



YAMTO INSTRUMENTS[®]

An ISO 9001:2008 Certified Company



Instruments & Equipments for

- PHARMA
- CHEMICAL
- BULK DRUGS
- FINE CHEMICALS
- BIO-TECHNOLOGY
- MICRO BIOLOGY
- FOOD INDUSTRY
- BEVERAGES
- COSMETIC
- CONFECTIONERY
- R & D
- TESTING LABS
- EDUCATIONAL INSTITUTIONS



Pioneer in Laboratory Equipments



YIS - 101 Ovens	YIS- 132 Humidifier (S.S)
YIS- 102 Incubators	YIS- 133 Laboratory Vertical Autoclave
YIS- 103 Ovens High Temperature	YIS- 134 Portable Autoclave Sterilizer
YIS- 104 Rectangular Water Bath (Single Wall)	YIS- 135 Laminar Air Flow Cabinets
YIS- 105 Rectangular Water Bath (Double wall)	YIS- 136 Lab Willey Mill (Arthur H.Thomas Type)
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YIS- 129 Environmental Test Chamber	YIS- 160 Softening Point Ring & Ball Apparatus
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Pioneer in Laboratory Equipments

OVENS INCUBATORS

YIS -101 OVENS

Double walled inside chamber of Anodised Aluminium/Stainless Steel. Outer chamber of mild steel duly powder coated. Thermostatically controlled from 50°C to 250°C ($\pm 1^\circ\text{C}$). Beaded heating elements are placed in the ribs at the bottom and sides. Complete with L-Shape thermometer, two indicators, thermostat and on/off switch. To operate in 220/230 volts. A.C. Supply.

Size (Inside Chamber - Aluminium)

CODE	W X D X H	Litres (approx.)	Trays
AL (A)	300X300X300 mm (12"X12"X12")	27	2
AL (B)	350X350X350 mm (14"X14"X14")	43	2
AL (C)	450X450X450 mm (18"X18"X18")	91	2
AL (D)	450X600X450 mm (18"X24"X18")	122	2
AL (E)	600X600X600 mm (24"X24"X24")	216	2
AL (F)	600X900X450 mm (24"X36"X18")	243	3
AL (G)	600X900X600 mm (24"X36"X24")	324	3

Size (Inside Chamber - Stainless Steel - 304 Grade)

CODE	W X D X H	Litres (approx.)	Trays
SS (A)	300X300X300 mm (12"X12"X12")	27	2
SS (B)	350X350X350 mm (14"X14"X14")	43	2
SS (C)	450X450X450 mm (18"X18"X18")	91	2
SS (D)	450X600X450 mm (18"X24"X18")	122	2
SS (E)	600X600X600 mm (24"X24"X24")	216	2
SS (F)	600X900X450 mm (24"X36"X18")	243	3
SS (G)	600X900X600 mm (24"X36"X24")	324	3

OPTIONAL ACCESSORIES

- (A) Air circulating fan can also be provided at an extra cost of
- (B) Digital Temp. Controller-cum-indicator instead of Thermostat
- (C) Mechanical Timer (2 hrs.) at an extra cost of
- (D) Microprocessor based PID temp. controller cum indicator instead of Thermostat.....
- (E) Digital timer of 99 hours with build in alarm

YIS -102 INCUBATORS (Universal Memert)

Temperature is Thermostatically controlled by hydraulic thermostat from 5°C above ambient to 70°C ($\pm 0.5^\circ\text{C}$). Heating elements are placed in the ribs at the bottom and sides. Doubled walled inside chamber of Aluminium / Stainless Steel. Outer chamber of mild steel duly powder coated. Supplied complete with trays, on/off switch, thermostat control etc.. To operate in 220/230 volts. A.C. supply.

Size (Inside Chamber - Aluminium)

CODE	W X D X H	Litres (approx.)	Trays
AL (A)	300X300X300 mm (12"X12"X12")	27	2
AL (B)	350X350X350 mm (14"X14"X14")	43	2
AL (C)	450X450X450 mm (18"X18"X18")	91	2
AL (D)	450X600X450 mm (18"X24"X18")	122	2
AL (E)	600X600X600 mm (24"X24"X24")	216	2
AL (F)	600X900X450 mm (24"X36"X18")	243	3
AL (G)	600X900X600 mm (24"X36"X24")	324	3





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Size (Inside Chamber - Stainless Steel - 304 Grade)

CODE	W X D X H	Litres (approx.)	Trays
SS (A)	300X300X300 mm (12"X12"X12")	27	2
SS (B)	350X350X350 mm (14"X14"X14")	43	2
SS (C)	450X450X450 mm (18"X18"X18")	91	2
SS (D)	450X600X450 mm (18"X24"X18")	122	2
SS (E)	600X600X600 mm (24"X24"X24")	216	2
SS (F)	600X900X450 mm (24"X36"X18")	243	3
SS (G)	600X900X600 mm (24"X36"X24")	324	3

OPTIONAL ACCESSORIES

- (A) Air circulating fan can also be provided at an extra cost of
- (B) Digital Temp. Controller-cum-indicator instead of Thermostat
- (C) Mechanical Timer (2 hrs.) at an extra cost of
- (D) Microprocessor based PID temp. controller cum indicator instead of Thermostat.
- (E) Digital timer of 99 hours with build in alarm

YIS -103 OVENS HIGH TEMPERATURE

Temperature Thermostatically controlled by an imported thermostat from 50°C to 300°C (+3°C). Beaded heating elements are placed in the ribs at the bottom and sides. Doubled walled inside made of heavy gauge stainless steel outer of mild steel duly powder coated. Supplied with perforated adjustable stainless steel trays, L-shape glass thermometer, on/off switch. To operate in 220/230 volts. A.C.

