**HOT & COLD WATER CIRCULATORS**

**Model Numbers:** SC20-25, SB25-20, SB30-25, SS30-25, SXM32-45

**PRODUCT DESCRIPTION**

Circulation of hot or cold water in heating, air-conditioning or cooling systems.

**APPLICATIONS**

For domestic and commercial installations such as:
- For houses, motels and small apartment buildings
- Solar heating circuits
- The water runs hot as soon as the tap is opened

**FEATURES & BENEFITS**

- In-line pump casing with threaded ports for easy installation and direct mounting on pipe work.
- Barrel unions with threaded ports for easy installation & service.
- Rotating parts in contact with pumped liquid, made of corrosion resistant materials, to provide maintenance free and long service life.
- Stainless steel impeller neck ring for long life & maintenance free operation.
- Three speed with manual selector switch, adaptable to suit installations.
- Wet rotor bearings lubricated by pumped liquid providing quiet, vibration free operation.
- Rotor chamber protected from impurities by sintered bronze filter.
- Manual bleed when started up.
- Reliable, maintenance free operation.
- High capacity built-in capacitor for high starting torque.
- Direct connection via unions to pipe work from 3/4” to 1 1/4”.
- Low electrical consumption.
- Integrated & automatic motor overload protection.

**OPERATING LIMITS**

- Capacities up to 165 lpm
- Heads up to 70 kPa
- Maximum working pressure 1000 kpa
- Temperature -20° to +120°C
- Maximum ambient temperature +40°C
- Port ND 20 to 32mm
- Speed See Table
- Power supply 1 x 230V
- Frequency 50Hz
- Insulation class F (155°C)
- Protection IP44
- Conforming to EN 60335-2-51

**DEPEND ON DAVEY**

**WATER PRODUCTS**

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**TECHNICAL SPECIFICATIONS**

**MATERIALS OF CONSTRUCTION**

<table>
<thead>
<tr>
<th>PART</th>
<th>MATERIAL</th>
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<tbody>
<tr>
<td>Pump casing</td>
<td>Cast iron (SC &amp; SXM)</td>
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<tr>
<td></td>
<td>Bronze (SB)</td>
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<tr>
<td></td>
<td>Stainless steel (SS)</td>
</tr>
<tr>
<td>Impeller</td>
<td>Composite material</td>
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<tr>
<td>Shaft-motor can</td>
<td>Stainless steel</td>
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<tr>
<td>Bearings</td>
<td>Graphite</td>
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<tr>
<td>Seals</td>
<td>Ethyl.-propylene</td>
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<tr>
<td>Rotor-shaft</td>
<td>Ceramic</td>
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</table>

**INSTALLATIONS**

Cast iron models are designed for faster circulation of hot or cold water in a closed loop heating or air-conditioning system.

Bronze or stainless steel models are designed for faster circulation in a hot or cold water open or closed loop system.

Examples include secondary hot water distribution, air-conditioning, heating or cooling systems.

Note: Davey hot water circulators are not suitable for use in swimming pool or spa applications.

**DESIGN - INTERIOR OF CIRCULATOR**

*For SXM32-45 refer dimensions*
**TECHNICAL SPECIFICATIONS**

**HYDRAULIC PERFORMANCE**

**INSTALLATION POSITIONS**

Motor axis must always be horizontal

* For chilled water installations.
Note position of capacitor cover.
### TECHNICAL SPECIFICATIONS

#### ELECTRICAL DATA & DIMENSIONS

**SC WITH CAST IRON CASING**

![Diagram of SC with Cast Iron Casing]

<table>
<thead>
<tr>
<th>Model</th>
<th>Speed Selector Setting</th>
<th>Speed (rpm)</th>
<th>Max. P. (W)</th>
<th>Max Current (A)</th>
<th>Capacitance (mF)</th>
<th>H (mm)</th>
<th>L (mm)</th>
<th>P (mm)</th>
<th>P1 (mm)</th>
<th>L1 (mm)</th>
<th>h (mm)</th>
<th>h1 (mm)</th>
<th>mass (kg)</th>
<th>dia G</th>
<th>Union Connection BSPP (F)</th>
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<td>132</td>
<td>93</td>
<td>77</td>
<td>98</td>
<td>90</td>
<td>90</td>
<td>2.6</td>
<td>2&quot;</td>
<td>* 25mm / 1”</td>
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* Unions & gaskets supplied

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**SB WITH BRONZE CASING**

![Diagram of SB with Bronze Casing]

**SXM WITH CAST IRON CASING**

![Diagram of SXM with Cast Iron Casing]

**SS WITH STAINLESS STEEL CASING**

![Diagram of SS with Stainless Steel Casing]