Laing Thermotech Series
DC Electronically
Commutated Spherical
Motor Centrifugal Pumps

Applications
Specifically designed for the following uses:
• Electronics Cooling
• Medical
• Water Circulation
• Chiller Systems
• Liquid Transfer
• General Purpose Pumping

Specifications
Pump:
• Max Capacities: 2.3 GPM
• Max Head: 23’
• Pipe Connections:
  1/4” NPT and 3/8” Hose Barb
• Maximum Working Pressure: 21.75 PSI
• Maximum Temperature: 140°F
• Rotation: counter clockwise when viewed from the motor end

Motor:
• Electronically Commutated DC Spherical Motor
• Canned Spherical Motor Type
• 8-12 Volt DC
• Automatic Overload Protection
• Low In-Rush Current

Features
Compact Design:
Unique, low profile space saving design provides easy installation.

Mounting:
Pump is designed to be mounted with discharge horizontally.

Optional Tach:
The tach signal is an open collector type max 20mA, max 24v, 2 pulses per revolution.

Motor Foot:
Intergated plastic mounting feet available.

Construction:
316SS fitted thermoplastic.

Ceramic Bearing Ball and Carbon Bearing Cap:
High density ceramic bearing ball and graphite impeller bearing cap designed for high efficiency and long life.

Impeller:
Highly efficient and dynamically balanced impeller with carbon bearing for smooth ultra quiet operation.

Casing:
Casing is thermoplastic construction.

Mechanical Seal:
Unique patented design has no mechanical seal which is a potential leak path.

Motor:
Highly efficient and ultra quiet spherical ECM motor design. Pump is designed for continuous operation. All ratings are within working limits of the motor.

Electronics:
Embedded microprocessor control is self regulating and available with variable speed with PWM input.

Noise level:
Whisper quiet, less than 40 db.

Weight:
Lightweight construction weighs 7oz.
Laing Thermotech Series
DDC Plastic Specifications

Materials of Construction (Wetted Parts)

<table>
<thead>
<tr>
<th>Part</th>
<th>Materials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump Housing</td>
<td>Polyphenylene Oxide (PPO)</td>
</tr>
<tr>
<td>“O” Ring</td>
<td>EPDM or Viton</td>
</tr>
<tr>
<td>Impeller</td>
<td>Polyphenylene Oxide (PPO)</td>
</tr>
<tr>
<td>Bearing</td>
<td>Carbon/Alumina Ceramic</td>
</tr>
<tr>
<td>All Other Wetted Parts</td>
<td>316 Stainless Steel</td>
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</tbody>
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Xylem Inc.
3878 S. Willow, Suite 104
Fresno, CA 93725
Tel: (559) 265-4730 (800) 554-6853
Fax: (559) 265-4740 (800) 453-7523
www.Laing-thermotech.com

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