

KI 180 Muffle Furnace (High Temperature Furnace) ☺
 Max. Temp. 1200°C Working Temp. 1150°C fitted with Digital Temp. Indicator-cum-Controller. Industrial Grooved type. Light weight with ceramic Fibre wool insulation. Outer casing is made of double walled thick P.C.R.C. sheet, duly powder coated heaters are made of KANTHAL "A-1" wire. Provide with high temperature ceramic wool insulation. Temperature is controlled. Maximum temp. is 1200°C and working temp. 1150°C. Furnace is fitted with coil type heaters embedded in grooved refractory for supporting the heating elements on four sides. Suitable to work on 220 V or 440 V AC.

Muffle Size	Rating
(a) 100 x 100 x 225 mm	2.5 KW
(b) 125 x 125 x 250 mm	2.5 KW
(c) 150 x 150 x 300 mm	3.5 KW
(d) 200 x 200 x 300 mm	5.0 KW
(e) 200 x 200 x 450 mm	8.0 KW
(f) 300 x 300 x 300 mm	9.0 KW
(g) 300 x 300 x 450 mm	9.0 KW
(h) 300 x 300 x 600 mm	12.0 KW

KI 180(a) High Temperature Muffle Furnace: The casing is made of MS ☺ sheet reinforced with angle iron. Heating zone made with ceramic blanket, high temp. ceramic fibre board refractory, cumilag bricks. The furnace is heated with Kanthal Super-N/silicon carbide rods. Separate control panel is provided with step down transformer, voltmeter, ammeter, indicators. Temp. range ambient to 1500°C, Working Temp.: 1400°C, Complete with Digital Temp. Controller. Size of Heating Chamber:

- 9" x 4" x 4"
- 10" x 5" x 5"
- 12" x 6" x 6"
- 12" x 8" x 8"

KI 180(b) Accessories for above :

1. Spare Pyrometer for above with Thermocouple 4" Scale Temp. 1000° C
2. Spare thermocouple
3. Spare silver fuse
4. Digital Controller cum Indicator
5. Digital Timer with alarm 99 min.

KI 180(c) Incinerator: It consists of combustion chamber, combined with ash box and a removal door. The secondary chamber provides a post combustion chamber to ensure that all gases are re-burnt. There is lockable front loading door. It is fabricated out of thick MS sheet with a 6cm thick refractory lining for insulation which keeps the heat inside the chamber whilst allowing cool walls on the outside. The unit is also fitted with environment friendly water circulation system. Working temp. in combustion chamber is 1000°C and in secondary combustion chamber is 1150°C controlled with Digital Temp. Controller.

Size of Heating chamber: 12" x 12" x 18" (3 Kg)

Size of Heating chamber: 12" x 12" x 24" (5 Kg)



KI-180



KI-180(a)



KI-180(c)



KI-180(b)4



KI-180(b)5

KI 181 Hot Air Oven (Mettler German Type): Double walled, outer body made of MS, inner made of SS and is provided with ribs for adjusting trays at any height. Three side heating with beaded elements made of high quality nichrome wire, Temp. Range: 50 to 250° C ± 1° C controlled with capillary type Thermostat. Provided with L-shape thermometer and air ventilators on the both sides.

Size of inner Chamber (WxHxD)	Tray
(a) 300 x 300 x 300 mm	2
(b) 355 x 355 x 355 mm	2
(c) 455 x 455 x 455 mm	2
(d) 455 x 605 x 455 mm	2
(e) 605 x 605 x 605 mm	2
(f) 605 x 910 x 455 mm	3
(g) 605 x 910 x 605 mm	3

KI 182 Incubator Bacteriological (Mettler German Type): Specifications are same as KI 181 but the door is fitted with Glass window. Temp. Range: Ambient to 70° C ± 1° C

Size of Inner Chamber	Tray
(a) 300 x 300 x 300 mm	2
(b) 355 x 355 x 355 mm	2
(c) 455 x 455 x 455 mm	2
(d) 455 x 605 x 455 mm	2
(e) 605 x 605 x 605 mm	2
(f) 605 x 910 x 455 mm	3
(g) 605 x 910 x 605 mm	3

KI 183 Tray Drier: (Industrial Type with Forced Air Circulation): Double walled mounted on sturdy angle iron frame. Inner & outer chamber made of MS sheet. Outer is finished with hammertone paint & inner painted with Al. paint. Gap between both the chambers is filled with high efficiency mineral wool. Hot air is circulated in the chamber through heavy duty blowers. SS tubular air heaters are fitted in the air path. Brackets are provided at the

different height for the trays. Temp. is controlled with Digital Temp. Controller. Temp. Range: 50 to 250° C ± 2° C. Provided with separate control panel and ventilators on both sides. MS Drier including Aluminium Trays and SS Driers including SS 304 Trays. Inner Made of MS / SS.

Size (W x H x D)	Tray Cap.	Load
(a) 430 x 840 x 915 mm	12	6 KW
(b) 915 x 840 x 915 mm	24	9 KW
(c) 965x1275x1450 mm	48	12 KW
(d) 965x1700x1700 mm	96	21 KW

KI 184 Optional Accessories for KI 181, KI 182, KI 183 :-

- (i) Air Circulating Fan with Air Duct.
- (ii) Digital Temp.indicator cum controller with Fan
- (iii) Timer 0-2 hours German make Analogue
- (iv) Cyclic Digital Timer 0-24 hours LCD display
- (v) Timer 99.59Hr./Min. LED display
- (vi) Microprocessor based PID Temp. controller with air circulation fan
- (vii) Alarm
- (viii) Additional Tray for KI 183 size 800 x 400x 30 mm 18 G. made of Al.
- (ix) —do— 20 G. made of SS
- (x) Microprocessor based PID Temp. controller LED display with computer interface RS 232 alongwith software

KI 185 Vaccum Oven: Double walled, inner chamber made of SS & outside of MS duly power coated. Lid is provided with see through window of toughened glass. Temp. Range up to 150°C thermostatically controlled, Fitted with vacuum gauge, indicator lamps and ON/OFF switch to work on 220 V AC. (without Vaccum Pump)

Size MM	Inches
250 x 250	10 x 10
250 x 300	10 x 12



300 x 300	12 x 12
300 x 450	12 x 18
300 x 300 x 300	12 x 12 x 12
450 x 450 x 450	18 x 18 x 18
300 x 450 x 300	12 x 12 x 18
450 x 600 x 450	18 x 24 x 18

Optional Acc. (i) Vacuum Pump Refer Item No. KI 105(a) & 105(b)
 (ii) Digital Temp. Controller
 (iii) Digital Vacuum controller cum indicator with sensor.

KI 186 Seitz Filter: Made of SS provided with air tight screw cap. (Without filter pads)

Dia	Capacity
3 cm pad	50 ml.
6 cm pad	100 ml.
7.5 cm pad	250 ml.
7.5 cm pad	500 ml.
14 cm pad	1000 ml.
14 cm pad	2000 ml.

KI 187 Filter Holder made of S.Steel for 47 mm Membrane

- (i) 250 ml.
- (ii) 500 ml.

KI 188 Thin Layer Chromatography Apparatus (T.L.C.): Complete with Al. applicator, thin layer drawing board, developing chamber, spotting jig, silica gel, 6 Nos. glass plate, glass sprayer with bulb, drawing rack, micropipette.

KI 189 Immuno Electrophoresis App.: It is used for electrophoretic separation of immuno proteins. It consists of basic unit with platinum electrode, gel pucher single well, trough cutter and 3 nos. templates. No. of slides : 5 and buffer volume: 200 ml. Size: 18 x 16 x 8 cm

KI 190 Horizontal Paper Electrophoresis: In this filter paper is used as electrophoretic medium to separate protein components. It consists of Basic unit with platinum electrode, paper supporting rods (2nos) .