Size (Inside Chamber)

CODE	W X D X H	Litres (approx.)	Trays
(A)	300X300X300 mm (12"X12"X12")	27	2
(B)	350X350X350 mm (14"X14"X14")	43	2
(C)	450X450X450 mm (18"X18"X18")	91	2
(D)	450X600X450 mm (18"X24"X18")	122	2
(E)	600X600X600 mm (24"X24"X24")	216	2
(F)	600X900X450 mm (24"X36"X18")	243	3
(G)	600X900X600 mm (24"X36"X24")	324	3

OPTIONAL ACCESSORIES

- (A) Air circulating fan can also be provided at an extra cost of
- (B) Digital Temp. Controller-cum-indicator instead of Thermostat ...
- (C) Mechanical Timer (2 hrs.) at an extra cost of
- (D) Microprocessor based PID temp. controller cum indicator instead of Thermostat.....
- (E) Digital timer of 99 hours with build in alarm system





Pioneer in Laboratory Equipments

YIS -104 RECTANGULAR WATER BATH (Single Wall)

Fabricated out of thick stainless steel sheet of 304 Grade ISI-marked heating element with automatic cut of device. Complete with concentric ring set. To operate on 220/230 volts A.C.

CODE	SPECIFICATIONS (W X D X H)	Litres (approx.)
(A)	300X250X100 mm (6 holes of 75 mm dia)	8
(B)	425X325X100 mm (12 holes of 75 mm dia)	14
(C)	Space Heating Element.....	

YIS -105 RECTANGULAR WATER BATH (Double Wall)

Temperature from ambient to 100°C with an accuracy of $\pm 0.5^\circ\text{C}$. Double walled inside stainless steel 304 Grade and outside of mild steel duly powder coated. Top of the bath and concentric rings are also of stainless steel. To operate on 220/230 volts A.C. out of thick stainless steel sheet of 304 Grade ISI-marked heating element with automatic cut of device. Complete with concentric ring set. To operate on 220/230 volts A.C.

Size (Inside Stainless Steel Chamber)

CODE	SPECIFICATIONS (W X D X H)	Litres (approx.)
(A)	300X250X100 mm (6 holes of 75 mm dia)	8
(B)	425X325X100 mm (12 holes of 75 mm dia)	14
(C)	Space Heating Element.....	

YIS -106 SEROLOGICAL WATER BATH

Temperature range from ambient to 100°C. Thermostat control with an accuracy of ($\pm 5^\circ\text{C}$). Double walled inside of stainless steel 304 Grade and outside of mild steel duly powder coated. Supplied with two pilot lamp. Temperature control knob, on/off switch, stainless steel cover. To operate on 220/230 volts pilot lamp, Temperature control Knob. on/off switch, stainless steel cover. To operate on 220/230 volts A.C. Supply.

CODE	SPECIFICATIONS (W X D X H)	Litres (approx.)
(A)	300X250X175 mm (For 2 Racks)	14
(B)	325X300X175 mm (For 4 Racks)	18
(C)	450X300X175 mm (For 6 Racks)	23
(D)	600X300X175 mm (For 8 Racks)	31

OPTIONAL ACCESSORIES

(A)	Stirring arrangement at an extra cost of
(B)	Digital Temp. Controller cum indicator at an extra cost of

YIS -107 HIGH TEMPERATURE OIL BATH

Doubled walled inside made of Heavy Gauge Stainless Steel. Outer mild steel duly powder coated. Temperature from room temp. to 250°C ($\pm 1^\circ\text{C}$ or 2°C) is controlled by digital temperature controller cum indicator. Complete with stirrer. To operate on 220/230 volts A.C. supply.





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CODE	W X D X H	Litres (approx.)
(A)	250X250X250 mm	16
(B)	300X300X250 mm	23
(C)	350X350X250 mm	31

YIS -108 CIRCULATING WATER BATH

For accurate maintaining of Temperature of the prism box and the sample to be tested in either Abbe Refractometer / Sugar Refractometer. Inside chamber of stainless steel outer of mild steel duly powder coated. Circulation by F.H.P. motor. Temperature from room temp. to 100°C is controlled by thermostat.

Size (Inside Stainless Steel Chamber)

CODE	W X D X H	Litres (approx.)
(A)	300X200X175 mm	14
(B)	Fitted with Digital Controller to maintain an accuracy of $\pm 1^{\circ}\text{C}$	

YIS -109 HIGH PRECISION WATER BATH

Double walled inside made of Heavy Gauge Stainless Steel. Outer mild steel duly powder coated. Temperature from room temp. to 95°C. ($\pm 0.1^{\circ}\text{C}$) is controlled by digital temperature controller cum indicator with SSR Relay. Heating is done by ISI mark immersion heater. A Glass window is provided on the front side. Stirring is done by F.H.P. motor with stainless steel shaft. To operate on 220/230 Volts A.C. Supply.

CODE	SPECIFICATIONS (W X D X H)	Litres (approx.)
(A)	430X230X265 mm	26

YIS -110 WATER STILL DISTILLATION (Wall Mounting Type)

(For Pyrogen Free Distilled Water)

The Unit is made of Stainless Steel with removable condenser device. Fitted with Kettle element having ejection device. To operate on 220/230 volts A.C. Supply.

CODE	Output (approx)	Litres (approx.)
(A)	2 litres / hour	2.0 kw
(B)	4 litres / hour	4.0 kw
(C)	6 litres / hour	5.0 kw

OPTIONAL ACCESSORIES

(A)	Spare Kettle element
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YIS -111 WATER STILL TABLE PATTERN (Barnstead Type)

Double walled inside Tank (Boiler) and Condenser fabricated out of S.Steel S.S-304 Grade.





