

19.Engineering Chemistry Lab Equipment

SR No	DESCRIPTION OF EQUIPMENT (TECHNICAL DETAILS)
1	2
1	Digital balance Model:PX224, ,4 Digit
2	Hot air Oven Model: OFA-54-8,
3	Water bath (11L), Brand:Wd-06,500W,
4	Heating Magnetic Stirrer Model: MYP11-2,15W,
5	Analytical Balance Model : ATX-224 Brand : Shimadzu/Japan Max Capacity : 220 g Minimun display : 0.1 mg (4 digit) Pansize (dia) Ø91 mm Power requirement; 12 v, 1 A (AC adapter 220 v, 50/60 Hz) Weight (kg) approx.; 6.2, Main Body dimension: 213 (W)× 356 (D)× 338 (H), Internal Calibration : yes

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1	2
6	<p>Molecular Model Kits</p> <p>Model : ZY-ghm-0902-42</p> <p>Brand : Old Nobby</p> <p>Capacity : 60 g</p> <p>Package Included :</p> <p>Atoms (136)</p> <p>Bonds (157)</p> <p>Disconnecter Tool : 1</p> <p>ABS Box : 1</p> <p>Instruction Guide : 1</p> <p>1. Ball-and-stick models</p> <p>Educational Objective : STEM</p> <p>Weight : 1.54 pounds</p> <p>Dimension : 6.7 x 1.4 x 8.3 inches x W x H</p>

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1	2
7	<p>pH meter</p> <p>Model : Sensodirect 110 (pH 110) (721300)</p> <p>Brand : Lovibond/CoO : Germany</p> <p>Range : 0-14 pH</p> <p>Resolution : 0.01 pH</p> <p>Temperature : Not Necessary Compensation</p> <p>Accuracy : ± 0.07 pH (pH 5-pH 9), ± 0.1 pH (pH 4-pH 10), ± 0.2 pH (pH 1-pH 3.9), ± 0.2 pH (pH 10, 1-pH 13), $23 \pm 5^\circ\text{C}$, after calibration</p> <p>Ambient : $0-50^\circ\text{C}$</p> <p>Conditions : 0-80% rel.humidity, (non condensing)</p> <p>Battery : 9V block</p> <p>Dimensions : 208×110×34 mm (L×W×H)</p>

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1	2
8	<p>Shaking Water Bath</p> <p>Model : LSB-0155</p> <p>Brand : LabTech/CoO : Korea/Indonesia Dimensions Bath : 300×300×240</p> <p>(W×D×H mm) Outer : 534×344×300, Temperature Range : Ambient +5°C to 60°C, Capacity : 22L</p> <p>Set Accuracy : ±0.1°C</p> <p>Uniformly : ±0.5°C</p> <p>Shaking Speed : 20 to 250 stroke/min Stroke : Adjustable 15 to 30 min Heater : 1.4 kW</p> <p>Controller : Digital Ped Controller</p> <p>Display : LED 4 Digit display</p> <p>Timer : 99 hr 59 min/Continouous</p> <p>Compressor : 1/8 HP</p> <p>Material Interior : Stainless Steel (SUS 304)</p>
9	<p>DC Analog Volt Meter</p> <p>Model : Art No: VLT 005</p> <p>Brand : Zhejiang China</p> <p>Measuriing Range: 0~3 V, 0~15V,0~300V</p> <p>Dimension Interior : 10×10×9 (W×D×H)cm</p> <p>OperationTemperature : -25° C ~55 °C</p> <p>Color : red , Green ,Yellow ,Blue , White Measuring Range :</p> <p>AC 20- 500 V</p> <p>Accuracy Range : 2 %,Weight :</p>

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1	2
10	<p>Hot Plate and Stirrer</p> <p>Model : C-MAG HS 7 (9015900) (Package)</p> <p>Brand : IKA, CoO : Germany/Malaysia</p> <p>Starring quantity : 10 ,</p> <p>Speed range : 100=1500 rpm</p> <p>Motor rating input/output : 15W/1.5W</p> <p>Speed display : scale,</p> <p>Heat Output : 1000 W</p> <p>Temperature range : 50°C-500°C</p> <p>Max. Stirring bar length : 80 mm</p> <p>Adjusted safety circuit : 550°C</p> <p>Plate Material : Ceramic,</p> <p>Dimensions :180×180 mm</p> <p>Including ETS-D5 Electronic contact thermometer</p>