No. of strips : 6, Buffer volume: 300 ml. Size: 20 x 29 x 7 cm

KI 191 Vertical Paper Electrophoresis: Same as above but size 30 x 15 x 27 cm

(a) **Vertical Paper Electrophoresis Apparatus Mini**

KI 192 SLAB GEL Electrophoresis Apparatus (Horizontal): It is used for DNA/RNA separation. It consists of basic unit with Platinum Electrode, gel running tray, 8 well and 3 well acrylic comb. Buffer volume: 500 ml. Size: 27 x 16 x 8 cm

KI 192 (a) Mini Horizontal Slab Gel Complete. Buffer vol. 300 ml. Size: 20 x 10 x 7 cm

KI 193 Vertical Slab Gel Electrophoresis Midi Model: Buffer vol. 300 ml Complete with basis unit, notched glass plates, 13 well teflon comb, spacers, gel casting stand. Size: 25 x 19 x 20 cm

KI 193 (a) Vertical slab gel electrophoresis Mini Model: Same as above but buffer volume: 250 ml. Size: 13 x 10 x 12 cm

KI 194 Digital Power supply for Electrophoresis:

Range: 0-500 V, 0-100 mA with two digital meters

KI 195 UV Transilluminator: It is used to study results of electrophoretic patterns accurately. The unit is fitted with cooling fan cum exhaust.

(a) Viewing area: 24 x 14 cm, Wavelength: 360nm, UV source: 4 x 8 watts UV tubes. Filter: Orange filter

(b) Viewing area: 20 x 20 cm, Wavelength: 360nm, UV source: 8 x 8 watts UV tubes. Filter: Orange filter

(c) **Dual Model:** Viewing area: 24 x 14 cm, Wavelength: 360 & 254 nm, UV source: 4 x 8 watts UV tubes. Filter: Orange filter

KI 196 Student Microscope: Complete with Optics set 10x, 45x and eyepiece of 10x, 15x complete in ply wooden box with lock & key

KI 196 (a) Dissecting Microscope Senior Model (RoundBase) with 2 eye pieces 10x, 20x

KI 197 Research Medical Microscope: With detachable graduated mechanical stage. Irish diaphragm condenser movable on rack & pinion and 50 mm dia. Plano concave reflector replaceable by microscope lamp, Optical combination



eye piece 10x, 15x or 5x. Objectives 10x, 45x, 100x oil immersion. Magnification 50-1500x

—do— but with Superior 100x oil Immersion

KI 197 (a) Optional accessories for Microscopes:

- (i) Eyepiece 10x
- (ii) Eyepiece 10x WF
- (iii) Objectives 5x
- (iv) Objectives 10x
- (v) Objectives 40x
- (vi) Objectives 100x

KI 198 (a) Research Inclined Microscope: Inclined Monocular tube rotatable through 360°C and inter-changeable for a straight monocular tube for microphotography Eye piece 5x, 10x & 15x. Objectives: 5x, 10x, 45x 100x. Magnification 25x, 1500x, with built in light and transformer ☺

KI 198 (b) Binocular Research Microscope Binocular Head inclined at 45° & rotatable through 360° fitted with co-axial graduate mechanical stage, ball bearing quadruple revolving nose piece. Eye piece: 5x, 10x (WF) Achromatic Objectives- 10x, 45x, 100x. Magnification: 25x- 1500x, with superior oil Immersion. With built in 6V, 20W Halogen lamp and intensity control. ☺

KI 198 (c) —Do— but Coaxial body

KI 198 (d) Trinocular Research Microscope with built in 6 V-20 W ☺ Halogen Lamp and supplied with two paired eye pieces 5x, WF, 10x Objectives 5x, 10x, 45x & superior 100 x oil immersion.

KI 198 (e) — do — but with 35 mm Rolli film Camera for microphotography, camera, adopter, release cord, microphotography eyepiece. — do — but with Digital Camera 'Nikkon' or equivalent Make.

KI 198 (f) Image Analysis Software

KI 198 (g) Stereoscopic Binocular Microscope: Binocular Microscope with one paired 10x or 15x WF eyepieces & a fixed 2.5x or 3.5x or 4x objectives. Magnification: 25-60x ☺

KI 198(h) Stereoscopic Binocular Inclined Microscope: Comprising an Inclined Binocular Head with interpupillary distance adjustable within 50-75 mm. Provided with two pairs of WF eyepieces 10x and 15x and paired parafoal objectives 2x or 3x and 4x or 5x. Magnification : ☺ 20x-75x. Complete with inbuilt lightning arragemnt having 6V-21W illumination

KI 198 (i) Stereozoom Binocular Microscope: Trinocular tube with an inclination of 45. Zoom Ratio : 1x to 5x, eyepieces paired ☺ SWF 10x, base with dual light 6V, 20W halogen bulb.

KI 198 (j) Stereozoom Trinocular Microscope : Trinocular tube with an inclination of 45 Zoom Ratio 1x to 5x Eyepieces paired SWF 10x Base with dual light 6V, 20W halogen bulb ☺

KI 198 (k) Student Metallurgical: Monocular Inclinal body. Incident light through epi-illuminator with aperture diaphragm and slot for filters. Triple revolving nose-piece fitted with graduated ☺ mechanical stage. Provided with solid state variable light controlled transformer 6V, 20W.

- Achromate Objectives : M5x, M10x and M45x .
- Huyg. Eyepiece : 5x, 10x and 15x.
- Magnification : 25x to 675x

KI 198 (l) Binocular Metallurgical Microscope : Binocular Head inclined at 45° bright field incident light through epi-illuminator with ☺ centering provision, field and aperture diaphragm & slot for filters. Provided with solid state variable light control transformer 6V-20W day-light blue & green filters in metal mount.

- Achromate Objectives : M5x, M10x, M45x
- Huyg. Eyepiece : 5x, 10x, 15x paired (any two pair)
- Magnification : 25x to 675 x

KI 198 (m) Inclined Metallurgical Microscope : Specification same as KI 198(j) but with moncular tube inclined at 45 deg. bright field. ☺

KI 198 (n) Colour Video Equipment for Microscope (Imaging System) : Colour Close Circuit TV system (CCTV) consisting of high resolution 'C'



mount light weight CCD Camera for excellent image contrast. Complete with high re-resolution 14" Video Monitor having two magnifications. Complete with Trinocular Coaxial Microscope.

KI-199 (a) Medico-Centrifuge for 4 Tubes with swing out head 3500 RPM

KI-199 (b) For 8 tubes Angle Head 5000 RPM

KI-199 (c) Pathological Centrifuge with Angle Rotor Head with see through acrylic cover. Max. speed of 4500 RPM and Max. RCF 2100 x g. Cap 24x1.5 ml Eppendorf tubes. With a stepless speed control. ⚙️

KI-199(d) Laboratory Table Centrifuge with stepless speed control, pilot indicator lamp (without Rotor Head) Capacity : 200 ml Max. speed 5000 RPM, Max. RCF 3650 x g ⚙️

KI-199(e) Laboratory Table Centrifuge with stepless speed control, pilot indicator, 0-60 minutes timer & speed meter. (without Rotor Head) Capacity : 200 ml. Max. speed 5000 RPM, Max. RCF 3650 x g ⚙️

KI-199(f) Laboratory Table Centrifuge with stepless speed control, pilot indicator, 0-99 minutes Digital Preset timer & Digital speed meter. Capacity : 200 ml. Max. speed 5000 RPM, Max. RCF 3650 x g (without Rotor Head) ⚙️