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CODE	Output (approx)	Litres (approx.)
(A)	4 litres / hour	3.0 kw
(B)	6 litres / hour	4.0 kw
(C)	10 litres / hour	5.0 kw

OPTIONAL ACCESSORIES

- (A) Low water cut off device at an extra cost

YIS -112 DIGITAL KINEMATIC VISCOMETER BATH (As per IP-71& IS-1448)

Suitable for determination of Kinematic Viscosity. Inside tank made of Heavy gauge Stainless Steel. Toughened glass provided for full visibility of objects on both sides. The temp. of bath is controlled by digital temperature controller cum indicator with SSR Relay. Temperature range 5°C above ambient to 100°C(±0.1°C). Stirring is done by _H.P. motor. It is supported with viscometer tube holders, covers & stainless steel cover. To operate on 220/230 volts A.C. supply.

CODE W X D X H

- (A) 12"X09"X12" (To accomodate 4 Viscometers)
- (B) 12"X12"X12" (To accomodate 6 Viscometers)
- (C) 18"X12"X12" (To accomodate 8 Viscometers)

OPTIONAL ACCESSORIES

- (A) Micro-processor based PID Digital temp. controller with dual display fitted instead of On/Off type digital temp. controller cum indicator.

YIS -113 WATER BATH INCUBATOR SHAKER (Metabolic)

Double walled inside made of Stainless Steel and outer of mild steel duly powder coated. Useful for constant temperature as well as uniform shaking for measurements such as inoculation of tissue slides and homogenates, Protein vagulation etc. The bath has an oscillating tray riding on ball rollers & oscillated through a governor controlled variable speed motor, Shaking speed range is between 40 to 180 cycles per minute with shaking amplitude of 25mm. Temperature from 5°C above ambient to 100 °C(±5°C) is controlled by an imported thermostat. Supplied complete with one shaking Tray and cover, connecting cord and plug. To operate on 220/230 volts A.C. Supply.

Shaking Tray Size

CODE W X D X H

- (A) 275X275X150 mm
- (B) 400X300X150 mm

OPTIONAL ACCESSORIES

- (A) Digital Temp. Controller cum indicator at an extra cost of
- (B) Shaking rack to hold flask of 50ml/100ml/250ml/500ml test tube rack at an extra cost.
- (C) Digital RPM meter at an extra cost.....





Pioneer in Laboratory Equipments

YIS -114 ROTARY SHAKER (Light Weight)

Useful for uniform mixing by circular motion in a horizontal plane within a circular diameter of about 25mm. It is very useful for tissue culture work. The Driving Mechanism is enclosed in a mild steel cabinet. A single phase motor is used and has a variable pitch pulley system with V-belt drive. Suitable to operate on 220/230 Volts A.C. Supply.

Platform size : 45x45cm (18"X18") : To accomodate 16 flask of 250 ml.

CODE SPECIFICATION

- (A) Having fixed speed fitted with A.C. Motor
- (B) Having variable speed fitted with D.C. Motor.....

OPTIONAL ACCESSORIES

- (A) Digital RPM meter.....
- (B) Mechanical Timer

YIS -115 VDRL ROTATORY SHAKER (Suitable for VDRL Tests)

Closed body having shaking amplitude 25mm in a horizontal plane. Having continuous variable speed of 40-180 rpm, fitted with S.S. Tray and Lotus Type Clamp to hold flasks.

CODE DESCRIPTION

- (A) Platform size : 24"X24" with 1/4 HP motor : To accommodate 36 flasks of 250ml or 49 flasks of 100 ml variable speed.....
- (B) Platform size : 105X105with 0.5 HP motor: To accommodate 81 flasks of 250ml or 64flasks of 500 ml variable speed.....
- (D) Platform size : 120X120 cm (48"X48") with 1.0 HP motor: To accommodate 49 flasks of 1000 ml or 100 flasks of 500 ml or 144 flasks of 100 ml variable speed.....

OPTIONAL ACCESSORIES

- (A) Digital RPM meter.....
- (B) Mechanical Timer

YIS -116 WRIST ACTION SHAKING MACHINE

Heavy mild steel/cast iron body with two sides arms with suitable flask holding clamps. Continuous heavy duty variable speed motor can hold 100ml to 1000ml flasks. Maximum oscillations upto 500 per minute. To operate on 220/230 volts A.C.supply.

CODE DESCRIPTION

- (A) To hold 4 flasks
- (B) To hold 8 flasks

OPTIONAL ACCESSORIES

- (A) Timer 0-60 minute at an extra cost of





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YIS -117 VORTEX SHAKER (Test Tube Shaker)

It provides vigorous mixing action by rotation of the contained liquid and is very useful for stirring test tubes or small flasks. The instrument consists of a vertically mounted motor with a neoprene rubber cup mounted eccentrically on the shaft against which, at its tip, 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. Suitable to operate on 220/230 volts A.C. Supply.

CODE DESCRIPTION

(A) Touch On / Off model

YIS -118 MAGNETIC STIRRER WITH HOT PLATE

It is a compact stirring device utilizing a rotating magnetic field which induces variable speed stirring action. Stirring is done 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 operate on 220/230 volts A.C. supplied with stainless steel top, speed regulator and one teflon coated paddle. Maximum temp. at top of plate is 70°C & RPM of motor is 20 to 1200 RPM.

CODE CAPACITY

(A) 2 Litres
(B) 2 Litres (Delux Model)
(C) 5 Litres

YIS -119 MELTING POINT APPARATUS (without thermometer & capillaries)

Electrically heated model for determination of single or mixed melting point upto 350°C. Provision for low and high temperature, with energy regulator.

