ESS-250TP
Lift door steam sterilizer

Application

The ESS-250TP large pressure steam sterilizer with motor-drive doors series is suitable for the sterilization in the CSSD, the pharmaceutical factory, laboratory, hospitals etc. It can sterilize the high temperature resistant, high pressure and high humidity resistant articles, such as the packed, the unpacked, the class A vacuum, the class B hollow and the instruments with internal piping.

Technological superiority

• The main controller uses the programmable controller OMRON, it is accurate, stable and reliable.
• The HMI uses the true color touch screen of 65000-color TFT, it has the powerful function and intensive color. It can display the running state and the parameters of the equipment in real time, and the curve report form.
• Software menu program, one-click touch operation, the design of all kinds of operations are friendly and intuitive. It can display each running process dynamically in full color and in real time.
• The unique real-time feedback module based on the theory of fuzzy control is implemented to ensure the accuracy of the process control. It can ensure the temperature band, the temperature fluctuation, and the uniformity of the temperature of the equipment.
• The unique maintenance information prompt function is designed to remind the users of maintaining the equipment, including cleaning the sealing ring, wiping the main body, inspecting the filter regularly and so on.
• Sealed door, Electric lift, Structure of pneumatic seal, Simple operation, safe and reliable.
• It has the function of fault information prompt, and the fault self-diagnosis.
• It can match a protective system of three-level user permission. It is convenient for the customer to manage the equipment.
• The USB storage system can be selected, and the operation of the device can be stored in the USB storage device in real time 20000 circles.
• The central monitoring system can be selected to realize remote operation of equipment.
• The sterilizer adopts high quality solenoid valve, so the performance is more stable, and the service life is long.

The device for the safety protection

• The sterilizing chamber jacketed mechanical pressure relief valve
• The protective function for the sterilizing chamber if the over-pressure occurs.
• The sterilizing tank has the function of over-temperature.
• The temperature sensor has the function of fault self-detection.
• The pressure sensor has the function of fault self-detection.
• The protective device for the door motor overloads.
• The protective device for the vacuum pump overloads.
• The function of doors safety protection.
• The detective device for the phase sequence of the power grid.
• The sealing device when the door is closed.
• The under pressure detection device for the compressed gas.
• The function of double doors interlocking.
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The main technical parameters

- Design pressure: 0.4MPa
- Design temperature: 150°C
- The maximum working pressure: 0.23MPa
- Selection of sterilization temperature: 105°C ~ 138°C
- Optional requirements for the water sources: Softening Water with Pressure of 0.15-0.3 Mpa
- The source compressed air: 0.50MPa~0.70MPa, clean Instrument gas oil free, water and dust removal.
- The materials of the cavities and the jackets: SS304 stainless steel as standard.

Additional features information.

- All autoclave models have the same programs function: Unwrapped Instruments, Packed Instruments, Dressing Package, Rubber Items, PRIONS, Vacuum, B & D and Drying (this program is only for the machines which is bigger than 180L). 99 Customs programs available
- PRIONS program available to all autoclave models.
- Air compressor as optional
- Built-in vacuum pump
- The thermal printer is built-in
- Stop closing door in case of emergency or if there is an obstacle included
- Optional the Softener
  Softener 100L recommended for autoclaves up to 250 liters
  Softener 500L recommended for autoclaves from 360 liters
- Autoclave up to 180L have trolley Shell and Basket included.
- Autoclave of 360L have the trolley included.
- Further, the double door version is indicated by a D.

<table>
<thead>
<tr>
<th>Description</th>
<th>Volume</th>
<th>Chamber dimension (LxWxH)</th>
<th>Outer dimension (LxWxH)</th>
<th>Net weight</th>
<th>Dynamical power (AC380V/50Hz/KW)</th>
<th>Max steam consumption (Kg/Cycle)</th>
<th>Max water consumption (Kg/Cycle)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESS-250TP-120</td>
<td>120L Single Door</td>
<td>750x400x400mm</td>
<td>1085x870x1730mm</td>
<td>505 Kg</td>
<td>12.75</td>
<td>11</td>
<td>150</td>
</tr>
<tr>
<td>ESS-250TP-180</td>
<td>180L Single Door</td>
<td>722x500x500mm</td>
<td>1085x970x1830mm</td>
<td>567 Kg</td>
<td>12.75</td>
<td>12</td>
<td>150</td>
</tr>
<tr>
<td></td>
<td>180L Double Door</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>ESS-250TP-250</td>
<td>250L Single Door</td>
<td>670x600x600mm</td>
<td>960x1255x1900mm</td>
<td>750 Kg</td>
<td>23</td>
<td>18</td>
<td>200</td>
</tr>
<tr>
<td></td>
<td>250L Double Door</td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>ESS-250TP-360</td>
<td>360L Single Door</td>
<td>1200x550x550 mm</td>
<td>1505x1175x1900mm</td>
<td>1120 Kg</td>
<td>23</td>
<td>22</td>
<td>200</td>
</tr>
<tr>
<td></td>
<td>360L Double Door</td>
<td></td>
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<td></td>
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</tr>
<tr>
<td>ESS-250TP-450</td>
<td>450L Single Door</td>
<td>1000x672x672 mm</td>
<td>1505x1116x2120mm</td>
<td>1250 Kg</td>
<td>25</td>
<td>22</td>
<td>200</td>
</tr>
<tr>
<td></td>
<td>450L Double Door</td>
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</tr>
</tbody>
</table>

At the end of the autoclave model code, the double door version, is indicated with a D.
## Features

<table>
<thead>
<tr>
<th>Programs</th>
<th>8 pre-installed programs: Unwrapped Instruments, Packed Instruments, Dressing Package, Rubber Items, PRIONS, Vacuum, B &amp; D and Drying (this program is only for the machines which is bigger than 180L). 99 Customs programs available.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vacuum pump</td>
<td>Built-in vacuum pump</td>
</tr>
<tr>
<td>Air compressor</td>
<td>Optional available</td>
</tr>
<tr>
<td>Printer</td>
<td>Integrated, built-in thermal printers</td>
</tr>
<tr>
<td>USB data storage door</td>
<td>Integrated</td>
</tr>
<tr>
<td>USB key for Txt report</td>
<td>Included, can record 20000 circles</td>
</tr>
<tr>
<td>Water Softener</td>
<td>Optional available</td>
</tr>
<tr>
<td>100 Liters</td>
<td>It is recommended for autoclaves up to 240 liters</td>
</tr>
<tr>
<td>500 Liters</td>
<td>It is recommended for autoclaves from 360 liters</td>
</tr>
<tr>
<td>Standard Material</td>
<td>Stainless steel 304 for chamber and main parts components which require high corrosion resistance. 316 stainless steel available on request.</td>
</tr>
<tr>
<td>Safety Closing Door</td>
<td>Integrated Stop Closing Door in case of emergency or if there is an obstacle.</td>
</tr>
</tbody>
</table>