Rotor Heads for above

- i) 8 x 15 ml Swing out Rotor Head, metal carrier, glass tubes & Rubber cushions
- ii) 8 x 15 ml Angle Rotor Head, metal carrier, & PP tubes
- iii) 4 x 50 ml Swing out Rotor head, metal carrier, glass tubes & rubber cushions.
- iv) 4 x 50 ml Angle Head with metal carrier, & PP tubes
- v) 12 x 15 ml Angle Rotor Head with metal carrier, PP

KI-199 (g) Centrifuge Multipurpose with stepless speed control, pilot indicator lamp, 0-99 minutes Digital Preset timer with bypass switch and digital speed indicator. Capacity : 300 ml. Max. speed 5500 RPM, Max. RCF 3950 x g (without Rotor Head) ⚙️

Rotor Heads for above

- i) 16 x 15 ml Swing out Rotor Head, metal carrier & tapered bottom glass tubes
- ii) 12 x 15 ml Swing out Rotor Head, metal carrier & tapered bottom glass tubes
- iii) 8 x 15 ml Swing out Rotor Head, metal carrier & tapered bottom glass tubes
- iv) 4 x 50 ml Swing out Rotor Head, metal carrier & Round bottom glass tubes
- v) 16 x 15 ml Angle Rotor Head, metal carrier & PP tubes
- vi) 12 x 15 ml Angle Rotor Head, metal carrier & PP tubes
- vii) 8 x 15 ml Angle Rotor Head, metal carrier & PP tubes
- viii) 4 x 50 ml Angle Rotor Head, metal carrier & PP tubes

KI-199 (h) Research Centrifuge control panel provided with Digital speed meter, dynamic brakes, stepless speed control, 0-99 minutes Digital Timer cum Indicator, zero start interlock switch, see through acrylic top cover and lid locking switch, unbalance safety device, Max. Speed 7000 RPM. Max. RCF 7250 x g (without rotor Heads & carriers) ⚙️

Rotor Heads for above

- i) 4 place Swing out Rotor Head suitable for carrying 200 ml, 100 ml and 18 x 5 ml RIA tubes carriers (without carrier)
- ii) 4 Metal carriers each 1 x 200 ml capacity with rubber cushions
- iii) 4 Metal carriers each 1 x 100 ml capacity with rubber cushions
- iv) 12 x 25 ml Angle Rotor Head with see through acrylic cover and pp tubes
- v) 6 x 200 ml Angle Rotor Head with see through acrylic cover & pp tubes
- vi) 8 x 100 ml Angle Rotor Head with see through acrylic cover & pp tubes



KI-199(a) & (b)



KI-199(e) & (f)



KI-199(g)



KI-199(f)



KI-199(h)

- vii) 12 x 50 ml Angle Rotor Head with see through acrylic cover & PP tubes
- viii) 36 x 15 ml Angle Rotor Head with see through acrylic cover & PP tubes

KI-199 (i) Research Centrifuge High Speed Table Top Model:

Control panel provided with Digital speed meter, dynamic brakes, stepless speed control, 0-99 minutes Digital Timer with bypass switch, zero start interlock switch, see through acrylic top cover & lid locking switch, unbalance safety device, Max. Speed 20000 RPM. Max. RCF 34500 x g (w/o Rotor Heads & carriers) Ⓢ

KI-199 (j) High Speed Refrigerated Centrifuge with Control panel provided with stepless speed control, Digital speed meter, Alarm automatic switching off, 0-99 min. Digital Timer, dynamic brakes, zero start interlock switch, digital temp. control device, push button switch cum indicator. It is equipped with a hermetically sealed Compressor for cooling the chamber. The Centrifuge chamber is made of SS. Temp. Range : -10°C to + 40°C & provided with see through acrylic cover and lid locking switch. Max. Speed 20000 RPM. Max. RCF 34500 x g (without Rotor Heads) Ⓢ

Rotor Heads for above KI-199 (i) & (j)

- i) 4 x 100 ml Angle Rotor Head with lid, epoxy coating with 4 No PP tubes
- ii) 8 x 50 ml Angle Rotor Head with lid, epoxy coating with 8 No PP tubes
- iii) 4 x 50 ml Angle Rotor Head with lid, epoxy coating with 4 No PP tubes
- iv) 8 x 25 ml Angle Rotor Head with lid, epoxy coating with 8 No PP tubes
- v) 6 x 25 ml Angle Rotor Head with lid, epoxy coating with 6 No PP tubes
- vi) 12 x 15 ml Angle Rotor Head with lid, epoxy coating with 12 No PP tubes

- vii) 8 x 15 ml Angle Rotor Head with lid, epoxy coating with 8 No PP tubes
- viii) 4 x 10 ml Swingout Rotor with lid, sterilisable epoxy coating and 4 Nos metal carriers, rubber cushions and glass tubes.
- ix) 24 x 2/1.5 ml Angle Rotor with lid, epoxy coating with 24 Nos 2/1.5 ml Eppendorf tubes
- x) 4 x 25 ml Swingout Rotor with sterilisable epoxy coating and 4 Nos metal carriers, rubber cushions & glass tubes.

KI-199 (k) High Speed Research Centrifuge with Microprocessor control and Brush less Motor Drive. The centrifuge is provided with user friendly 10 programme memory for setting parameters like RPM, Time, Acceleration/Deceleration time setting, Rotor selection. The display and features are RPM by default, RCF by selection count down timer, Ⓢ electronic lid locking switch with indicator, Rotor vibration indicator. Maximum Speed 20000 RPM RCF 34500 x g (without Rotor & Head)

KI-199 (l) High Speed Refrigerated Centrifuge with Microprocessor control and Brush less Motor Drive. The centrifuge is provided with user friendly 10 programme memory for setting parameters like RPM, Time, Acceleration/Deceleration time setting, Temperature, Rotor selection. The display and features are RPM by default, RCF by selection count down timer, chamber temperature, electronic lid locking switch with indicator, Rotor vibration indicator and auto cut off when excessive vibration and chamber temp. The centrifuge is provided with CFC free cooling compressor with a range of -10°C to + 40°C resiliently mounted for vibration free vibration. Max. Speed 20000 RPM. Max. RCF 34500 x g (without Rotor & Head) Ⓢ

Interchangeable Rotors & Heads KI-199 (k & l)

- i) 8 x 50 ml Angle Rotor Head with 8 Nos of sterilisable PP tubes



KI-199(i)



KI-199(j)



ROTORS & HEADS

- ii) 18 x 15 ml Angle Rotor Head with 18 Nos of sterilisable PP tubes
- iii) 12 x 15 ml Angle Rotor Head with 12 Nos of sterilisable PP tubes
- iv) 24 x 1.5 ml Angle Rotor Head with 24 Nos of disposable Eppendorf tubes

KI-199 (m) Microspin centrifuge with stepless speed control, 1-99 min. Digital preset timer with bypass switch and Digital speed indicator. Max speed 16000 RPM, Max RCF 17600 x g (without Rotor & Head) Ⓢ

KI 199 (n) Refrigerated Microspin centrifuge with programmable stepless speed control, 1-99 min. Digital preset timer with bypass switch and Digital speed indicator. Acceleration and deceleration time setting in range of 30 to 300 sec. CFC free cooling system with Digital Temp. controller, Temp. range: -10 to +40°C, imbalance safety device, zero start interlock, and lid locking switch. Max speed 16000 RPM, Max RCF 17600 x g (without Rotor & Head) Ⓢ

Interchangeable Rotors & Heads KI-199 (k & l)

- i) 24 x 1.5 ml Angle Rotor Head with taper bottom PP tubes.
- ii) 24 x PCR tubes angle rotor head
- iii) 30 x 0.4 ml Angle Rotor Head with taper bottom PP tubes.
- iv) 12 x 0.5 ml Angle Rotor Head with taper bottom PP tubes.