OPTIONAL ACCESSORIES

(A) Cooling plug for water circulation

YIS -120 HEATING PLATE : (8" dia approx.)

Heavy casted iron top with Kanthal wire elements duly insulated with E.R. device and indicator. To operate on 220/230 Volts A.C. supply.

CODE SIZE RATING

(A) 8"..... 1.5 kw (with E.R.).....
(B) Spare Element Set

OPTIONAL ACCESSORIES

(A) Digital Temp. Controller cum indicator at an extra cost of





Pioneer in Laboratory Equipments

YIS -121 RECTANGULAR HEATING PLATE

Very useful for continuous heating upto 350°C, heavy casted top with Kanthal wire elements duly insulated. To operate in 220/230 Volts A.C.

CODE	SIZE	RATING
(A)	25X30X15 cm (10"x12"x6")	1.2 Kw (with E.R.) 1.2 Kw (with Thermostat).....
(B)	25X40X15 cm (10"x16"x6")	1.5 Kw (with E.R.) 1.5 Kw (with Thermostat).....
(C)	30X45X15 cm (12"x18"x6")	2.0 Kw (with E.R.) 2.0 Kw (with Thermostat).....
(D)	45X60X15 cm (18"x24"x6")	3.0 Kw (with E.R.) 3.0 Kw (with Thermostat).....

OPTIONAL ACCESSORIES

- (A) Digital Temp. controller cum indicator at an extra cost of

YIS -122 SOXHLET EXTRACTION UNIT : (without glassparts & clamps)

Suitable to heat soxhlet flask of 50-500 ml It consist of mild steel housing, two vertical and two horizontal rods with Gutkas. To operate on 220/230 volts A.C. supply.

CODE SIZE

- (A) Unit of 3 test, mantle type with seperate on/off switch and energy regulator.
- (B) Unit of 6 test, mantle type with seperate on/off switch and energy regulator.

YIS -123 KJELDAHL DIGESTION UNIT MANTLE TYPE : (without glassparts & clamps)

Useful for estimation of nitrogen contents. The housing of mild steel duly powder coated. To operate on 220/230 volts A.C. supply.

CODE TYPE

- (A) Unit of 6 test, mantle type with seperate on/off switch and energy regulator . Provided with lead fume duct and pair or hangers.
- (B) Unit of 3 test, mantle type with seperate on/off switch and energy regulator . Provided with lead fume duct and pair or hangers.

YIS -124 HEATING MANTLE (Made of glass yarn)

Useful for heating inflammable liquid and is very useful in Chemicals, Pharmaceuticals and other laboratories. The body of the mantle is aluminium duly painted. To operate on 220/230 volts A.C.supply.





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CODE

(A)	100 ml	80 watts
(B)	250ml -500 ml	200 watts
(C)	1000 ml	300 watts
(D)	2000 ml	450 watts
(E)	3000 ml	500 watts
(F)	5000 ml	600 watts
(G)	10,000 ml	2x600 watts

SPARE MANTLES

CODE	TYPE	RATING
(A)	100 ml	80 watts
(B)	250ml -500 ml	200 watts
(C)	1000 ml	300 watts
(D)	2000 ml	450 watts
(E)	3000 ml	500 watts
(F)	5000 ml	600 watts
(G)	10,000 ml	2x600 watts

YIS -125 B.O.D. INCUBATOR : (Low Temperature)

Double walled inside made of stainless steel and outer of mild steel duly powder coated. Two air circulation fans are provided for uniformity of temperature inside the chamber. Refrigeration is done by CFC free compressor. Temperature from 5°C ($\pm 0.5^\circ\text{C}$) controlled by electronic digital controller cum indicator. Filled with unbreakable Acrylic inside door. To operate on 220/230 volts. A.C. supply.

Size (inside Chamber)

CODE	WXDXH	CAPACITY
(A)	455x610x410 mm	04 cu.ft. (113 litres)
(B)	510x830x410 mm	06 cu.ft. (173 litres)
(C)	570x870x570 mm	10 cu.ft. (282 litres)
(D)	650x900x585 mm	12 cu.ft. (342 litres)

OPTIONAL ACCESSORIES

- (A) Interior illumination with 3 Nos. fluorescent tubes of 60 cm length with switch (with tube light arrangement temp. from 10°C to 60°C).
- (B) Cyclic timer 0 to 24 hours for regulating illumination cycle at an extra.
- (C) Voltage Stabilizer essential for B.O.D at an extra cost of
- (D) Digital Timer
- (E) Microprocessor based PID Temp. controller instead of Digital Temp.C

YIS -126 PLANT GROWTH CHAMBER

Inside made of stainless steel and outer of mild steel duly powder coated. Temperature from 5°C to 50°C ($\pm 1^\circ\text{C}$) but 15-50°C ($\pm 1^\circ\text{C}$) when lights from both sides are on. A dual temperature cum indicator is provided to set two different temperature for night and day along with 0-24 hours timer facility. Fitted with humidistat to control humidity from 55% to 95% at cool temperature ($\pm 4\%$) with built-in voltage stabilizer.





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CODE	WXDXH	CAPACITY
(A)	570x875x550 mm	10 cu.ft. (280 litres)
(B)	775x900x550 mm	12 cu.ft. (336 litres)

OPTIONAL ACCESSORIES

- (A) Digital humidity (RH) controller (2set point) at an extra cost.....

