Laing Thermotech Series
D5 Plastic
DC Electronically
Commutated Spherical
Motor Centrifugal Pumps

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

Specifications
Pump:
• Max Capacities: 7.5 GPM
• Max Head: 19’
• Pipe Connections:
  ½” x ½” and ¾” x ¾” Barb Connection
  ½” MPT Suction and Discharge
  ½” Barb x ½” MPT
• Maximum Working Pressure: 50 PSI
• Maximum Temperature: 140° F
• Rotation: counter clockwise when viewed from the motor end

Motor:
• Electronically Commutated DC Spherical Motor
• Canned Spherical Motor Type
• 8-24 Volt DC
• Automatic Overload Protection
• Low In-Rush Current

Features
Compact Design:
Close coupled, space saving design provides easy installation.

Mounting:
Pump can be mounted horizontally or vertically with motor end down.

Motor Bracket:
Powder coated steel bracket or integrated thermoplastic bracket on ¾” x ¾” barb only.

Construction:
316SS, thermoplastic, carbon and ceramic for corrosion resistance.

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, open or enclosed, 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 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 dial control (potentiometer) on the pump or as an optional PWM input for OEM.

Noise level:
Whisper quiet, less than 40 db.

Weight:
Lightweight construction weighs less than 1lb.
Laing Thermotech Series
D5 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>&quot;O&quot; Ring</td>
<td>EPDM or Viton</td>
</tr>
<tr>
<td>Impeller</td>
<td>Polyphenylene Oxide (PPO)</td>
</tr>
<tr>
<td>Bearing</td>
<td>Carbon/Aluminum Ceramic</td>
</tr>
<tr>
<td>All Other Wetted Parts</td>
<td>316 Stainless Steel</td>
</tr>
</tbody>
</table>

D5 Series Pump Curves - Plastic

1/2" Barb and 1/2" MPT Connection (Vario)

![Graph 1](image1.png)

1/2" Barb Connection (Vario)

![Graph 2](image2.png)

3/4" Barb and 1/2" MPT Connection (Strong)

![Graph 3](image3.png)

1/2" Barb Connection (Strong)

![Graph 4](image4.png)