

**Department of Geriatric Medicine  
AIIMS**

**Circulator Water Bath**

**Specification:**

1. Working Temperature range (C): -20 to 100.
2. Temperature Stability (C):  $\leq 0.03$
3. Heating Capacity (kw):  $\geq 2$
4. Cooling Capacity (Kw): 0.1 KW at 0 degree C
5. Pump Capacity flow rate (l/min):15
6. Pump Capacity flow pressure (bar):0.35
7. Filling Volume liters: 4.5
8. Easy removable venting grid. Air enters from front and goes out from back with no side venting.
9. Adjustable High Temperature cut OFF/Dry Running Protection.
10. Warranty - 5 years.

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**Ice Machine**

**Specification:**

1. Ice production capacity: 40-50 kgs per 24 hours.
2. Storage bin: 15-20 kg.
3. Ice holding tank should be made up of stainless steel, insulated with PUF so that ice can be stored for longer period without melting.
4. Should have auto cut off in case of water supply failure and maximum ice level.
5. Overflow and drain lines should be provided for continuous draining of water.
6. Noise level:  $\leq 50-60$  Db.
7. Warranty: 1 year

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**UV Transilluminator**

**Specification:**

1. UV Transilluminator with filter (312nm) 20 cm×20 cm.
2. Have wavelength fixed with multi intensity range.
3. No. of tubes should be minimum 6.
4. Detection limit around 0.1 ngm. of stained DNA.
5. Filter area around 20×20 cms.
6. Filter: Quartz UV Filter
7. UV protection shield both vertical covered.
8. Warranty: 1 year

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**Magnetic Stirrer with Digital Hot plate**

**Specification:**

1. Temperature range: Above Ambient to 160°C.
2. Stirring Speed should be around range 100- 1400rpm.
3. Heating coil: Strip Heater
4. Temperature Controller: Digital.
5. Construction: Steel body.
6. Stirring capacity around 2 litres.
7. Warranty: 1 yr

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**Vacuum Pump**

**Specification:**

- 1.** Pump should be a portable AC powered source of vacuum to 585 mm/23" Hg (at mean sea level) or pressure to 4 bar/ 58 psig for filtration of liquids or gases use with all types of filter holders.
- 2.** Should have 3 pronged (grounded) cord and plug. 1/8" BSP inlet and outlet hose connectors.
- 3.** Internal pump head surfaces are Teflon coated and leaf valves are of High-grade stainless steel.
- 5.** Warranty: 1 year

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**Hot Air Oven**

**Specification:**

1. Should be double walled /powder coated with glass wool insulation between two walls. Inner wall should be made up of stainless steel.
  
2. Heating elements should have the provision for uniform heating having temperature range around 5°C above ambient to 250 °C.
  
3. Air ventilator should be adjustable fitted on both sides.
  
4. Temp. Should be digitally controlled with an accuracy of + 1 °C or better, fitted with main switch, pilot lamp, temperature controlling knob.
  
5. Warranty: 1year

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**Multichannel Pipette**

1. 8 channel
2. 10-200 micro litres
3. Warranty: 1 year