SSA series
Silent Booster Pump

60HZ
110 / 220 V
The SSA series is an All-in-One self-priming silent booster pump, the compact design combined pressure tank, pressure switch, flow switch and full protection controller, moreover, the evolutional flow channel and peripheral impeller design provide highly performance, by using this booster pump there is no more pump frequently On/Off, unstable water pressure and noise problems.

### Model code

<table>
<thead>
<tr>
<th>SSA</th>
<th>200</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hot water version</td>
<td>Power (Watt)</td>
<td>Series name</td>
</tr>
</tbody>
</table>

### Applications

- Water pressure boosting
- Water transferring
- Water circulating

### Motor

- Motor Type: 2 Pole, totally enclosed fan-cooled
- Frequency: 60Hz
- Standard Voltages: 1Ø 110 / 220 V
- Insulation Class: F class (155°C / 311°F)
- Enclosure Protection Class: IP 54
- Nominal Speed: 3450 RPM

### Operation Conditions

- Liquid Temperature: 2°C - 40°C
  
  2°C - 90°C (H Type)
- Ambient Temperature: 0°C - 40°C
- Max System Pressure: SSA200/300/400 5kg/cm²  
  SSA600/800 7kg/cm²

### Features

- Easy set-up, installation, and maintenance
- The most silent operation in class
- No more noise issue from pump short cycling
- Best-in-class performance in the market
- Higher efficiency for lower electricity bill
- Robust construction for better reliability
- Max. 8M self-priming suction lift
- All-in-one compact design which integrates motor, pump, pressure tank, flow switch, pressure switch, and controller to provide the most stable water pressure
- Anti-block system every 24 hours to prevent mechanical seal or impeller stick together
- Controller wrote in dry-run protecting function to prevent pump or pipe damage (dry run without water over 2 minutes, the pump will automatically rest for 15 minutes and restart again, if above cycling happen accumulate 10 times, the rest time will become 90 minutes and restart afterward
- LED light signals to indicate 4 different operating statuses
  - Red light: Stand by
  - Green light: Pump on
  - Red flash: Over heat
  - Green flash: No water
- Double thermal protection
  - Pump-disconnect at 55°C, connect at 40°C
  - Motor-disconnect at 135 ± 5°C, connect at 86 ± 15°C

### Materials

- Motor Frame: Aluminum
- Pump Casing: Cast Iron
- Shaft: SUS400 Series
- Impeller: Brass
- Mechanical Seal:
  - Ceramic + Carbon + NBR (Standard Version)
  - Ceramic + Carbon + Viton (Hot water Version)
### Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Phase</th>
<th>Voltage</th>
<th>Power</th>
<th>Head</th>
<th>Flow</th>
<th>Ampere</th>
<th>Inlet/Outlet</th>
<th>Weight</th>
<th>Units/Pallet</th>
<th>Pallet dimension</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSA-200</td>
<td>1Ø</td>
<td>110/220</td>
<td>0.25</td>
<td>200W</td>
<td>12.5</td>
<td>26</td>
<td>24/43</td>
<td>2.4/1.2</td>
<td>10</td>
<td>110 x 110 x 192</td>
</tr>
<tr>
<td>SSA-300</td>
<td>1Ø</td>
<td>110/220</td>
<td>0.35</td>
<td>300W</td>
<td>13.5</td>
<td>31</td>
<td>30/51</td>
<td>2.8/1.4</td>
<td>10.5</td>
<td>110 x 110 x 192</td>
</tr>
<tr>
<td>SSA-400</td>
<td>1Ø</td>
<td>110/220</td>
<td>0.5</td>
<td>400W</td>
<td>14.5</td>
<td>36</td>
<td>35/57</td>
<td>3.4/1.7</td>
<td>11</td>
<td>110 x 110 x 195</td>
</tr>
<tr>
<td>SSA-600</td>
<td>1Ø</td>
<td>110/220</td>
<td>0.75</td>
<td>600W</td>
<td>15.5</td>
<td>40</td>
<td>45/70</td>
<td>6.2/3.1</td>
<td>13</td>
<td>110 x 110 x 195</td>
</tr>
<tr>
<td>SSA-800</td>
<td>1Ø</td>
<td>110/220</td>
<td>1</td>
<td>800W</td>
<td>17.0</td>
<td>45</td>
<td>54/80</td>
<td>7.6/3.8</td>
<td>14.5</td>
<td>110 x 110 x 195</td>
</tr>
</tbody>
</table>