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11	<p>Centrifuge</p> <p>Model : SC-8, Brand : Boeco, CoO : Germany, It is supplied with q 8-place angle steel rotor, which accommodates various tube systems as well as 15 mL glass tubes without adapters.</p> <p>The centrifuge is microprocessor controlled A time t/min : 1-99 min. in steps of 1 min,Time t/sec : 1- 59 sec. in steps of 1 sec, A lid locking and holding device, A Emergency lid lock release, A lid closure of metal, A Imbalance switch-off</p> <p>A Flexible moto bearings</p> <p>A deep metal rotor chamber (die-cast-alumimium) to securely accommodate the rotor, A smooth plastic housing, easy to clean, A Metal lid</p> <p>A deep metal rotor chamber</p> <p>Max RPM (Speed)/RCF: 6,000 rpm/3,421 RCF</p>
12	<p>Micropipette with Tip</p> <p>Model : BOE-9911100</p> <p>Volume rng e : 100-1000 μL</p> <p>Adjustable Vergonomic design for comfort in hand grip and light weight. Designed in smooth plunger mechanism offers least resistance for ease of effortless accuracy . Incrument : 5 μL</p>
13	<p>UV 1280 Multipurpose UV-visible spectrophotometer</p> <p>Model : SHIMADZU</p> <p>Wavelength scanning : 190-1100 nm</p>

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SR No	DESCRIPTION OF EQUIPMENT (TECHNICAL DETAILS)
1	2
14	<p>Fumed Hood with Base Cabinet</p> <ul style="list-style-type: none">-Esco- EFH-4A8 <p>Specifications</p> <p>External Dimensions</p> <p>(W x D x H) : 1200 x 873 x 1500 mm (47.2" x 34.4" x 59.0")</p> <p>Internal Work Area, Dimensions</p> <p>(W x D x H)m : 1120 x 682 x 1435 mm (44.1" x 26.9" x 56.5")</p> <p>Exhaust Volume / Static Pressure Required Face Velocity of 0.5m/s</p> <p>(100 fpm) at Full Open Sash</p> <p>1109 cmh at 68 Pa (653 cmf at 0.27" WG)</p> <p>Exhaust Outlet Diameter : 250 mm (10.0")</p> <p>Fluorescent Light Intensity : 791 lux (73.5 Ft-candles)</p>

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1	2
	<p>Construction</p> <ul style="list-style-type: none">- Main Body : Phenolic Resin laminates- Support Frame : EG steel with aluminium and an oven-baked epoxy-polyester powder-coated finish- Interior Baffle System : Esco Resinate™ Phenolic Resin laminates- Airfoil : Stainless steel grade 304 <p>Electrical</p> <ul style="list-style-type: none">- 220-240 VAC, 50/60 Hz, 1Ø- Power Consumption : 25 W (Fluorescent Lighting Only) <p>Controller : Rocker Switches</p>

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1	2
15	<p>Ultrasonic Cleaner</p> <p>Model: LUC-410</p> <p>Capacity : 10 liter</p> <p>Temperature Range : 0 to 50 °C</p> <p>Display : Digital</p> <p>Timer: 0-99 min</p> <p>Dimensions Inner : 500 x 300 x 150 (WxDxH)mm Outer : 720 x 450 x 275 (WxDxH)mm</p> <p>Transducer: Industrial BLT Type</p> <p>Housing : Engineering Plastic</p> <p>Frequency: 40 KHz</p> <p>Net Weight: 9 kg</p> <p>Power Supply: 220V 50/60Hz</p> <p>Daihan Labtech</p> <p>Korea</p>

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SR No	DESCRIPTION OF EQUIPMENT (TECHNICAL DETAILS)
1	2
16	<p>Water Still</p> <p>Model : WS 4000</p> <p>Flow rate : approx 4 l/h</p> <p>Conductivity of distilled water (20°C): approx</p> <p>Heater : 3 KW</p> <p>Cooling water : approx 60 l/h</p> <p>Material: Inner part: Stainless steel</p> <p>Outer part: Stainless steel</p> <p>Dimension: 435x370x220mm (H x W x D)</p> <p>Switch : Main power with pilot lamp</p> <p>Sealing: Silicon gasket</p> <p>Boeco</p> <p>Germany</p>

