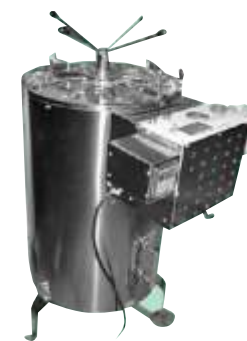


HE-101 : AUTOCLAVE VERTICAL

It is used for sterilization under saturated steam pressure at any selected point between 5 to 20 p.s.i. (Optional adjustable with pressure control switch). These are double walled units with inner chamber (Boiler made of 18 S.W.G. stainless steel and outer chamber is covered with M.S. Lid is tightened by radial locking system. Fitted with neoprin rubber gasket, all systems are hydraulically tested upto 40 p.s.i., as a safety measure. All autoclaves are fitted with standard accessories such as water level indicator, pressure gauge,, steam release cock, spring loaded safety valve and heating element. Supplied complete with S.S. basket, cord and plug to work on 220/230 volts A.C. Supply.

ALL DELUXE MODELS besides being fitted with STAINLESS STEEL/LID and having inner chamber made of S.S. and outer chamber stainless steel, are also fitted with VACUUM BREAKER as a SAFETY DEVICE.



HE-101

DIA X HEIGHT	LOAD
A) 250 x 450 mm (10" x 18")	1.5 KW
B) 300 x 500 mm (12" x 20")	2.0 KW
C) 350 x 550 mm (14" x 22")	3.0 KW
D) 450 x 600 mm (18" x 24")	4.0 KW
E) 550 x 750 mm (22" x 30")	5.0 KW

OPTIONAL ACCESSORIES

- A) Automatic pressure control switch (Automatic Indfoss Piezostate)
- B) Automatic low water level cut-off device
- C) Automatic 0-60 minutes "GERMAN" Timer
- D) Digital Temperature Display

HE-102 (A): AUTOCLAVE VERTICAL HIGH PRESSURE (Triple walled, for dry sterilization useful for sterilizing the loaded material under a steam pressure of 5 to 20 p.s.i. (adjustable with pressure control switch). It has inner chamber, steam jacket and outer wall made of S.S. duly argon are welded. The space between outer wall and steam jacket is filled with high grade glass wool to minimize the temperature loss. All sterilizers are hydraulically tested up to 40 p.s.i. The lid is made of thick Stainless Steel and closed by wing radial type closing arrangement. Fitted with a gasket made up of neoprene rubber, safety valve, water level indicator, steam release valve, pressure gauge and S.S. basket. Supplied complete with cord and plug to work on 220 / 230 volts A.C. supply. Fitted with vacuum breaker as a safety device.

DIA X HEIGHT	LOAD
A) 300 X 500 mm	4.00 KW
B) 350 X 550 mm	4.00 KW
C) 450 X 600 mm	6.00 KW
D) 550 X 750 mm	6.00 KW

OPTIONAL ACCESSORIES

- A) Automatic pressure control switch(Automatic Indfoss Piezostate)
- B) Automatic low water level cut-off device
- C) Automatic 0-60 minutes "GERMAN "Timer
- D) Digital Temperature Display

HE-102(B): AUTOCLAVE HORIZONTAL (Triple walled, Cylindrical).

Construction : Triple walled construction inner chamber is made of high grade stainless steel sheet of SS-304 grade. The outer body is also made of thick stainless steel sheet. The boiler is made of S.Steel. The lid is made of thick steel sheet plate. The unit is duly fitted with highly efficient M.S. Painted Ring & radial locking system duly chrome plated. A three way valve or a multi port Valve made of stainless steel is installed for controlling the sterilization cycle. The pressure is adjustable from 5 psi to 20 psi, pressure is controlled by automatic pressure control switch. Fitted with water level indicator and vacuum breaker. The unit is fitted with temperature gauge, vacuum breaker and steam trap. The whole unit is mounted on a robust tubular stand made of MS duly painted with attractive stove enamel.



HE-102 B

indicator and vacuum breaker. The unit is fitted with temperature gauge, vacuum breaker and steam trap. The whole unit is mounted on a robust tubular stand made of MS duly painted with attractive stove enamel.

SIZE	LOAD	OUTER S.S
A) 400 x 600 mm (16 x 24)	9 KV	
B) 400 x 1100 mm (16 x 44)	12 KV	
C) 500 x 900 mm (20 x 36)	9 KV	
D) 500 x 1200 mm (20 x 48)	12 KV	

HE-103: AUTOCLAVE PORTABLE (Male of Aluminium)

Fitted with pressure gauge up to 20 psi. spring loaded safety valve adjust a dead Weight safety valve. It is hydraulically tested up to 40 psi and is supplied with, Electrical fittings, cord and plug to on 220/230 volts A.C. supply. Supplied complete with tripod stand.

- A) Size 300 x 300 mm (12 x 12)
- B) Size 300 x 375 mm (12 x 15)

HE-104: CEMENT AUTOCLAVE

Complete with safety valve, pressure gauge and automatic pressure control switch.

- A) Inner Chamber made up of Mild Steel
- B) Inner Chamber made of Stainless Steel

HE-105: B.O.D. INCUBATOR (Low Temperature, Super Deluxe Digital Model)

Most versatile for Biochemical Oxygen Deand determinators. Castor wheel mounted cabinet is double walled with inner chamber S.S. and outer wall of M.S. Sheet duly powder coated. The gap of 75 m.m. between the outer and the inner wall is fitted with special grade glass wool to prevent thermal losses. Triple walled back of the unit is fitted with two air circulating fans for maintaining temperature uniformity throughout the chamber, Fully view inner glass / Acrylic door permits inspection of specimens, without disturbing the same. Lock and key arrangement is provided in the double walled outer door. Unit is fitted with door operated illumination lamp inside the chamber. Refrigeration unit is formed by ISI marked compressor, The front panel is provided with separate indicator lamps for main, heating and incoming voltage. Supplied complete with 3 shelves, cord and plug to work on 220/230 A.C. supply. Temperature From 5°C to 50°C is controlled by MICRO PROCESSOR ELECTRONIC DIGITAL TEMPERATURE INDICATOR CUM CONTROLLER with an accuracy of $\pm 0.5^{\circ}\text{C}$.

SUPER DELUXE DIGITAL	MODEL	CAPACITY	S.S.(304 Grade)
A) 455 x 610 x 410 mm	(18" x 24" x 16")	4 Cu ft (112 ltr)	
B) 505 x 830 x 415 mm	(20" x 34" x 17")	6.1 Cu ft (171 ltr)	
C) 570 x 875 x 550 mm	(23" x 35" x 22")	10 Cu ft (280 ltr)	
D) 650 x 900 x 550 mm	(26" x 36" x 22")	12 Cu ft (336 ltr)	

OPTIONAL ACCESSORIES

- A) Interior illumination with 3nos. fluorescent tubes (temp. 10° to 50°c)
- B) Automatic Voltage Stabilizer 3 KVA. (TRIPLE RELAY)
- C) All S. Steel Body 304/202 grade for GMP Standard P.O.R.

HE-106: SEED GERMINATOR (Single Chamber with Digital Temperature Controller)

Most suitable for conducting various experiments on a variety of seeds under different conditions of temperature and humidity. Atmospheric conditions are created within the chamber to perform different experiments without gone onto the field. The double walled unit has inner chamber made up of S.S and outer chamber of M.S. Sheet duly Powder coated. Temperature from 5°C to 50°C $\pm 1^{\circ}\text{C}$ is controlled by DIGITAL TEMP. indicator-cum-Controller. Humidity (NOT ADJUSTABLE) is created in a S.S. water reservoir fitted at the bottom to provide 90% to 95% $\pm 3\%$ RH Humidity. Supplied complete with 14 adjustable perforated trays. Complete with cord and plug to work on 220/230 V.A.C. Supply.



HE-103



HE-105



HE-106

INSIDE CHAMBER SIZE (W x H x D)

S.S. (304 Grade)

555 mm x 910 mm x 605 mm (22"x36"x24")

HE-107: SEED GERMINATOR (DUAL CHAMBER)

Details same as Scientech -106, But with dual chamber having following parameters:Fitted with heating and cooling system in both the chambers. So as to Control Temperature from 5*c to 501*c =1*c in both chambers (Supplied with 14 trays) (Cooling in Both Chambers)

INSIDE SIZE OF EACH CHAMBER (W x H x D)

S.S.(304 Grade)

555 mm x 910 mm x 605 mm (22"x36"x24")

OPTIONAL ACCESSORIES

- A) Exterior illumination arrangement (for each chamber)
- B) Automatic 0-24 hrs timer (for each chamber)
- C) Digital Humidity Control Arrangement
45% to 95% = 3% RH(for each chamber)
- D) Automatic Voltage Stabilizer 3.0 KVA (Triple Relay)
(For each chamber)

HE-108: HUMIDITY AND TEMPERATURE CONTROL CABINET

Suitable for carrying out different quality control tests under controlled condition of temperature and Humidity. Inner chamber consists of S.S. and outer wall of M.S. sheet duly powder coated. The gap of 75 m.m. between the outer and inner wall is filled with special grade glass wool/puf insulation to prevent termal losses.A self cooler air circulation fan is fitted to maintain uniform temperature and humidity conditions through--out the chamber Temp. range from 5*C above ambient to 60*c is controlled by "JUMO"/"EGO"GERMAN thermostateWith an accuracy of=1*C. Humidity is controlled through an imported HUMIDISTATE thus controlling the desire set humidity range from atmospheric humidity to 95%=3%

INSIDE CHAMBER SIZE (W x H x D)

S.S.(304 Grade)

A) 455 mm x 710 mm x 455 mm (18 x 24 x 18)

B) 605 mm x 605 mm x 605 mm (24 x 24 x 24)

C) 605 mm x 910 mm x 605 mm (24 x 36 x 24)

HE-109: HUMIDITY AND TEMPERATURE CONTROL CABINET (REFRIGERATED)

Same as SE-108 but provided with refrigeration system to control temperature range form 5*C to 60*C=2*C and humidity 40% to 95% =3% and fitted with Electronic Digital Temp. & Humidity Indicator Cum Controller.

INSIDE CHAMBER SIZE (W x H x D)

S.S(304 Grade)

A) 455 mm x 710 mm x 455 mm (18 x 28 x 18)

B) 605 mm x 605 mm x 605 mm (24 x 24 x 24)

C) 605 mm x 910 mm x 605 mm (24 x 36 x 24)

OPTIONAL ACCESSORIES

- A) Hygrometer (Dial Type Humidity Indicator)
- B) Wet and Dry Thermometer.
- C) Automatic Voltage Stabilizer 3.0KVA
(Triple Relay, only for HE-108)
- D) Pid Temperature Controller Micro Processor
- E) Digital Temp & Humidity Control (for HE-1408)

HE-110: PLANT GROWTH CHAMBER

It has outer wall made of M.S. Sheet duly powder coated and inner wall made up of heavy gauge S.S. Sheet. The gap between inner and outer wall is filled with high grade glass wool to avoid thermal loss. Besides outer double walled door, a full view inner glass door allows inspection of test samples without disturbing the inner chamber conditions. Units is supplied with three adjustable perforated shelves. Temperature range from 5*C to 50*C=1*C is controlled by DUAL SETTING Digital



HE-107



HE-108



HE-110

Temperature indicator-cum-controller so as to set two different temperatures for Day and Night. Exterior illumination with fluorescent fitted on both sides of the chamber accounts for artificial day light, and the cyclic illumination conditions are regulated by automatic 0-24 hrs. timer, when all the tubes are on temperature from 15* C to 50*C= 1*C can be from ambient to 50*C and the same is achieved by means of injecting steam. Arrangements for increasing the humidity is provided and not for decreasing.

W x H x D	CAPACITY	S.STEEL
A) 505x830x415 mm	6 cu ft	
B) 570x875x550 mm	10 cu ft	
C) 650x900x550 mm	12 cu ft	

OPTIONAL ACCESSORIES

A) Digital Humidity Controller

HE-111: DE-HUMIDIFIER (Fitted With Time Controlled Safety Device, In Case Humidity Controller Fails, For Safety of The Compressor) "SCIENTECH" Dehumidifiers are water condensing type. base on "REFRIGERATION CYCLE"to avoid use of expensive chemicals required for dessicant type models. The unit is self standing and is mounted on a study angle iron frame, fitted with caster wheels. Dehumindifier excess moisture from the atmosphere and it fitted with hermetically sealed compressor. Heat exchanger and water condensing coils aremade of S.Steel collection tank is provided below the unit to collect condensate water, Humidity is controlled by automatic HUMIDISTATE incorporated in the unit upto 30%=3% RH, depending upon the ambient conditions. To achieve very low humidity, the room should have a independent window type Air Conditioner to match with the dehumidifier heat load in the load in the room. Suitable to work on 220/230 Volts A.C. Supply.

CAPACITY: 1.5 Tonne



HE-111

OPTIONAL ACCESSORIES

- A) Automatic Voltage Stabilizer 4.0 KVA. (TRIPLE RELAY)
- B) S. Steel Body Extra
- C) Digital Humidity State

HE-112: (A) DEEP FREEZER

Double walled with inner chamber made of S.S./ Plastic and outer of thick PCRC sheet duly enamel painted. Temperature range from ambient to -20*C is achieved by hermetically sealed compressor. The gap between the inner and outer wall is filled with high grade PUF Insulation to avoid thermal loss. Body is mounted on a sturdy angle iron frame and is mounted on castor wheels. Unit is fitted with Micro Processor Digital Temperature Indicator-cum controller. Horizontal Chest type models are supplied in a single compartment whereas vertical models are supplied with three storing shelves.

	DF101	DF102	DF103	DF104
CAPACITY	4 Cu ft.	6 Cu ft	10 Cu ft	12 Cu ft
CHEST TYPE				
VERTICAL				



HE-112 A

OPTIONAL ACCESSORIES

(a) Automatic Voltage Stabilizer 4KVA.(TRIPLE RELAY)

HE-112(B): LYOPHILYSER (FREEZE DRIER)

It is used for pro-reservation of Blood Plasma, Plants etc. without damaging their Cell structure, with cooling contender, vacuum drum and pump in steel Cabinet.

3 Liter (Condensate Cap)

5 Liter (Condensate Cap.)



HE-112 B

HE-113 AIR LAMINAR FLOW CABINET (HORIZONTAL)

Designed so as to meet the requirements of US Federal Standard 209 B (BS 5295) providing particle free air to meet class 100 (Class conditions. The cabinets are fabricated out of thick board duly sunmica clad interior surface are epoxy painted for its longer life. The work table is made of thick board which is S.Side panels are made out of thick transparent plexi 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 rating as high as 9.99% with cold DOP and 99.97% with hot DOP, thus retaining all air borne particles of size 0.3 micron and larger. Using a dynamic machine, the blower and motor assembly is statically and dynamically balanced ISI MARKED Motor of 1/5 H.P capacity operates with minimum noise level. The working area is illuminated by fluorescent lighting fitted to the unit. Height of the working table provides comfortable 'SIT DOWN' working position for the operator. To work on 220/230 volts A.C. supply. Supplied complete with S. Steel table top, HEPA filters pre-filters pre-filter and fluorescent illumination, UV light & Gas Burner.

Model	SH-22	SH-32	SH-42	SH-62
Working Size	2'x2'x2'	3'x2'x2'	4'x2'x2'	6'x2'x2'
Size of HEPA Filter	2'x2'x6'	3'x2'x6"	4'x2'x6"	6'x2'x6"
No. of HEPA Filter	1	1	1	2
Illumination	1 x 20W	1 x 20 W	2 x 40	2 x 40W
Prices				
DELUXE MODEL				
	2"x2"x2"	3"x2"x2"	4"x2"x2"	6"x2"x2"
POWDER COATED				
COMPLETE IN STRONG M.S. BODY				
COMPLETE IN S.S. BODY:				

Detail same as SE 113 but with laminar air flowing vertically from top towards the work table.