KI 200 Slide Cabinet 'Closed Pack Manner' for storing 3"x1" slides in 480x75mm drawer in vertical position one after other. Made of M.S. Sheet with spray finish.

- (a) for 5000 Slides/ 16 drawers
- (b) for 10000 Slides/ 32 drawers
- (c) for 20000 Slides/ 64 drawers
- (d) for 25000 Slides/ 80 drawers
- (e) for 50000 Slides/160 drawers
- (f) for 100000 Slides/320 drawers

KI 201 Slide cabinet made of thick MS Sheet. Fitted with Handle, Lock & key, and index holder. Fitted with slotted Aluminium carrier to hold slides in **Horizontal** position.

Capacity	1000	2000	3000	5000	10000	20000	25000	Slides
----------	------	------	------	------	-------	-------	-------	--------

KI 202 Micro Slide cabinet for storing 3"x1" slides in Flat Position:

Capacity	500	1000	2000	Slides
Capacity	3000	5000	10000	Slides

KI 203 Block Cabinet made from M.S. Sheet duly enamel painted, drawers are fitted with Index card holders.

Block Cap.	2000	5000	10000	20000
------------	------	------	-------	-------

KI 203 (a) Slide Carrying Tray for 20 Slides

PAPER & BOARD TESTING EQUIPMENTS

KI 204 Bursting Strength Tester:

- (a) Electrically operated Analogue Model with double pressure gauges 7 Kg/cm² & 35 Kg/cm²
- (b) Same as above but Digital Model

KI 205 Digital Tensile Testing Machine Cap 100 kg x 0.01 Kg, Elongations upto 900mm x 0.1 mm

KI 206 (a) Cobb Tester (Sizing Tester)

KI 206 (b) Thickness Gauge For Paper

KI 206 (c) Drop Test Apparatus

KI 207 Digital Compression strength Tester: For Transport Packages, Traverse speed: 12 ± 3 mm/min.



KI-199(m)



KI-200



KI-201



KI-204



KI-205



KI-207

- (a) 1m X 1m platform, Cap. 1000 kg x 0.1 Kg
- (b) 600mm X 600 mm platform, Cap. 1000 kg x 0.1 Kg
- (c) 450 mm X 450mm platform, Cap. 500 kg x 0.1 Kg

- KI 208 Digital Paper Moisture Meter** Range: 0-40 %
- KI 209 (a) Digital Wood/Timber Moisture Meter:** LCD Display, Data hold Range: 0-50 % & -10 to +65 C
- KI 209 (b) Digital Wood/Timber Moisture Meter:** (Four Pin) LCD Display, Data hold Range: 7-15 % & 16-35 %

KI 210 Metabolic Shaker or Water bath Shaker: Double walled unit, inner chamber & lid made of SS and outer of MS duly power coated. Provided with an oscillating tray riding on rollers equipped with a variable speed motor. Shaking speed: 40 to 140 per minute. Temp. Ambient to 100°C, thermostatically controlled. Provided with 1 No. shaking tray.
Size : 400x300x150 mm
 275x275x150 mm

KI 210 (a) Specifications same as KI 210 but Temp. 5°C to 100°C fitted with CFC free Refrigeration system with Emerson compressor. Temp. controlled with digital temp. indicator cum controller.
Size : 400x300x150 mm
 275x275x150 mm

KI 210 (b) Optional Accessories:

- (1) Digital RPM Indicator
- (2) Digital Temp. Indicator cum controller

KI 210 (c) Shaking Racks made of S.Steel for above

- 1) To hold 16 Nos. 25 ml. Conical Flask
- 2) To hold 12 Nos. 50 ml. Conical Flask
- 3) To hold 9 Nos. 100 ml. Conical Flask
- 4) To hold 5 Nos. 250 ml. Conical Flask
- 5) To hold 25 Nos. 25 mm. dia Test Tubes

KI 211 Pipette Dryer: Electrically Operated, Made of SS. Suitable for drying pipettes, burettes and other glassware upto 375 mm length.

KI 212 Glass Ware Dryer with Electrically Driven blower which Forces air through 12 Brass Nickle Plated Tubes which are perforated by No. of small holes fitted with heating elements, ON/OFF switch & indicator lamp to work on 220 V AC

KI 213 Environmental/Plant Growth Chamber: Inside made of SS, outside M.Steel duly powder coated fitted with CFC free refrigeration system, heating and lighting arrangement. Temp. Range: 5 to 50° C ±1° .C. Temp. can be obtained from 15 to 50° C ± 1° C when all lights are 'ON' Temp. is controlled by Digital Temp. Indicator cum Controller. It is provided with Humidity Control from Ambient +5% to 95% at cool temp. controlled with Digital Humidity controller.

W x H x D	Cap.	Inside SS
505 x 830 x 415 mm		6 cu.ft.
570 x 875 x 550 mm		10 cu.ft.
950 x 650 x 550 mm		12 cu.ft.
950 x 700 x 650 mm		15 cu.ft.
775 x 900 x 775 mm		20 cu.ft.
825 x 1200 x 825 mm		30 cu.ft.
900 x 1720 x 800 mm		45.8 cu.ft.

Optional Accessories:

- (1) Dual Temp. Indicator cum controller to set two temperatures for Day and Night.
- (2) Microprocessor based Temp. & Humidity controller with Alpha-numeric LCD display with datalogger, computer interface RS 232 and printer attachment facility. With builtin Timer and date & time display.

KI 214 Melting Point Apparatus: It is used for the determination of melting point upto 350° C. Made of Aluminium casting, provided with E.R. and illumination.



KI 214 (a) Digital Melting point App.: For precise determination of Melting/boiling point with Digital readout. 4 digit LED display. Temp. Range: 40° C to 300 ° C and readability 0.1 ° C

KI 215 Orbital Shaking Incubator: Double walled, Outer body of MS, Inner chamber of SS with air circulation fan, Temp. controlled by Digital Temp. Controller, Variable speed fitted with DC Motor with Digital RPM Meter, SS platform & SS lotus clamp with SS spring. Fitted with front double walled door with glass window/chest type acrylic dome. Size of the chamber: 600x600x600 mm sufficient enough to accommodate 16 flasks of 500/250 ml or 36 flasks of 100ml. Temp. Range from 5°C above ambient to 60°C ± 0.5°C.

KI 215 (a) Specifications same as KI 215 but Temp. range 5°C to 60°C ± 0.5°C. With CFC free refrigeration system.

KI 215 (b) Orbital Shaking Incubator (Deluxe Model): Same as above but with PMDC drive

KI 215 (c) Optional Accessories:-

- 1) Interior illumination with CFL lights for double walled metallic door model only.
- 2) Additional Tray to accommodate flask of different size with above
- 3) Voltage Stabilizer 4 KVA
- 4) Digital 24 hr. Cyclic Timer with LCD display

KI 216 B.O.D. Incubator (Automatic): Low Temp Incubator fitted with CFC free Refrigeration system. Temp. Range: 5 to 50°C controlled with Digital Temp. Controller. Double Walled, outer chamber of M.S. duly powder coated, inner chamber of S.S. Fitted with glass window or glass door.

Chamber Size(HxWxD)

950 x 700 x 650 mm	15c ft.
950 x 650 x 550 mm	12c ft.
875 x 570 x 550 mm	10c ft.

830 x 505 x 415 mm	6.1c ft.
610 x 455 x 410 mm	4.0c ft.