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SR No	DESCRIPTION OF EQUIPMENT (TECHNICAL DETAILS)
1	2
17	<p>Deionizer</p> <p>Model: DS 450</p> <p>Specification:</p> <p>Flow rate: 50 l/h</p> <p>Capacity at 10° GSG: 425 l</p> <p>Quality: 0,1 – 20 µS/cm</p> <p>Temperature max: 30°C</p> <p>Material Polyethylene</p> <p>Size: 100 x 600 mm (incl. cond. meter)</p> <p>Weight: 3 kg</p> <p>Boeco</p> <p>Germany</p>

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1	2
18	<p>Vortex Mixer</p> <p>Model:Vortex-3</p> <p>Type of movement : orbital</p> <p>Orbital diameter: 4 mm</p> <p>Max. permitted shaking weight (incl. attachment): 0.4 kg</p> <p>Motor rating input : 58 W</p> <p>Motor rating output: 10 W</p> <p>Speed Range : 500-2500 rpm</p> <p>Speed Range : 500-2500 rpm</p> <p>Speed display: scale</p> <p>Timber : none</p> <p>Operating Mode : Contionous/touch operation</p> <p>Dimensions : 127 x149 x 136 mm</p> <p>Weight: 4.5 kg</p> <p>Permissible ambient Temp : 5-40 C</p>

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1	2
19	<p>Hot Plate Stirrer</p> <p>Specifications</p> <p>Top Plate Material: Ceramic</p> <p>Length:14 in.Height (Metric) : 9.7 cm,Height (English): 3.8 in.</p> <p>Width (Metric): 20.8 cm,Width (English): 8.2 in.</p> <p>Shape: Square Max. Container Size: 4L, Voltage: 230V</p> <p>Electrical Requirements</p> <p>: 230 V 50/60 Hz</p> <p>Size: 7.25 x 7.25 in.</p> <p>Temperature (Metric)</p> <p>: Ambient to 540°C</p> <p>Frequency: 50/60 Hz</p> <p>Length (Metric): 36 cm</p> <p>Type: Hot Plate Stirrer, Stirrer</p>

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SR No	DESCRIPTION OF EQUIPMENT (TECHNICAL DETAILS)
1	2
20	<p>Homogenizer (Digital Model)</p> <p>Model number : SH-HZD-SetA</p> <p>Specifications:</p> <p>Speed Range: 2,000 to 27,000rpm (without load)Maximum volume: (H2O): 2,500ml, Motor Rating (Input/Output): 400/300W</p> <p>Speed Control: Stepless</p> <p>Display: 3 Digit FND,Safety Devices: Over Heat Protector,Permissible Temp.& Humidity : 5°C-40°C, <80%</p> <p>Usable Dispersing Tool: Ø 8mm Stator “SH-HZ1008”, Ø10mm Stator “SH-HZ1010”,Ø18mm Stator “SH-HZ1018”, Ø25mm, Stator “SH-HZ1025”</p> <p>Material: ABS & Aluminium Stainless Steel (#304)- Tool,Extension Arm Size (ØxL): 12.7x250mm / 0.5x9.84”</p> <p>Power Consumption: 400W</p>

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1	2
21	<p>BOD Sensor and BOD Analysis</p> <p>Catalog Number :S10230136</p> <p>Brand :VELP Scientifica</p> <p>Specifications</p> <p>Power: BOD Sensor System:6 2 W</p> <p>Power Supply: BOD Sensor System 6 115 V Or230 V / 50–60 Hz</p> <p>Dimensions (WxHxD):BOD Sensor System 6270x300x185 mm (10.6x11.8x7.3 in)</p> <p>Weight:BOD Sensor System 6 2,3 Kg (5.1lb)</p> <p>PERFORMANE</p> <p>Reading value: mg/l (ppm) directly on the display;Measurement by electronic pressure probe Bottle total capacity: 500 ml, Stored data: BOD values:5 BODvalues at 24h intervals directly on the display at anytime also after the</p> <p>Scales: 90, 250, 600, 999 ppm BOD. Higher values after dilution,Display: digits 3 LED</p> <p>Safety class: 3 IEC 1010 Electronic protection degree CEI EN 60529:IP 54</p> <p>BOD Sensor System 6 2 W</p>