Model	SV-23	SV-32	SV-42	SV-62
Working Size	2'x2'x2'	3'x2'x2'	4'x2'x2'	6'x2'x2'
Size of HEPA Filter	2'x2'x6'	3'x2'x6'	4'x2'x6'	3'x2'x6'
	1	1	1	2
Illumination	1x20 W	1x20 W	2x40 W	2x 40W
Price				
Deluxe Model				
Complete in M.S /SS Body.....P.O.R				

HE-114 : BIOLOGICAL SAFETY CABINET / SAMPLING BOOTH

The cabinets fabricated out of thick board duly sunmica clad. Interior surfaces are epoxy painted for its longer life. The work table is made of Heavy gauge S.S. sheet and is fitted with U.V. Germicidal ight, static pressure Manometer, Exhaust System (suitable for 6 feet duck) and Virus Burn Out Unit. Side panels are made out of thick transparent plexi 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) filter shaving efficiency retaining all air-boarne 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 1/4 H.P. capacity operates with minimum noise level. The working area is illuminated by fluorescent lighting fitted to the unit. The hight of the working table provides a comfortable "SIT DOWN" working position for the operator. In addition to the above futures of a standard Vertical Laminar Flow Bench, the "SCIENTECH" Bio-safe cabinets have arrangements for re-circulating a part of air thus creating highest level of clean air.

The unit is also convertible to the conventional vertical laminar flow bench with downward air flow by lifting the sliding from 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.



HE-113



HE-114

Model	SS-104	SS-105	SS-106
Working Size	2'x2'x2'	3'x2'x2'	4'x2'x2'
Size of HEPA Filter	1.5'x2'x6'	3'x1.5'x6'	1.5'x2'x6"
No. of HEPA Filter	1	1	1
Illumination	1x20 W	1x20 W	1x30 W
Price			

OPTIONAL ACCESSORIES

- A) Exhaust Ducting (per running feet)
- B) Gas Burner
- C) Virus burn out unit

HE-115 : FUME HOOD

Fabricated out of thick wooden board these are designed so as to throw-out al toxic/harmful vapors, thus protecting costly instruments and the person working in the lab. Outer is finished with sunmica and inner epoxy painted. Working table top is fitted with acid / alkali resistant tiles / S.Steel 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 weight. The unit if fitted with fluorescent light and a gas cock for gas/air supply. The space under the work station can be provided with storage compartments for storage purpose. The front facing panel is fitted with 15/5 Amp socket with switches for exhaust system and flourescent light. To WORK ON 220/230 volts A.C. Supply.



HE-115

Working Size	2'x2'x2'	3'x2'x2'	4'x2'x2'	6'x2'x2'
Price				

OPTIONAL ACCESSORIES

- A) PVC Fume Duct (per ft.)
- B) Inner chamber FRP/S.S (Perfect) Lining on Working walls extra

HE -116: AIR CURTAIN

An air Curtain is a modern device which, when installed on a door, forms an invisible curtain of continuous air and thus prevents escape of conditioned air and entry of outside hot, humid, dirty and unwanted polluted air, The cabinets of Air Curtain are made of cold rolled Mild Steels. The blowers are made of high quality aluminum sheets, duly balanced both, statically as well as dynamically on computerized digital balancing machines, designed to provide uniform air with minimum noise and no vibration. All units are thoroughly tested at works and meet the highest standards. The motors used are off continuous rating with sealed ball-bearings. HIGH VELOCITY MODELS (Approx 10 meters/second).



HE-116

- A) Size Door Width 600 mm (2 feet)
 - B) Size Door Width 900 mm (3 feet)
 - C) Size Door Width 600 mm (4 feet)
 - D) Size Door Width 600 mm (5 feet)
- GMP Model S.S. body also available.....P.O.R.

HE 117 : TISSUE CULTURE HOOD

(Made of sunmica clad thick wooden board)

Made out of sunmica clad thick wooden board. and sunmica clad working top the unit has frame at front fitted with transparent plexiglass and has an arrangement for keeping the door open if desired. Outside Size : 1200 x 600 x 600 mm (ht. at back) (4" x 2" x 2")

OPTIONAL ACCESSORIES

- (A) Build in U.V. Germicidal light
- (B) Build in Fluorescent light.
- (C) S.S. Top in lieu of Sunmica top.
- (D) Exhaust system to cost extra



HE-117

HE -118 INOCULATION CHAMBER

Made of sunmica clad thick wooden board and plywood at back. Thick non-rattling plexi glass window provided on two sides and front folding glass door. Inside sunmica clad. Lower portion is provided with Glove ports and gauntlets on front window. Provided with one fluorescent tube and one Ultra Violet tube.

- A) Outside Size 40" x 24" x 22"
B) Outside Size 27" x 20" x 16"



HE-118

HE 119 : ROTARY VACUUM EVAPORATOR (BUCHITYPE, VARIABLE SPEED)

The apparatus consists of an evaporating flask rotated by sparking induction motor in a heating water bath. Vacuum distillation of solvent at high and low temperature is achieved quickly and efficiently by use of a VARIABLE SPEED motor, which prevents foaming and bumping of the liquid (solvent) into the evaporating flask and also distillation under controlled atmosphere. The evaporating flask is pear shaped to give a large surface area of evaporation and is clamped to a glass duct which goes through the drive unit and protrudes about 120 m.m. into the condenser. The condenser is fitted with standard joint at the top and the bottom for receiver flask. The unit is fitted with a quick action jack. Capacity 1 litre (Without water bath & Vacuum Pump)



HE-119

OPTIONAL ACCESSORIES

- A) Thermostatic Water Bath (S.S.)
B) Thermostatic Water Bath (digital Model)
C) Vacuum Pump
D) Micro Attachment Set
E) Condenser Double Coil
F) Rotating Flask
G) Collection Flask
H) Clip for Holding Ball Joint 50 mm
I) Clip for Holding B-24 (Joint)

HE-120: DISTILLATION APPARATUS ALL GLASS (ELECTRICALLY HEATED)

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

FLASK STAGE	CAPACITY	SINGLE STAGE	DOUBLE STAGE	TRIPLE
A)	3 liter			
B)	5 liter			
C)	10 liter			



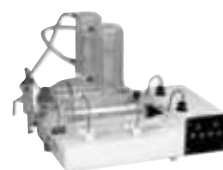
HE-120

OPTIONAL ACCESSORIES

- A) Automatic Low Water level cut off device in case water supply is stopped.
B) With Quartz Heater Vertical Fitted (each heater)

HE -121 : ALL GLASS DISTILLATION UNIT (QUARTZ HEATER TUBE, VERTICAL TYPE.)

These units consist of main boiler. A built in heater enclosed in Quartz glass tube. Housing auto Water level adjuster, Bottom outlet for cleaning waste discharge which is fitted with Teflon screw Cap valve. A coil condenser fitted on top for condensing vaporous. The whole unit is mounted on epoxy coated metal box stand & covered with acrylic sheet cover for protection. Power supply unit is in built no extra attachment is required. Housing sturdy & reliable power System require 1 K.W. Power per heater. These distillation units are more compact, require less space, reliable, easy to operate on Continue basis.



HE-121

CAPACITY	1.2 ltr/hr	1.5 ltr/hr	3.5 ltr/hr
1) SINGLE STATE			
2) DOUBLE STATE			

HE-122: WATER STILL (WALL MOUNTING)

The unit is recommended for making pyrogen free distilled water of a very high degree of purity. Made out of S.S. special kettle element is fitted with Ejection Device/Auto Cut for safety of the element is provided with the unit. Supplied with cord and plug to work on 220/230 volts A.C.

CAPACITY	LOAD	With Removable Condenser
A) 2 ltr/hr (approx)	2.0 KW	
B) 4 ltr/hr (approx)	3.0 KW	
C) 6 ltr/hr (approx)	4.5 KW	
D) 8 ltr/hr (approx)	6 KW	



HE-122

HE-123: RO-WALL MOUNTING

8 to 10 Litres per hour output. It consists of Pre Filter, Sediment Filter, Activated Carbon Filter, R.O. Membrane imported, Booster pump imported, Post Carbon Filter, Auto Intel Control, Auto Storage Tank Control, 8 Litres Storage Tank.



HE-123

HE-124: WATER STILL (TABLE PATTERN BARNSTEAD TYPE, MADE OF S. STEEL.)

Double walled construction with inner and outer chamber made of S.S. the gap in between being filled with glass wool. The condenser and top are also made of S.S. the raw water is first made of pass around the tubes in the condenser. Where it gets heated nearly to the boiling point thus economizing the heating energy. The heated water passes to the evaporator through a water level maintaining pipe. Excess water is let out through the drain. To work on 220/230 volts A.C. Supply.



HE-124

CAPACITY	LOAD	RATES
A) 2 liter/hr. (approx)	2.0 KW	
B) 4 liter/hr. (approx)	3.0 KW	
C) 6 liter/hr. (approx)	4.0 KW	
D) 8 liter/hr. (approx)	6.0 KW	

HE-125 : DEONIZER (DOUBLE BED)

It consists of an in-built pre filter and very high exchanging capacity non-corrosive CATION and ANION resin columns prefilled with imported RESINS for efficient results having treated water parameters conforming to IS-1069/64. It yields chemically pure water equal to multiple distilled water having conductivity of less than 10 micro siemens / cm and pH of 7.0 to pH. Fitted with a sturdy PVC multi-control valve and can be connected direct to water taps. The conductivity meter operates on both AC supply and 9.0 V DC battery. Supplied with one plastic chemical proof regeneration tank and the complete unit in housed in a painted M.S. Trolley for easy mobility. Available with Conductivity Meter.



HE-125

Model	SA-50	SA-70	SA-100	SA-200
Output/hour	50 ltr.	70 ltr.	100 ltr	200 ltr
ANALOGUE MODEL	15,000.00	16,000.00	18,000.00	30,000.00
DIGITAL MODEL	18,000.00	20,000.00	22,000.00	35,000.00

HE-126 OVEN UNIVERSAL (MEMMERT TYPE)

These are sturdy double walled units with outer chamber made of M.S. sheet duly power Coated/painted with inner made up of anodized aluminum or S.S. sheet. The gap between Inner and outer chamber is filled with high grade glass wool to avoid thermal losses. Beaded heating elements are placed in ribs, at bottom and sides. Inner chamber is provided with ribs for adjusting perforated shelves to convenient Temp. Temperature is controlled by hydraulic type capillary thermostat from ambient to 250°C=1°C An L shaped prismatic thermometer is fitted to the unit for reading the chamber temperature. Air ventilators are also provided on the sides of the unit. To work on 220/230 volts A.C.



HE-126

INNER CHAMBER SIZE (W x D x H)	APPROX. Liters	ALLUMINIUM CHAMBER	STAINLESS STEEL CHAMBER
A) 300 x 303 x 300 mm	28		

B) 355 x 355 x 355 mm	43
C) 455 x 455 x 455 mm	90
D) 455 x 455 x 605 mm	105
E) 605 x 605 x 605 mm	215
F) 605 x 455 x 910 mm	240
G) 605 x 605 x 910 mm	325

OPTIONAL ACCESSORIES

- A) Air Circulation fan, [Essential for (e) (f) and (g)]
 B) Digital Temperature Indicator-cum-Controller
 C) PI Digital Temperature Indicator-cum-Controller
 High Temperature Oven/Driver..... P.O.R.

HE-127 : VACUUM OVEN

These are double walled units with outer made of M.S. sheet duly powder painted and inner made of heavy gauge S. Sheet. Gap between the two walls is duly filled with high grade glass wool to avoid thermal loss. Temperature range from ambient to 150°C is controlled by; Digital Temperature Controller with an accuracy of = 1°C. It is capable of with standing a high vacuum. Provided with vacuum gauge, see through transparent window of toughened glass and one shelf. To work on 220/230 Volts A.C. supply.



HE-127

INSIDE SIZE (DIA x DEPTH)

WITHOUT VACUUM PUMP

- A) Round : 200 x 250 mm (8" x 10")
 C) Round : 250 x 300 mm (10" x 12")

OPTIONAL ACCESSORIES

- A) PI Digital Temperature Indicator cum Controller
 B) Vacuum Pump

HE-128 : BACTERIOLOGICAL INCUBATOR (MEMMERT TYPE)

These are sturdy double walled units with outer chamber made of M.S. sheet duly powder coated/Painted inner made up of anodized aluminium or S.S. sheet. The gap between inner and outer chamber is filled with high grade glass wool to avoid thermal losses. Beaded heating elements are placed in ribs, at bottom and sides. Inner chamber is provided with ribs for adjusting perforated to convenient height.

The door is fitted with glass viewing window to facilitate inspection of sample without disturbing the test temperature. Temperature is controlled by hydraulic type capillary thermostat from ambient to 90°C = 0.5°C. An L-shaped prismatic thermometer is fitted to unit for reading the chamber temperature. Air ventilators are also provided on the sides of unit. To work on 220/230 volts A.C. supply.



HE-128

INNER CHAMBER SIZE (W x D x H)	APPROX. Liters	ALUMINIUM	STAINLESS STEEL
A) 300 x 300 x 300 mm	28		
B) 355 x 355 x 355 mm	43		
C) 455 x 455 x 455 mm	90		
D) 455 x 455 x 605 mm	105		
E) 605 x 605 x 605 mm	215		
F) 605 x 455 x 910 mm	240		
G) 605 x 605 x 910 mm	325		

OPTIONAL ACCESSORIES

- A) Air Circulation fan [Essential for (e) (f) and (g)]
 B) Digital Temperature Indicator-cum-Controller
 C) PI Digital Temperature Indicator-cum-Controller
 (Air circulation fan compulsory)

HE-129: EGG INCUBATOR

Out wall is made up of M.S. sheet duly painted and inside of S.S. The gap between inner and outer wall is filled with high grade mineral glass wool. Temp. rang from ambient to 70°C is controlled by "JUMO" / "EGO" GERMAN capillary type thermostat with an accuracy of=0.5°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.



HE-129

CAPACITY	WITHOUT HUMIDITY CONTROL	WITH HUMIDITY CONTROL
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- A) 50 eggs
- B) 100 eggs
- C) 200 eggs
- D) 250 eggs

OPTIONAL ACCESSORIES

Digital temperature Controller

HE-130: MUFFLE FURNACE RECTANGULAR

Light weight with ceramic fibre wool insulation (instead of Brick insulation). The outer casing is made up of double walled thick P.C.R.C. sheet, duly powder coated. Heating elements are made of KANTHAL "A-1" wire and backed by high temperature insulation, which avoids loss of energy. Temperature control unit consists of Energy Regulator, fitted in front of furnace with two pilot lamps. The apparatus is complete with one pyrometer, thermocouple, silver thermal fuse, main lead with power plug. To work on 220/230 volts or 400/440 volts A.C. Maximum Temp. is 1000°C and working temp. 950°C. For model of higher temperature the maximum temp. is 1200°C, 1450°C and working temp. 1150°C & 1400°C



HE-130

MUFFLE SIZE (W x H x D)	WORKING 950°C (With Pyrometer)	WORKING 1150°C (With Digital Temperature Indicator cum Controller)	WORKING 1450°C (With Transformer Devices)
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- A) 100 x 100 x 225 mm
- B) 125 x 125 x 250 mm
- C) 150 x 150 x 300 mm
- D) 200 x 200 x 300 mm
- E) 300 x 300 x 300 mm

OPTIONAL ACCESSORIES

- A) Digital Temperature Indicator-cum-Controller extra for 950°C
- B) PID Temperature Controller.

HE-131: CIRCULATING WATER BATH

A highly in demand instrument where water is required to be circulated to some external source through an F.H.P. pump. Most useful for circulating water to Abbe Refractometer, condenser coils etc. Temperature from ambient to 90°C is controlled through hydraulic type thermostat with an accuracy of=0.5°C. Inner chamber made of S.S. and outer chamber made of M.S. Sheet duly powder coated. Inside bath size 8" x 9" x 10 1/2" with a cover at side of size: 10" x 7" approx. To work on 220/230 Volts



HE-131

HE-132: WATER BATH RECTANGULAR (SINGLE WALL)

Made out of heavy gauge S.S. with concentric rings. Auto cut heating elements are fitted. To Protect the same when bath gets dry. To work on 220/230 volts A.C. supply.

- A) 300 x 250 x 100 mm (6 Holes of 75 mm dia)
- B) 355 x 405 x 75 mm (12 Holes of 75 mm dia)



HE-132

HE-133: WATER BATH RECTANGULAR THERMOSTIC (DOUBLE WALLED)

It is double walled bath with inner chamber made of stainless and outer wall made of M.S. Sheet duly powder coated/ Painted. The gap between outer and inner walls is filled with special grade glass wool insulation. The concentric ring can be removed to accommodate containers of various sizes. Temperature from ambient to 90°C=2°C is controlled by thermostat.