YIS -127 SEED GERMINATOR (Single Chamber)

Double walled inside chamber of stainless steel. Temperature from 5°C to 50°C ($\pm 1^\circ\text{C}$) is controlled by digital temperature controller cum indicator. Humidity from 90% to 95% ($\pm 3\%$) not adjustable. Provided with 14 nos. stainless steel trays and stainless steel reservoir at bottom with 6 nos. tube lights & 24 hour cyclic timer. Duly fitted with water inlet, outlet and over flow nozzles.

CODE	WXDXH	CAPACITY
(A)	Single Chamber (560x610x910 mm)	310 Litres
(B)	Dual Chamber (560x610x910 mm)	620 Litres

OPTIONAL ACCESSORIES

- (A) Voltage stabilizer (essential for above).....
(B) Humiditstat to control humidity

YIS -128 HUMIDITY AND TEMPERATURE CONTROL CABINET (Only Heating)

Double walled inside made of stainless steel and outer of mild steel duly powder coated. Temperature controlled by thermostat from ambient 60°C ($\pm 1^\circ\text{C}$). The humidity to 95% ($\pm 3\%$). Humidity is created by steam injection method which creates a mist of aerosol particles which remains suspended in the chamber.

CODE	WXDXH	CAPACITY
(A)	450x450x450 mm(18"x18"x18")	95 Ltrs.
(B)	455x455x710 mm(18"x18"x28")	147 Ltrs.
	605x605x605 mm(24"x24"x24")	225 Ltrs.
	605x605x910 mm(24"x24"x36")	335 Ltrs.

OPTIONAL ACCESSORIES

- (A) Digital controller cum indicator instead of thermostat at an extra cost of
- (B) Digital humidity controller cum indicator at an extra cost of.....
- (C) Digital timer 0-99 Hrs.
- (D) Microprocessor based PID Temp.controller for Dry Temp.

YIS -129 ENVIRONMENTAL TEST CHAMBER (Stability Test Chamber)

(Refrigerated Humidity & Temp. Control Cabinet)

Double walled inside chamber of stainless steel and outer of mild steel duly powder coated. Humidity is created by steam injection method which creates a mist of aerosol particles which remains suspended in the chamber. Temperature from 10°C to 60°C ($\pm 1^\circ\text{C}$) is controlled by digital temperature controller cum indicator and humidity from 55% to 92% ($\pm 5\%$) controlled by digital humidistat. Stainless steel water tank is provided in the chamber. Cooling is done by CFC free compressor.





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CODE	WXDXH	CAPACITY
(A)	455x455x 455mm (18"x18"x18")	95 Litres
(B)	455x455x 710mm (18"x18"x28")	147 Litres
(C)	605x605x 605mm (24"x24"x24")	225 Litres
(D)	605x605x 910mm (24"x24"x36")	335 Litres

OPTIONAL ACCESSORIES

- (A) Voltage stabilizer (essential) at an extra cost of
- (B) Digital timer 0-99 Hrs.
- (C) Microprocessor base PID Temp. Controller for Dry Temp.

YIS -130 RECTANGULAR MUFFLE FURNACE (900°C)

Light weight with ceramic wool insulation. Working temperature 900°C. The outer casing of heavy mild steel duly painted/powder coated. Temperature control unit consists of energy regulator and pyrometer with silver fuse. To work on 220/230 volts A.C. supply.

CODE	SIZE	RATING
(A)	4"x4"x9"	1.8 Kw
(B)	5"x5"x10"	2.0 Kw
(C)	6"x6"x12"	3.0 Kw
(D)	8"x8"x12"	4.0 Kw

OPTIONAL ACCESSORIES

- (A) Silver Fuse at an extra cost
- (B) Thermocouple at an extra cost

YIS -131 HIGH TEMPERATURE MUFFLE FURNACE

Fitted with good quality tile set, with ceramic fibre insulation. Working temperature upto 1150°C, maximum temperature 1200 °C. Outer casing of thick mild steel duly painted / powder coated. Temperature from 50°C to 1150°C is controlled by digital temperature controller cum indicator with E.R. control device.

CODE	SIZE	RATING
(A)	4"x4"x9"	2.5 Kw
(B)	5"x5"x10"	3.0 Kw
(C)	6"x6"x12"	4.0 Kw
(D)	8"x8"x12"	5.0 Kw

OPTIONAL ACCESSORIES

- (A) Digital timer 0-99 Hrs.

YIS -132 HUMIDIFIER (s.s.)

It is of splash plate rotating disc type, designed to give as high as 95% RH in enclosed area. It is capable of atomising upto 3.0 litre of water / hr. at full evaporation in the driest ambient conditions. Body & Tank made of Stainless Steel.





Pioneer in Laboratory Equipments

CODE SIZE

(A) 5 Litres

OPTIONAL ACCESSORIES

(A) Humidity control box for above

(B) Timber box for above

YIS -133 LABORATORY VERTICAL AUTOCLAVE

Boiler is made of heavy gauge 18G stainless steel. Outer is made of mild steel duly painted/powder coated. The lid is made of stainless steel and machined to fit the cast ring by means of durable rubber gasket. The lid is tightened through radial locking ribs by means of control screw provided at the top. Fitted with pressure gauge, water level indicator, steam release valve, safety valve and paddle lifting device. To operate on 220/230 volts A.C.

CODE	SIZE	RATING	Cap.
(A)	250x450 mm (10"x18")	1.5 Kw	22 ltrs.
(B)	300x500 mm (12"x20")	2.0 Kw	40 ltrs.
(C)	350x550 mm (14"x22")	3.0 Kw	50 ltrs.
(D)	450x600 mm (18"x24")	4.0 Kw	98 ltrs.
(E)	550x750 mm (22"x30")	6.0 Kw	152 ltrs.

