



Engineered for life

## Laing Thermotech E1 and E3 Brass Spec Sheet



### AC Electronically Commutated Spherical Motor Centrifugal Pumps

#### Applications

Specifically designed for the following uses:

- Hot Water Circulation
- Fan Coil Heating
- Solar Heating
- Radiant Heating Systems

#### Specifications

##### Pump:

- Max Capacities: 6 GPM
- Max Head: 11'
- Pipe Connections:  
1/2" FPT and 1/2" Sweat Suction and Discharge
- Maximum Working Pressure: 145 PSI
- Maximum Temperature: 203° F
- Rotation: counter clockwise when viewed from the motor end

##### Motor:

- Canned Spherical Motor Type
- World Voltage 100-240 Volt 50/60 Hz Cycle
- 12-28 Watts
- 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.

#### Construction:

Wetted parts are brass, 316SS, thermoplastic, carbon and ceramic for superior 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 and dynamically balanced with carbon bearing for smooth ultra quiet operation.

#### Casing:

Casing is lead free brass 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 with PWM input or dial control (potentiometer) on the pump.

#### Noise level:

Whisper quiet, less than 40 db.

#### Weight:

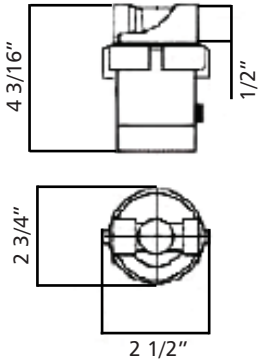
Lightweight construction weighs less than 3lbs.

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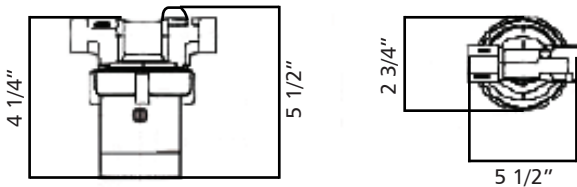
### Materials of Construction (Wetted Parts)

Part	Materials
Pump Housing	Brass
"O" Ring	EPDM or Viton
Impeller	Polyphenylene Oxide (PPO)
Bearing	Carbon/Allumina Ceramic
All Other Wetted Parts	316 Stainless Steel

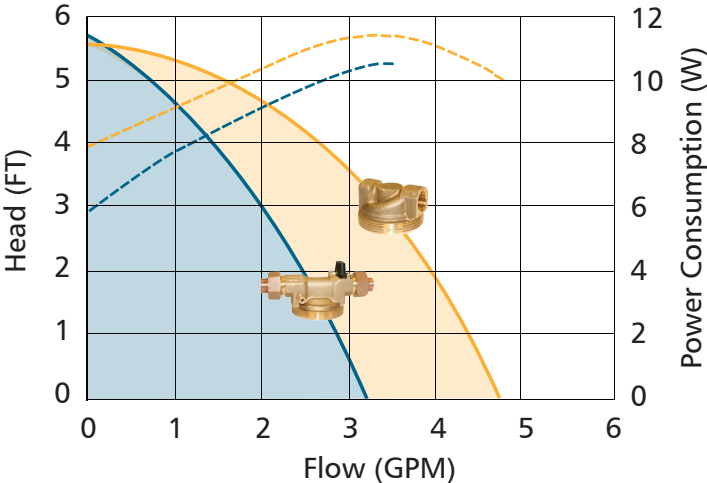
Threaded and Sweat Housing



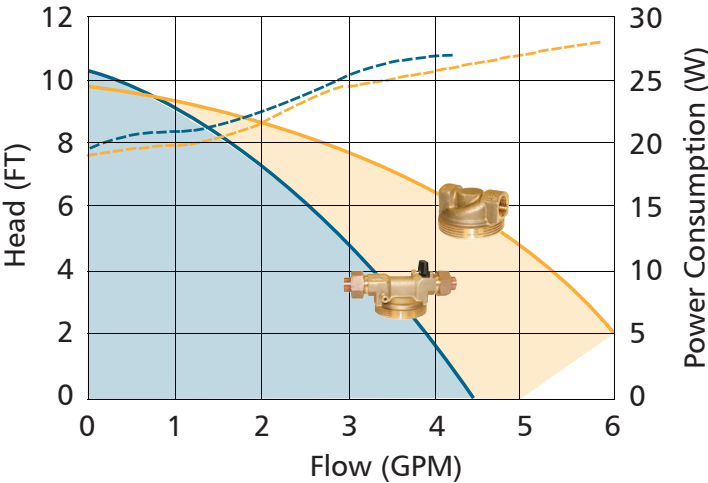
Ultracirc Housing



E1 Pump Curves



E3 Pump Curves



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