HE-133

- A) 300 x 250 x 100 mm (6 Holes of 75 mm Dia)
- B) 355 x 405 x 100 mm (12 Holes of 75 mm Dia)

OPTIONAL ACCESSORIES

Digital Temperature Controller
PID Temperature Controller

HE-134: SEROLOGICAL WATER BATH

These units are double walled with inner chamber made up of S.S. sheet and outside of M.S. Duly Powder Coated. The gap between the walls is filled with special grade wool in order to avoid thermal loses. A drain plug is also fitted to the unit. The inner chamber fitted with immersion type heating element is covered with perforated removable diffuser tray. The cover is provided with the unit as a standard accessory. Temperature from ambient to 100°C is controlled by hydraulic capillary type thermostat with an accuracy of $\pm 1^\circ\text{C}$. Supplied complete with 220/230 volts A.C. Supply.



HE-134

WIDTH X HEIGHT X DEPTH

- A) 300 x 250 x 15 mm (for 2 racks)
- B) 330 x 300 x 175 mm (for 4 racks)
- C) 455 x 300 x 175 mm (for 6 racks)
- D) 605 x 300 x 175 mm (for 8 racks)

OPTIONAL ACCESSORIES

- (A) Stirring arrangement with 1/20 H.P motor and speed regulator.
- (B) Digital Temperature Indicator-cum-Controller.
- (C) PID Temperature Controller

HE-134 A : REFRIGERATED WATER BATH

Double Walled Outer M.S. painted, Inner S.S. Temp. Digitally controlled 5°C to $60^\circ\text{C} \pm 1^\circ\text{C}$ with heating Cooling & Stirring Systems.
18" x 12" x 12"



HE-134 A

HE-135: HIGH PRECISION WATER BATH (WITH STIRRING ARRANGEMENT)

Double walled chamber has inner made up of thick S.S. and outer wall is of thick PCRC sheet duly Powder Coated. A glass window is provided on the front side for an easy inside view. A high speed stirrer with a motor of 1/20 H.P is fitted to the unit for continuous stirring and thus maintaining a uniform temperature throughout. A speed regulator & digital indicator controller is provided on the front panel to control speed of the stirrer and temperature of bath. The heating mechanism comprises of set of heaters pertaining to faster and slower heating Controls the temperature with a sensitivity of $\pm 0.1^\circ\text{C}$, from ambient to 100°C . To work on 220/230 volts A.C. Supply.
Chamber size : 430 x 240 x 265 mm (Approx. 27 Ltr. capacity)



HE-135

OPTIONAL ACCESSORIES

- A) PI Digital Temp. Indicator-cum-Controller

HE-136 : WATER BATH INCUBATOR SHAKER (METABOLIC SHANKING INCUBATOR)

It is a double walled unit with inside made of thick S.S. sheet and outer made of M.S. Steel duly powder coated prevents falling of condensed water droplets on the specimens. Heating is achieved through a immersion type heater and the temperature is controlled by hydraulic type thermostat with an accuracy of $\pm 0.5^\circ\text{C}$. The bath has an oscillating tray riding on ball oscillated through a geared variable speed motor. Shaking speed range is between 40 to 140 cycles per minute. The shaking tray can either hold test tubes or erlymeyer flasks of 25 ml or 50ml or 100 ml or 250 ml or 1000 ml. as



HE-136

INSIDE SIZE

- A) 225 x 275 x 150 mm
- B) 275 x 275 x 150 mm
- C) 405 x 300 x 150 mm

TEMP AMBIENT TO 100°C

TEMP 5°C TO 60°C

OPTIONAL ACCESSORIES

- A) Spare shaking tray or test tube rack for part (a), (b) or (c)
- B) Digital Temperature Indicator-cum-Controller
- C) PI Digital Temperature Indicator-cum-Controller
- D) Digital R.P.M Meter

HE-137 OIL BATH HIGH TEMPERATURE

Double walled with inside made of Heavy S.S. and outside of M.S. sheet duly powder coated. The gap between the two walls is fitted with high grade glass wool to minimize thermal loss. Temperature range from ambient to 250°C ± 2°C, is controlled by hydraulic capillary type thermostat. A variable speed stirring arrangement is fitted to the unit for maintaining temperature Plug to work on 220/230 volts A.C. supply.

	Capacity
A) 250 x 250 x 250 mm	12 Ltr
B) 300 x 300 x 250 mm	20 Ltr.
C) 355 x 355 x 250 mm	26 Ltr.

OPTIONAL ACCESSORIES

- A) Digital Temperature Indicator-cum-Controller
- B) PI Digital Tem. Indicator-cum-Controller

HE-138 : TISSUE FLOATATION BATH

This double walled unit is most suited for preparing wrinkle free tissue specimens. Inside is Made up of Aluminium S. steel and outside of M.S. sheet duly powder coated. Temperature Range from ambient to 90°C ± 2°C is controlled hydraulic type thermostat. Complete with indicators, cord and plug, to work on 220/230 V.A.C. Supply, Inside size: 200 mm (dia) x 70 mm (depth)

HE-139: SYRINGE NEEDLE DESTROYER

To destroy syringe needles from 18 G to 26 G, needle burns electrically & Syringe cuts automatically Unit quick in action, portable, noise free with electrical cutter.

HE-140 : ROTARY FLASK SHAKER

Designed for continuous shaking of solutions in Erlenmeyer Flasks from 50 ml to 1000 ml capacity. It is a compact bench type table top model with platform fitted with rubber discs mounted on ball bearing crank shafts to give an orbital motion to the flask, within a diameter of approximately 2". and is mounted on a heavy and sturdy angle iron frame with DC Motor Drive with Continuously variable Electronic Speed Regulator To work 220/230 volts A.C. supply.

Platform Size	Holding Capacity	With Motor Capacity	With Rubber Disc.	With S.S.Clamp
A) 45 x 45 cm	49 flask of	25 ml		
B) 45 x 45 cm	36 flask of	50 ml		
C) 45 x 45 cm	25 flask of	100 ml		
D) 45 x 45 cm	16 flask of	250 ml		
E) 45 x 45 cm	9 flask of	500 ml		
F) 45 x 45 cm	36 flask of	100 ml		
G) 45 x 45 cm	25 flask of	250 ml		
H) 45 x 45 cm	16 flask of	500 ml		
I) 45 x 45 cm	36 flask of	250 ml		
J) 45 x 45 cm	25 flask of	500 ml		
K) 45 x 45 cm	81 flask of	250 ml		
L) 45 x 45 cm	64 flask of	500 ml		



HE-137



HE-138



HE-139



HE-140

- M) 45 x 45 cm 49 flask of 1000 ml
 N) 45 x 45 cm (Any configuration required)

OPTIONAL ACCESSORIES

- A) Microprocessor based digital RPM counter
 B) Automatic 0-60 minute "GERMAN" TIMER

HE-141: V.D.R.L. ROTATOR

Used for V.D.R.L. Tests, blood grouping tests, various agglutination tests or for mixing of solutions in small bottles, flasks or beakers. It has a platform of size 300 x 300 mm and can accommodate blood Bottles slides or flasks using a spring holder. Supplied complete with cord and plug to work on 220/230 volts A.C.

- A) Fixed speed (fixed at 180 RPM)
 B) Variable speed



HE-141

OPTIONAL ACCESSORIES

- (A) Automatic 0-60 minutes "GERMAN" Timer
 (B) Microprocessor Based Digital RPM Meter

HE-142: KAHN (RECIPROCATING) SHAKING MACHINE

Kahn racks, bottles or flasks of different sizes can be shaken by adjusting the compartments provided on the shaking rack. DC Motor Drive with continuously variable electronic speed regulator, The rate of motion can be adjusted by electronic speed regulator from 140 to 250 r.p.m approximately. To work on 220/230 volts. A.C. supply.



HE-142

PLATFORM SIZE BODY

- A) 20" x 13" x 4"
 B) 31" x 17" x 4"
 C) 36" x 18" x 4"

OPTIONAL ACCESSORIES

- A) Microprocessor based digital RPM counter
 B) Automatic 0-60 minutes "GERMAN" Timer

HE-143: WRIST ACTION SHAKING MACHINE

It has a heavy cast iron with rugged construction and two side arms for holding flasks. Fitted with a F.H.P heavy duty motor with variable speed. Can hold flasks from 100 to 1000 ml. Capacity. Supplied with cord and plug to work on 22/230 volts A.C. Supply.

- A) To hold 4 flasks
 B) To hold 4 flasks and top platform to hold 4 flasks/bottles
 C) To hold 8 flasks
 D) To hold 8 flasks and top platform to hold 4 flasks/bottles



HE-143

OPTIONAL ACCESSORIES

- A) Automatic 0-60 minute "GERMAN" Timer
 B) Microprocessor based digital RPM Meter

HE-144: SPECIFIC GRAVITY BALANCE FOR RUBBER



HE-144

HE-145: MELT FLOW INDEXER FOR PLASTIC (DIGITAL)

The melt flow index apparatus is use to determine the melt flow of thermoplastic.
 (Temperature range 0 to 199.9°C)



HE-145

HE-146: VORTEX SHAKER (TEST TUBE SHAKER)

Useful for stirring centrifugal tubes, test tubes or small flasks. Fitted with a neoprene rubber cup mounted eccentrically on the shaft against which at its is held the tube with its lower end pressing against the cup. Mixing action is controlled by varying the angle and pressure of the tube against The cup. Fitted with speed control arrangement. To work on 220/230 volts A.C Supply.



HE-146

- A) With On/Off Switch.
- B) With touch On/Off type.

HE-147: FLOCCULATOR (JAR TESTING APPARATUS)

Flocculator has been specially designed for use in water treatment plants to correctly estimate the dosing of alum and such other coagulants for treatment of water and sewage. In provides identical test conditions for all samples. Illuminated base consists of fluorescent tube mounted below translucent plastic plate to provide diffused cold light through floc sample. Flocculator consists of geared continuous run heavy duty 1/20 H.P. variable speed motor from 10 to 100 RPM with built in speed control. S.S. stirring rods are provided with adjustable spacers to adjust the depth of stirring paddles. The stirring paddles. The stirring shaft can be removed without disturbing other stirrers. This unit is supplied without beakers to works on 220/230 volts A.C.



HE-147

STIRRERS

- A) For two Stirrers
- B) For four Stirrers
- C) For six Stirrers

OPTIONAL ACCESSORIES

- A) Attachment for feeding does to all the stirring units simultaneously.
- B) Automatic 0-60 minute " GERMAN" Timer.
- C) Microprocessor based digital RPM counter

HE-148: MORTURARY CHAMBER

Double walled Outer M.S. painted, Inner S.S. Temp 2°C to 5°C Digital controlled, with movable S.S. Trays, Compressor and door locking system. We are manufacturers of mortuary chambers. Our mortuary chambers are conceptualized and designed for long storage of cadaverous under hygienic and cool conditions. Our mortuary chambers are made of corrosion free metal components with advance poly urethane insulation ensuring maximum thermal efficiency and durability. We specialize in both standard and customized models of mortuary chamber specially designed to meet various special requirements of our customers.....P.O.R.



HE-148

HE-149: MAGNETIC STIRRERS (Heavy Duty Permanent Magnet)

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



HE-149

CAPACITY

- A) 1 liter
- B) 2 liter
- C) 5 liter

HE-150: LABORATORY STIRRER

The motor stirrer having maximum speed upto 4000 r.p.m unit is clamped to a 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 speed regulator is fitted with S.S. Stirrer rod to give smooth and noiseless operation.



HE-150

CAPACITY

With 1/20 H.P Motor

CAPACITY

With 1/8 H.P Motor
 With 1/8 H.P Motor (Geared)
 With 1/4 H.P Motor
 With 1/2 H.P Motor

WITHOUT DRILL CHUCK
WITH DRILL CHUCK
OPTIONAL ACCESSORIES

- a) Automatic 0-60 minutes "GERMAN" Timer
- b) Varic speed Regulator (Heavy Duty)

HE-151: EMULSIFIER (HOMOGENIZER)

Fitted with F.H.P. motor having speed regulator and Maximum speed 4000 RPM with perforated S.S. disc. The unit is having arrangement for moving in horizontal and vertical direction (Complete on stand)

- A) with 1/20 H.P motor and S.S. Disc and speed regulator
- B) do- with 1/4 H.P. Motor and speed regulator
- C) do- with 1/2 H.P. Heavy Duty Motor and speed regulator


HE-151
HE-152: FILTER HOLDER

FOR STERILITY TEST: Vacuum filter holder for sterility test to hold membrane (without flask)

- A) Made of Glass to hold membrane filters of dia 47 m.m.
- B) Made of S.S. 316

HE-153: STERILITY TEST UNIT

Consists of S.S. holders in manifold of 3 or 6 to hold 47 m.m. dia. membrane filters, The tops of the holders are connected to the outlets of the flushing tube with silicone tubing and glass stop cock. A vacuum resistant flask or woulf bottle must be placed between the manifold and vacuum pump. (Supplied without Wolfs Bottle and Vacuum/ Pressure Pump). These units are used for sterility testing when the membranes filter is to be removed from the holder for incubation in culture media. Filtration areas is 12.5cm and has a holding capacity of 250 ml. Though only vacuum is required for filtration, some pressure is required for flushing liquids.

- A) 3 Branch Sterility Test Unit. (Made from SS - 316)
- B) 6 Branch Sterility Test Unit. (Made from SS - 316)


HE-153
OPTIONAL ACCESSORIES

- A) Monoblock Vacuum cum- Low Pressure Pump
- B) Oil Free Vacuum Pump

HE-154: SIEVE SHAKER (Table Top)

Fitted with a FHP motor, it can accommodate six sieves of 8" dia. speed can be regulated through a continuously variable speed regulator fitted to the unit. To work on 220/230 volts A.C. (Without Sieves)

- A) For 8" dia sieves
- B) For 12" dia sieves


HE-154
OPTIONAL ACCESSORIES

- A) Automatic 0-60 minute "GERMAN" Timer

HE-155: GYRATORY SIEVE SHAKER / ROTAP SIEVE SHAKER

Designed to carry up to 7 sieves of 8" dia it is driven by 1/4 HP electric motor, through reduction gear. The sieve 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 upward and downward movement ensuring that each square inch of the sieve is utilized. The whole gear mechanism runs in an oil bath. To work on 220/230 volts single Phase A.C. Supplied complete with adapter for 8" sieves but without test sieve.


HE-155

- A) Gyratory Shaker
- B) Rotap Sieve Shaker

OPTIONAL ACCESSORIES

- A) Automatic 0-60 minute "GERMAN" Timer
- B) Adaptor for 12" Test Series

HE-156: WET SIEVE SHAKER (YODER TYPE)

This yoder type motor driven sieve shaker is for carrying out wet sieve analysis of material. Consists of a water reservoir and a holder for sieve which can take upto 7 sieve of 8" dia. The shaker is driven by 1/4 HP motor through a belt drive. Suitable to operate on 230 volts, 50 cycles, single phase A.C.

CAPACITY WITH PERFECT / EQUIVALENT MOTOR
With G.I. Tank with S.S. tank

- A) For 1 set
- B) For 2 sets
- C) For 4 sets



HE-156

OPTIONAL ACCESSORIES

- A) Automatic 0-60 minute "GERMAN" Timer

HE-157: TEST SIEVES (Fine Series in 8" Dia. Brass Frame)

B.S.S.	A.S.T.M.	I.S.I.	Microns	M.M.	8"Dia	B.S.S.	A.S.T.M.	I.S.I.	Microns	M.M.	8"Dia
4	5	-	480	4.75		52	50	30	300	0.300	
5	6	340	1812	3.35		60	60	25	250	0.250	
6	7	280	2411	2.80		72	70	20	212	0.212	
7	8	240	2207	2.36		85	80	18	180	0.180	
8	10	200	2057	2.00		100	100	15	150	0.150	
10	12	170	1698	1.70		120	120	12	125	0.125	
12	14	140	1005	1.40		150	140	10	106	0.106	
14	16	120	1200	1.00		170	170	9	90	0.90	
16	18	100	1000	1.18		200	200	8	75	0.75	
18	20	85	850	0.850		240	230	7	63	0.63	
22	25	70	710	0.710		300	270	6	53	0.53	
25	30	60	600	.600		325	300	5	45	0.45	
30	35	50	500	0.500		350	325	4	44	0.044	
36	40	40	425	0.425		400	380	3	40	0.040	
44	45	35	355	0.3555		500	-	-	25	0.025	



HE-157

Receiving Pan and Lid made of Brass 8"

HE-158 : TEST SIEVES (Coarse Series)

Made of perforated steel plate with square holes. Available in following aperature of 125, 160, 100, 90, 80, 80, 75, 65, 80, 75, 63, 53, 50, 45, 40, 37.5, 31.5, 26.5, 25, 22.4, 19, 16, 13.2, 12.2, 11.2, 10.2, 10, 9, 5, 8, 6.7, 6.3, 5.6, 4.75, 2.8 m.m.