KI 216 (a) Optional Accessories :

1. Interior Illumination with 3 Nos. fluorescent tubes of 60 cm length with Electronic choke. separate on/off switch for tubes and minimum temp. can be obtained from 10 to 50°C when all the tubes are ON.
2. —do— but tube lights fitted in Main door/ separate door on one side of chamber with double glass partition.
3. Digital Timer 0-24 hours, for regulating cyclic illumination condition, LCD Display
4. Timer 99.54 Hr./Min. LED display
5. Voltage Stabilizer 3 KVA (Triple Relay)
6. Humidity Control 5% above ambient to 95% with S.S Tank
7. Digital Humidity Controller.
8. Microprocessor based PID Temp. controller LED display with computer interface RS 232 alongwith software
9. Microprocessor based Temp. controller with alphanumeric LCD display with datalogger, computer interface RS 232 and printer attachment facility. With builtin Timer and date & time display

KI 217 (a) Seed Germinator: Dual Chamber, Inner Chamber made of SS 304 and outside of M.S. elegantly finished, Glass door for testing visibility, Double compartment with independent controls. Each chamber have 14 trays i.e. 28 trays of 430x480 mm. Each chamber has separate air circulation system with provision for an even distribution of air by the blower which ensure uniformity of temp. throughout the chamber. Suitable for operation on 230/220 V AC. Size of each Inside chamber: 910x550x605 mm Temp. Range 5 to 50°C. Complete with Illumination & Timer.

KI 217 (b) Seed Germinator (Dual Chamber): Specification Same as above but provided with heating and cooling system in both chambers instead of one for heating & another one for cooling



KI-214(a)



KI-215



KI-215 (a&b)



KI-216



KI-217(a)

KI 217 (c) Seed Germinator Single chamber: Temp. range 5 to 50°C, Humidity 90-95%. Complete automatic heating and cooling with 12 trays Other specification & sizes are as per Model No. **KI 217 (a)** Temp. controlled with Digital Temp. controller. ☺

KI 218 Ultra Low Temperature Cabinet Vertical/ Horizontal (Deep Freezer) : Double walled unit, outer made of MS & inner made of SS. Fitted with CFC free Refrigeration system with Emerson compressor. Horizontal models are supplied in Single/Double Compartments. Vertical models are provided with 2/ 3 Nos. SS Trays. Temp. range from ambient to -20,-30 °C controlled by a solid state Digital Temp. controller-cum -indicator fitted with two indicators, ON/OFF switch. ☺

Horizontal Cap.

- 2.0 cu. ft.
- 4.5 cu. ft.
- 5.5 cu. ft.
- 7.5 cu. ft.
- 10.0 cu. ft.
- 12.0 cu. ft.
- 15.0 cu. ft.

Vertical Cap.

- 2.0 cu. ft.
- 4.5 cu. ft.
- 5.5 cu. ft.
- 7.5 cu. ft.
- 10.0 cu. ft.
- 12.0 cu. ft.
- 15.0 cu. ft.

KI 219 Humidity and Temperature Control Cabinet: Double walled, outer made of MS and inner chamber made of SS. with forced Air ☺ Circulation. Temp. 5°C above room temp. to 60 Deg.C Humidity Ambient + 5% to 95% ± 5%. Temp. controlled with Digital Temp. controller and Humidity with Digital Humidity controller.

- 455 x 455 x 720 mm (5.5 C.Ft.)
- 605 x 605 x 605 mm (8.0 C.Ft.)
- 605 x 605 x 905 mm (12.0 C.Ft.)

KI 220 Refrigerated Humidity Cabinet: Specifications same as in Model No. **KI 219** but fitted with an CFC free Refrigeration system to ☺ obtain Temp. from 10°C to 50°C ± 1°C and relative. Humidity Ambient +5% to 95% ± 5%. Suitable to work on 230 V, 50 Hz. AC. Temp. controlled with Digital Temp. controller and Humidity with Digital Humidity controller.

- 455 x 455 x 710 mm
- 605 x 605 x 605 mm
- 605 x 605 x 910 mm

KI 220 (b) Optional Accessories for KI 220 & KI 221:

- (i) Hair Hygrometer
- (ii) Digital Thermohygrometer battery operated
- (iii) Microprocessor based Temp. & Humidity controller with alpha-numeric LCD display with datalogger, computer interface RS 232 and printer attachment facility. With builtin Timer and date & time display.

KI 221 Mortuary Chamber: Suitable for storing Cadaverous under cool condition to prevent decomposition. Made of Prefabricated PUFF panels with outer wall made of precoated MS sheet and inner wall made of SS. SS Trays to carry dead bodies are provided with handles and travel on rollers fitted with ball bearing for easy movement. Provided with CFC free Refrigeration unit with Emerson Compressor. Temp. Range: ☺ 2°C to 8°C. Temp. controlled with Digital Temp. Controller

- Single Body
- Double Body
- Three Body
- Four Body
- Six Body



KI-217(c)



KI-218



KI-218



KI-219



KI-220



KI-221

KI 221 (b) Cadaverous Injector: Size 30"x30"x20" S.S. Tank with ½ H.P. Compressor

KI 221 (c) Needle Incinerator (Destroyer) cum-cutter

KI 222 Glass Distillation: Automatic Electrically Heated NPL Type complete with Glass flask with embedded heating elements fused in spiral glass coil, double walled condensor with standard joints, glass fittings, Metal Stand, Electric Board with switch, Neon light indicator and connecting cord for Flask & main. **Single/Double/Triple Stage** ☺
Capacity of

Flasks

3 litre

5 litre

10 litre

KI 222 (a) Automatic Water Level cut off device

For Single & Double stage

Triple stage

KI 222 (b) Spare flask for Glass Distillation 3 lr.
5 lr.
10 lr.

KI 222 (c) Spare Condensor 3/5 ltr.
10 ltr.

KI 222 (d) Vertical Glass Distillation with quartz heater tube with automatic water level cut off device. The system is mounted on Metal Box ☺
Cap. 1.5 Lt. / Hr. Single/Double Stage

KI 222 (e) Horizontal Glass Distillation with quartz heater tube with automatic water level cut off device. The system is mounted on Metal Box. ☺
Capacity available are 1.5 Lt./Hr. & 3.5 Lt./Hr.
Single/Double Stage

KI 223 (a) Quartz Distillation Apparatus: Made of Transparent Fused Quartz tube with Electronic Cut off. Complete with stand, Board & ☺
 Switches etc. Complete with Quartz Condenser & Quartz Boiler.

Cap. 1 Lt. 1.5 Lt. 2 Lt. 3 Lt. 5 Lt.

KI 223 (b) Quartz Distillation Apparatus: with Borosil Glass Condenser, Quartz Boiler complete with Electronic Cut off, Board, clamp & Switches, Single Stage. **Capacity: 1 Lt., 2 Lt., 3 Lt. & 5 Lt.** ☺

KI 224 Tissue Floating Bath: Double walled, made of Al. Inner is finished in black colour. Temp. controlled with thermostat. Inside (dia) 250 x 100 mm (depth) having 50 mm rim with cover. ☺

KI 225 Biological Safety Cabinet : Cabinet is fabricated out of the Board duly Sunmica clad/SS, interior surface is made of SS/Sunmica. Complete with SS table, U.V. light, Manometer, filtered Exhaust System, virus Burn-out unit, Sliding sash, HEPA filter, Pre-filter fluorescent light, Gauntlets & Glove Ports. This unit is incorporated with recirculation of air. ☺

Model	1.	2.	3.	4.
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"
No. of Hepa Filter	1	1	1	2
Illumination	1x20 W	1x20 W	1x30 W	1x30 W

Wooden Body

MS Body

SS 304 Body

Optional Accessories :

- 1) Exhaust Ducting Per Running Ft.
- 2) Gas Burner



KI-221 (b)



KI-221 (c)



KI-222



KI-222(d)



KI-222(e)



KI-224



KI-225

KI 226 Horizontal Laminar Flow Bench : Fabricated out of thick board clad with laminate. Side panels and front doors are made of thick plexi glass fitted in Al. frame. Blower & Motor assembly is statically & dynamically balanced and operates with min.noise. Supplied complete with S.S. Table Top, HEPA Filters having efficiency rating as high as 99.97%, Pre-Filters, Manometer, flourescent tube, U.V. light & Cock.

