BASIC FUNCTION: The autoclave uses saturated steam as sterilizing medium. First stage is a steam pulsation vacuum method to effectively remove all air from the chamber. After sterilizing, it slowly exhausts to gradually reach atmospheric pressure. Various cycles are available with different sterilizing times and temperatures.

APPLICATION: Our lab series autoclaves are equipped to complete mainly “Liquid Cycles” at various temperatures.

DOOR CONFIGURATIONS:

<table>
<thead>
<tr>
<th>Type of Door</th>
<th>Single Door</th>
<th>Pass Trough System</th>
</tr>
</thead>
<tbody>
<tr>
<td>Automatic Sliding Door</td>
<td>JSD Series</td>
<td>JDSD Series</td>
</tr>
</tbody>
</table>

Autoclave Stress Corrosion Cracking induced by Chlorides, (ASCC)

Autoclave stress corrosion cracking induced by chlorides frequently causes problems in applications where standard austenitic stainless steels are being used. This problem can be solved by the use of duplex stainless steels. Medi-Clave is proud to be a leader in this field introducing the all new Duplex Stainless Steel autoclave chamber intended for use where high levels of chlorides are present as found in certain laboratories and coastal conditions. The duplex stainless steel autoclave chamber drastically improves life expectancy and eliminates stress corrosion cracking commonly found in high heat and high chloride conditions, Medi-Clave can be contacted regarding any related enquiries.

ACCESSORIES:
All autoclaves are PLC controlled, fully automatic and can be equipped with flush mounted cycle printers.
All autoclaves can be equipped with Internal Steam Generators.
All autoclaves sized 600lts and above are equipped with a carriage and trolley set.
All autoclaves equipped with soft touch screens with a clear two line LCD display.
All autoclaves are equipped with emergency stop buttons.
All autoclaves are manufactured with accordance to the South African SABS 982-1990 standard specifications for high-pressure high-vacuum steam sterilizers.
All autoclaves have a five year pressure vessel integrity warranty.
All autoclaves can be equipped with high quality solenoid or pneumatic valves.
All autoclaves are equipped with rapid drawing vacuum-pumps.
All autoclaves are equipped with the most sophisticated water saving technics available.
All pass through autoclaves can be fitted with a SPF seal to prevent bacteriological migration.
In category III laboratories an effluent retention system would also be necessary.

Labatory Vacuum Sterilizer (Sliding Door or Mechanical Door Series)

<table>
<thead>
<tr>
<th>SPECIFICATION</th>
<th>JSD 160</th>
<th>JSD 200</th>
<th>JSD 400</th>
<th>JSD 600</th>
<th>JSD 1200</th>
<th>JSD 2000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inner size (LxWxH)</td>
<td>745x540x600</td>
<td>1340x1250x1800 (Double door)</td>
<td>1280x1250x1800 (Single door)</td>
<td>1300x850x1800 (Single door)</td>
<td>1325x850x1800 (Double door)</td>
<td>1785x1450x1900 (Single door)</td>
</tr>
<tr>
<td>Design Temp (°C)</td>
<td>0.15-0.3</td>
<td>0.4-0.6</td>
<td>0.5-0.8</td>
<td>0.4-0.8</td>
<td>0.4-0.8</td>
<td>0.4-0.8</td>
</tr>
<tr>
<td>Design Pressure (kPa)</td>
<td>0.4-0.6</td>
<td>0.4-0.6</td>
<td>0.4-0.6</td>
<td>0.4-0.6</td>
<td>0.4-0.6</td>
<td>0.4-0.6</td>
</tr>
<tr>
<td>Net Weight (Kg)</td>
<td>40lt</td>
<td>40lt</td>
<td>40lt</td>
<td>40lt</td>
<td>40lt</td>
<td>40lt</td>
</tr>
<tr>
<td>Outer size (LxWxH)</td>
<td>970x460x460</td>
<td>745x460x460</td>
<td>745x460x460</td>
<td>745x460x460</td>
<td>745x460x460</td>
<td>745x460x460</td>
</tr>
<tr>
<td>Design Pressure (kPa)</td>
<td>245</td>
<td>245</td>
<td>245</td>
<td>245</td>
<td>245</td>
<td>245</td>
</tr>
<tr>
<td>Volume (m³)</td>
<td>1100x850x1800 (Double door)</td>
<td>1340x1250x1800 (Double door)</td>
<td>1225x1200x1950 (Double door)</td>
<td>1680x1200x1950 (Single door)</td>
<td>2100x2000x2000 (Double door)</td>
<td>2060x2000x2000 (Single door)</td>
</tr>
<tr>
<td>Design Temp (°C)</td>
<td>0.15-0.3</td>
<td>0.5-0.6</td>
<td>0.5-0.6</td>
<td>0.5-0.8</td>
<td>0.5-0.8</td>
<td>0.5-0.8</td>
</tr>
<tr>
<td>Design Pressure (kPa)</td>
<td>0.4-0.8</td>
<td>0.4-0.8</td>
<td>0.4-0.8</td>
<td>0.4-0.8</td>
<td>0.4-0.8</td>
<td>0.4-0.8</td>
</tr>
<tr>
<td>Power (Kw)</td>
<td>3Kw/72Kw</td>
<td>3Kw/72Kw</td>
<td>3Kw/72Kw</td>
<td>3Kw/72Kw</td>
<td>3Kw/72Kw</td>
<td>3Kw/72Kw</td>
</tr>
<tr>
<td>Water (Lt)</td>
<td>60lt</td>
<td>60lt</td>
<td>60lt</td>
<td>60lt</td>
<td>60lt</td>
<td>60lt</td>
</tr>
<tr>
<td>Steam (Kg)</td>
<td>3/18</td>
<td>3/18</td>
<td>3/18</td>
<td>3/18</td>
<td>3/18</td>
<td>3/18</td>
</tr>
<tr>
<td>Design Temp (°C)</td>
<td>141</td>
<td>141</td>
<td>141</td>
<td>141</td>
<td>141</td>
<td>141</td>
</tr>
<tr>
<td>Design Pressure (kPa)</td>
<td>915x660x660</td>
<td>915x660x660</td>
<td>915x660x660</td>
<td>915x660x660</td>
<td>915x660x660</td>
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