Moog's sealless magnetic pump is designed for pumping deionized water through mainframe computing systems for heat removal. In the designs, Moog integrated the rotor magnetics and the impeller into a single piece to both minimize the size of the pump and eliminate moving seals. This has resulted in pumps that are both physically smaller than existing pumps on the market and inherently cannot leak. These pumps are paving the way for the liquid cooled IT industry.

**Features:**
- Leakproof
- Unique design that eliminates seals
- High efficiency
- Smallest footprint available in power range
- Integral brushless DC drive
- Wet rotor
- Three frame sizes
- 230/240 volt 50/60 Hz, 12 VDC and 48VDC operation. Other input voltages may also be accommodated
- Customizable interface
- Compatible with deionized water
- Hot-swap capability
- MOD bus or other communication options
- Special sensors available:
  - Dry pump sensor
  - Accelerometer
  - Current feedback
  - Temperature feedback

**ADVANTAGES**
- High reliability
- Long life
- Robust, compact construction
- Proven technology
- Sealless
- Leakproof
- Adjustable speed

**APPLICATIONS**
- Data center electronics cooling
- Chemical pumps
- Cryogenics
- Petrochemicals
- Pharmaceuticals and biotech
- Semiconductor manufacturing
## SPECIFICATIONS

### TECHNICAL DATA

<table>
<thead>
<tr>
<th></th>
<th>RM-23</th>
<th>RM-30</th>
<th>RM-44</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Input voltage</strong></td>
<td>12 VDC</td>
<td>48 VDC</td>
<td>230/340 VAC</td>
<td>Customizable per application</td>
</tr>
<tr>
<td><strong>Power</strong></td>
<td>120 watts</td>
<td>480 watts</td>
<td>Based on average AMP draw at provided flow rates</td>
<td></td>
</tr>
<tr>
<td><strong>Variable speed</strong></td>
<td>1050 - 4200 rpm</td>
<td>1070 - 4300 rpm</td>
<td>1070 - 4300 rpm</td>
<td>Based on 25 - 100% safe operating range</td>
</tr>
<tr>
<td><strong>Temperature range</strong></td>
<td>Thermistor controlled</td>
<td>Thermistor controlled</td>
<td>Thermistor controlled</td>
<td>Customizable per application Typically programmed for auto shutoff @ 115 °C</td>
</tr>
<tr>
<td><strong>Certification</strong></td>
<td>CE / UL</td>
<td>CE / UL</td>
<td>CE / UL</td>
<td></td>
</tr>
<tr>
<td><strong>Flow rate range (GPM)</strong></td>
<td>0.5 - 7</td>
<td>5 - 37</td>
<td>10 - 65</td>
<td>Min/max based on safe operating range</td>
</tr>
<tr>
<td><strong>Pressure range (IN PSI)</strong></td>
<td>10 - 16</td>
<td>12 - 26</td>
<td>35 - 65</td>
<td>Min/max based on safe operating range</td>
</tr>
</tbody>
</table>

### Input/output

|                      | 7/8 inch threaded connections | Typical applications: 1 inch - 11 1/2 NPT external G1-6H BSPP external | Machined for flexible coupling with two O-ring grooves | Customizable per application |

### TYPICAL OUTLINE DRAWING

RM-23 Micro Pump
SPECIFICATIONS

TYPICAL OUTLINE DRAWING

RM-30 Mini Pump

Dimensions in inches [mm]

RM-44 Mega Pump

Dimensions in inches [mm]