

SPECIFICATION FOR ULTRASONIC PIPETTE WASHER

- Frequency 37 ± 3 kHz.
- Tank Grade Stainless Steel 304
- Outer Body – Moulded fiber non-rusting body
- Digital timer.
- 370 Watts power.
- Tank Capacity – 10 litres minimum.

SPECIFICATION FOR LAMINAR FLOW CABINET (MICROBIOLOGY)

- Vertical mode, stainless steel body
- Cleanliness : Class 100
- Particle Retention – 0.3 micron & above.
- Velocity – 90 FPM +20%
- Noise levels – 60-65 decibels (A)
- Vibration level – 20 Micron pp.
- Standard – FED STD 209B
- Power supply – 220 V single phase.

Size 2L x 2D x 2 H feet. (Maximum)

SPECIFICATIONS FOR DEEP FREEZE – 20 °C

- Vertical or Upright model with range of 1-20° C to -25° C.
- Hermetically sealed Compressor and Eco friendly refrigerant.
- High density PUF insulation for cabinet (75 mm) and for door (60mm).
- Main door with heavy duty latch and magnetic rubber gasket for tight closure.
- Each compartment to have separate door.
- Microprocessor based control system, Temperature chart recorder.
- Wheels for easy mobility.

SPECIFICATION FOR FLUORESCENCE MICROSCOPE

- Microscope stand – Lower part for illumination- stage should be coated with anodised surface.
- Infinity corrected optics- Eye piece tubes to be ergonomically designed with 20° inclination. Eyepiece tubes should be tiltable for convenient positioning.
- Transmitted light illumination with attachment for reflector lamp.
- 6 x revolving nose piece with slots for up gradation for DIC.
- 4 position filter wheel for filters- minimum – upgradable
- Universal condenser.
- Mount for 2 position filter slides. Fluorescence LED illumination should be of light trap technology.
- Reflector turret minimum – upgradable.
- Filter sets should be easily insertable and removable by push and click method.
- Dust protection set.
- High resolution digital camera with fluorescence mode capable of defining 5 color filters.
- With analysis software, sensor resolution/2080x1542 pixels minimum.
- Software to capture live moving images in video mode.

SPECIFICATION FOR CYTOSPIN CENTRIFUGE

- Speed : 200 – 4000 rpm
-
- Time : 1-99 minutes
-
- Capacity: 6-12 specimens at a time

- Digital display with alarm

Noise : < 55 dba

SPECIFICATION FOR LABORATORY MICROWAVE OVEN

- Microwave Output 825 W
- Effect Range 0-100%
- Temperature Range 0-120 ° C
- Temperature Accuracy Timer error <0.1%
- Temperature readout Update once/sec
- Rate:
- Temperature Readout <0.5 ° C
- Accuracy:
- Power Control Accuracy error < 1%
- Air agitation: Total air agitator 1 liter per minute nominal
- Internal lighting Chamber lighting available at all times via keyboard switch (40 watt incandescent lamp)
- Fluid ports 2 ports supplied as a standard – accepts up to 3/16” hose
- Pulse length 1 second
- Timer Value 0-99:59:59
- Vent System Vent fan rated at 106 CFM Normal.
- Input power 15A at 120 Volts nominal
10A at 230 Volts nominal
- Systems Dimensions: 19” Highx21.5”Wide x 24.5” Diameter
(24.1 cm x 34.3cm x 39.4cm)
- Weight 70 pounds
- Continuous Run Timer override works as a count up timer for an indefinite period of time.
- Safety Interlocks
 - *Vent interlock in inhibits operation unless vent airflow is normal.
 - * Primary Door Interlocks
 - * Monitor Switch – Short circuit of the magnetron when door is open.
 - * Oven temperature switch.

SPECIFICATION FOR ESR STAND

- Capacity > 100 samples with Bar code reading facilities.
- Quality Control to be demonstrated with reference standards on installation.
- User Certificates.
- Results at 18 ° C.
- Easy capture of 1 hr & 2 hr readings.
- Measurement principle infrared.
- Method : Westegren.
- Connectivity to computer with relevant software on installation to transmit results.

SPECIFICATION FOR LAMINAR FLOW CABINET(PATHOLOGY)

- Containment rating 0.05 ppm
- 70% exhaust with 30% circulation.
- Class II Type B 2 as per ISO 14644 – 1
- Size 6 x 2 x 2 ft with polycarbonate doors.
- Lab event timer with gas connection device.
- Filter monitor with U.V light usage meter.

Body Stainless Steel 1.7 grade.

SPECIFICATION FOR SEMEN ANALYZER

Ability to report on live demonstration

- Total functional sperm concentration.
- Mobility % TAT less than 60 sec.
- Normal Morphology %
- Sp Motility Index.
- Increased sensitivity for poor specimen validation.
- Nil sample preparation.
- WHO Methodology KRUGER criteria.
- Microscopic view capture on PC with UPS30 min back up on installation.

Interfacing capability, to be completed and demonstrated on installation.

SPECIFICATION FOR HOT AIR OVEN

- It should be double walled with outer wall made of mild steel. Inner chamber should be made of stainless steel.
- Temperature should be controlled by thermostat.
- Range of temperature : Room temperature to 150 ° C.
- Heating elements should be from bottom and 2 sides.
- Built in thermometer with indicator lamp should be present.
- Air circulating fan should be present.
- Digital temperature indicator with controller should be present.
- Size: (Inner chamber) : 35 x 35 x 35 cm with 2 shelves.

