

## **Chemical wet bench + Sonicator + Hot plate with Magnetic stirrer**

### **13.1. Chemical wet bench/fume hood**

Technical specifications

|            |   |
|------------|---|
| Materials  | POLYPROPYLENE (PP) FUME HOOD.   |
| Dimensions | Built in Sealed PP Worktop Top<br>22mm,12mm,8mm<br>External Size: 4 feet L 2.5feetW7.5feet H  |
| Door       | Transparent Sliding front Door, Auto Bypass Standard,   |
| Storage    | Chemical Storage Base Cabinet   |
| Tube light | LED Tube Light 15watt,  |
| Sink       | Water Sink : Size 200mmX100mm<br>Gas & Water Line on/off Valve,   |
| Electrical | 3Phase Electrical Power 3.7Kw.<br>3phase/Voltage 415v   |
| Others     | PP FRP Exhaust Blower 2HP 1440 RPM<br>Make(Crompton Motor) or equivalent<br>PP FRP Pipe 10" 20Feet dia 4mm thick with<br>Tee& Elbow pipe Holding Clamp, 10" PVC<br>Flexible Pipe<br>Exhaust Air Ducts, ON/OFF PP Dampeners<br>2000 CFM, |
| Frame      | Metal (Preferably)  |

### **13.2 Sonicator**

Technical specifications

|                     |                                 |
|---------------------|---------------------------------|
| Operating Frequency | 33 KHz                          |
| Input voltage range | 170V AC - 270V AC, 50 Hz        |
| Phase               | Single                          |
| Timer Range         | 0-15 minutes                    |
| Capacity            | 6.5 liter                       |
| Dimensions          | (L x B x H) mm, 450 x 200 x 350 |
| Wattage             | 200 W                           |

### **13.3 Hot plate with Magnetic stirrer**

Technical specifications

|                        |   |
|------------------------|---|
| Maximum stirring speed | 1500 RPM  |
| Heating Capacity       | 600 W   |
| Hotplate Size          | 175 mm dia  |
| Supply                 | 220/240V,50Hz, A.C                                |
| Hotplate               | Should be chemically resistant to acid and alkali |
| Top Plate Material     | Stainless steel                                   |
| Load capacity (Water)  | 800 ml  |

|                 |      |
|-----------------|------|
| Stir bar length | 25mm |
|-----------------|------|

**General Terms & Conditions**

- The vendor should have supplied a system of a similar or a higher specification to Indian institutes like IITs, etc. or, to a reputed foreign institute in the last 5 years. The vendor should provide the contact details of the user of such a system. The vendor should provide proof of installation and maintenance of such systems. Proof can be provided as reference letters from the users of the systems.

Installation and integration :

- Electrical, plumbing, gas and all aspects must be done by vendor.
- Warranty : Min 1 Year