- A) With brass frame 8" dia
- B) With G.I. frame 12" dia
- C) With G.I. frame 18" dia

HE-159: MEDICO CENTRIFUGE

- A) With 4 x 15ml Swing out head. (3500 r.p.m)
- B) With 6 x 15ml Swing out head. (3500 r.p.m)
- C) With 8 x 15ml Swing out head. (3500 r.p.m)
- D) With 4 x 50ml Swing out head. (3500 r.p.m)
- E) With 4 x 50ml Swing out head. (3500 r.p.m)
- With Digital Speed & Digital Timer (3500 r.p.m)



HE-159

HE-160 : BOTTLE WASHING MACHINE

Electrically operated with quick release chuck taking wide variety of interchangeable nylon brushes for clearing syringes, test tubes , bottles etc. Model (a) and (b) are table model mounted on a heavy base and have single chuck. Machines with soaking tanks have 12 rinsers and two drill chuck to hold



HE-160

- A) Table Model with 1/4 H.P. fixed speed motor
- B) Table Model with 1/20 H.P variable speed motor
- C) With G.I. soaking tank of size 30" x 20" x 18"
- D) With S.S. soaking tank of size 30" x 20" x 18"

HE-161: LAB WILLEY GRINDER (ARTHUR H. THOMAS TYPE)

The chamber is fitted with a hopper provided with a cover. Three delivery S.S. sieves, of 20,40,60 mesh and plastic receiver are supplied. A removable plexi-glass plate; emits observation during operation.



HE-161

Chamber Size	Motor	WITH PERFECT / EQUIVALENT MOTOR	
Cap	M.S. CHAMBER	S. S. CHAMBER	
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.		
Lab Willey Grinder Heavy Duty with 1.00 H.P. Motor			
(Automatic) Modified Model			

HE-162: BALL MILL (LABORATORY TYPE)

CAPACITY	ALUMINUM JAR	STAINLESS STEEL JAR
A) 1 Kg. Jar		
B) 2 Kg. Jar		
C) 5 Kg. Jar		



HE-162

OPTIONAL ACCESSORIES

- A) Automatic 0-60 minute "GERMAN" Timer
- B) Variable speed Regulator
- C) Digital RPM Meter

HE-163: AGATE MORTAR PESTLE (FISHER TYPE) ELECTRIC

For unattended grinding of non gummy and non fibrous materials. Extensively used for preparing coal samples for calorific tests. The motor revolves and the pestle moves back and fourth in a pattern reaching all parts of the mortar. Its metallic housing with a F.H. Motor driven detachable turn table of cast aluminum has adjustable posts to hold mortars of 75 to 135 m.m. dia. The arm of the pestle driving mechanism has inged, heavy head which can be raised to inspect or remove the sample or additional material to be added as disered . A build-in timer permits selection of grinding operation up to 60 min. The grinding vessel and mortar are all completely covered by a clear acrylic cover. To operate on 220 V.A.C.



HE-163

- A) With 75 mm dia Agate Mortar & Pestle and "GERMAN" Timer
- B) With 100 mm dia agate Mortar & Pestle and "GERMAN" Timer

HE-164: TISSUE HOMOGENIZER ELECTRICALLY OPERATED

S.S. road is fitte with Teflon pestle and grinding vessel of Borosil glass. Fitted with 1/20 H.P. 400 RPM AC/DC Motor with a speed regulator. Fitted on a heavy cast iron base. To work on 220/230 Volts A.C.

CAPACITY	WITHOUT DRILL CHUCK	WITH DRILL CHUCK
A) 5 ml. or 10 ml		
B) 3 ml. or 50 ml		
C) 100 ml		



HE-164

OPTIONAL ACCESSORIES

- A) Automatic 0-60 min 1200.00 tc "GERMAN" Timer

HE-165 : MICRO TISSUE HOMOGENIZER (Disintegrator Virtis Type)

For reduction of tissues, preparation of emulsions, different solutions etc. A powerful 1/10 H.P, 8000 RPM. Motor controlled by a speed regulator fitted with a stainless steel shaft with micro cutting blades is mounted on a stand. Rapidly rotating razor sharp blades provides fast and through reduction of



HE-165

Tissue, for preparation of emulsion of different solutions etc. Micro homogenizing bottles for samples of 2 to 30 ml, 5 to 50 ml and 10 to 100 ml is supplied with the unit. To work on 220 volts A.C.

HE-166: TISSUE HOMOGENIZER (Disintegrator Virtis Type)

High speed disintegrators for homogenization of the tissue and other soft material for culture and injection. High speed tissue homogenizer is fitted with 8000 RPM Motor. It has an aerosol assembly of S.S. which eliminates the hazard of dangerous aerosol homogenizing procedure. The speed is controlled with speed regulator complete in all respect with speed regulator and three S.S. cups one each of capacity 100 ml. & 500 ml.



HE-166

OPTIONAL ACCESSORIES

A) Automatic 0-60 minute "GERMAN" Timer

HE-167: AEROSOL DISINFECTOR (S.S. BODY)

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 minutes, To work on 220/230 V.A.C.

A) Capacity 1.5 liters

B) Capacity 5.00 liters



HE-167

OPTIONAL ACCESSORIES

A) Automatic "GERMAN" Timer

HE-168: HUMIDIFIER (S.S. BODY) (CAP.5.0 LITERS)

Based on the rotating disc splash plate principal, It produce only super fine particles of micron size, which become part of the atmosphere, thereby reaching every corner of the room, resulting in uniform humidity. Due to the upward thrust imparted to the micron sized water droplets, by high speed motorized unit, they remain suspended in the atmosphere for longer duration of time. Time unit is capable of atomizing unto 3 liters of water in an hour at full evaporation in the driest possible ambient conditions. The unit has body made up of S. Steel Unit is effective for an enclose space of volume unto 40 cu. mts.. The unit is provided with high speed 2800 RPM motor to run longer period, and the blades are aerodynamically balanced to ensure drop less fumigation. To work on 220/230 volts. A.C. supply.



HE-168

OPTIONAL ACCESSORIES:

A) Control box with humidistat

B) Automatic 0-60 minutes "GERMAN" Timer

HE-169: ANAEROBIC CULTURE JAR (B.T.L TYPE)

Modified Macintosh and Fildes pattern has all metal construction of a S.S. Jar with a top flange recessed for a thyroidal rubber sealing ring and a cover held in place by a strong bridge clamp. The cover is fitted with two needle valves for evaluation and a sachet containing a catalyst. Aside arm on the jar is provided for connecting to Semisolid Lucas Indicator. (The unit is supplied without Semi-Solid Lucas Indicator). Supplied complete with pressure-cum-vacuum gauge. (A) Size: 12 cm (dia) x 20 cm (ht)



HE-169

HE-170: PASS BOX

MADE S. Steel Fitted with UV Tube & Florocent Tube & open from both side.



HE-170

HE-170(A): SAMPLING BOX

Made of S.S. 304 grade fitted with heap-fitters, Pre-Filters & U. V. Light covered two sides with Acrylic sheet



HE-170 A

HE-171 : VACUUM PUMP (Mono block, Beltless with Moisture Trap & Vacuum Gauge)
CAPACITY

- A) 45 ltrs, fitted with 1/4 H.P. Motor
- B) 75 ltrs, fitted with 1/2 H.P. Motor


HE-171
HE-172: ROTARY VACUUM PUMP

"HARRISON" Vacuum Pump are mounted on a heavy steel base plate, and have a wide range of oil sealed pumps. Fitted with heavy duty electric motor, all pumps are V-Belt driven at a speed of 1400RPM. Pumps are fabricated out of high grade cast iron and are worked on sophisticated machines to give accuracy in microns, thus leading to very high sustained vacuum. Supplied in single stage or double stage models. All "HARRISON" vacuum pumps are fitted with belt guard, vacuum gauge as a standard feature. To work on 220/230 volts A.C. supply.


HE-172

CAPACITY	MOTOR CAPACITY	WITH PERFECT / EQUIVALENT MOTOR	
		SINGLE STAGE	DOUBLE STAGE
A) 50 ltr/min	0.25 H.P.		
B) 100 ltr/min	0.50 H.P.		
C) 200 ltr/min	1.00 H.P.		
D) 300 ltr/min	1.00 H.P.		
E) 500 ltr/min	2.00 H.P.		

OPTIONAL ACCESSORIES

- A) Moisture Trap
- B) Vacuum Gauge with regulator
- C) Non Return Valve

HE-173: VACUUM-CUM-PRESSURE PUMP (DIAPHRAGM TYPE) (BELTLESS AND OIL FREE)

It is double stage pump to create vacuum through a diaphragm, where continues operations are required without the fear of sample contaminations through oil vaporous where even a slightest Environment contamination through oil mist is forbidden. To work on 220/230 volts A.C.

- A) Capacity 25 ltr. / min. air displacement (DOUBLE HEAD)
- B) Capacity 45 ltr. / min. air displacement (DOUBLE HEAD)


HE-173
HE-174 : HIGH PRECISION DIGITAL MELTING POINT APPARATUS

Melting point is displayed on the 3 1/2 digit mounted on the front panel, the instrument basically consists of a miniature furnace with controllable heating rate arrangement, an air circulating arrangement and a digital temp. indicating circuitry with necessary controls, Temp. at the melting point is latched on the digital display and the furnace is automatically Cut-off. The rate of rise of rise in temp. can be precisely controlled by a knob on the front Panel. The instrument gives audio & visual indications, on reaching the temp. at which the sample melts. the temp. indicating point of the sample remains displayed on the panel till the clear press switch marked "CLEAR" is operated. The range of the instrument is 40°C to 350°C. Readability is 1.0°C with accuracy of + 1°C. The unit works on 230 Volts/ 50 Hz. A.C.


HE-174
HE-175: 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 aluminum block accept three capillary tubes and mercury thermometer. The temp. is regulated by energy regulator fitted to the unit. The lamp provides uniform and shadow less regulator fitted to the unit. Supplied without capillary tubes and thermometer.

- (B) WITH DIGITAL TEMP. INDICATOR, COOLING FAN


HE-175
HE-176: PENETROMETER APPARATUS

As per IP 49,50 & 167 specifications and also per IS 1448 (P: 60) & (P: 93) This apparatus is used for penetration test on a wide variety of materials such as greases, petroleum, bitumen, tar, wax, polish, food stuff, rubber asphalts and pharmaceutical Creams. The dial graduate from 0-400 in one tenth


HE-176

Millimeter Sub Division.

B) ----- DO----- With Digital Timer Device

HE-177: AUTOMATIC PIPETTE WASHER

It operates on siphoning principal. Consists of S.S. washing cylinder and removable pipette holder To accommodate pipettes up to 375 m.m. in length.



HE-177

HE-178: PIPETTE DRYER

Made of S.S. Very efficient for drying pipettes. A low heater is fitted in base chamber. It takes Burettes, Columns and other glassware up to 375 m.m long . Suitable to operate on 220 Volts 50 Cycles A.C.



HE-178

HE-179: COLONY COUNTER DIGITAL

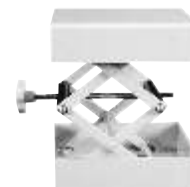
Fitted with automatic 4 digits LED Digital Display. Counting plate with illuminated standard wolffhugel ruling ensures clarity differentiated and sharply defined colonies. Each touch of marking pencil in the digits increments the colony count by '1' and the glowing LED Display depicts the total colony count. Maximum colony count possible up to 9999 Provided with a manual reset of digital display, ON/OFF Switch, counting plate, 100 m.m. dia lens, cord and plug. To work on 220 V.A.C



HE-179

HE-180: LABORATORY JACK (MADE OF S. STEEL TOP)

SIZE: 15 X 20 cm 20 x 20 cm



HE-180

HE-181: RECTANGULAR HOT PLATE (WITH CAST IRON TOP)

For continuous heating upto 350°C. The body is made of specially designed perforated P.C.R.C. Sheet painted with attractive stove enamel with insulated elements. To work on 220/230 volts A.C.



HE-181

SIZE (B x L x H)

- A) 20 x 30 x 15 cm (10" x 12" x 6")
- B) 25 x 40 x 15 cm (10" x 16" x 6")
- C) 30 x 45 x 15 cm (12" x 18" x 6")
- D) 45 x 60 x 15 cm (18" x 24" x 6")

OPTIONAL ACCESSORIES

- A) Thermostat Controller.
- B) Digital Temperature Controller.

HE-182: HOT PLATE ROUND (WITH CAST IRON TOP)

The body is made of P.C.R.C sheet duly powder coated paint. The top cast iron heating plate is round having 20 cm. Dia, with heating elements of 1.5 kw rating. Temperature is controlled by energy regulator up to 350°C



HE-182

HE-183: SLIDE WARMING TABLE (STAINLESS STEEL TOP)

It is very useful for heating slides to a uniform constant temperature below the melting point of wax. The surface temperature is controlled by hydraulic type thermostat from ambient to 90°C. Supplied complete with pilot lamp, cord and lamp, but without thermometer. To work on 220/230 volts A.C. supply.

- A) Size: 600 x 150 mm
- B) Size: 300 x 150 mm



HE-183

HE-184: HEATING MANTLE (MADE FROM GLASS YARN)

It withstands high temperature up to 350°C. The body of the mantle is spun one piece from non-rusting Aluminum (upto 10 Liters Capacity) duly powder coated. All heating mantles are lagged With special grade mineral wool. To work 220/230 Volts. A.C.



HE-184

CAPACITY	DELUXE WITH ENERGY REG.	WITH ENERGY REGULATOR	SPARE MANTLE
----------	-------------------------	-----------------------	--------------

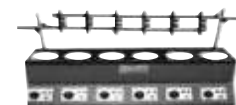
- A) 50 ml or 100 ml
- B) 250 ml or 500 ml
- C) 1 ltr
- D) 2 ltr
- E) 3 ltr
- F) 5 ltr
- G) 10 ltr
- H) 20 ltr

HE-185: KJELDAHL DISTILLATION UNIT

This is very useful for distillation purpose for 300ml. and 500ml, 800ml capacity flasks. Provided with condenser rack and clamp. To work on 220/230 V.A.C. Supply.

DELUXE MODEL

- A) Unit of 3 test Mantle Type (Without glass parts)
- B) Unit of 6 test mantle Type (Without glass parts)



HE-185

HE-186: KJELDAHL DIGESTION UNIT

It is very useful for estimation of Nitrogen content in the substance by digestion for 300 & 500 ml. Capacity flask Provided with LEAD FUME DUCT and pair of hangers. To work on 220/230 A.C. Supply.

DELUXE MODEL

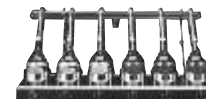
- A) Unit of 3 test Mantle Type (Without glass parts)
- B) Unit of 6 test Mantle Type (Without glass parts)



HE-186

HE-187: MICRO KJELDAHL DIGESTION UNIT

This apparatus is used for estimation of nitrogen content in the substance by digestion in micro flasks of capacity 30, 50 & 100ml. The housing is made of M.S. painted with attractive stove enamel. To work on 220/230 Volts A.C. Supply.



HE-187

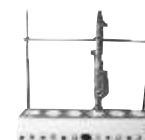
SUPPLIED WITH LEAD FUME DUCK

- A) Unit of 6 test Mantle Type (Without glass parts)

DELUXE MODEL

HE-188: SOXHLET EXTRACTION UNIT

Ideal heater for the extractors of soxhlet and other types. This apparatus is suitable to heat soxhlet



HE-188

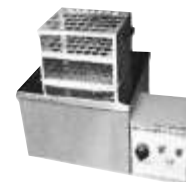
Flasks of 50-500ml. It consists of M.S. sheet housing, two vertical & two horizontal rods With adopters and screws to hold the flasks. To work on 220/230 A.C. Supply.

