

## Specifications

SL No	PARTICULARS & SPECIFICATION
01	<p><b><u>PC Based Double Beam UV-Vis. Spectrophotometer</u></b>  Automatic source optimisation, Base line calibration &amp; Cell optimisation  200 – 1100 nm Range  2.0 nm Bandwidth  %T, Abs, Conc. (K factor, Multi standard), Multi component measuring modes  Single Wavelength, Multi Wavelength, Scan (with multi scan facility), Time Scan, Kinetic scan operating modes  Automatic 5 position sample changer  Single Position 50/100 mm Cuvette Holder (Optional)</p> <p><b><u>PC and Printer</u></b>  PC Configuration: i3 Processor, 1TB HDD, 4GB RAM, 18" LCD Monitor, 600 VA UPS, Mouse and Keyboard</p>
02	<p><b><u>Centrifuge</u></b>  <b>Technical Specifications:</b>  * Maximum RCF: 30,130 x g  * Maximum RPM : 17,500 /min  * Acceleration time: 14s  * Deacceleration time : 15s  * Soft ramp : adjustable for rotor acceleration and braking slowly  * Timer : 30 s – continuous  * Noise level - &lt;54 dB (A)  * Power supply: 230 V / 50-60 Hz, Power Consumption : 1050 W  * Dimension (W x D x H) : 33 X 42 X 25 cm  * Weight without rotor - 29Kg  * 5 program keys for easy access to routine programs  * Able to store 50 routine procedures with 5 programmable buttons.  * Able to switch display between rcf and rpm speed setting  * Short Spin Function  * "At Set RPM" function - time count starts after reaching the set rpm</p> <p><b><u>Rotor FA-45-30-11 for 30 X 1.5/2.0 ml with speed 14,000 rpm</u></b>  Rotor F-35-6-30, including rotor lid, for 6 x 15/50 ml Falcon/Conical tubes Max. rpm. 7,830 and Max. rcf. 7,197 x g</p>
03	<p><b><u>Vortex Mixer</u></b>  Useful for accelerated mixing of solutions in test tubes, small flasks or centrifugal tubes etc.. The vibrating speed is regulated by a speed control device. Short stroke motor imparts agitation to the tubes or flasks.  The equipment is workable on 220 V AC 50 HZ single phase.  It is available with and without touch plate</p>





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04	<p><b><u>Bacteriological Incubator</u></b></p> <p>CONSTRUCTION: - Double walled construction with inside Stainless Steel Chamber having 60-70mm glass wool insulation. Door is fitted with heavy chrome plated hinges &amp; spring &amp; roller type latch catch. Provided with adjustable steel wiremesh tray for better air circulation. Available in models of outer construction being M.S. Body duly powder coated. TEMPERATURE RANGE : Ambient to <math>70^{\circ}\text{C} \pm 2^{\circ}\text{C}</math>. Temperature controlled by Digital Temperature Controller. Heating elements are made from high grade (Kanthal ISI) Resistance wire. Heaters are fitted/wound along all sides &amp; bottom. Complete with 2 pilot lamp cord &amp; plug pin etc. To work on 220/230V AC supply. Size: 355 x 355x 355mm (14" x 14" x 14") Capacity: 45 Liters</p>
05	<p><b><u>PCR (thermos Cycler)</u></b></p> <p><b>Specifications:-</b>            Universal Block for 96 x 0.2 ml PCRTube, 71 x 0.5 ml PCR Tube, One 8 x 12 PCR Plate            Heating and Cooling via Peltier Technology. Patented Triple Circuit Technology ensures precise control of temperature.            Temperature Control Range : from <math>4^{\circ}\text{C}</math> to <math>99^{\circ}\text{C}</math>            Temperature Control Mode : Fast, Standard and Safe            Lid Temperature range : <math>37^{\circ}\text{C}</math> to <math>110^{\circ}\text{C}</math>            Block Temperature Accuracy : <math>\pm 0.2^{\circ}\text{C}</math>            Lid temperature Range : <math>37^{\circ}\text{C}</math> to <math>110^{\circ}\text{C}</math>            Block Homogeneity :-            20 <math>^{\circ}\text{C}</math> to 72 <math>^{\circ}\text{C}</math> : <math>&lt; + 0.3^{\circ}\text{C}</math> 95 <math>^{\circ}\text{C}</math> : <math>&lt; + 0.4^{\circ}\text{C}</math>            Temperature control speed approx. <math>3^{\circ}\text{C/s}</math> (heating )            Temperature control speed approx. <math>2^{\circ}\text{C/s}</math> (cooling)            Lid descent and closing pressure - Flexlid technology with Thermal Sample Protection            Intuitive Graphic programming with larger display            Administrator and User login with or without PIN for enhanced security            Booking schedule allows users to reserve the instrument in advance            Time or Temperature increment with cycles in PCR program            Adjustable ramp rate from <math>0.1^{\circ}\text{C}</math> to <math>3.0^{\circ}\text{C}</math> to meet critical amplification conditions            Customized programming allows a maximum of 20 steps and 99 cycles            Auto Restart facility with user defined time interval when power fails and resumes            Instrument status indicates the step, cycles and remaining runtime during the run            Runtime display shows remaining time in larger font for better view from distance            System memory of more than 100 User folders and more than 700 programs            Two USB ports : for protocol transfer, self-test, USB, printer/mouse            Log book function for error messages and new calibration            Email Notification when it is done            Power save Standby function            Connect upto TWO Mastercycler Nexus ECO for ultimate throughput.            Self-test dongle to check functionality of all 6 peltier elements.            Interface : Ethernet, CAN in, CAN out            Dimensions : 25 x 41.2 x 32.1 cm            Weight : 11 Kg; Power Supply : 230V, 50-60 Hz            Power Consumption : 700 W            Calibration according to NIST (USA), DKD/PTB (Germany), UKAS/NPL (UK), UL/CUL listed</p>

