

## Laing Thermotech Series ACT-4 AC Electronically Commutated Spherical Motor Centrifugal Pump Kit



**Application:**

**Specifically designed for hot water recirculation in a residential or light commercial building.**

**Specifications:**

**Pump:**

- Max Capacity: 2.5 GPM
- Max Head: 5.5 ft.
- Pipe Connections: 3/4" M / F NPT
- Maximum Working Pressure: 145 PSI
- Maximum Temperature: 203°F

**Motor:**

- Canned Spherical Motor
- Voltage 115 Volt 50/60 HZ
- Power 20 Watts
- Automatic Overload Protection
- Low In-Rush Current

**Valve:**

- Pipe Connections: 1/2" MNPT x 3/8" compression
- Maximum Working Pressure: 145 PSI
- Maximum Temperature: 203°F
- Two AA Alkaline Batteries
- Maximum Transmitter Range: 150 ft.

**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 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 thus eliminating 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 2 lbs.

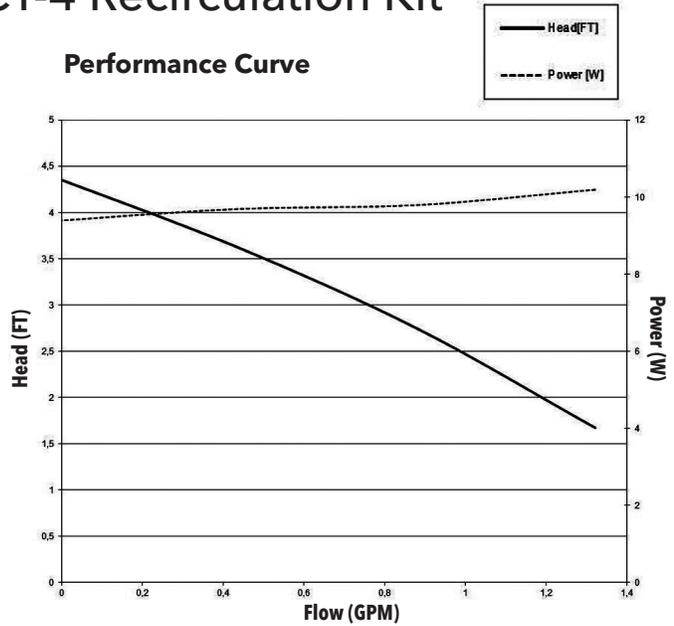
# Laing Thermotech Series - ACT-4 Recirculation Kit

## Materials of Construction (Wetted Parts)

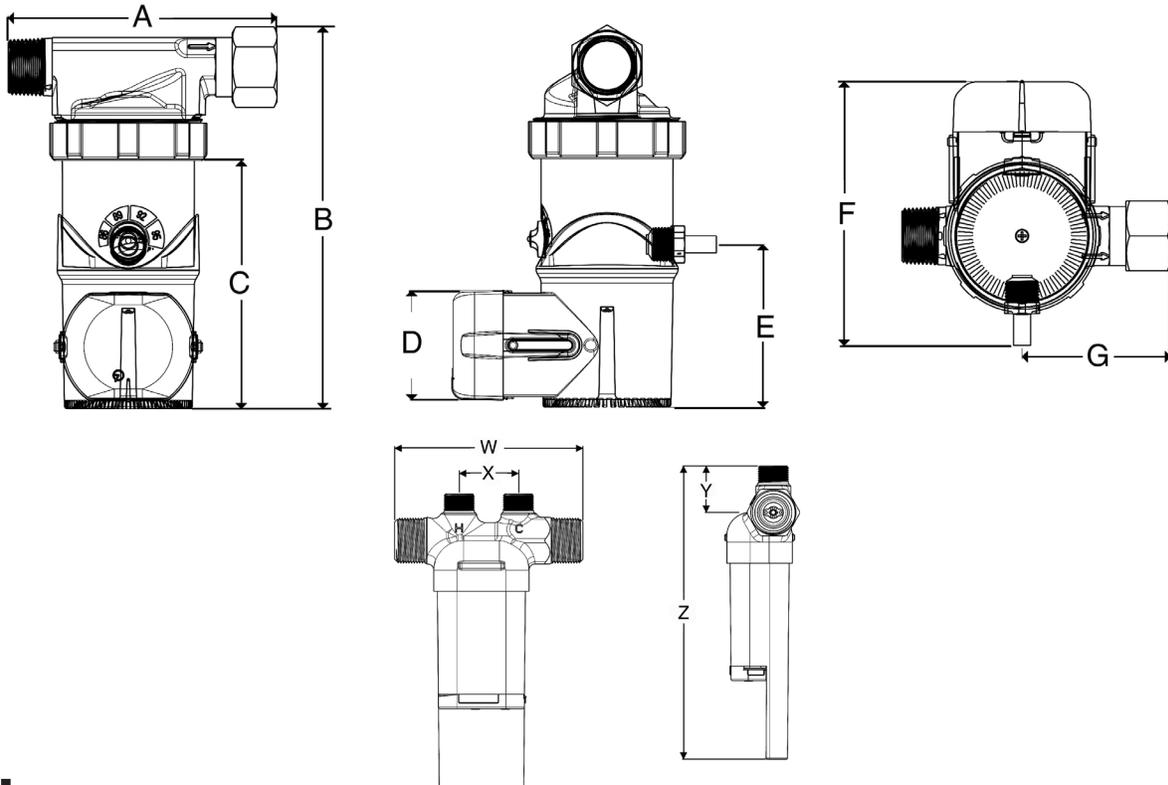
Part	Materials
Housing	Brass
"O" Ring	EPDM or Viton
Impeller	Polyphenylene Oxide (PPO)
Bearing	Carbon/Aluminum Ceramic
All Other Wetted Parts	316 Stainless Steel

Model Number	Part Number	Connection
ACT-4 kit	6050E4050	Pump: 3/4" M/F NPT Valve: 1/2" MNPT x 3/8" compression
push button/ signal repeater	6099E1550	Standard 115V Power Outlet

## Performance Curve



Dimension Inches (mm)											Shipping WT. LBS. (kg)
A	B	C	D	E	F	G	W	X	Y	Z	
4.84 (123)	6.87 (174.6)	4.47 (113.5)	1.97 (50.1)	2.93 (74.4)	4.74 (120.5)	2.68 (68)	3.5 (89)	1.1 (28)	0.87 (22)	5.45 (138.5)	3.9 (1.8)



**xylem**  
Let's Solve Water

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