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22	<p>COD Meter and Thermoreactor for COD Analysis (complete set)</p> <p>Model : pHotoFlex® STD + CR 2200,</p> <p>Brand : WTW, Country of origin : Germany,</p> <p>Parameter: COD, Al, NH₃, NH₄⁺, As, Cd, Ca, CO₂, Cl, ClO₂, CrO₄⁻, Cu, CN⁻, F⁻, Au, Fe, Pb, Mg, Mn, Mb, Ni, NO₃⁻, NO₂⁻, Ozone, Phenol, PO₄³⁻, K, Silicate, Ag, Na, Sulfate, Total Nitrogen, Hardness, Zn, Coloration; Photometer; Photometric Measurement : Transmission (%T), Absorption, Concentration; Optics : power saving LED + optical Filters: 436, 517, 557, 594, 610, 690 nm, 0.005 Abs reproduceability, < 2 nm wavelength accuracy; Batteries : 4 AA for approx. 3000measurements,Certificates:CE/ETLus/cETL,Thermoreactor, Cuvette shafts :12 cuvette shafts for round cuvettes,Reaction time setting : 20 min, 30 min, 60 min, 120 min (via fixed 148 °C, 150 °C via fixed programs, Control precision : ± 1 °C ± 1 Digit,Temperature stability : ± 0.5 K</p> <p>Energy supply : 230 VAC 50 Hz ± 15 %</p> <p>Reagents: Low Range: 0-150 mg/L COD, Medium Range: 0-1500 mg/L COD, Ammonia,Cadmium, Chlorine, Copper, Fluoride, Iron, Sulfate, Zinc,</p> <p>10 reagents</p>

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23	<p>Water distillation unit (Automatic Water Still)</p> <p>Model No:LWD-3004</p> <p>Dimension(WxDxHmm) : 680x340x530</p> <p>Capacity :4 L/hour,Cooling water : Approx.30-50L</p> <p>Material Interior: Stainless Steel Boiler</p> <p>Stainless Steel Storage tank,Exterior: Powder Coating Steel</p> <p>Case,Reseroir : 8L SUS Storage Tank</p> <p>Operation:Fully Automatic Operation</p> <p>Safety :Over Temp Protector</p> <p>Electric Supply: 220V 50/60Hz Manufacturer : LabTech</p>
24	<p>Fume Hood</p> <p>Daihan Labtech; Korea/ Indonesia</p> <p>Dimension Inner : 1050 W x 650 D x 1050 H mm</p> <p>Outer : 1200 W x 840 D x 2410 H mm,Flexible Duct : Dia 200,Air</p> <p>Volume (Approx.) : 1300 CMH (+/- 10%)</p> <p>Controller :Air velocity and monitoring ,automatic air velocity control,Low air velocity visual & audible alarm, Clock and time, auto stop for door excess open</p> <p>Face Air Velocity : 0.5 m/sec ,Noise Level : 56- 60 dBAManufacturer : LabTech</p>

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1	2
25	<p>Ultrasonic cleaner (Sonicator)</p> <p>Specification;</p> <p>Capacity : 10 liters ,Temperature Range : 0 to 50 °C Display : Digital ,Timer: 0-99 min,Dimensions Inner : 300 x 240 x 150 (WxDxH)mm,Outer : 510 x 375 x 275 (WxDxH)mm,Transducer: Industrial BLT Type housing : Engineering Plastic,Frequency: 40 KHz Net Weight: 9 kg,Power Supply: 220V 50/60Hz</p> <p>Manufacturer :LabTech</p>
26	<p>Vortex mixer</p> <p>Specification;</p> <p>Model:# Vortex 4-Basic,Type of movement : orbital</p> <p>Shaker diameter (mm): 4.5,Permissible shaking weight(kg):0.5,Motor rating input(W) :10</p> <p>Speed min(adjustable)rpm : 200,Speed range(rpm) : 0-3000,Speed display : scale,Timer : no</p> <p>Timer display : scale,Touch function : yes</p> <p>Manufacturer:IKA,Country of Origin: Germany</p>

