These products are made with an excellent heat-resistant, anti-corrosive aluminum casting body with a high quality powder coating.

The ceramic coated and stainless steel top plate provides excellent chemical resistance, especially against strong acids or bases.

Unlike traditional hotplate/magnetic stirrers, these units have a high precision speed control system. (from 60 to 1500rpm) with a continuously smooth revolution pattern.

The technically advanced PCB board eliminates an electrical overload and regulates energy distribution. The bearing type motor maintains gentle revolution over the lifetime of the equipment.

### 1.3 Product Specifications

<table>
<thead>
<tr>
<th>Type</th>
<th>Magnetic Stirrer</th>
<th>Hotplate</th>
<th>Hotplate &amp; Stirrer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed Range</td>
<td>60 to 1500 rpm</td>
<td>N/A</td>
<td>60 to 1500 rpm</td>
</tr>
<tr>
<td>Temperature Range</td>
<td>N/A</td>
<td>Ambient + 5 degrees C to 380 degrees C</td>
<td></td>
</tr>
<tr>
<td>Controller</td>
<td>Ceramic Coated Stainless Steel Top Plate</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Material</td>
<td>Plate</td>
<td>Overall</td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>190 x 190 mm</td>
<td>205(W) x 260(D) x 110(H) mm</td>
<td></td>
</tr>
<tr>
<td>Power Consumption</td>
<td>Max. 500 watt, 3.0 amp</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Electric Supply</td>
<td>220V, 50/60 Hz</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### 1.3.1. Control Panel

- **1 Temperature Controller**
  - ON/OFF and Temperature Control
- **2 Heater Lamp**
  - Red light illuminates when heater is on
- **3 Speed Controller**
  - ON/OFF and revolution speed control
- **4 Stir Lamp**
  - Green light illuminates when motor is on

### 1.4. Operation

**Before Operation**

1) **Place Hotplate/Stirrer on flat and level surface.**

2) **Plug unit into power outlet.** The voltage must correspond to the voltage listed on the product name-plate

### 1.5. Warning

1. Use a properly grounded electrical outlet with the proper voltage and current handling capacity as specified on the name-plate.
2. Disconnect from power supply before servicing or cleaning.
3. Always place the Hotplate Stirrer on a flat and level surface.
4. Do not touch the top plate of the instrument during operation. The hotplate will remain hot without visual indication for some time after you have turned the power off.
5. Do not use in the presence of flammable or combustible materials; fire or explosion may result. This device contains components which may ignite such materials.
6. Replace the top plate immediately if damaged by scratching or chipping. A damaged top plate can shatter during use.
7. Do not use metal foil, metal containers, sand baths or other insulating material on the hot plate – This can cause damage to the top plate and shock hazard can exist.
8. Do not remove or modify the grounded power plug. Use only properly grounded outlets to avoid shock hazard. The instrument is not rated for use in hazardous atmospheres.
9. Use caution when heating volatile samples; top surface and element can reach the “Flash Point Temperature” of many chemicals. These hot plates are not explosion proof. Fire or explosion may result. Unit contains components which may ignite such materials.
10. Use appropriate hand and eye protection when handling hazardous chemicals.
11. Refer servicing of this instrument to qualified personnel.

### 1.6. Trouble Shooting

| Not heating | Check power Supply Cord |
| Or Not stirring | Plug firmly into socket |
| Check Fuse | Replace Fuse |