OPTIONAL ACCESSORIES

(A) Automatic Pressure control switch (Indfoss Piezostat)

(B) Automatic low water cut off device for element

(C) Mechanical timer 0-60 minutes

(D) Digital Thermometer at an extra cost of

YIS -134 PORTABLE AUTOCLAVE STERILIZER

CODE SIZE

(A) Fabricated out of thick aluminium complete with safety valve, stand, cord etc... Size : 300 mm x 300 mm.

(B) Fabricated out of thick stainless steel sheet (Jointless), pressure cooker type Electrically operated. Complete with safety valves, stand cord / plug etc... 15 psi & 20 psi
Size : 12"x12"

Size : 14"x12"

YIS -135 LAMINAR AIR FLOW CABINETS

These are designed to meet the filtration, illumination, noise and vibration requirements of US Federal standard 209 B (BS 5295) providing particle free air to meet class 100 conditions. These are constructed out of thick duro board duly summica clad. The work table is made of mica top and slide panels of thick plexiglass duly framed. The HEPA filter have efficiently rating as high as 99.97%, thus retaining all air borne particles of size 0.3 micron and larger. Supplied complete with HEPA filter, prefilter, Motor-blower, static pressure inclined manometer, cock for gas, Fluorescent light, U.V.germicidal light, front door etc...





Pioneer in Laboratory Equipments

CODE WORKING SIZE

(A)	2'X2'X2'
(B)	3'X2'X2'
(C)	4'X2'X2'
(D)	6'X2'X2'

YIS -136 LAB WILLEY MILL (Arthus H.Thomas Type)

Fitted with 1/4 H.P. motor, the chamber is fitted with a hopper, provided with a cover. Three delivery S.S. sieves of 20,40 and 60 mesh with plastic receiver are supplied. A removable glass plate forms the face of the grinding chamber and permits observation during operation. A Jar is placed at the lower end to receive milled powder.

CODE CHAMBER SIZE

(A)	40 mm x 25 mm
(B)	65 mm x 25 mm
(C)	100 mm x 50 mm

YIS -137 LAB BALL MILL

Electrically operated having a capacity from a few grams to 1 Kg. Fitted with a F.H.P. motor. Maximum speed 80 RPM. Supplied with steel balls for fixing and grinding. To operate on 220/230 volts. A.C. supply.

CODE CHAMBER SIZE

(A)	1 Kg with Aluminium Jar
(B)	1 Kg with Stainless Steel Jar
(C)	2 Kg with Aluminium Jar
(D)	2 Kg with Stainless Steel Jar

YIS -138 JAR TESTING APPARATUS (Flocculator)

Designed for floc formation test in water treatment plants. Variable speed drive from 10 to 100 RPM through 1/20 H.P. motor mounted on a mild steel housing, supported by four rods on a bench. Stirring paddles are of stainless steel with adjustable height.

CODE DESCRIPTION

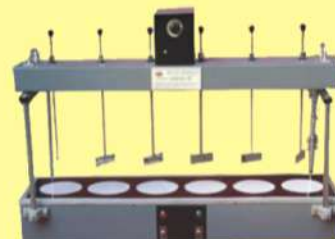
(A)	1 litre with 2 stirrer
(B)	1 litre with 4 stirrer
(C)	1 litre with 6 stirrer

OPTIONAL ACCESSORIES

(A)	Timer if required at an extra cost of
(B)	Digital timer 0-99 minutes
(C)	Digital RPM meter

YIS -139 SIEVE SHAKER (Gyratory)

Suitable for dry sieving, can accommodate upto 7 sieves of 15 to 20 cm diameter. Fitted with a 1/4 H.P. motor and a gear box for upward and downward motion, variable speed. Supplied without sieves. To operate on 220/230 volts A.C. supply.





Pioneer in Laboratory Equipments

CODE DESCRIPTION

- (A) Electrically Operated
- (B) Electrically Operated with timer

YIS -140 ROTARY HIGH VACUUM PUMPS

Rotary high vacuum pump, V-belt drive, complete with heavy base, motor with pulley and belt, supplied with belt Guard.

CODE	Displacement LTS/min	Motor H.P.
(A)	25	1/4
(B)	50	1/4
(C)	75	1/4
(D)	100	1/2

OPTIONAL ACCESSORIES

- (A) Vacuum Gauge with Regulator
- (B) Moisture Trap
- (C) Non return valve

YIS -141 MONO BLOCK VACUUM PUMP (Single Stage)

CODE	Displacement LTS/min	LT/MINUTE	MOTOR/H.P.
(A)	25 litres	25	1/4
(B)	25 litres (delux)	25	1/4
(C)	50 litres	25	1/4

OPTIONAL ACCESSORIES

- (A) Regulator at an extra cost

YIS -142 VACUUM CUM PRESSURE PUMP (Diaphragm Type)

(Beltless & Oil Free)

It is double stage pump to create vacuum through diaphragm. Very suitable for continuous operation without fear of sample contaminations through any type of vapours. Suitable to work on 220/230 volts A.C.

CODE DESCRIPTION

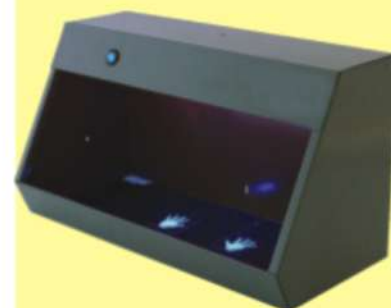
- (A) Capacity : 25 litres / minute air displacement (double head)
- (B) Capacity : 45 litres / minute air displacement (double head)

OPTIONAL ACCESSORIES

- (A) Regulator at an extra cost

YIS -143 U.V. INSPECTION CABINET

- (A) With single long wave tube (Single Tube)
- (B) With long & short wave tube (Double Tubes)





Pioneer in Laboratory Equipments

YIS -144 TLC KIT (Thin Layer Chromotography)

Complete with applicator, thin layer drawing board, drawing rack, developing, chamber, aluminium carrier, spotting jug, silica gel, pipette 0.1 ml, square & rectangular glass plate and glass sprayer.