MANTLE TYPE

- A) Unit of 3 test Mantle Type (without glass parts)
- B) Unit of 6 test Mantle Type (without glass parts)

HE-189: KJELDAHL DIGESTION UNIT FOR 40 TUBES (Tubes Heating Block).

The equipment has a very casted top with room for heating 40 digestion tubes of 75ml. Each. Heating elements are spaced uniformly so that the entire caste top, and thus the tubes, attain the same temperature throughout. Temperature is controlled by Digital Temp. Controller. The gap between the elements and outer M.S. painted wall is fitted with high grade mineral wool to avoid thermal loss. To work on 220/230 volts A.C. Supply 40 tubes dia 24mm.



HE-189

OPTIONAL ACCESSORIES

- A) To Heat 40 tube 24mm.
- B) To heat 20 tube 38mm.

HE-190 (A): COD DIGESTION APPARATUS

To determination of Chemical Oxygen Demand. It is a solid state block heated unit with provision for samples to be digested at a time in 38mm. dia reaction vessels with 20 ml sample size to heat at temp. of 150°C+ 1°C controlled by solid state digital temp. indicator-cum controller Micro Processor Based (P.I.D.). It has provision for 15 samples and is supplied with 15 nos. glass reaction vessels and 15 nos. air condensers. Fitted with a 2 hour timer, the samples after being digested for 2 hours can be analyzed using calorimeter or conventional titration method. To work on 220/230 volts A.C.



HE-190 A

HE-190(B): PRECISION ROTARY MICROTOME (A.O. Spencer Type)

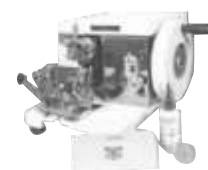
It has a forn tlocate feed indicator with CAM DRIVE SYSTEM setting from 1-50 microns in steps of 1 micron each. The object clamp takes specimen upto 32x27 m.m on stem of block holders. The cutting micron each. The object angle is adjustable through 30 degrees Two levers are provided for relasing knife holder for resetting angles and a third lever releases the entire assembly for movement on side ways to adjust horizontal distance from object. Supplied with one knife of special alloy steel 120 m.m long with back and handle in box, 3 block holders, one honing stone, one bottle of lubrication oil and dust cover.



HE-190 B

HE-191: PRECISION ROTARY MICROTOME (Lipshaw Type)

IT IS USEFUL FOR SECTIONING OF BONE TISSUE. The wheel is counted balanced with locking Device and has automatic feed and release mechanism. A light cover hinged at back is provided for protection of internal parts form dust. Feed range of 1-50 microns in step of 1 micron each, is controlled smoothly by "DIAL CONTROL" in the rigid front position. For easy positioning of the object to the knife and for returning the feed to the starting position. The feed crank is located at the left side of the microtome, and the feed pawl automatically ceases to function when the feed reaches the extreme forward position. It incorporates ball and flange type object holder for positioning of the object at desired position, Complete with 120 mm. knife with back and handle in case, 6 block holders. honing stone, bottle of lubrication oil and dust cover.



HE-191

HE-192: PRECISION ROTARY MICROTOME (Ermajapan Type)

It incorporates a bal and flange type object holder for specimen centering. Knife holder with lateral movement permits use of complete knife edge and has a ffeed range of 1-25 micron in steps of 1 micron each, Supplied complete with one knife 120 m.m. long with back and handle in bod, 3 block holders, one honing stone, one bottle of lubrication oil and dust cover



HE-192

HE-193: FREEZING MICROTOME (Ermajapan Type)

Having a table device with a feed range of 5-40 microns in step of 5 microns each. Based on the principle of freezing with the evaporation of CO2 cylinder around the specimen. The unit is supplied complete with freezing attachment with specimen stage of 32 m.m. dia, gas pipe, on knife of 120 m.m. with back and handle in case of honing stone. Supplied without CO2 gas cylinder



HE-193

OPTIONAL ACCESSORIES

- A) CO2 Gas Cylinder (Capacity 10 liters)
- B) Spare stage for frozen section
- C) Gas pipe

HE-194: MICROTOME ACCESSORIES

- | | | | |
|---------------------------------------|----------|----------|----------|
| A) Block Holder (Made of Brass) | 37mm dia | 25mm dia | 20mm dia |
| B) Spare Microtome Knife | 120 mm | 150 mm | 180mm |
| C) L-Moulds (Embedding Mould) | | | |
| I. 37 x 25 x15 mm (per pair) | | | |
| II. 50 x 25 x 15 mm (per pair) | | | |
| III. 75 x 30 x 19 mm (per pair) | | | |
| D) Honing glass plate (in wooden box) | | | |
| E) Leather Strap | | | |



HE-194

HE-195: SOIL PH AND MOISTURE TESTER

HE-196: AUTOMATIC KNIFE SHARPENER (A.O. Spencer Type, Modified Advanced Model)

Fitted with geared motor which ensures an equal level angle by moving the knife to and fro and in the process reversing the same at regulator intervals. A transparent hinged cover is fitted at top to prevent dust, An adjustable 0-60 minute timer is fitted to the unit for sharpening for a pre set duration, Knives of length up to 185 m.m. can be sharpened on the unit. Supplied complete with one universal Knife holder one redressing pad, two honing plates and cord plug To work on 220/230 A.C.



HE-195



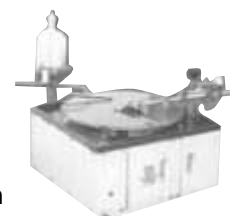
HE-196

OPTIONAL ACCESSORIES

- A) Micro Abrasice (Set of two bottle of 200 gms)
- B) Spare glass plate
- C) Spare knife holder

HE-197: AUTOMATIC KNIFE SHARPENER (ARTHUR THOMAS TYPE)

The unit is fitted with assembly for perfect cutting edge of the knife of any size up to 300 mm. Automatic reversing of the knife takes place at regular intervals for equal level angle on both sides of its edge, and the sharpening process is across full dia meter of the rotating plate. The plate is rotated at a constant speed by "AUE" / "CROMPTION" 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 50m.m.(dia)x 12 m.m. (thick). A metal scale graduated from 2 to 25 degrees division indicates the exact angle between with dust cover and cord and plug, to operate on 220/230V A.C. Fitted with " GERMAN" Timer.



HE-197

OPTIONAL ACCESSORIES

- A) Micro Abrasice (Set of two bottle of 200 gms)
- B) Spare glass plate
- C) Spare knife holder

HE-198: SLIDE CARRYING TRAY

Made of heavy gauge aluminium sheet to hold 20 slides in flat position.



HE-198

HE-199: INSECT SHOWCASE CABINET

Made of thick board, covered with MICA. Dust proof lockable door. Showcase are made of teakwood having 5 mm thick papered cork sheet for pinning. Double walled fumigation chamber perforated for pesticide with

6 show case for 18" x 12" x 2 ½

12	DO	.
18	DO	.
24	DO	.



HE-199

HE-200: SLIDE CABINET

For storing 3"x1" slides in vertical position one after the other in a closed pack manner. Made of wood duly painted. Each drawer moves in a slot and is removable for easy lifting. Complete with lock and key.

CAPACITY:

PRICE:


HE-200
HE-201: DIGITAL THERMO-HYGROMETERS

HUMIDITY

Range: 20-99% RH

TEMPERATURE

Range: 0-50 C


HE-201
HE-202: INFRARED LASER GUN THERMOMETER

Range -50-+400°C, Big Display, Backlit, C/F, RESO: 01°C


HE-202
HE-203: DIGITAL SOUND LEVEL METER

Range 30-13Db


HE-203
HE-204: CHART CABINET

For 40x30 Chart

For Bio-Visual Chart


HE-204
HE-205: GLOSS METERS

Range :0-100% at different geometry 45°, 60° angle head


HE-205
HE-206: LEAK TEST APPARATUS COMPLETE

WITH VACUUM PUMP & TIMER


HE-206
HE-207: DIGITAL AUTOMATIC KARLFISHER APPARATUS

Having combined units with array of 10 LED'S, buzzer, auto burette, adjustable timer, dual platinum electrode and other accessories.


HE-207
HE-208: SUBMARINE ELECTROPHORESIS SYSTEM (HORIZONTAL ELECTROPHORESIS)

FOR DNA / RNA SEPARATION, is supplied complete with 99.9% PURE PLATINUM ELECTRODES, Gel casting tray, one comb with terminal lead.


HE-208

GE PLATFORM SIZE

- A) 60x75 mm
- B) 75x100 mm
- C) 100x125 mm
- D) 125x150 mm

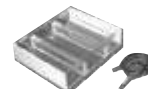
- E) 150x200 mm
- F) 200x250 mm

OPTIONAL ACCESSORIES

- A) Leveling table for gel casting size: 30x30 cm
- B) Leveling table for gel casting size: 15x15 cm
- C) Comb stand for gel platform. (for any of above sizes)
- D) Acrylic comb 8 well or 13 well of thickness
0.4 mm / 1.5 mm / 2 mm / 3 mm
- E) Acrylic comb 3 well or thickness 3 mm/6 mm
- F) Developing chamber (light proof)

HE-209: PAPER ELECTROPHORESIS APPARATUS

Paper Electrophoresis Apparatus (Horizontal Migration Cell) is made of transparent, inert acrylic plastic sheet. PLATINUM ELECTRODES OF 99.9% PURITY extend through the entire width of the buffer compartment. It can accommodate six paper strips of 4 cm width or paper/sheet up to 28 cm width on removable special strip carrier placed on the bed of the chamber. 8500.00



HE-209

OPTIONAL ACCESSORIES

- A) Gel Cutter
- B) Gel Tray Set
- C) Starch Gel Tray

HE-210: VERTICAL SLAB GEL ELECTROPHORESIS APPARATUS

Made out of thick Perspex sheet with fixed upper and lower buffer tanks with 1 comb, 3 spacers, 1 plain glass plate, 1 notched glass plate, clamps, electrode terminals & PT. ELECTRODES OF 99.9% PURITY.

- A) Fixed Height
- B) Adjustable Height.
(WITH S. S./ PLEXIGLASS RODS)



HE-210

OPTIONAL ACCESSORIES

- A) Rectangular notched glass plates
8cm or 11cm x 13cm or 19 cm x 22cm
- B) Gel casting unit
- C) Combs of 7 wells or 9 wells of 13 wells of thickness
1.5mm/1.0mm/2.0 mm
- D) Preparative comb of 3 wells of thickness 3.0 mm.
- E) Acrylic spacer
(Set of 3pcs.) of size 0.5mm /1.0mm /1.5mm /2.0mm /3.0mm

HE-211: IMMUNO ELECTROPHORESIS APPARATUS

It is a paper and thin layer electrophoresis apparatus combine in one. It Comprises of double walled migration cell. Inner chamber is the buffer fitted with platinum electrodes of 99.9% purity. It has transparent lid provided with a handle. The same chamber could be used of micro slides of paper strips carrier. Filter paper wicks may be used for connecting both ends of each micro slide to the buffer compartment. Wicks cut from chromatography paper are used to make contact with the buffer. The following useful attachments are supplied with unit:

- 1) Micro Slide Carrier: This is a Micro Immunological accessory which permits the simultaneous study of Eight 3"x1" Standard agar coated micro slides
- 2) Paper Strip Carrier : This makes it possible for the tank to be used for paper electrophoresis after the Micro slide Carrier has been removed. Unit supplied with all above features.



HE-211

OPTIONAL ACCESSORIES

- A) Gel Cutter
- B) Gel Tray Set
- C) Starch Gel Tray

HE-212: DISC/TUBE GEL ELECTROPHORESIS SYSTEM

Fractions take the form of sharp discrete disc. It is a circular bath assembly with a leakproof chamber fitted with 12 gel tubes. The design has been made with detachable upper chamber, fitted with 99.9% PURE PLATINUM ELECTRODES, cable socket and buffer chamber having 12 destaining tubes



HE-212

OPTIONAL ACCESSORIES

- A) Gel Cutter
- B) Destaining Tubes (Per Dozen)
- C) Gel Tubes (Per Dozen)
- D) Gel Tubes Stand
- E) Grommets (Per Dozen)
- F) Syringes (10 ml. Cap.) with needle
- G) Gel Destainer (Small)

HE-213: ELECTROPHORESIS POWER SUPPLY DIGITAL (CONSTANT VOLTANT CURRENT)

If delivers a current of any value between 1-100 MA (500 Volts Max.) in a constant current mode, and a voltage of 0.500 Volts (100mA MAX.) in constant voltage mode. The range control potentiometer makes the output adjustable over the entire range of the unit. It has line and load regulation+ 0.5% and rapple less than 10 mV. All Supplies are short circuit and overload protected. Range 0 500 volts & 0 100mA (with Two Digital Meters)



HE-213

HE-214: BUTYRO REFRACTOMETER (OIL & SUGAREFRACTOMETER)

If has a double scale. One is Oil Scale (Butyro Scale) having range of 0 to 100 and accuracy of + 0.1read directly on the micrometer. The other is sugar scale having a range of 50-80% with an accuracy of + 1% read direct on scale



HE-214

OPTIONAL ACCESSORIES

Circularity Water Bath

HE-215: ABBE REFRACTOMETER

Used for measuring refractive index in the range 1.3 to 1.7 with an accuracy of .001 direct on scale and 0.0001 by estimation, Sugar percentage range of 0 to 95% with an accuracy of 1% on scale and 0.1 by estimation can be measured. Complete with test piece, Contact liquid and thermometer in wooden cabinet.



HE-215

OPTIONAL ACCESSORIES

Circularity Water Bath

HE-216A: HAND REFRACTOMETER

These instruments are widely used for measuring the sugar concentration of sugar cane, Fruit juice syrups, jams, cola, confectionery products and liquid

RANGE

- A) Range: 0-32%
- B) Range: 28-62%
- C) Range: 58-92%
- D) Range: 0-50%
- E) Range: 40-85%



HE-216 A

HE-216B: DIGITAL REFRACTOMETER (ATAGO JAPAN)

For juice, coffee, industrial fluids. Cutting oils.

RANGE BRIX

- 0-53%
- 45-93%



HE-216 B

HE-217: RESEARCH POLARIMETER

The overall improvement in its optical design, ensures permanent and undisturbed focus, Its highly accurate glass scale is divided to read angular degrees and also carrier sugar scale in I.S.S. Units. The angular scale from 0 to 360 degree is sub divided to 1 degree to enable direct reading to 0.05 degree and by estimation to 0.02sugar degrees. The sugar scale from 30 degree to 120 degree. Supplied Complete with polarimeter tube, Sodium Lamp, transformer instruction manual.

- A) Tube size 220mm with Rotating Half Shadow
- B) Tube size 400mm with Rotating Half Shadow



HE-217

OPTIONAL ACCESSORIES

- A) Sodium lamp housing / pipe fitting with holder
- B) Sodium vapour lamp (35 Watts)
- C) Sodium Lamp transformer 35 Watt
- D) Pole Tube 220 mm

HE-218: BOMB CALORIMETER (DIGITAL WITH SAFETY DEVICE)

For determination of heat combustion of organic matter and calorific value and sulphur content of coal, solid and liquid fuels. The Bomb has a capacity of 300 ml approximately a provided with a high pressure Schroder valve. Tested as per the requirement of institute of. Petroleum (IP 12/63T). Supplied with, Bomb Calorimeter Vessel with Bomb Support, Water Jacket, Combined Lid for Calorimeter Vessel and PUF Jacket, Stirrer, Connecting leads, Connecting tube to connect bomb and pressure gauge. Connecting tube with fine adjustment valve to connect pressure gauge and oxygen cylinder pressure gauge on stand, spanner for oxygen tube connection, ignition wire (2 meters) Nicrome, Cotton Reel, Stand, spanner for oxygen tube connection, ignition wire (2 meters) Nicrome, Cotton Reel, stand for Unit, Pellets Press, Digital Backman Thermometer, Benzoic Acid, 'O' Ring Small, 'O' Ring for stirrer, Valve for Bomb and Valve Key. Supplied without oxygen cylinder (optional)



HE-218

OPTIONAL ACCESSORIES

- A) Oxygen cylinder (small)

HE-219: ULTRAVIOLET FLUORESCENCE ANALYSIS CABINET

For visualization of test objects under U.V. tube having long wavelength (365 mm) and short wavelength (254 mm) 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.