Model No.	1.	2.	3.
Working Area:	2'x2'x2'	3'x2'x2'	4'x2'x2'
Size of HEPA Filter:	2'x2'x6"	3'x2'x6"	4'x2'x6"
No. of HEPA Filter:	1	1	1
No. of Pre Filter:	1	2	2
Illumination:	1x20 W	1x20 W	2x40 W

Model No.	4.
Working Area:	6'x2'x2'
Size of HEPA Filter:	3'x2'x6"
No. of HEPA Filter:	2
No. of Pre Filter:	3
Illumination:	2x40 W

KI 227 Vertical Laminar Flow Bench: Specifications same as in **KI 226** but air is flowing down vertically from top towards the work table and also provided with Exhaust system

Model No.	1.	2.	3.
Working Area:	2'x2'x2'	3'x2'x2'	4'x2'x2'
Size of HEPA Filter:	2'x2'x6"	3'x2'x6"	4'x2'x6"
No. of HEPA Filter :	1	1	1
No. of Pre Filter:	1	2	2
Illumination:	1x20 W	1x20 W	2x40 W

Model No.	4.
Working Area:	6'x2'x2'
Size of HEPA Filter:	3'x2'x6"
No. of HEPA Filter :	2
No. of Pre Filter:	3
Illumination:	2x40 W

KI 227 (a) Horizontal/Vertical Laminar Fow Bench : Fabricated out of MS duly powder coated other specification are same as of wooden Laminar in **KI 226/227**

Size	2' x 2' x 2'	3' x 2' x 2'	4' x 2' x 2'	6' x 2' x 2'
------	--------------	--------------	--------------	--------------

KI 227 (b) Horizontal/Vertical Laminar Fow Bench : Fabricated out of SS 304 other specification are same as of wooden Laminar **KI 226/227**

Size	2' x 2' x 2'	3' x 2' x 2'	4' x 2' x 2'	6' x 2' x 2'
------	--------------	--------------	--------------	--------------

KI 227 (c) Optional Accessories for Laminar/Biosafety cabinets:

- (i) HEPA Filter 2x 2' x 6"
3' x 2' x 6"
4' x 2' x 6"
- (ii) Manometer
- (iii) U.V. Tube 18"
- (iv) U.V. Tube 36"
- (v) Pre-Filter

KI 228 A.C. Module: It is attached with Air Conditioner and supplies conditioned clean air equivalent to class 100. Self Standing Model. Fitted with Blower, pre filters and HEPA filters etc. 500 CFM. Size: 2' x 2'



KI-226



KI-227



KI-227 (b)



KI-227 (c) (i)



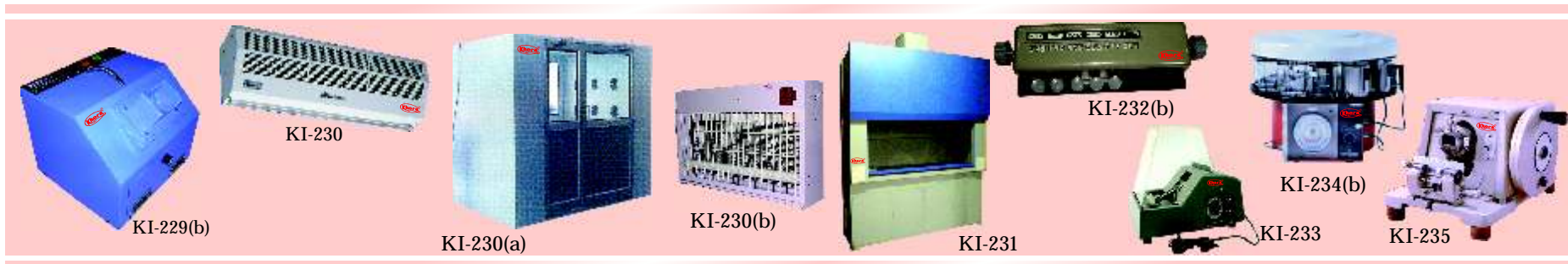
KI-228

- KI 229 (a) Ultra Violet Lamp (Box Type):** It is a portable dark room for U.V. visualisation of fluorescent materials sample can be placed on the tray by opening the window and suitable for paper chromatography, Analysis mainly for graduation of oil. Radiation Range: 3200 to 4000 AU Centred around 3600 AU.
- KI 229 (b) Ultra Violet Lamp:** Box Type, combined Short & Long Wave without filter. It is portable dark room design providing both the facilities for short wave and long wave U.V. visualisation of test objects. The operator can carry on inspection of objects where long wave U.V. radiations is necessary. U.V. radiation for long wave is centred around 3600 AU & for short wave is centred around 2500 AU.
- KI 230 Air Curtain:** It acts as a barrier for outside hot, humid & polluted air and also prevents escape of conditioned air. It is fabricated out of MS sheet. Fitted with balanced blowers made of Al. with minimum noise & no vibration. Available with Normal & High (20 to 22 m/s) velocity.
Door Width
 750 mm
 900 mm
 1200 mm
 1500 mm
 1800 mm
- KI 230 (a) Air Shower** in fitted with Pre-fitter, HEPA filters, Motor Blower assembly, door inter locking system, magnetic door lock. It is fabricated out of 19mm thick board duly laminated/M.S. duly powder coated/SS 304. It has high air flow through the nozzles fitted on wall & roof. Air shower has manual/semi-auto/fully automatic programming. It has two operation mode (i) Entry only (ii) Entry & Exit. Sizes (a) 3' x 3' x 7' (b) 3' x 4' x 7'.
- KI 230 (b) Flying Insect Killer 24"x 2 tubes**
(c) Flying Insect Killer 18"x 2 tubes
- KI 231 Fume Hood:** These are designed to exhaust toxic & harmful vapours from the working area. A motor and blower balanced system generates negative pressure within the hood. Fabricated

of thick wooden board with Sunmica & Interior is made of SS/Sunmica. Working Table is fitted with SS top & Wash Basin. The front door moves vertically up and down with concealed counter balanced weights. The unit is provided with fluorescent light, Gas Cock, Exhaust System. ☺

Size: 2'x2'x2' 3'x2'x2' 4'x2'x2' 5'x2'x2' 6'x2'x2'

- KI 232 (a) Colony Counter** (for counting Bacterial colonies): Complete with counting plate, 100 mm dia lens and marking pen.
- KI 232 (b) Laboratory counter six unit (Blood cell)** with 5 keys and one totaliser.
- KI 232 (c)** – do – but with 8 keys and one totaliser.
- KI 233 Automatic Microtome Knife Sharpner** (A.O.Spencer Type): The unit consist of sturdy housing fitted with geared motor which ensures an equal bevel angle by moving the knife to & fro and automatically reverses the same at regular intervals. It is fitted with transparent hinged cover. Knife of length 170-185 mm can be accommodated on the unit. Supplied complete with 0-60 minute timer, two honning plates, one knife holder and cord & plug to work on 220/230 V.
- KI 234 (a) Automatic Tissue Processor:** For processing of Tissues by Histopathological Technique. Complete with 2 No. Wax Bath, 1No. S.S. Basket, 12 No. Tissue container, 10 No. Beaker (1Lt.) with cover, 6 No. 24 Hrs. timing calibrated disc, 1 No. Basket Rotor complete with dust cover.
- KI 234 (b) Automatic Tissue Processor with Safety Device :** Specification as per model KI 234(a) but with equipped with built-in safety device to protect the tissues during power failure.
- KI 235 Precision Rotary Microtome** (Latest Model 820 Spencer type): It is used for precise sectioning with feed setting visible from front, improved locking device and counter balanced wheel with **CAM DRIVE SYSTEM**. Feed is adjustable from 1 to 50 microns in step of



1 micron. Free up & down movement of object clamp. Takes specimen upto 32 x 27 mm on block holders. Cutting angle is adjustable through 30°. Two lever release knife holder for resetting angles and a third lever releases the entire assembly for movement on slide way to adjust horizontal distance from object. Supplied with one knife 120 mm with back & handle, 2 block holder, lubricating oil.