YIS -145 BOMB COLORIMETER

It is used for determination of combustion of heat or calorific values of the fuel or other organic material. It is designated as per specification of Institute of Petroleum. Supplied complete with water jacket made of brass sheet nickel chromium plated with bakelite lids, stainless steel bomb, bomb jacket, water calorimeter vessel, motorised stirrer, briquett press, firing unit with illuminator, vibrator and buzzer, pressure gauge, proper pipe fitting with final adjustment valves, spanners, magnifying glass, nicrome wire and cotton reel, gas releasing valve, stainless steel crucible, Digital Backman thermometer, Benzoic acid with known calorific value complete set with safety device.

YIS -146 CARBON SULPHUR DETERMINATION APPARATUS

This is designed for determination of percentage of carbon and sulphur. Supplied complete with tube furnace having 2 numbers of Silicon carbide rods, Energy regulator for temperature control, pyrometer with Pt and Rh thermocouple, Glass parts, wooden frame. It is provided with control unit for tube furnace transformer etc.. To operate on 220/230 volts A.C. supply.

(A) Series Model
(B) Parallel Model

YIS -147 LABORATORY PHOTO COLORIMETER

It is most reliable and compact blood and chemical analyser. It performs end point chemical and bio-chemical analysis accurately. It has 8 high standard glass filters ranging from 400-700 nm wavelength. Complete with Tungston Lamp light source, Photodiode system and sample system. Supplied with 10 numbers cuvetts, spare lamps, dust cover & instruction manual. To operate on 220/230 volts A.C.

CODE MODEL

- | | |
|-----|--|
| (A) | Auto Zero with Micro Controller Systems (Deluxe) |
| (B) | DIGITAL 8 Filter / 1.0 ml with transmission & O.D. facilities .. |
| (C) | DIGITAL 8 Filter / 1.0 ml with O.D. facilities |

YIS -148 LABORATORY COLONY COUNTER 4 DIGIT LED DISPLAY

CODE DESCRIPTION

- | | |
|-----|---|
| (A) | Micro controlled with memory facility upto 9 samples.
Complete with pen. To operate on 220/230 volts A.C. supply ... |
| (C) | Simple 4 Digit Digital colony counter for 1 sample only |





Pioneer in Laboratory Equipments

YIS -149 LABORATORY NEEDLE SYRINGE DESTROYER

CODE	DESCRIPTION
------	-------------

- | | |
|-----|---|
| (A) | With burning and cutting facility. To operate on 220/230 volts A.C. supply. |
|-----|---|

YIS -150 BOTTLES / ROLLER MIXER

Suitable for mixing of blood, dry powder etc..... with 3/4th roller

YIS -151 RECTANGULAR HIGH TEMP. FURNACE (1400°C)

Maximum Temp. 1450°C, working Temp. 1400 °C and is controlled by digital temp controller cum indicator. Inside chamber of Zirconia Ceramic Fibre board having Zirconia ceramic Fibre insulation of 128 Grade, heating is done by silicon carbide rods. A separate power supply unit is provided having control panel which is fitted with 60 A step down transformer, voltmeter, Ameter, Temp digitally controlled. Supplied complete with Pt-Pt/RH thermo couple & working manual. Suitable to operate 220/230 volts A.C.

CODE	DIMENSION	RATING
(A)	100x100x225 mm (4"x4"x9")	3.0 Kw
(B)	125x125x250 mm (5"x5"x10")	3.5 Kw
(C)	150x150x300 mm (6"x6"x12")	4.0 Kw
(D)	200x200x300 mm (8"x8"x12")	4.5 Kw

YIS -152 VACUUM ROTARY EVAPORATOR (Buchi Type)

Complete with continuous variable speed motor, glass condenser, rotating flask, stand with quick action jack, flask capacity = 1 litre (without vacuum pump).

CODE	DESCRIPTION
------	-------------

- | | |
|-----|---|
| (A) | With thermostatic controlled water bath |
| (B) | With digitally controller water bath |

YIS -153 ABLE'S FLASH POINT APPARATUS

Suitable for determination of close cup flash point of petroleum and petroleum products having flash point below 70°C. As per IP-33, IP-70 and IS-1448 (Part-1) 1985 (P:20). Supplied with oil cup, cover fitted with stirrer, thermometer socket, water bath and stand electrically heated, temperature is controlled by E. Regular, supplied with one thermometer

OPTIONAL ACCESSORIES

- | | |
|-----|--|
| (A) | IP-74C (-35°C to 70°C) thermometer |
| (B) | IP-75C (-30°C to 80°C) thermometer |

YIS -154 PENSKEY FLASH POINT APPARATUS

Suitable for determination of close cup flash point of fuel, oils, other viscous material and suspension of solids etc.. It is designed as per IP-34, ASTM-D-93 and IS-1448 (Part-1) and IS-1209-1953 method B. It is very useful for bath low range as well as high range flash points of samples using different





Pioneer in Laboratory Equipments

YIS -144 TLC KIT (Thin Layer Chromotography)

Complete with applicator, thin layer drawing board, drawing rack, developing, chamber, aluminium carrier, spotting jug, silica gel, pipette 0.1 ml, square & rectangular glass plate and glass sprayer.