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27	<p>Overhead stirrer</p> <p>Specification;</p> <p>Model No: EUROSTAR 20 Digital</p> <p>Technical Data,Stirring quantity max.(H2O) :15 l</p> <p>Max viscosity : 10.000mpas,Motor rating input/output :56/44W</p> <p>Max.torque at stirring shaft :20Ncm,Display: LED</p> <p>Timer : No,Temperature Measurement : no Manufacturer :IKA</p>
28	<p>Rotary evaporator with vaccum</p> <p>Specification;</p> <p>pumpModel No:RV8 (8033800)</p> <p>Type of condenser :Vertical</p> <p>Motor type: brushless DC motor, Motor input rating 50 W,</p> <p>Speed range 5 to 300 rpm, Speed display: digital</p> <p>Stroke displacement 120mm>manual,Setting of lower end stop: no, Head angle adjustable : 0 to 45°C</p> <p>Pump System: LVP-500 Vacuum pump(LabTech/Korea)</p> <p>Max Vacuum: 650 mmHg,Max Flow rate: 28 l/min</p> <p>Motor power : 1/8 HP,Port Thread: 1/8" NP</p> <p>Manufacturer :IKA</p>
29	Hot ari oven
30	Laboratory water bath
31	Electronic balance

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1	2
32	Balance Model: EB 2003L Bran: KW Made: China Capacity: 200g, Readability: 0.001g
33	Magnetic Stirrer With hot plate, - 800.DG.01, - Glassco
34	U Tube with Carbon - Glassco
35	Pipette - Glassco, ?
35	Crucibles - Glassco
37	Organic Teacher Set
38	Structure of Atom
39	Hot air Oven - DOV53, - :KWF,

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SR No	DESCRIPTION OF EQUIPMENT (TECHNICAL DETAILS)
1	2
40	<p>Variable DC Power Supply - YIHUA</p> <p>Mode :3005D Output Power : 150W</p> <p>Power Supply Voltage : 220V \pm10% 50Hz or 110V \pm10% 60Hz</p> <p>Adjust Range : 0~30.00V 0~5.0000A</p> <p>Operation Conditions: Temperature 0~40°C Relative humidity<80%</p> <p>Overall Dimensions : L268×W125×H155mm\pm5mm</p> <p>Weight : 2.3kg Output Voltage accuracy : \pm0.02V Voltage Coefficient : <300PPM/C</p> <p>Ripple noise voltage : <1%Vrms</p> <p>OCP Current Value : 0-5A,Accuracy:\pm0.01A</p> <p>Signal test frequency range :30~1800MHz including cell phone signal test</p> <p>Signal Strength: >10dBm</p>

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1	2
41	<p>Digital Multimeter</p> <p>-YX360TRF</p> <p>- Sanwa</p> <p>DCV 0.1 (20kΩ/V)</p> <p>0.25/2.5/10/50 (20kΩ/V)/250/1000V (9kΩ/V) ±5% of full scale ±3% of full scale</p> <p>DCV (NULL) ±5/25V (40kΩ/V) ±5% of full scale</p> <p>ACV 10/50/250/750 (9kΩ/V) ±4% of full scale</p> <p>DCA 50μ/2.5m/25m/0.25A *1 ±3% of full scale</p> <p>Resistance 2k/20k/200k/2MΩ (x1/x10/x100/x1k)</p> <p>200MΩ (x100k) ±3% of arc ±5% of arc</p> <p>Capacitance 10μF Approximate value</p> <p>dB -10dB~+22dB (for 10VAC) ~+62dB Approximate value</p> <p>Load current (LI) 0-150m/15m/1.5m/150μ/1.5μA Approximate value</p>
42	<p>Joule's Calorimeter – Determine Specific Heat Capacity of a Liquid</p> <p>-PH0452A</p> <p>-Eisco</p>
43	<p>Atwood Machine Kit</p> <p>-PH0320KIT</p> <p>-Eisco</p>

