Laing Thermotech Series
E10
SMART CIRCULATOR FOR POTABLE WATER APPLICATIONS
The E10 is setting new standards!

E10 is a TRUE Variable Speed ECM Circulator with energy efficient spherical motor technology.

Higher Efficiency and Improved Performance

The E10 is a Smart, User-friendly, TRULY variable speed circulator with stainless steel pump body is ideally suited for use in potable water applications. Designed to be set once and forgotten. The onboard intelligence automatically adjusts speed to ensure maximaized efficiency and accurate performance to suit a wide range of performance requirements.

Standard Modes of Operation

1. **Proportional Pressure** (factory default mode)
   Sensorless control mode that automatically adjusts differential pressure and flow according to the selected proportional pressure curve. This mode is recommended for use in systems with high pressure losses in the system. Identified by blue LED lit behind the adjustment dial.

2. **Constant Pressure**
   Sensorless control mode that automatically maintains a constant differential pressure by varying the flow according to the selected pressure curve. This mode of operation is preferred in systems with relatively small pressure losses in distribution systems. Identified by green LED lit on the adjustment dial.

3. **Constant Speed**
   The pump maintains a fixed speed at any flow demand, based on the curve that is set on the adjustment dial. Identified by the white light lit on the speed adjustable dial.

Auxiliary Modes

1. **Automatic Air Purge**
   Air trapped in the pump housing can be purged using this function.

2. **Standby**
   This helps to keep the power consumption low (<1W) when pump operation is not required.

Application

The E10 stainless pump was designed with a super premium efficiency ECM motor engineered specifically for potable water systems.

Check Valve

An integral check valve is supplied lose with every unit. If a check valve is required for installation, insert the O-ring end of check valve into the discharge port of the pump body and hand press the valve body into place until it snaps in position.
The Perfect Balance of
RELIABILITY • EFFICIENCY • SIMPLICITY

Higher Efficiency & Improved Performance
The motor is provided with precise frequency and voltage for optimum performance. The permanent magnet motor eliminates the need for input power to magnetize the rotor allowing the motor to deliver superior starting torque and energy efficiency compared to standard induction motor circulators.

Simplicity
The only moving part is the rotor/impeller unit. The shaft, shaft seals and conventional bearing bushings have been eliminated. The rotor/impeller has Anti-Block Technology.

The Anti-Block Technology separates main flow of the pumped media completely from the permanent magnetic parts. It is virtually impossible for the E10 to block-up even in an old open system.

Technical Data

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Motor design</td>
<td>Shaft-less spherical motor using permanent magnet technology for improved efficiency</td>
</tr>
<tr>
<td>Maximum System Pressure</td>
<td>150 PSI (10 bar)</td>
</tr>
<tr>
<td>Maximum Fluid Temperature</td>
<td>203°F (110°C)</td>
</tr>
<tr>
<td>Minimum Fluid Temperature</td>
<td>14°F (-10°C)</td>
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<tr>
<td>Electrical Supply</td>
<td>115 Volt, 60 Hertz, 1 Phase</td>
</tr>
<tr>
<td>Suitable for the following liquids</td>
<td>water</td>
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<tr>
<td>Power Consumption</td>
<td>4 - 60 Watts</td>
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<tr>
<td>Protection</td>
<td>IP 44</td>
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<tr>
<td>Insulation Class</td>
<td>F</td>
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</table>
Proportional Pressure (default mode)

Constant Pressure

Constant Speed

Dimensional Drawings

Specifications

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Model</th>
<th>Pump Body</th>
<th>Shipping Weight (lb)</th>
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<tbody>
<tr>
<td>6050G2005</td>
<td>E10</td>
<td>Stainless Steel</td>
<td>7.00</td>
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