- KI 236 Microtome Cryostate Automatic:** It is used for sectioning of natural tissue from 2 to 20 microns in step of 2 microns. Built in Rotary microtome is fitted with Anti Roll device to avoid curling of sections. Temp. Ranges upto $-40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ controlled with Digital Temp. controller. It also incorporates Automatic Defrosting system, delay timer, defrost timer, control panel, voltmeter, indicators, main switch, fluorescent tube.
- KI 237 Freezing Microtome (Erma Japan type):** It is based on principle of freezing with evaporation of CO₂ gas around the specimen. Table model & can be clamped at any corner of the table. Allows section thickness between 5-40 microns in steps of 5 microns. Supplied complete with freezing attachment having specimen stage of 32mm dia., gas pipe, one knife 120mm with back and handle, having plate but without gas cylinder.
- KI 237 (a) Microtome Erma Japan type**
KI 237 (b) Microtome Lipsa model
KI 237 (c) Microtome Knife
- | | | | | |
|-------------|-----|-----|-----|--------|
| Size | 120 | 150 | 180 | 200 mm |
|-------------|-----|-----|-----|--------|
- KI 238 Inspissators :** Double walled, Outer made of MS duly powder coated. Electrically operated special for sterilizing the mediawater. Bottles. Inner Jacket, Lid & rack of S. Steel, thermostatically controlled.
- | | | | | |
|-------------------|----|----|-----|-----------|
| Capacity : | 25 | 50 | 100 | 200 tubes |
|-------------------|----|----|-----|-----------|
- KI 239 Instrument Sterilizer** Thermostatically Controlled, made of S.S. having automatic lifting arrangement with insulated handles. The sterilizer is fitted with

automatic immersion water heater with safety ejection device.

Working Size

- 300 x 150 x 100 mm
- 430 x 200 x 150 mm
- 600 x 300 x 150 mm

- KI 240 Dressing Drums Made of S.Steel**
- (a) 225 x 225 mm
 - (b) 275 x 225 mm
 - (c) 350 x 250 mm
 - (d) 275 x 130 mm
 - (e) 350 x 130 mm
- KI 241 Lux Meter Digital:** Upto 50000 Lux, hand held, works on 9V dry battery.
- KI 241(a) -----do-----** but upto 200000 Lux
- KI 242 Abbe Refractometer :** It is used for precise measurement of Refractive index from 1.3 to 1.7 with an accuracy of 0.001 by direct reading on scale & 0.0001 by estimation. Sugar percentage range 0-95% with an accuracy of 1% on scale and 0.1% by estimation. Complete with test piece, contact liquid and thermometer. Complete in wooden cabinet. ☺
- KI 242 (a) -do- Export Model**
- KI 242 (b) Water Bath** for Abbe Refractometer with circulation pump.
- KI 243 Butyro Refractometer (Oil & Sugar)** Range- 50 -80%, Acc. 1% Direct scale ☺
- KI 244 Polarimeter:** Instrument is used for testing sugar solution and other optically active liquids. Designed to accommodate upto 220mm tube having both Angular & sugar scale with Rotating half shadow effect. (without sodium lamp & Assembly & choke)
- KI 244 (a) Polarimeter:** Specifications same as KI 244 but with **Rotating triple shadow effect** and fine optics.
- KI 245 Polarimeter:** Specifications same as KI 244 but with suitable to accommodate 400mm tube.



KI 245 (a) Polarimeter: Specifications same as KI 244 but with **Rotating triple shadow effect** and fine optics 400 MM.

KI 245 (b) Polarimeter Spares:

(i) Polarimeter Tube	Bubble type	Centre fitting
100mm		
200mm		
400mm		

KI 246 Sodium Lamp, Assembly & Choke

KI 247(a) Pocket Refractometer (B&S Type) 0-50% ☺

KI 247(b) Pocket Refractometer ERMA type OR ERMA Japan. ☺

- (a) 0-32% with 0-2% accuracy
- (b) 28-62%
- (c) 58-92%

KI 247 (c) Pocket Refractometer 40-85% (with imported optics) ☺

KI 248 Hand Refractometer ERMA Japan 0-10%, 0-18%, 0-55%, 45-82% (any range)

KI 249 Digital Hand Refractometer ATAGO Japan

- (a) 0.0 - 53.0 % Model PAL-1
- (b) 45.0 - 93.0 % Model PAL-2
- (c) 0.0 - 93.0 % Model PAL-3
- (d) 0.0 - 85.0 % Model PAL-Maple
- (e) 1.3306 to 1.5284 (Refractive Index) Model PAL-RI
- (f) 0.0 to 93.0 % (Brix) & 1.3306 to 1.5284 (Refractive Index) Model PAL-BX/RI

KI 250 Infrared Moisture Balance: With Electronic Regulator 5/10/20/25 gm. An accuracy of 0.2% by direct reading, 0.1% by estimation. Complete with L shape thermometer, 10 Nos. disposable pan and twizor.

KI 250 (a) Optional Accessories:

- (i) Disposable Pan
- (ii) Sample pan
- (iii) Retainer pan

- (iv) L thermometer
- (v) Torsion wire
- (vi) I.R. Bulb

KI 251 Freeze Dryer (Lypholizer): Lab floor standing model with Hermetically sealed Emerson compressor and CFC free refrigeration allows temp. upto -40°C and controlled with Digital Temp. Controller. Vacuum drum 22.8 cm (dia) x 25.4 cm (Ht.) made of Non-magnetic steel with plexi glass top cover is provided for manifold drying. Double stage vacuum pump along with Electronic vacuum indicator is provided with the equipment. Capacity 5 Lt. approx. (without Volt. Stabilizer)

KI 251 (a) -----do----- but Capacity 3 Lt. approx. ☺

KI 251 (b) Optional Accessories for KI 251 Freeze Dryer:

- (i) Secondary Drying attachment
- (ii) Prefreezing attachment
- (iii) Heat rack with 2/3 individually heated rack for accelerated freeze drying of small batch sample in bulk. (Tray, petri dishes, beakers etc) adaptable to main drying chamber of lypholizer

KI 252(a) Brix Hydrometer Glass with Builtin Thermometer (any range)

(b) Beume Hydrometer Brass (any range)

(c) Beume Hydrometer Glass (any range)

(d) Specific Gravity Hydrometer Glass Light/Heavy liquid (any range)

KI 253 Digital Bomb Calorimeter : It is used for determination of heat of combustion of organic matter, calorific value & sulphur content of solid & liquid fuel. Bomb is tested as per requirement of Institute of Petroleum (IP 12/63 T Appendix 1). Complete with Electronic firing unit with Digital backman thermometer, SS crucible, Bomb calorimeter vessel with Bomb support, water jacket, lid, offset stirrer, connecting leads and other necessary accessories. (Without oxygen cylinder)