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06	<p><b><u>Midi Sub System</u></b></p> <p>Principal Material : Acrylic            Inner tank dimension : 215 x 141 x 55 mm            No. of trays : 130 x 130 mm - 1 No.            130 x 65 mm - 2 Nos.            65 x 60 mm - 4 Nos.</p>





	No. of combs : 13 Well Analytical Acrylic Comb 1.5 mm thick x 1 No. 8 Well Analytical Acrylic Comb 1.5 mm thick x 4 Nos. 3 Well Preparative Acrylic Comb 3 mm thick x 1 No.
	<b><u>Electrophoresis Power Supply</u></b> Digital PS 500: EPS 500 Model; 0-500 V; 0-500 mA; Variable with timer Constant Current; Constant Voltage; Digital display
07	<b><u>Fluorescence Spectrophotometer</u></b> <b><u>Specifications:</u></b> <ul style="list-style-type: none"> <li>• UV/Vis absorption measuring range of 200 nm to 830 nm combined with a fluorescence intensity of 0.5 nM to 2,000 nM fluorescein</li> <li>• Preprogrammed and freely programmable fluorescence methods</li> <li>• Fluorescence intensity across a range of 0.5 nM to 2,000 nM fluorescein</li> <li>• Fluorescence excitation wavelength 470 nm, emission wavelengths 520 nm and 560 nm</li> <li>• Unique combination of UV/Vis and fluorescence measurements in a single device</li> <li>• Spectrophotometer with UV/VIS spectral range 200 nm to 830 nm</li> <li>• System with Freely Selectable wavelengths across the entire spectral range (Increment 1 nm)</li> <li>• Two-wavelength method with subtraction and division evaluation</li> <li>• Xenon Flash lamp with Very long line life</li> <li>• Spectral bandwidth of <math>\leq 4</math> nm</li> <li>• Absorption measuring range 0A-3.0A</li> <li>• Random error absorption of <math>\leq 0.002</math> at A=0; <math>\leq 0.005</math> (0.5%) at A=1</li> <li>• Display of 5.7 inch VGA TFT display</li> <li>• System has CMOS Photodiode array for beam receiver absorption</li> <li>• Light path height of 8 mm</li> <li>• Method memory of 100 programs for quick start</li> <li>• Compatible standard cuvettes of glass or quartz or special plastic cuvette</li> <li>• Integrated application and result memory</li> <li>• Applications with evaluations via factor, standard or standard series</li> <li>• All relevant ratios are automatically determined for a method</li> <li>• System will be supplied with Uvette starter set 80 uvettes to use for low volume</li> </ul>

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08	<b><u>Deep Freezer</u></b> Capacity: 300L Temperature: $-20^{\circ}\text{C}$

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