Overview

Micro centrifugal pumps powered by brushless DC motors. They are designed to be cool, quiet, compact and lightweight products. A variety of features, including a seal-less design to prevent leakage forever, wide range of working voltage, stable performance, long life time, enable the pumps to meet a full spectrum of user’s needs, with emphasis on easy of installation, operation and maintenance.

Features

- Advanced magnetic driving technology for static-seal, without any leakage forever
- The pump can continuous working 24 hours, long lifetime about 20,000 hours
- Endurance graphite bearing, high precision, low noise and durable
- 100℃ high temperature resistance
- Wide operate voltage range available
- Submersible, RPM, PWM and power by solar panel can be customized

Typical Applications

Auto Pump
- automation equipment
- auto cooling system
- electric motorcycle

Solar Pump
- water circulation for solar system
- solar applications
- solar water heater

Food Grade Pump
- drinking machine
- beverage/water dispenser
- coffee machine

Mechanical equipment and chemical industry
- environmental protection equipment
- medical equipment
- sewage purifier
- fuel cell
- irrigation

Home Appliance
- electric storage water heater
- instant water heater
- air source water heater
- linked to boiler
- PC water cooling system
- sanitary product
- washing machine
- air condition
- the fountain
- air purifier
- chiller
- residental humidifier
- aroma disffuser
A3

Typical Applications

- water dispenser/water coolers
- coffee maker/coffee machine
- beverage dispenser/juice machine
- water purifier
- tea maker
- milk dispenser
- the fountain

Specification

<table>
<thead>
<tr>
<th>Model</th>
<th>Product Code</th>
<th>Max Flow Rate (L/Min)</th>
<th>Voltage Scope (DC)</th>
<th>Current (A)</th>
<th>Max Water Head (M)</th>
<th>Power (W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A3</td>
<td>A3-A12-0302</td>
<td>2.75L</td>
<td>12VDC</td>
<td>0.4</td>
<td>1.5</td>
<td>5</td>
</tr>
</tbody>
</table>

Note: 1. pump itself meet IF, food grade
2. normal type liquid ≤70°C; IH high temperature type liquid ≤105°C can be customized as: 0302/H
3. /S submersible type can be customized, if submersible liquid should be ≤50°C
4. /FG(RPM) signal wire can be customized.

Curve & Dimension

A3 PERFORMANCE

FLOW RATE (L/MIN)

WATER HEAD (M)
B3

Typical Applications

- coffee maker/coffee machine
- water purifier/water dispenser
- beverage dispenser/juice machine
- water coolers
- milk dispenser
- tea maker

Specification

<table>
<thead>
<tr>
<th>Model</th>
<th>Product Code</th>
<th>Max Flow Rate (L/M)</th>
<th>Rated Voltage (DC)</th>
<th>Current (A)</th>
<th>Max Water Head (M)</th>
<th>Power (W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B3</td>
<td>B3-A12-0602</td>
<td>6.5L</td>
<td>12VDC</td>
<td>0.4</td>
<td>2.5</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>B3-A24-0602</td>
<td>6.5L</td>
<td>24VDC</td>
<td>0.2</td>
<td>2.5</td>
<td>5</td>
</tr>
</tbody>
</table>

Note: 1. pump itself meet /F, food grade 2. normal type liquid \( \leq 70^\circ C \), /H high temperature type liquid \( \leq 105^\circ C \) can be customized as: 0602/H 3. /S submersible type can be customized, if submersible liquid should be \( \leq 50^\circ C \) 4. /FG(RPM) signal wire can be customized.

Curve & Dimension

B3 PERFORMANCE

FLOW RATE (L/MIN)

WATER HEAD (M)

Home for all your micro-DC pump needs!
**B9**

**Typical Applications**
- water heating mattress
- home circulating systems
- computer cooling circulation
- liquid transfer
- general purpose pumping

**Specification**

<table>
<thead>
<tr>
<th>Model</th>
<th>Product Code</th>
<th>Max Flow Rate (L/Min)</th>
<th>Voltage Scope (DC)</th>
<th>Current (A)</th>
<th>Max Water Head (M)</th>
<th>Power (W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B9</td>
<td>B9-A12-0601</td>
<td>6L</td>
<td>12VDC</td>
<td>0.25</td>
<td>1.2</td>
<td>3</td>
</tr>
</tbody>
</table>

Ultra quiet suspension rotor ≤ 28dB

Note:
1. Liquid ≤ 70°C
2. FG(RPM) single wire can be customized

**Curve & Dimension**

![B9 PERFORMANCE](image)

- Water Head (M)
- Flow Rate (L/Min)

Dimensions:
- Diameter: 49 mm
- Height: 65.09 mm
- Length: 69 mm
- Width: 47.6 mm

*Home for all your micro-DC pump needs!*
### Typical Applications

- water dispenser, water cooler
- carbonation, coffee maker,
- beverage dispenser
- air-conditioner drain
- chillers, cooling circulation,
- home appliance
- solar applications
- instant water heater