KI 253 (a) Optional Accessories:

- (i) Oxygen Cylinder Capacity : 10 Ltr. with Regulator for above
- (ii) Digital Thermometer with Firing Unit



- KI 254 Humidifier:** Made of SS provided with high speed 2800 RPM motor and the blades are aerodynamically balanced to ensure dropleess fumigation. Capacity: 3 Lt. ☺
5 Lt.
Control Box with Humiditistate
- KI 254 (a) Dehumidifier:** Based on Refrigeration system, it is used to remove excess moisture from the atmosphere. It is self standing model provided ☺ with castors, builtin water tank for water collection. It controls humidity upto 30% ± 3% with the help of Imported humidistat. Cap. 1.0 Tonn
Cap. 1.5 Tonn
- KI 255 Tissue Culture Rack:** Racks made of heavy guage MS Pipes duly Powder Coated. Complete with On/Off Switches & Digital Timer.
(a) Unit of 4 Racks with 16 Flourscent Tubes & 16 Bulbs. ☺
(b) Unit of 5 Racks with 20 Tubes & 20 Bulbs
(c) Unit of 6 Racks with 24 Tubes & 24 Bulbs
Optional Accessories :
1) Lux Meter to measure light Intensity
2) U.V. Light 36"
- KI 256 Anerbic Culture Jar:** All Metal body consists of SS jar modified Mackintosh pattern. Size of Jar: 22 x 22 cm complete with Compound Guage, two needle valves for evacuation. The jar is sealed with 'O' ring retained in the grooves around the perimeter of the lid powder coated.
- KI 256 (a) Anerbic Culture Jar** same as above but made of Polycarbonate
- KI 257 High Temperature Oil Bath :** Double walled, outer made of MS duly powder coated and inner made of SS. Temp.range from 50 to 250°C. Thermostatically conrolled with an accuracy of ± 2°C to work on 220/230 V AC Complete with Stirrer. ☺
Size : 250x250x250 mm
300x300x250 mm
355x300x250 mm
- KI 257 (a) Optional Accessories:** Digital Temp.controller-cum-indicator

KI 258 (a) Overhead Projector: With twin lamp system & cooling system.

KI 258 (b) Overhead Projector Portable

KI 258 (c) Slide Projector Automatic:

- 1) Complete with Linear Tray and remote control for focussing
- 2) With remote control Straight/Round tray Autofocus
- 3) Spare Halogen Bulb 150 W/24 V
- 4) Spare Bulb for Overhead Projector 650 W
- 5) Projection Screen 70"x50" on Tripod Stand
- 6) Laser Pointer Battery Operated

KI 259 Egg Incubator : With manual Tilting arrangement, Temp. Range: Ambient to 70 °C controlled by Digital Temp. controller and Air circulation fan with PP Trays but without Humidity arrangement

Capacity

- 50 Eggs
- 100 Eggs
- 200 Eggs
- 250 Eggs

KI 259 (a) Optional Accessories:

(1) Humidity arrangement Range 70% to 85% ± 5% controlled with humidistat

KI 259 (b) Poultry Incubator : Lab. model with Automatic Settler cum Hatcher with Tilting Device, Timer & Humidity Control, Outer MS & Inner SS, Setter Tray made of PP & Hatcher tray of SS sheet. Humidity controlled with humidistat. Temp. is controlled with thermostat. Provided with heating, cooling (through water circulation system) & circulation fan. Temp. Range: 35 to 38°C ± 0.5°C with extra safety thermostat & alarm system.

Capacity

- 50 Eggs
- 150 Eggs
- 200 Eggs
- 250 Eggs



- KI 260** **CO₂ Incubator** with LCD based Temperature & CO₂ Controller.
 With Printer Interface Temp. : 37°C ± 0.1°C
 CO₂ - 0-20% ± 2%
 450 x 450 x 450 mm (95 ltr.)
 450 x 450 x 600 mm (125 ltr.)
 500 x 500 x 700 mm (180 ltr.)
Optional : IR Sensor for CO₂

DIGITAL INSTRUMENTS

- KI 261 (a) Digital Temp. Indicator** Portable Hand Held Battery Operated
(b) Digital Humidity & Temp. Meter: 220Volts operated with wet & dry sensor/capacitive sensor for humidity
(c) Digital Thermohygrometer: With LCD Display battery operated (Imported)
KI 261 (d) Infra Red Thermometer Digital: With LCD Display, battery operated (Imported). Temp. Range: -20°C to + 420°C
KI 261 (e) Digital Sound Level Meter Range 80 to 130 db, battery operated
KI 261 (f) Digital Stop Watch: 1/10th of sec.LCD display, battery operated
KI 262 (a) Digital pH Meter Display 3½ digit LCD, 0 to 14 pH, 0 to ± 2000 m Acc. ± 0.01 pH (relative), Slop Correction facility 80% to 120%, Temp.compensation, Power supply 230 V ± 10% supplied with combined electrode, Buffer solution, electrode stand, Dust Cover,
KI 262 (b) Portable Digital pH Meter: Display 3½ digit LCD, 0 to 14 pH, Acc. ± 0.01 pH, Manual Temp.compensation 0-100°C, 9V DC Battery operated. Supplied with combined electrode & Carrying Case, Housed in ABS cabinet
Options: I Combination Electrode for above
 II Automatic Temp. Compensation from 0 to 100 °C with PT-100 probe
 III Gel filled Epoxy comined electrode

- KI 262 (c) Micro Processor pH System** with with Alphanumeric 16x2 LCD dispaly, simultaneous pH/m V and Temp. Display, Auto Temp. Compensation, data storage facility upto 90 samples, printer attachment facility, auto buffer recognition along with accessories
KI 262 (d) pH Meter Pen Type: 0-14pH, Acc. ± 0.2 pH, (Imported), Temp. 3½ digit LED display
KI 262 (e) Digital pH-MHO Meter: For measuring pH, conductivity & Temp. Digital 3½ digit LED display, pH range 0 to 14 pH, conductivity range 0 to 1000 mmho in 5 ranges. Supplied with 1 no. pH electrode, 1 no. conductivity cell and temp. probe
KI 263 (a) Portable Conductivity Meter: Display 3½ Digit LCD, 0 to 1999 µs, 0 to 19.99 ms Acc: 1% FS. 9V DC Battery operated. Supplied with conductivity cell & Carrying Case, Housed in ABS cabinet.
KI 263 (b) Microprocessor based Conductivity/TDS meter with Alphanumeric 16 x 2 LCD display showing conductivity, TDS & Temp. Auto ranging, selectable reference temp. & temp. coefficient. Data Storage for 90 samples & external printer attachment facility.
KI 263 (c) Digital Conductivity Meter : Display 3½ digit LED, Range 0 to 200 µS/cm, 0 to 2 mS/cm, 0 to 20 mS/cm, 0 to 200 mS/cm, 0 to 1000 mS/cm, Acc.± 1% FS .± 1 Digit, Resolution : 0.1µs/cm, Cell constant adjustable on Digital display, Temp. Compensation : 0 to 70° C (Manual), supplied with Conductivity cell and electrode stand.
KI 263 (d) Dip Type Glass Cell for above
KI 263 (e) Conductivity Meter Pen Type (Imported) Range 10-1990 or 100-1990 us
KI 263 (f) TDS Meter Pen Type (Imported) Range: 10-1990 ppm or 100-10000 ppm
KI 264 **Digital Moisture Meter for Soil**
KI 265 **Tele Thermometer** for Pyrogen testing Digital 6 Channel Portable with 6 Probes