- A) With short wave tube
- B) With long wave tube & short wave
- C) With long wave tube & day light tube



HE-219

HE-220: INFRARED MOISTURE BALANCE (WITH ELECTRONIC REGULATOR)

With Electronic Regulator, Very easy to operate with an accuracy of 0.2% by direct reading, 0.1% by estimation. Complete with 'L' bend thermometer, 10 disposable pans, one tweezer, and instruction manual. Available in 5gms, 10gms, or 25gms. Capacity (Price remains the same for any capacity)

- A) do- WITH MEGAVOLT (VARIABLE STEP TRANSFORMER)



HE-220

HE- 221: MAGNA SCOPE (ILLUMINATED MAGNIFIER)

A) Powerful tool in dissection study of Zoological specimens, Botanical specimens, Industries etc. Ergonomically designed, The optical system feature 130 m.m. dia lens having a view dia of 120mm Illumination consists of a 22 watts circular tube for shadow less cool glare free view, it has a area magnification of 4x and can be magnified up o 10x using an auxiliary parallel lens (optional)

- A) Table Model on stand
- B) Table Clamping model

HE-222: FLASH POINT APPARATUS (ABEL'S TYPE)

Suitable for determination of close cup flash point of petroleum production. It is designed as per IP-33 and IS-1448 (part-1) 1985 (P:20). It is suitable for oils whose flashes below 70°C. Supplied with oil cup cover assembly fitted with stirrer, thermometer socket, S.S Water Bath, stand & electric heater is



HE-222

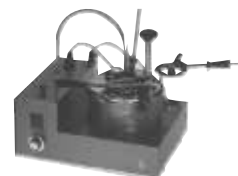
fitted at bottom for operation on 220 volts.

OPTIONAL ACCESSORIES

- l) IP temp thermometer

HE-223: FLASH POINT APPARATUS (PENSKEY MARTEN TYPE)

It is designed as per IP 34, ASTM D 93 and IS 1448 (part-1) IS 1209-1953 method B. The apparatus consists of brass test cup, lid with handle, removable cup cover with spring operated rotating shutter having oil test jet and flexible shaft. Electrically heated with energy regulator Control suitable to operate on 220 volts A.C.



HE-223

OPTIONAL ACCESSORIES

- 1) IP Temp thermometer

HE-224: FLASH POINT APPARATUS (CLEAVE LAND TYPE)

It is designed as per IP 36 IS 1448 (P 69) 1969 and ASTM D-92-57 specification. It is used for determination of flash point and fire point of petroleum products except fuel oil with open cup flash below 80°C. It consists of brass cup, heating plate, thermometer clamp, test flame attachment with swivel joints for passing over test liquid surface in prescribed manner. Electrically heated with energy regulator and supplied with.



HE-224

OPTIONAL ACCESSORIES

- 1) IP Temp.

HE-224(A): TAR VISCOMETER

As per IP 72 and IS 1206 standard It is used for determination the viscosity of road oils and bitumen. It consists S.S. bath with cup of 10 mm or 4 mm orifice suitable to operate on 220 volt A.C. mains.



HE-224 A

HE-224(B): SAY BOLT VISCOMETER APPARATUS

As per ISTMD 88 specification with universal and furol jets made of stainless steel (without strainer, withdrawl tube & glassware.) suitable on 220 volts A.C. Mains.



HE-224 B

HE-225: REDWOOD VISCOMETER No.1

As per IP 70 (former) specification. Fitted with energy regulator and specification without thermometer (Flow Range 20 sec. to 2000 sec.)



HE-225

OPTIONAL ACCESSORIES

- 1) IP Thermometer
- 2) Flask Receiver 50ml. Cap.

HE-226: REDWOOD VISCOMETER No.2

As per IP 70 (former) specification. Fitted with energy regulator and specification with Thermometer (Flow Time exceed 2000 sec.)



HE-226

HE-227: BLOOD CELL COUNTER (Clay Adan Type)

It used for counting blood cells, wherein each unit counts upto 999 and the totalizer unit indicator the total of different cells. A bell automatically sounds at every hundred count. Complete with storing case.

- A) 5 Keys and one Totalizer
- B) 8 Keys and one Totalizer



HE-227

HE-228: DIGITAL BLOOD CELL COUNTER

With Automatic Percentage Calculation It is a Micro Computer Calculator integrated with counting, analysis & monitoring with 10 groups, two place and ten carries.

HE-229: THIN LAYER CHROMATOGRAPHY KIT (TLC KIT)

A) Complete with aluminum applicator (Thickness of the layer varied from 1 mm to 2 mm) thin layer drawing board, drawing rack, developing chamber, spotting jig, silica gel pipette, Glass plates (6 Nos) and glass sprayer with bulb


HE-229
OPTIONAL ACCESSORIES

1) Spare Brass Applicator

HE-230: BONE AND MEAT CUTTING MACHINE (G.S.TABLE)
OPTIONAL ACCESSORIES

A) Spare cutting 2 blade

HE-231: DIGITAL TURBIDITY METER

RANGE UP TO 1000 NTU/JTU

HE-232:TIMBER MOISTURE METER (DIGITAL)

For direct reading of surface moisture Ply or wood, the instrument is housed in cabinet complete with need work on 9 volts battery. Range from 2-30% has an accuracy of + 1%

A) ANALOGUE MODEL

B) DIGITAL MODEL


HE-232
HE-233: SEED / FOOD GRAIN DIGITAL MOISTURE METER

It is a light weight portable instrument designed to detect moisture in food grains, pulsed, oilseeds, vegetable seeds, spices and other granular substances. The grain are compressed and conductivity noted with type electronics. Digital model is Super Microprocessor Based and is with rugged. Direct readable on 3 digit L.E.D. display with measuring range of 5-40% with an accuracy of + 0.2%. It gives direct reading on digital display.

A) Battery Operated (for single item) (DIGITAL)

B) Multiple use for all seeds (DIGITAL)


HE-233
HE-234: DIGITAL SALINITY METER

A) Range 0 to 200 PPM, 2PPT, 200 PPT, 1000 PPT)

B) -do-but with measurement of Salinity, Conductivity and Temp. All Combined


HE-234
HE-235: DIGITAL ELECTRONIC WATER ANALYSER KIT (PORTABLE FOR FIELD USE)

Based on advance electronic technology for water analysis, pollution control, laboratory analysis, soil testing etc. Complete unit is housed in a briefcase to work on battery -cum-mains. Units is supplied without O.R.P. Electrode.

pH MEASUREMENT

Range : 0 to 14 pH Continuos

Resolution : 0.01pH

Accuracy : + 0.1pH + 1 digit (relative)

Temp Compensation : 0 to 1000 C (Manual)

ORP MEASUREMENT

Range : 0 to + 1999mV.

Resolution : 1 mV

Accuracy : + 0.1% + 1 digit

TEMP MEASUREMENT

Range : -0 to 100° C

Resolution : 0.1° C

Accuracy : + 0.5% of range + 1 digit.

Sensor Input : PT-100 R.T.D. Type

COND MEASUREMENT

Range : (0 to 1000 mm hos in 5 ranges)

T.D.S. MEASUREMENT

Range : 0 to 100 PPM, 0 to 1000 PPT.

10 PPT, 0 to 100 PPT & 0 to 1000

Resolution : 0.1 PPM (Lowest range)

Accuracy : + 5 of range + 1 digit

D.O. Measurement

Range : 0 to 20 PPM


HE-235

Resolution : 0.1 micro mho (lowest range)	Resolution : 0.1 PPM
Sensor Input : + 0.5% of range + digit.	Accuracy : + 0.2 PPM + digit
Temp CO-Eff. Comp. : Automatic from D.O. Probe	Temp Comm.: 5° C to 55° C (Manual)
	: Amperometric Gold / Silver membrane Type

0° C to 70° C with PT-100 Sensor.

- A) Six Parameters : (pH, Conductivity, TDS, ORP, DO and temp.)
- B) Five Parameters : (pH, Conductivity, ORP, DO and temp.)
- C) Five Parameters : (pH, Conductivity, ORP, TDS and temp.)
- D) Seven Parameters :
(Turbidity, pH, Conductivity, TDS, ORP, DO and temp.)
- E) Eight Parameters :
(Turbidity, Salinity, pH, Conductivity, TDS, ORP, DO and temp.)
- F) Three Parameters : (Salinity, Conductivity and Temp.)
- G) pH Meter in briefcase : (for field use)

OPTIONAL ACCESSORIES

- (a) O.R.P. Platinum Electrode to cost extra

HE-236: Ph METER DIGITAL

Most useful for pH and redox potential measurements, Supplied with slope correction facility.

Display : 4 digit
 Range : pH=0 to 14 pH continuous, MV=0 to + 1999MV
 Resolution : pH=0.01pH, MV= 1Mv
 Accuracy : pH=0.01pH (Relative), MV=0.1%+ 1 digit.
 Temp. Compensation : 0-100° C (Manual)

Supplied complete with combined pH electrode with Gold Plate BNC Connector, Two plastic bottles. Electrode stand and instruction manual. To work on 220/230 A.C. Supply. 7500.00



HE-236

OPTIONAL ACCESSORIES

- A) Automatic Temp. Compensation with PT-100 probe extra
- B) pH Electrode 0-14pH

HE-237: PEN TYPE Ph METER (DIGITAL) (0-14 pH)

- A) Accuracy + 0-2 pH
- B) with ATC's Replaceable Electrode



HE-237

HE-238: DIGITAL CONDUCTIVITY METER

DISPLAY : 4 digit LED
 Range: : Conductance = 0.1μ mho to 1000 mm hos in 5 Range,
 0-200 mm hos, 2mm hos, 20mm hos 200 mm hos, 1000mm hos,
 Resistance = 0.1ohm to 2 M ohm in 5 range, 0 to 200 ohms, 2K
 Accuracy: : Conductance=+0.5% of range + 1 digit.
 Resistance =+ 0.5% of range + 1 digit.

Supply: : 220 / 230 Volts + 10% 50 Hz A.C. built in stabilizer.
 Supplied with Conductivity cell, Dust Cover and instruction Manual.



HE-238

OPTIONAL ACCESSORIES

- A) Automatic temp. compensation facility with PT-100 Sensor
- B) Spare Conductivity Cell

HE-239: DIGITAL T.D.S. AND CONDUCTIVITY METER (COMBINED)

Display 4 digit LED, Cond. 0 to 200immhos, 2mmhos, 20mmhos, 1000mmhos and T.D.S. 0 to 200 PPM 0 to 2000 PPM, 0 to 20 PPT, 0 to 200 PPT, 0 to 100 PPT, Resolution in lowest range of cond. = 0.1 Micro mho, Resolution in 1 lowest range to T.D.S.= 0.1PPM, Accuracy + 0.5% of range + 1 digit. Supplied with T.D.S Cond. Cell (one No.), dust cover and stand.



HE-239

HE-240: PHOTOELECTRIC CALORIMETER DIGITAL (8 FILTERS)

It is a rugged, reliable elegant and compact blood and chemical analyzer. It performs the end point chemical and biochemical analysis accurately and concentration and displayed directly on the digital display. It has 8 high standard glass filters ranging from 400 to 680 nm. wave length. Complete with 6.8V/250mA tungsten lamp light source, special selenium Photocell Detector and sample system of



HE-240

HE-241: DIGITAL DISSOLVED OXYGEN METER

Display : 3 digit LED / LCD.
 Range : D.O.=0 to PPM, Temp. =-200°C to 200°C.
 Resolution : D.O. = + 0.2PPM + 1 digit.
 Temp. + 0.1°C
 Accuracy : D.O.=+ 0.2PPM + 1 digit,
 Temp.=+ 0.5% of range + 1 digit.
 Temp. Compensation : 5°C to 55°C (Manual)
 Power Supply : 220/230V+ 10% 50 Hz A.C.
 Complete with D.O. Probe, Temp. Probe, D.O.
 -Membranes 30 Nos., and Manual
 (B) do but with mini magnetic stirrer



HE-241

HE-242: DIGITAL PYROGEN TESTING TELE THERMOMETER (MULTI CHANNEL)

Most useful for pyrogen testing of drugs on rabbit, rats etc. and for measuring the temperature of other animals as goat, buffaloes, cows, camels etc. The unit has a temperature range from 0° to 50° with a resolution of + 0.1°C. It has an accuracy of + 0.5% of range+ 1 digit with 4 digit display. The unit is supplied with probe.

- A) Six Channel Unit (With Single Display) & Single Prog.
- B) Six channel Unit (With 6 Probe) & 6 Display



HE-242

OPTIONAL ACCESSORIES

- A) Rectal / Surface Air Probe / Temperature /
- Liquid Immersion Probe each

HE-243: MULTI-CHANNEL SOIL THERMOMETER DIGITAL (PORTABLE)

It is a portable model well housed in a briefcase, suitable for lab as well as field use. It is six channel instruments with 4 digit display. Temperature range is from 0° C to 50°C with a resolution of 0.1°C and an accuracy of + 0.1°C + 1 digit. The unit can be operated on battery as well 220/230 volts A.C. mains. Supplied without probe

OPTIONAL ACCESSORIES

	A	B	C	D
LENGTH OF PROBE:	10 cm	30 cm	50 cm	100 cm

HE-244: PORTABLE HAND HELD DIGITAL TEMPERATURE INDICATOR

3-1/2 digit LCD display, Accuracy + 0.5% of range + 1 digit. 9V Battery operated. Supplied with sensor.

- A) Range - 50°C to 350° C+0.1% (IMPORTED)
- B) Range 0°C to 600°C+1°C



HE-244

HE-245: LUX METER DIGITAL

Used for photometric measurements in various Botanical and Agriculture field. It can measure all kinds of lights. Hand held unit is provided with a very sensitive sensor. To work on 9 volts dry battery.

- A) Range Up to 20000 lux.
- B) Range Up to 200000 lux.
- C) Range up to 400000 lux.



HE-245

HE-246: SPECTROPHOTOMETER DIGITAL

A) Range 340-960 nm with facility for automatic concentration, % Transmission & O.D. Measurements. Wavelength resolution 5 nm 3 ½ digit LED display round tubes.

B) DUAL DISPLAY Range 340-960nm, 3 ½ digit LED display with facility for automatic concentration % transmission & O.D. Separate 3 digit LED display for Wavelength in nm with 1 nm wavelength resolution. Provision is made for 10mm path, round test tubes (Specify for mineral water lab)

C) MICRO PROCESSOR UV/VIS SPECTROPHOTOMETER (SINGLE BEAM)


HE-246
HE-247: BOERNER GRAIN DIVIDER:

It is used to reduced the size of a grain / seed sample into two halves, each exactly representative of 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 chrome plated steel. The bottom section of the divider is remove able 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 + 5% on a 1 Kg sample.

SIZE : 38" (H) x 17" (W) x 43" (D)

NO. OF POCKETS : 38

Supplied with two sample pans


HE-247
HE-248: SLIDE PROJECTOR AUTOMATIC

A) Complete with linear tray only and remote control for focusing

B) Projection Screen Spring Loaded 70"x 50" (On Tripod

C) Electronic LASER Pointer (Battery Operated)


HE-248
HE-249: OVERHEAD PROJECTOR (DELUXE MODEL)

A) WITH SINGLE LAMP SYSTEM

B) do- but TWIN LAMP SYSTEM

C) do- but PORTABLE MODEL

HE-250: EPIDIASCOPE (DELUXE MODEL)
FOOD PROCESSING INSTRUMENTS
HE-251: PULPER MACHINE

This machine designed for extracting the pulp of most fruits and vegetables such as mangoes, guavas peaches, tomatoes banana etc. Mounted on a heavy duty mild steel stand, the central pulping unit of the machine consists of a pair of brushes fixed on stainless steel the central pulping unit of the machine consists of a pair of brushes fixed on stainless steel shaft and one stainless steel sieve. The gap between the sieve and the brushed can be adjusted to suit different types, sizes and qualities of the product to be pulped the sieve is available in perforation of different sizes and is easily removable for quick interchanging and cleaning. All contact parts are of S.S.-304 grade S. Steel.