- **Models with “H” are hot water types.**
<table>
<thead>
<tr>
<th>No.</th>
<th>Component</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Pump</td>
<td>FC200</td>
</tr>
<tr>
<td>02</td>
<td>Motor stool</td>
<td>FC200</td>
</tr>
<tr>
<td>03</td>
<td>Motor</td>
<td>ADC12</td>
</tr>
<tr>
<td>04</td>
<td>Shaft</td>
<td>stainless steel 400 series</td>
</tr>
<tr>
<td>05</td>
<td>Mechanical seal</td>
<td>Ceramic + Carbon + NBR (Standard)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ceramic + Carbon + Viton (Hot water)</td>
</tr>
<tr>
<td>06</td>
<td>Impeller</td>
<td>brass</td>
</tr>
<tr>
<td>07</td>
<td>Flow switch plus check valve</td>
<td>Nylon + POM</td>
</tr>
<tr>
<td>08</td>
<td>Pressure switch</td>
<td>Nylon</td>
</tr>
<tr>
<td>09</td>
<td>Pressure tank</td>
<td>SP CC</td>
</tr>
<tr>
<td>10</td>
<td>Motor fan</td>
<td>PP</td>
</tr>
<tr>
<td>11</td>
<td>Fan cover</td>
<td>PP</td>
</tr>
<tr>
<td>12</td>
<td>Pump base</td>
<td>ABS</td>
</tr>
<tr>
<td>13</td>
<td>Wiring box</td>
<td>ABS</td>
</tr>
<tr>
<td>14</td>
<td>Filling plug</td>
<td>Nylon</td>
</tr>
<tr>
<td>15</td>
<td>Flange</td>
<td>FC200</td>
</tr>
<tr>
<td>16</td>
<td>Flange gasket</td>
<td>NBR</td>
</tr>
</tbody>
</table>
### Key Components Description

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Patented wind-collecting type centrifugal fan design provides great heat dissipation for motor and reduces wind noise</td>
</tr>
<tr>
<td>B</td>
<td>Patented intelligent pump controller highly integrates flow switch, pressure switch, and provides useful functions like dry-run protection, anti-block and delayed shutdown, (within 5 seconds) which help to achieve smoother operation, more comfortable water shower and longer product life. (The 110/220V, 60HZ dual-voltage version, there is a voltage switch mounted on Control Board for different voltage application)</td>
</tr>
<tr>
<td>C</td>
<td>Motor auto reset thermal protection for longer motor life</td>
</tr>
<tr>
<td>D</td>
<td>High rust resistant durable baked epoxy coating finish</td>
</tr>
<tr>
<td>E</td>
<td>Patented precise pressure switch design provides stable water pressure. The cut-in pressure setting can be slightly adjusted by hand</td>
</tr>
<tr>
<td>F</td>
<td>Patented balanced flow switch design provides stable water flow</td>
</tr>
<tr>
<td>G</td>
<td>Inlet screen design prevents debris from getting into pump casing</td>
</tr>
<tr>
<td>H</td>
<td>Special impeller and flow channel design highly increase pump performance and self-priming ability under ultra-silent operation</td>
</tr>
<tr>
<td>I</td>
<td>Pump casing auto reset thermal protection to prevent dry running</td>
</tr>
<tr>
<td>J</td>
<td>Double stainless steel bushing design prevents impeller lock and wear</td>
</tr>
</tbody>
</table>