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44	<p>Simple Pendulums on Stand</p> <p>-PH0309</p> <p>-Eisco</p> <p>Heavy metal stand with a meter scale mounted on a vertical rod can hold three pendulums of 5 cm apart with points for suspension of cords.</p>
45	<p>Moment of Force Apparatus</p> <p>-PH0344MF</p> <p>-Eisco</p>

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46	<p>Oven (105L)</p> <p>Model: WON-105,Capacity: 105L,Temperae range, variation & sensor room temperature +5°C - 230°C, variation:±1.2°C at 100°C, ±2.2°C at 150°C, sensor: PT 100, Temperature fluctuation: ±0.5°C at 100°C, ±0.6°C at 150°C ,Heating power: 1.4 kW , Heat-up time : 30 min to 100°C, 45 min to 150°C , Recovery time (door open 30 sec):12 min to 100°C, 10 min to 150°C, Timer & alarm: 99hr 59 min (delay & continuous run), Control resolution: ±0.1°C, Shelves :2 x stainless steel wire shelves included, load per shelf 16 kg ,Ventilation: 1x hole Ø 35 mm ventilation hole with stainless steel cap2x hole Ø 35 mm ventilation hole with stainless steel cap, Internal dimensions (W x D x H) : 485x409x535 mm , External dimension (W x D x H) & net weight: 653x712x882 mm, 79 kg ,Packing size & gross weight 743x819x1068 mm,</p> <p>Power supply : 1 Phase AC 120V, 60 Hz or AC 230V, 50/60 Hz, Power consumption: 1390W,Energy consumption at 100°C/ at 150°C : 187 Wh / 337 Wh, Order number 230V: WON05105,</p>

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47	<p>Balance (3200 g)</p> <p>Model: WBA- 3200, Weighting range, weighting plate: 0.01 - 3200 g, 168 x 168 mm, Read out, reproducibility & linearity: 0.01 g, Permissible temperature: 5.0 - 35°C, Weight modes: % mode/ g / ct / GN / dwt /etc., Counting mode: available counting & weighing mode, Calibration: external calibration, 2 kg calibration weight included, Dimension & weight : 195 x 295 x 90 mm, 2.6 kg,</p> <p>Packaging size: 243 x 377 x 163 x mm, 3.2 kg,</p> <p>Power supply: DC 12V with AC 230V adapter, 50/60 Hz, Order number DH.WBA3200</p>

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48	<p>Water bath (11 L)</p> <p>Model: WB-11 ,Capacity : 11 l , Temperature range & accuracy room temperature: +5°C - 100°C, ±0.1°C, Temperature resolution: 0.1°C–display, 0.1°C–control,</p> <p>Temperature uniformity & probe : ±1.0°C, PT100, Heating power : 1 kW ,</p> <p>Timer & alarm: 99hr 59 min (delay & continuous run), error status & timer end,</p> <p>Effective space :302 x 240 x 110 mm, Internal dimensions (W x D x H) 302 x 240 x 150 mm, External dimensions (W x D x H) : 325 x 265 x 260 mm,</p> <p>Packing size & gross weight: 350 x 300 x 310 mm, 10 kg ,</p> <p>Power supply: 1 Phase AC 120V, 60 Hz or AC 230V, 50/60 Hz</p> <p>Order number 230V: DH.WB000111 ?</p>
49	<p>Benchtop pH meter</p> <p>Range (pH) :0 to 14 Resolution (mV): 0.1mV (±199.1mV);1mV beyond ± 200mV Temperature Compensation: Automatic or Manual (0 to 100 °C)Calibration Points: USA: pH1.68,4.01,7.00, 10.01,12.45, NIST:pH 1.68,4.01,6.86,9.18,12 .45Temperature Range (Metric) 0.0 ° C to 100.0 ° C ,Includes: Meter,Double Junction pH Electrode, Temperature Probe and StandMemory : 100 data sets</p>

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1	2
50	<p>MICROPIPETTE</p> <p>Compatible Tips Flex tips: 10, 200, 1000 Description Kit :</p> <p>Finnpipettes F2 0.2–2µL micro2–20µL, 20–200µL and 100–1000µL (4 micropipette)Color Multiple.For Use With Flex Tips: 10, 200, 1000Model FinnpiPETTE™ F2 Volume (Metric) 0.2 to 1000 µL</p>