HE-251
CAPACITY

A) 100 kg/hr. fitted with ½ H.P.motor

B) 200 kg/hr. fitted with 1/0 H.P.motor

C) 500 kg/hr. fitted with 2/0 H.P.motor

HE-252: FRUIT CRUSHER (CRUSHING MACHINE)

This machine is suitable for crushing stone less fruits and vegetables. This machine is mounted on a heavy duty mild steel stand equipped with motor and starter. The material is fed into the stainless steel Hooper which feeds the product into the crushing drum, which consists of stationery blades and rotary which crushes the loaded product. With 1.0 H.P. motor (Cap. 500 kg/hr)


HE-252

HE-253: JUICE PRESS (To Extract Juice From Crushed Fruits)

- A) Hand screw basket press
 B) Hydraulic Juice Press: It is hand operated unit with a hydraulic pump of capacity 5 tones. This unit is mounted on very heavy base and pillars along with hand screw arrangement. Supplied with TEAK WOOD circular plank held together with stainless steel strips. A thick M.S. base tray lined with S.S. is provided with the unit. It is the most suitable press for extracting juice from apples, pineapples, carrots, ginger, grapes etc.
 C) do but with 10 tones pressure unit



HE-253

HE-254: CAN REFORMING UNIT

This is a simple machine which round which rounds flattened can bodies prior to flattened can is mounted onto the rubber roller and on depressing the pedal, It presses the can against the rotating steel roller there by giving it is round shape.

- A) Hand Worked Model
 B) Electrical Motorised Model With 1.0 H.P. motor



HE-254

OPTIONAL ACCESSORIES

- (A) Spare Rubber Roller 301 dia 401 dia 603 dia 700 dia

HE-255: CAN FLANGING MACHINE

Heavy duty model, this is a simple hand operated machine for simultaneous langing of both sides of a round can. A toggle motion balanced hand enables the machine to be operated with minimum exertion. Supplied with one die for 401 dia cans

- A) Spare flanging die 301 dia or 401 dia
 B) Spare flanging dia 601 dia or 700 dia

HE-256: POTATO SLICING MACHINE

- A) Hand Operated with arrangement to adjust thickness of slices
 B) Head Duty Motorised



HE-256

HE-257: LID EMBOSING MACHINE

This machine is designed to emboss standard ends with the required reference letters or figures. The machine is operated by a foot treadle which. When depressed, embosses the lid by virtue of marker dies, Is operated by a foot treadle which. When depressed, embosses the lid by virtue of marker dies, Without piercing it. Supplied with one set of double row die holder, but without alphabets and numerical

- B) Cost of alphabets (A to Z) and Numerical (0 to 9)



HE-257

HE-258: EXHAUST BOX

It is straight line exhaust box, provided with motorised conveyor or belt, and M.S. Steam Piping. The top is covered aluminium cover and the whole unit is mounted on heavy M.S. Stand. Filled canned are let in from one side of the box, on the conveyor belt and steam is passed into the M.S. pipe line through a boiler. The filled cans after going through this process are collected at the other and where they are boiler. The filled cans after going through this process are collected att the other and where they are sealed using can sealing machine. This process enhance the life of the preserved food items.

- A) 10 feet long conveyorisred belt (fitted with 1.0 H.P. motor)
 B) 14 feet long conveyorisred belt (fitted with 1.0 H.P. motor)

HE-259: DIGITAL MEASURING SALT TEMP./TDS IN FOOD/ LIQUID

Measuring Range	:	Three digit LCD Display
Salt	:	0.005-5.00%
TDS	:	0-999 ppm, mg/L
Temp.	:	0-100°C



HE-259

HE-260: CAN SEALING MACHINE

This is a heavy duty machine mounted on a mild steel stand, suitable for seaming cans of size 201-700 dia and of 9-3/8" height range. Used for seaming processed food cans. Fitted with 1.0 H.P motor. Supplied with one set of seaming chuck, seaming roller and adopter plate

A) Hand Can Seamer (Hand Operated) with one set seaming chuck

OPTIONAL ACCESSORIES

C) Spare Seaming Chucks

Dia: 201 dia 301 dia 401 dia 603 dia 700 dia

B) Seaming Rolls (1st and 2nd operation)

C) Spare Adaptor Plate (any dia)


HE-260
HE-261: P.P. CAP SEALING MACHINE

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

A) Hand Worked Table Model

B) Heavy Duty Hand Worked Pedestal Model


HE-261
HE-262: FRUIT PRESSURE TESTER

This tester provide an accurate guide to determine the right period for fruit harvesting & monitors maturation progress during cold storage. Range: 0-13 kg (0-29 Lb.) Used for apple, pear peaches etc.

HE-263: FRUIT AND VEGETABLE SLICER

A) Hand Operated Unit with arrangement to adjust thickness

B) Motorised Unit with ¼ H.P. motor

HE-264: COIL TYPE JUICING MACHINE

For orange and soft fruits with aluminium juicing head and stainless steel sieve.

A) With ¼ H.P. motor

B) With ½ H.P. motor

HE-265: SAUSAGE FILLER (for 8 kg batch)

A) Contact Parts of Stainless Steel

HE-266: POTATO PEELER

A) Capacity 5 kg. with 0.5 H.P. motor

B) Capacity 10 kg with 1.0 H.P. motor


HE-266
HE-267: FLANG RECTIFIER UNIT

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

Dia: 202 dia 301 dia 401 dia 603 dia 700 dia


HE-268
HE-268: CROWN CORKING MACHINE

A) Hand Worked Head Duty Table Model

B) Foot Duty Pedestal Model

HE-269: CAN PRESSURE TESTER WITH HAND PUMP
HE-270: CAN VACUUM TESTER (With Rubber Bung And Pricker)
HE-271: CANNING RETORT (With Pressure Gauge, Safety Valve and Release Valve)

A) Suitable to hold 21 cans of A2-1 size

B) Suitable to hold 75 cans of A2-1 size

HE-272: DIGITAL SEED COUNTER

HE-272

PHARMACEUTICAL EQUIPMENT
HE-273: TABLET DISSOLUTION RATE TEST EQUIPMENT

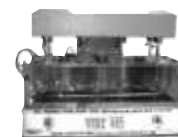
- A) Single Test Unit
- B) Single Test Unit (Fitted with Digital RPM meter)
- C) Three Test Unit (Fitted with Digital RPM meter) and Micro Process Temperature Control. & automatic lifting
- D) Six Test Unit (Fitted with Digital RPM meter) and Micro Process Temperature Control & automatic lifting



HE-273

HE-274: TABLET DISINTEGRATION TEST MACHINE (I.P. STD.1985)

- A) Single Basket
- B) Double Basket



HE-274

OPTIONAL ACCESSORIES

- A) Digital Time Totalizer
- B) Spare Basket

HE-275: FRIABILITY TEST EQUIPMENT

- A) Single Drum
- B) Double Drum



HE-275

OPTIONAL ACCESSORIES

- A) Digital Revolving Counter
- B) Spare Drum

HE-276(A) : TABLET HARNESS TESTER (MONSTO TYPE)
(B) : TABLET HARDNESS TESTER (PFIZER TYPE)
HE-277: CAPSULE FILLING MACHINE (100 Holes for filling 100 capsules)
HE-278: COLLAPSIBLE TUBE FILLING MACHINE (Hand Operated)
HE-279: TUBE SEALING MACHINE
HE-280 (A): SUPPOSITORY MOULD

4 Holes 6 Holes 8 Holes 12 Holes

(B) LIPSTICK MODEL 4 Holes


HE-279

HE-281: TABLET COATING PAN WITH HOT AIR BLOWER (12" DIA)
(B) Polishing pan (12" dia) only for use with above unit)
HE-282: TABLET POLISHING PAN (12" DIA) (WITH MOTOR)
HE-283: CONICAL PERCOLATOR WITH STAND

500 ml.
1 ltr


HE-284

HE-284: AMPULE CLARITY TEST EQUIPMENT
HE-285 (A): TABLET MAKING MACHINE (HAND OPERATED)
(B): TABLET MAKING MACHINE (MOTORISED)
(C): TABLET MAKING MACHINE MOTORISED HEAVY DUTY
(D): TABLET MAKING MACHINE ROTORY TYPE 16 PUNCH


HE-285

HE-286: CONTINUOUS HOT EXTRACTION EQUIPMENT

A) Unit of three test (Without Glass Parts and Clamp)

Unit of six test (without glass parts and Clamps)

HE-287: TABLET COUNTING SHOVELS (A) 100 Holes (round)
(B) 100 Holes (oval)

HE-288: TINCTURE PRESS

A) Cap ½ kg. (Contact parts of S.S.)

B) Cap 1 kg. (Contact parts of S.S.)

HE-289: HAND GRINDING MILLS (Table Clamping)

HE-290: OPERATION TABLE
HE-291: ACETOPHOTO METER
HE-292: AERATION TUBE
HE-293: BALL MILL (See Details in HE-162, Page No.17)

HE-294: SIEVE SHAKER (See Detail in HE-154, Page No.15)

HE-295: ROOT CRUSHER (Motorised, with trays digital temp controller)

HE-296: COMPARTMENT DRYER WITH TRAYS DIGITAL TEMP CONTROLLER
HE-297: CAP SEALING MACHINE (Head operated) WITH ONE DIE)

HE-298: CAP SEALING MACHINE FOR VIALS HAND OPERATED
HE-299: HOT PLATES (See Details in HE-182, Page No.21)

HE-300: DISINTEGRATOR MACHINE 6"
HE-301: MIXING VAT WITH STIRRER (with 1/20 h.p. motor)

HE-302(A): LIQUID FILLING MACHINE (volumetric)

(B) : ----- DO ----- (HEAVY DUTY AUTOMATIC)

HE-303: STUDENT ORGAN JAR BATH THERMOSTATIC
HE-304: DOUBLE UNIT ISOLATED ORGAN BATH THERMOSTATIC
HE-305: STOP WATCH (1/10 TH SECOND) DIGITAL
HE-306: GRANULATING SIEVES SQUARE
HE-307: ASEPTIC CABINET SIZE: 2X2"
3X2"
HE-308 (A): PRESCRIPTION BALANCE (Cap. 100 gms. with brass wt. set)

(B): TORSON BALANCE

HE-309: ANIMAL CAGES FOR RATS
HE-310: SMOKING BURNER
HE-311: SMOKING DRUMS WITH STAND
HE-312: VARNISHING TRAYS
HE-313: WRITING LEVER OF DIFFERENT TYPES
HE-314: T-RODS, X BLOCKS (METALLIC)

HE-315: AERATORS
HE-316: KYMOGRAPH PAPER DRYING STAND
HE-317: ROTAROD APPARATUS (Digital) SIZE: 2 TEST

3 TEST
4 TEST

HE-318: TISSUE HOMOGENIZER
HE-319: PLETHISMO METER
HE-320: ELECTRONIC SIMULATOR
HE-321: FILTER HOLDER S. STEEL (HE-152, PAGE-15)

HE-322: MEMBRANE FILTER MICRONS (.45 TO .2)

HE-323: MECHANICAL STIRRER (See Details in HE-150, Page No.14)

HE-324: HEATING MANTELS (See Details in HE-184Page No.21)

HE-325: SINGLE PAN ELECTRICAL BALANCE (See Details in HE-410, Page No.42)

HE-326: TOP LOADING ELECTRONIC BALANCE (Digital)

(See Details in HE-414, P-42 CAP.: 300g, ACCU .01(10 mg)

HE-327: COMPOUND MICROSCOPE (See Detail in HE-390, Pg No.39)

HE-328: AMPULE WASHING MACHINE
HE-329: AIR CURTAIN (See Detail in HE-116, Page No.6)

HE-330: DISTILLATION WATER STILL(See Detail in HE-122, Page No.8)

HE-331: STERILITY TEST UNIT (See Detail in HE-153, Page No.15)

HE-332: LAB MEDICO CENTRIFUGE (See Detail in HE-159, Page No.16)

HE-333: FROG BOARD


HE-286



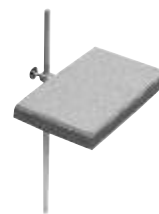
HE-289



HE-305



HE-327



HE-333

HE-334: TELE THERMOMETER (See Detail in HE-242, Page No 31.)

HE-335: SIMPLE LEVER

HE-336: SYMUS CANNULA

HE-336(A): ANDERSON PIPETTE (GLASS)

HE-337: STARLING HEART LEVER

HE-338: SPIROMETER

HE-339: HEMOCYTOMETER

HE-340: HEMOMETER

HE-340A: RABBIT HOLDER

HE-341:(A): AMPOULE WASHING MACHINE

(B):----- DO -----MOTORISED WITH PUMP.

HE-342: AMPOULE FILLING & SEALING MACHINE (Hand Operated)

HE-343: OINTMENT SPATULA

HE-344: COOK'S POLE CLIMBING APPARATUS

HE-345: ANIMAL WEIGHING BALANCE (cap 15 Kg Digital)

HE-346: POLE CLIMBING APPARATUS

HE-347: ANIMAL HOLDER

HE-348:ACTIVITY CAGE (ACTOPHOTOMETER)

HE-349: HISTAMINE CHAMBER (A): With small spray pump

(B): With Electric Nebuliser

HE-350: ELECTRO-CONVALSOMETER

HE-351: STUDENT RECORDING DRUM (E/8)

HE-352: BULK DENSITY APPARATUS (DIGITAL)

It is designed to meet the requirements of USP Standards suitable for Method-I & Method II. It can hold two cylinders, Capacity: 50 ml and 250 ml. The mechanism provides simultaneously rotating and tapping motion to the cylinders for packing the sample under test evenly and uniformly together.

HE-353: ANALGESIOMETER

A): Eddy's Hot Plate Type

B): Tail Flick Method (Radiant Heat Type)

HE-354: VENTURI METER

HE-355: MENO METER

HE-356: REYNOLDS APPARATUS

HE-357: ORIFICE METER

HE-358: DOUBLE CONE BLENDER 5 kg.

(B):-----DO-----MOTORISED 25 kg. (SS-304)



HE-351

LIST OF TEST EQUIPMENTS FOR PACKAGED DRINKING WATER IS-14543 - 1998

HE-359: NEPHLOMETER (TURBITIMETER),0-200 NTU.(See detail in HE-231, P.No.29)

HE-360: pH METER: 0-14 Ph (See detail in HE-236, P.No.30)

HE-361: CALORIMETER: (See detail in HE-240, P.No.31)

HE-362: WATER BATH: Six Holes (See detail in HE-133, P.No.10)

HE-363: GAS STRIPPING APPARATUS (Make: Glass Borosil)

HE-364: DISTILLATION APPARATUS GLASS: 3 Ltr.(See detail in HE-120, P.No.7)

HE-365: LABORATORY STIRRER (See detail in HE-150 P.No.14)

HE-366: CONDUCTIVITY METER (See detail in HE-238, P.No.30)

HE-367: TDS METER (See detail in HE-239, P.No.30)



HE-361

HE-368: MICRO SCOPE (See detail in HE-390, P.No.39)

HE-369: LEMINAR AIR FLOW BENCH WITH HEPA FILTERS

(See detail in HE-113, P.No.5) (A) 2'x2'x2'

HE-370: B.O.D INCUBATOR

(Inside Chamber S.steel, See Details In HE-105, P. No .2)(a) Size: 4 Q

HE-371: INCUBATOR (Inside Chamber S.Steel, See detail in HE-128, P.No.9)

Size: 300x300x300 MM; Temperature:

HE-372: DIGITAL COLONY COUNTER (See detail in HE-179, P.No.20)

HE-373: MEMBRANE FILTRATION UNIT S.STEEL (See detail in HE-152, P.No.15)

HE-374: VACUUM PUMP (HE-171, P.No.19)

HE-375: AUTOCLAVE: 15-PSI,(See detail in HE-103, P.No.2)

HE-376: MEGNETIC STIRRER(See detail in HE-149, P.No.14)

HE-377: HOT AIR COVER (See detail in HE-126, P.No.8) Size:355x355x355 mm

HE-378: ANALYTICAL BALANCE (See detail in HE-410, P.No.42) LC-0.1 MG, Cap.: 200G

HE-379: MUFFLE FURNANCE (See detail in HE-130, P.No.10)

Size: 4"x4"x9" Range: AMBINT-1000°C

HE-380: HOT PLATE RECTANGULAR (See detail in HE-182, P.No.21) Size: 10"x12"x6"

HE-381: SPECTROPHOTOMETER (See detail in HE-246, P.No.32) Size: 340-960 mm

HE-382: CARBON & SULPHUR APPARATUS:

Substantial saving of time & advantage of cheapness through saving of power & costly chemicals. The determination of Carbon and sulphur contents in iron and steel has become an absolute necessity for all iron processing plants, foundries etc. There is a substantial saving of time, as in a short time, both carbon and sulphur can be determined in one action. The dual determined in one action. The dual determination is excellently suitable for Routine analysis

HE-383: ANTIBIOTIC ZONE READER

HE-384: ORBITAL INCUBATOR SHAKER

Double walled construction. Outer body made of Mild Steel duly Powder Coated for longer durability. Inner chamber made of Stainless Steel with ribs to hold trays. Shaking platform also made os S.Steel accommodate 16 Flask of 500 ml. capacity. Temperature controlled by Digital Temp. Controller cum Indicator from 5 to 70°C, with and accuracy of +- 0.5°C or Better. Temperature below ambient is maintained by a hermetically sealed Compressor with complete unit placed beneath the chamber. Shaking speed can be controlled by digital Speed Regulator. A Stainless steel perforated tray is also provided for the use of upper portion of the chamber as a simple B.O.D. Incubator. An illumination lamp is also provided inside the chamber. Suitable to work on 220/230 V,50 Hz. Single Phase AC supply.