YIS -145 BOMB COLORIMETER

It is used for determination of combustion of heat or calorific values of the fuel or other organic material. It is designated as per specification of Institute of Petroleum. Supplied complete with water jacket made of brass sheet nickel chromium plated with bakelite lids, stainless steel bomb, bomb jacket, water calorimeter vessel, motorised stirrer, briquett press, firing unit with illuminator, vibrator and buzzer, pressure gauge, proper pipe fitting with final adjustment valves, spanners, magnifying glass, nicrome wire and cotton reel, gas releasing valve, stainless steel crucible, Digital Backman thermometer, Benzoic acid with known calorific value complete set with safety device.

YIS -146 CARBON SULPHUR DETERMINATION APPARATUS

This is designed for determination of percentage of carbon and sulphur. Supplied complete with tube furnace having 2 numbers of Silicon carbide rods, Energy regulator for temperature control, pyrometer with Pt and Rh thermocouple, Glass parts, wooden frame. It is provided with control unit for tube furnace transformer etc.. To operate on 220/230 volts A.C. supply.

(A) Series Model
(B) Parallel Model

YIS -147 LABORATORY PHOTO COLORIMETER

It is most reliable and compact blood and chemical analyser. It performs end point chemical and bio-chemical analysis accurately. It has 8 high standard glass filters ranging from 400-700 nm wavelength. Complete with Tungston Lamp light source, Photodiode system and sample system. Supplied with 10 numbers cuvetts, spare lamps, dust cover & instruction manual. To operate on 220/230 volts A.C. Supply.

CODE MODEL

- | | |
|-----|--|
| (A) | Auto Zero with Micro Controller Systems (Deluxe) |
| (B) | DIGITAL 8 Filter / 1.0 ml with transmission & O.D. facilities .. |
| (C) | DIGITAL 8 Filter / 1.0 ml with O.D. facilities |

YIS -148 LABORATORY COLONY COUNTER 4 DIGIT LED DISPLAY

CODE DESCRIPTION

- | | |
|-----|---|
| (A) | Micro controlled with memory facility upto 9 samples.
Complete with pen. To operate on 220/230 volts A.C. supply ... |
| (C) | Simple 4 Digit Digital colony counter for 1 sample only |





Pioneer in Laboratory Equipments

CODE SPECIFICATIONS

- (A) Temp Range : + Ambient to 130°C, $\pm 0.5^\circ\text{C}$
(B) Block Dimension : 96x96x50 mm having holes of 16mm or 14mm
(C) Display : LCD Alphanumeric
(D) Controlled : Digital Micro Controlled of time and temperature

OPTIONAL ACCESSORIES

- (A) Aluminium Block with different tube dia

YIS -158 VACUUM OVEN

Double walled inside made of heavy gauge stainless steel sheet (S.S-304 grade) outer of mild steel duly powder coated. Temp from ambient 130°C ($\pm 1^\circ\text{C}$) and is controlled by PID based digital temp controller cum controller. Provided with vacuum gauge, see through transparent window of toughened glass and two no shelves. Suitable to operate on 220/230 Volts A.C.

CODE SPECIFICATIONS

(Inner chamber size 300mm dia x 300 mm depth)

- (A) Front gate made of M.S. duly painted
- (B) Front gate made of Stainless steel.

YIS -159 PENETRO METER APPARATUS

Used for Penetration Test on wide variety of material such as grease, petroleum, Tar, Wax, Bitumen, Rubber, Asphalt & Pharmaceutical cream complete with Rack & Pinion & Pointer assembly provide fine adjustment of needle top to sample & incorporate slipping clutch mechanisms which make reading of Penetration & subsequent resetting a sample & accurate operation.

Dial graduated from 0-400 in 1/10 millimeter (mm) sub division supplied with two sample containers. consist of head support mounted on a vertical rod which can be adjusted for height.

CODE DESCRIPTION

- (A) Penetrometer Apparatus with Containers & Weight having Penetration needle.
- (B) Electronic Timer & Brass Cone needle Electrical arrangement

YIS -160 SOFTENING POINT RING & BALL APPARATUS

CODE DESCRIPTION

- (A) Useful for Bitumen Test Motorised with beaker, heater and ER to control Temperature

OPTIONAL ACCESSORIES

- (A) IP thermometer for above.....

YIS -161 T.A.R. VISCOMETER

CODE DESCRIPTION

- (A) Useful for determination of Viscosity of road oils & Bitumen as per IP-72 & IS-1206 standard Electricity heated with ER control having Cap of 4 mm / 10 mm dia. S.S. Bath Stirrer with Lifting Clip & Ball having levelling screws.

OPTIONAL ACCESSORIES

- (A) IP thermometer for above



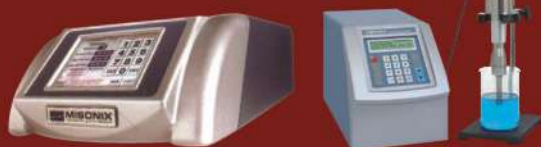
IMPORTED EQUIPMENTS

Pioneer in Laboratory Equipments

USA

SONICATOR

Ultrasonic Liquid Processors



USA

PRO Scientific

Laboratory Homogenizers



USA



USA

Global Cooling

Portable Freezer



Germany

Deep Freezers



France

SECOMAM

UVIKON
UV/VIS Spectrophotometers



Italy

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USA



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USA

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ADL-311S SPRAY DRYER



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Laboratory Fermentor



UK



PG Instruments Ltd

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France

VILBER LOURMAT

UV TRANSILLUMINATOR



UK

UVITEC
Cambridge

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UK



Micro Centrifuges



UK



Monarch Compact Sterilizer



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