 3.5 meter.



B/028

MAGNETIC LEVEL SWITCHES / FLOW INDICATORS

B/029 - SIDE MOUNTED MAGNETIC LEVEL SWITCH

Side Mounted Magnetic Level Switches work on the principle of magnetic repulsion and therefore they are glandless and leak proof instruments. A permanent magnet fitted in the tail piece of the float repels another magnet inside the switch housing which in turn operates an SPDT MICROSWITCH. Microswitch contacts can be utilized for initiating audio-visual signals or pump control.

FEATURES:-

As our switches work on magnetic repulsion principle, they are Glandless and leakproof.

No Power Consumption.

Internal assembly wiring are teflon insulated.

Internal switch assembly bracket of cast aluminium.

Maximum working pressure 10 Kg / CM².

Maximum working temperature - 250°C. process temperature.

Contact rating of MICROSWITCH 5 amp at 230 VAC resistive.

No of Contact : 1 change over as standard. Optional 1 No + 1 NC.

Suitable for 40 NB nozzle mounting - Float dia 37 mm & 50 NB nozzle mounting - Float dia 48 mm.



B/029

B/030 - TOP MOUNTED MAGNETIC LEVEL SWITCH

Top Mounted Level Switch work on permanent Magnet Reedswitch basis. The floats which contain permanent Magnets move freely between their stops rising or falling with Liquid level movement. Hermetically Sealed within the tube are reed switches, Completed isolated from the medium. The Magnet's field actuated the reed switch as the float moves while the Stoppers restrict overrun and prevent the reed switch returning to its original position. Stopper positions should not be changed.



B/030

B/031 - SIGHT FLOW INDICATOR (FULL VIEW TYPE)

For Viewing of kinds in pipe lines, Different type of sight glasses can be offered like full view type double window type etc.

Means of viewing the process to assure that the flow is continuous or Note the process turbidity, color etc. Full view type sight glass consists of a borosilicate glass pipe section fitted with a metal frame and both the flanges of frame welded with studs and the end of the glass pipe section sealed with Teflon bushes with 2 nos. of Teflon washers.



B/031

Material of construction available

Frame : M.S. / S.S. -316 / S.S.304 / P.P / FEP Lined

Model : Check nut or Allen bolts type. Glass Borosilicate heavy toughened

Line Size : From - 1/2" to 9" Flange end / Screw end

DOUBLE WINDOW TYPE

- | | |
|------------------------|---|
| (A) DRIP TUBE TYPE | : Particularly suitable for vertical down ward lines having intermittent flow like in distillation column. |
| (B) ROTATOR TYPE | : Best suited for lines carrying only water / gases or dark solution where rotary movement can be easily detected |
| (C) RUBBER LINED TYPE | : Specifically for effluents services / HCL / MIX ACID, etc. |
| (D) HIGH PRESSURE TYPE | : Best Suited for high pressure and Temperature in pipe line of gases, Hazardous solvents, high pressurised reaction vessel |
| (E) FEP LINED | : For Corrosive or Acid Application |

B/032 - THOUGHEND GLASSES

Round / Rectangular Toughened Glasses.

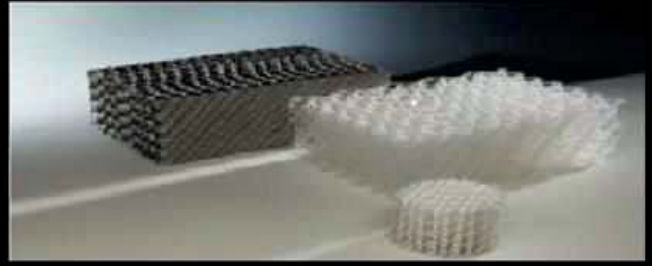
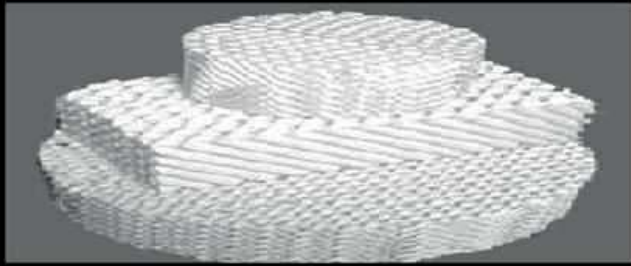
Reflex / Transparent Toughened Glasses.

Boiler Gauge Glass Tubes.



B/032

STRUCTURED PVDF / PTFE COLUMN PACKINGS



STRUCTURED CERAMIC COLUMN PACKING



ULTIMATE SOLUTION FOR CORROSIVE FLUID TRANSFER

"Borolab" MS / SS PTFE LINED PRODUCTS



LINED BALL VALVE



LINED DIP PIPES



LINED BEND



LINED SPOOL (PIPE SECTION)



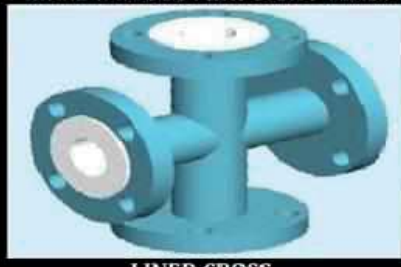
LINED DOUBLE VIEW SIGHT GLASS



LINED TEE



LINED DIP PIPE



LINED CROSS



LINED CONCENTRIC REDUCER



LINED REDUCING FLANGE



HIGH PRESSURE BELLOW



PURE PTFE ROD & SHEETS



Borolab



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