- A) 455x610x400MM (4 QB FEET) (9 FLASK)
- B) 505X830X415MM (6 QB FEET) (16 FLASK)
- C) 570X875X550MM (10 QB FEET) (16 FLASK)

OPTIONAL ACCESSORIES

1. Programmable Timer.
2. Illumination with 4 number of 60 cm. Flourescent tube
3. Spare platform to accommodate other cap. of flask
4. Voltage Stabilizer (Blue Bird)

HE-385: TENSILE TESTING MACHINES:

100 kg 250 kg 500 kg 1 Ton 2.5 Ton 5 Ton

DIGITAL



HE-375



HE-382



HE-384



HE-385

HE-386: BURSTING STRENGTH TESTER

It is a reliable index of the strength & Performance of materials like paper, paper boards, Corrugated boards and boxes, solid fibre boards, filter cloth and other industrial fabrics. It is ideal for testing a wide range of paper, Packaging and other materials to determine their quality, strength and performance.



HE-386

HE-387: ULTRASONIC CLEANER

Ultrasonic energy is produced in the solvent by transducers, which convert electrical energy to high frequency inaudible sound waves. The pulsating effect of the ultrasonic sound waves cause rapid formation and collapse of tiny bubbles-cavitations which produce a highly effective scrubbing action on the part. The transducers are shaped to focus sound waves, and parts to be cleaned are passed through the area of focal intensity, either manually or by conveyor.



HE-387

SIZES:-	CAP	AMOUNT	IMPORTED
8" x 3" x 3" (H)	1.3 ltrs		
8" x 4" x 4" (H)	2 ltrs		
9" x 6" x 4" (H)	3.3 ltrs		
12" x 6" x 4" (H)	6.5 ltrs		

HE-388: KINEMATIC VISCOMETER BATH

This Viscometer bath is used to maintain the correct constant temperature for estimating Kinematic Viscosity of Oil and Petroleum Products in this type of Bath various viscometer may be fixed as an internal part of the bath. The bath is rectangular shape. Inside tank is made of Stainless Steel. The bath is controlled by an Digital Temperature Controller cum indicator. Temperature Range 5°C above room temperature to 100° C-0.1° C. Stirring is done by a FHP electric motor stirrer. Heating is done by means of tubler type heater fitted on top of the bath. It is supplied with viscometer tube holders and s. steel cover. Different size & accommodation are available as under without Viscometer tube. Kinematic Viscometer Bath chamber size: 12"x9"x12" deep to accommodate 6 Viscometer.



HE-388

OPTIONAL ACCESSORIES

Holder for viscometer

MICROSCOPES

HE-389: STUDENT MICROSCOPE

Triple revolving nose piece, horse shoe base, separate coarse and fine motion. Knobs having stopper for slide safety. Achromatic Objectives (10 x and 45 x) eye pieces (10 x and 15 x) Fitted with Disc Diaphragm and packed in wooden box



HE-389

HE-390: STUDENT MICROSCOPE (DELUXE MODEL)

Triple revolving nose piece, horse shoe base, separate coarse and fine motion. Knobs, having stopper for slide safety. Achromatic Objectives (10x and 45x) Eye pieces (10x and 45x) Fitted with fixed sub stage condenser NA1.2 and iris diaphragm moving up and down with rack And pinion. Nicely packed in wooden box.



HE-390

HE-391: SENIOR STUDENT MICROSCOPE

Triple revolving nose piece, horse shoe base and separate coarse and fine motion knobs having stopper for slide safety. Achromatic Objectives (10 x and 45 x) Huygenian Eye pieces (10 x and 15 x) Fitted with sub stage condenser NA 1.2 and iris diaphragm moving up and down with Rack and pinion. Nicely packed in wooden box mechanical stage.



HE-391

HE-392: JUNIOR MEDICAL MICROSCOPE

Triple revolving nose piece with horse shoe base and separate coarse and fine motion knobs having stopper For slide safety Achromatic Objectives (10 x and 45 x) Hygenian Eye pieces (10 x and 15 x) Fitted with sub Stage condenser NA 1.2 and iris diaphragm moving up and down with rack and pinion with graduated slow motion reading to 0.002 m.m.Nicely packed in wooden box.
(B) do same as above but with an additional WIDE FIELD 10x eye piece

HE-393: SENIOR RESEARCH MEDICAL MICROSCOPE

Triple revolving nose piece with horse shoe base and separate coarse and fine motion knob. With precise graduated slow motion reading to 0.002 m.m. It has rack and pinion motion of the condenser unit NA 1.2 and detachable mechanical stage. Achromatic Objectives (10x, 45x, and 100x) Huygenian Eye pieces (10x and 15x) Packed in wooden box



HE-393

OPTIONAL ACCESSORIES

- A) Co- Axial Mechanical stage in lieu of detachable mechanical stage.
- B) do but with "IMPORTED" 100x lens (Mounted in India)

HE-394: PATHOLOGICAL RESEARCH MICROSCOPE

Consists of " Graduated straight draw tube" inclinable through 90° with separate coarse motion and Graduate fine motion knobs. Quadruple revolving nose piece with click stop. Fixed square stage 120x120 mm with co-axial mechanical stage. Condensers:- Abbe NA-1.3 with Iris diaphragms Focusing up and down by rack and pinion. Achromatic Objective (5x, 10x, 45x and 100x) Huygenian Eye pieces (5x, 10x and 10x (WF)) Nicely packed in wooden box.

- B) do but with "IMPORTED" 100x lens (Mounted in India)



HE-394

HE-395: MONOCULAR INCLINED RESEARCH MICROSCOPE

A rigid and heavy stand for perfect stability on Horse- shoe base with one observation tube inclined at 45° and rotatable in 360° with perfectly centered quadruple revolving nose piece, fixed stage with precision. Co-Axial Mechanical stage with graduated scale and vernier on both sides fitted with sub stage bright field Condenser NA 1.3 Achromatic objectives (5x, 10x, 45x and 100x) Huygenian Eye pieces (H5 x and WF 10x) Supplied in wooden cabinet.

- (B) do but with built in illumination system at base
- (C) "IMPORTED " 100x lens (mounted in India) in lieu of 100x objective Extra



HE-395

HE-396: BINOCULAR RESEARCH MICROSCOPE

Heaving heavy duty ball bearings quadruple revolving nosepiece. Fixed stage with precision mechanical stage for x and y movement of slide up to 50x75 mm. Built in base HALOGEN ILLUMINATION system 6V-20W, electrical system and regulator, also provided with plans, concave reflecting mirror attachment for day light use. Achromatic Objectives (5x, 10x, 45x and 100x) Eye Pieces (5x, 10x) Supplied in wooden Cabinet



HE-396

HE-397: TRINOCULAR RESEARCH MICROSCOPE

Detail same as HE-318, BUT WITH TRINOCULAR HEAD

- B) do- but with built in illumination system at base
- C) "IMPORTED" 100x lens (mounted in India) in lieu of 100x objective



HE-397

HE-398: INVERTED BINOCULAR TISSUE CULTURE MICROSCOPE

Inverted binocular Microscope for tissue culture examination having coarse and fine adjustment, incident lamp with variable light control arrangement, straight tube for photomicrographs, with long working distance objectives and binocular head, complete with following optics in box. LWD Objectives (5x, 10x, 20x, 40x) Wide Field Eye pieces (10x(Paired))

- B) do but with trinocular head



HE-398

HE-399: STUDENT METALLURGICAL MICROSCOPE

Monocular inclinable body having coarse and fine motions. Bright field horizontal illuminator with iris diaphragm and slots for dropping filter. Triple revolving nose piece fitted with variable light control transformer objective (M5x, M10x, and M45x) Eye pieces (5x, 10x and 15x)



HE-399

HE-400: INCLINED METALLURGICAL MICROSCOPE

Fitted with monocular observation tube inclined at 45°. Bright field horizontal illuminator with centering provision, field and aperture diaphragm and slots for dropping filters, Quadruple revolving nose piece interchangeable straight tube for photomicrography, special graduated mechanical stage, supplied with variable light control transformer and following optics in box. Objectives (M10x, M45x) Eyepieces (WF 10x and 15x)



HE-400

HE-401: BINOCULAR METALLURGICAL MICROSCOPE

Fitted with binocular head (assembled from imported prism) Bright field horizontal illuminator with centering provision. Quadruple revolving nosepiece, straight tube for photomicrography. Special Graduated mechanical stage, supplied with variable light control transformer and following optics in box. Objective (M10x and 45x) Eyepieces (10x and 15x)



HE-401

HE-402: INVERTED METALLURGICAL BINOCULAR MICROSCOPE

A latest binocular inverted metallurgical microscope equipped with horizontal illuminator with centering provision, field aperture diaphragm and slots for dropping filters. Built in base variable solid state transformer, Large sturdy stage with x-y axis movements coarse and fine focusing knobs, supplied with two colored filters in metal mount, wooden base stand with drawer and having following optical combination. Eye pieces (WF 10x (Paired)) Objectives (M5x, M10x



HE-402

HE-403: STEREO BINOCULAR MICROSCOPE

Fixed magnification of consistently high quality make this microscope ideal for operations where regular and critical inspections of parts and assemblies are called for Bright, Sharp, three dimensional images delivered with uniform in focus magnification expedite quality checking and increase productivity. It has wide applications in laboratories and industries in the field of electronics, watch making medicine, agriculture and tools rooms. Objective (Paired 2x and 4x) and Eye piece (WF 10x Paired)



HE-403

HE-404: PROFILE PROJECTOR

Having 200 mm dia rotatable screen & triple revolving nose piece with turret type lens mount. Halogen bulb 12v-100w with variable light control built in transformer workable on 220V A.C. Main. Rotary measuring stage equipped with micrometer head with least count 0.005 mm. Total magnification (20x to 80x Accuracy + 0.1%) with objectives.



HE-404

HE-405: DISSECTING MICROSCOPE

With heavy round base brass knobs and brass eye piece carrier. With 10x and 20x achromatic eye pieces. Packed in plywood box

HE-406: DISSECTING MICROSCOPE (DELUXE MODEL)

This a deluxe model with all brass parts and fitted with Bull eye lens 80 mm dia and 10x and 20x achromatic eye piece. Packed in plywood box.



HE-406

HE-407: STUDENT PROJECTION MICROSCOPE

Having 12 volts 100 watts Halogen projection bulb workable on 220 volts Ac mains with triple Revolving nose piece, 160 mm dia, built in screen giving magnification 40x to x400x, complete with 5 x, 10 x and 20 x lens.

HE-408: RESEARCH PROJECTION MICROSCOPE

With 200 mm dia, graduated screen 260 degree rotatable, quadruple revolving nose piece. Total magnification ranging from 100x to 800x or 125x to 100x workable on 220 volts AC main with variable light control arrangement complete with stage micrometer slide for measuring optical combination. Built eye piece (10x or 15x) Objective (5x, 10x, 20x, 40x)



HE-408

- B) do- but ADVANCE RESEARCH MODEL incorporated with BINOCULAR HEAD AND POINTER ARRANGEMENT
- C) Extra Charge for Wall screen attachment

HE-409: MICROSCOPE ACCESSORIES

- A) Camera lucida (Prism type)
- B) Camera lucida (Mirror type)
- C) Double demonstration Eye piece
- D) Ocular Micrometer "ERMA"
- E) Stage Micrometer "ERMA"



HE-409

LABORATORY BALANCES

HE-410: ELECTRICAL BALANCE SINGLE PAN

It works on the principle of substitution of weights and has a special allow casted beam with magnetic damping device. Fitted with a heavy duty step down transformer to work in 220/230 volts. A.C. Supply.

Model	Capacity	Optical Scale	Sensitivity
HE-20	200g	1000g	0.1mg



HE-410

HE-411: CHAINOMATIC ANALYTICAL BALANCE

It eliminates the use of fractional weights. These units are provided with air damping device

Model	Capacity	Sensitivity
HE-401	200 g	1 mg



HE-411

HE-412: LABORATORY DOUBLE PAN BALANCES

Model	Description	Capacity	Sensitivity
HE-350	Analytical Balance	200g	0.1 mg
HE-351	Chemical Balance	200g	0.2 mg
HE-352	Physical Balance	200g	1.0 mg



HE-412

HE-413: ANALYTICAL WEIGHT BOX (BRASS C.P.)

CAPACITY

- A) 1 mg to 100 g (21 pcs.)
- B) 1 mg to 200 g (22 pcs.)



HE-413

HE-414: ELECTRONIC BALANCES TOP LOADING DIGITAL PRECISION WEIGHING SERIES

CAPACITY	ACCURACY	PLATTERS SIZE	DISPLAY
1. 210 gm	0.001gm (0.1 mg)	80	LED
2. 220 gm	0.001 gm (1 mg)	110 mm dia	LED
3. 300 gm	0.001 gm (1 mg)	110 mm dia	LED
4. 150 gm	0.01 gm (10 mg)	116 mm dia	LED
5. 300 gm	0.01 gm (10 mg)	116 mm dia	LCD
6. 600 gm	0.01 gm (10 mg)	116 mm dia	LCD
7. 1500 gm	0.05 gm (50 mg)	210X290 mm	LED
8. 3 kg	0.1 gm (100 mg)	210X 290 mm	LED
9. 5 kg	1 gm	6"X6" mm	LED
10. 6 kg	0.2 gm (200 mg)	210 X 290 mm	LED
11. 10 kg	0.5 gm (500 mg)	210 X 290 mm	LED
12. 30 kg	1 gm	210 X 290 mm	LED



HE-414

PRECISION / SILVER WEIGHTING / GENERAL PURPOSE WEIGHING SCALE (WITH DUAL DISPLAY & BATTERY BACK UP)

11. 1500 gm	0.1gm (100 mg)	245x290 mm	LED
12. 3 kg.	0.2gm (200 mg)	245x290 mm	LED
13. 6 kg.	0.5gm (500 mg)	245x290 mm	LED
14. 15 kg	1 gm	245x290 mm	LED
15. 30 kg	2 gm	245x290 mm	LED
16. 60 kg	5 gm	400x400 mm	LED



HE-414

PLATE FORM SCALE (With Dual Display & Battery Back Up)

17. 60 kg.	5 gm.	500x500 mm	LED
18. 150 kg.	10 gm	500x500 mm	LED
19. 300 kg.	20 gm	500x600 mm	LED
20. 500 kg	50 gm	550x600 mm	LED

OTHER INSTRUMENTS BEING MANUFACTURED BY US FOR

- (A) FABRICS/TEXTILES
- (B) FOOTWEAR/LEATER
- (C) PAPER/PAPER BOARD/CARTO
- (D) PLASTIC AND PVC PIPES
- (E) RUBBER TESTING EQUIPMENTS
- (F) PVC CABLE TESTING INST.