### Specification

<table>
<thead>
<tr>
<th>Model</th>
<th>Product Code</th>
<th>Max Flow Rate (L/M)</th>
<th>Rated Voltage (DC)</th>
<th>Current (A)</th>
<th>Max Water Head (M)</th>
<th>Power (W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>B10-A</td>
<td>B10-A12-0703</td>
<td>7L</td>
<td>12VDC</td>
<td>0.6</td>
<td>3</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>B10-A12-0905</td>
<td>9L</td>
<td>12VDC</td>
<td>1.4</td>
<td>5</td>
<td>16.8</td>
</tr>
<tr>
<td></td>
<td>B10-A24-0703</td>
<td>7L</td>
<td>24VDC</td>
<td>0.4</td>
<td>3</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>B10-A24-0905</td>
<td>9L</td>
<td>24VDC</td>
<td>0.6</td>
<td>5</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>B10-A24-1208</td>
<td>12L</td>
<td>24VDC</td>
<td>1.3</td>
<td>8</td>
<td>31.2</td>
</tr>
<tr>
<td>B10-B</td>
<td>B10-B12-0703</td>
<td>7L</td>
<td>12VDC</td>
<td>0.6</td>
<td>3</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>B10-B12-0905</td>
<td>9L</td>
<td>12VDC</td>
<td>1.4</td>
<td>5</td>
<td>16.8</td>
</tr>
<tr>
<td></td>
<td>B10-B24-0703</td>
<td>7L</td>
<td>24VDC</td>
<td>0.4</td>
<td>3</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>B10-B24-0905</td>
<td>9L</td>
<td>24VDC</td>
<td>0.6</td>
<td>5</td>
<td>15</td>
</tr>
<tr>
<td></td>
<td>B10-B24-1208</td>
<td>12L</td>
<td>24VDC</td>
<td>1.3</td>
<td>8</td>
<td>31.2</td>
</tr>
</tbody>
</table>

**Note:**

1. pump itself meet: /F, food grade
2. normal type liquid ≤70°C, /H high temperature type liquid ≤105°C can be customized for items of 0703/H, 0905/H.
3. /S submersible type can be customized, if submersible liquid should be ≤50°C
4. /PV type by solar panel driven directly can be customized as: 12V (suit for solar panel 7V~24V), 24V (suit for solar panel 14V~32V).
5. FG(RPM) signal wire can be customized
6. PWM frequency speed control or 0~5V speed control can be customized.
Typical Applications

- instant water heater, air can heater, constant temperature gas heater
- water dispenser, food pump, carbonation, beverage dispenser
- water cooling circulation, chillers
- boosting applications
- solar applications

Specification

<table>
<thead>
<tr>
<th>Model</th>
<th>Product Code</th>
<th>Max Water Flow (L/Min)</th>
<th>Rated Voltage(DC)</th>
<th>Rated Current (A)</th>
<th>Max Water Head (M)</th>
<th>Rated Power (W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1-A</td>
<td>C1-A12-1706</td>
<td>17L</td>
<td>12VDC</td>
<td>2.2</td>
<td>6</td>
<td>26.4</td>
</tr>
<tr>
<td></td>
<td>C1-A12-2008</td>
<td>20L</td>
<td>12VDC</td>
<td>2.8</td>
<td>8</td>
<td>34</td>
</tr>
<tr>
<td></td>
<td>C1-A24-1908</td>
<td>19L</td>
<td>24VDC</td>
<td>1.5</td>
<td>8</td>
<td>36</td>
</tr>
<tr>
<td></td>
<td>C1-A24-2411</td>
<td>24L</td>
<td>24VDC</td>
<td>2</td>
<td>11</td>
<td>48</td>
</tr>
<tr>
<td>C1-B</td>
<td>C1-B12-1606</td>
<td>16L</td>
<td>12VDC</td>
<td>2.2</td>
<td>6</td>
<td>26.4</td>
</tr>
<tr>
<td></td>
<td>C1-B12-1908</td>
<td>19L</td>
<td>12VDC</td>
<td>2.8</td>
<td>8</td>
<td>34</td>
</tr>
<tr>
<td></td>
<td>C1-B24-1808</td>
<td>18L</td>
<td>24VDC</td>
<td>1.5</td>
<td>8</td>
<td>36</td>
</tr>
<tr>
<td></td>
<td>C1-B24-2211</td>
<td>22L</td>
<td>24VDC</td>
<td>2</td>
<td>11</td>
<td>48</td>
</tr>
<tr>
<td>C1-C</td>
<td>C1-C12-1706</td>
<td>17L</td>
<td>12VDC</td>
<td>2.2</td>
<td>6</td>
<td>26.4</td>
</tr>
<tr>
<td></td>
<td>C1-C12-2008</td>
<td>20L</td>
<td>12VDC</td>
<td>2.8</td>
<td>8</td>
<td>34</td>
</tr>
<tr>
<td></td>
<td>C1-C24-1908</td>
<td>19L</td>
<td>24VDC</td>
<td>1.5</td>
<td>8</td>
<td>36</td>
</tr>
<tr>
<td></td>
<td>C1-C24-2411</td>
<td>24L</td>
<td>24VDC</td>
<td>2</td>
<td>11</td>
<td>48</td>
</tr>
</tbody>
</table>

Note: 1. pump itself meet: /F, food grade  2. normal type liquid ≤70°C, /H high temperature type liquid ≤105°C can be customized for items of 12V:1706/H, 1606/H & 24V:1908/H, 1808/H. 3. /S submersible type can be customized, if submersible liquid should be ≤50°C 4. /PV type by solar panel driven directly can be customized as: 12V (suit for solar panel 7V~24V), 24V (suit for solar panel 14V~32V). 5. FG(RPM) signal wire can be customized 6. PWM frequency speed control or 0~5V speed control can be customized.
More Specializing Brushless DC Circulation Pump Series

TD-A

TD-B

High Efficiency Ultra Quiet 26dB Computer Circulation Pump

S5

D5

Solar Hot Water Circulation Pump

A5

A6

Car / Truck / Bus / Yacht Circulation Pump

Home for all your micro-DC pump needs!