SPECIFICATION FOR AUTOCLAVE

- Vertical, Digital Model.
- Electrically operated under steam pressure boiling chamber.
- Lid should be made of heavy gauge stainless steel.
- Outer chamber should be made of SS.
- Unit should be provided with wing nuts to tighten the lid.
- Lid should be provided with pressure gauge, steam release valve and safety valve.
- There should be automatic cut off when water level is low.
- Automatic pressure cut off through digital temperature controller.

Volume – 22L

SPECIFICATION FOR LABORATORY INCUBATOR

- Double Walled with inner chamber made of 304 grade stainless steel.
- Outer chamber should be made of steel sheet with powder coat paint.
- There should be gap of 75mm between the wall and should be filled with glass wool for installation.
- Heater – SS Nichrome wire with air circulating fan.
- Door should have double glass window.
- Digital temperature controller with on/off switch should be present.
- Size 35 x 35 x 35cm

Tray – 2, removable

SPECIFICATION FOR DRY BATH

- Broad temperature range upto 150 ° C and uniformity to be maintained throughout.
- Single block model with stainless steel block chamber.
- Block, 20 x 13 mm tubes.
- Block 12 x 17mm tubes.
- Block lifter to exchange blocks easily, even when hot.
- Large digital display.

Microprocessor based control for accurate and rapid heating.

SPECIFICATION FOR MINI INCUBATOR – BACTERIOLOGY

- Stainless steel chamber.
- Large viewing area
- Dimensions (interior) – (23 x 20 x 20 cms)
- Additional shelf – 22 x 18 cm.
- Temperature – 5°C to 60°C
- Non toxic Teflon coated thermometer (-20 to 110°C)
1° resolution, 305 mm long, 76 mm immersion.

SPECIFICATION FOR WATER BATH (37° C)

- Temperature range – 5°c to 100°C
- Capacity – 6 litres and 550 watt heater.
- Chamber construction – corrosion resistant stainless steel.
- Hydraulic thermostat for accurate temperature control.
- Seamless chamber for long life and easy clean up.
- Cable cover for retaining heat in the bath and a clip or cutout for suspending thermometer.
- Non toxic Teflon coated thermometer (-20°C to 110°C) 1° resolution, 305mm long and 76mm immersion.

Tube racks – Two Nos.

SPECIFICATION FOR VDRL SHAKER (MULTIPURPOSE)

- Variable Speed Control.
- Speed range – 100 – 1200 rpm.
- Horizontally circular motion – 3mm orbit size.
- Shaking, mixing, agitating or vortexing facility should be there.
- Flat platform with non-slip rubber mat.

The platform should have spring loaded retaining bars that will hold flasks, bottles, racks etc. (optional).

SPECIFICATION FOR VORTEX MIXER

- Unit should have circular motion and not elliptical orbit.
- Speed range upto 2000 rpm

Should have optional head attachment for 12mm/13mm diameter tubes.

SPECIFICATION FOR MAGNETIC STIRRER

- Stirring speed 80-1200 rpm
- Stirring volume upto 1000 ml
- Stirring position 1-4
- Dimension 36 x 32 x 5 cm.

Digital temperature control 50 – 500°C

SPECIFICATION FOR ELECTRONIC BALANCE

- Maximum Capacity - Six Kg.
- Minimum display - 0.04 Kg.
- Pan Size - > 345 x 250 mm
- Calibration - Internal
- Hood - Not required
- Pan to be included with weights on installation.

SPECIFICATION FOR TISSUE FLOATATION BATH

- Double walled inside aluminium.
- Ambient temperature 80° C - 25° C.
- Digital Thermostat.
- Dia X Depth 200 x 70 mm.

Should work on 220 V AC

SPECIFICATION FOR SLIDE WARMING – TABLE

- Digital Thermostat.
- Timer with Alarm.
- Temperature required 50 – 80°C Range.
- Fixed Temperature 70° specific 0.1° C sensitivity.

SPECIFICATION FOR SLIDE STORAGE CABINET (SMALL)

- 1000 – desk top model.
- Features – User friendly, easily removable easy indexing and search facility.
- Material – Wood or steel with each slot numbered with locking facility.

Archival – Safe and sturdy with minimal foot prints – less than 2 feet.

SPECIFICATION FOR SLIDE STORAGE CABINET LARGE

- Histopathology slide storage rack.
- No. of Horizontal slots. - Ten.
- No. of Vertical slots - Four
- Dimension of rack unit - Ht 1.5 ft x L 2 ft.
- Easily dismantling options – With wheels.

SPECIFICATION FOR SLIDE STORAGE CABINET (MEDIUM)

- Capacity – More than 20,000 micro slides.
- Features – User friendly, easily removable, easy indexing and search facility.
- Material – Wood or Steel with each slot numbered and with locking facility.

Archival – Safe and sturdy with minimal foot print.

SPECIFICATION FOR CENTRIFUGE (ORDINARY)

- Brush-less Centrifuge for Blood and other body fluids.
- Fixed Rotor slow speed from 400 rpm.
- Speed less than 4000 rpm.
- Digital display , timer with alarm.

Ability to separate cells from fluid in 12minimum No. of tubes, 5ml tubes and 15ml tubes.

SPECIFICATION FOR BLOCK CABINET STEEL

- Paraffin Block Storing Cabinet.
- Steel Make.
- Capacity : More than 20000 cassette with index facility.
- User list with letters of recommendation regarding after sale service.

SPECIFICATION FOR MICRO CENTRIFUGE

- For Pediatric Sample processing.
- Maximum 12000 rcf Minimum 400 rpm.
- Fixed Rotor.
- Adapter for 2 ml tubes.
- IQ OQ PQ Certificate on installation.

Calibration certificate to be provided for first two years.