

## Series E14

### AC Electronically Commutated Spherical Motor Centrifugal Pumps



#### Applications

Specifically designed for the following uses:

- Water Circulation
- Liquid Transfer
- Ozone Treatment
- Saltwater and Freshwater Aquarium Circulation
- General Purpose Pumping

#### Specifications

##### Pump

- Max Capacities: 36 GPM
- Max Head: 10.5'
- Union Connections:  
1½" Buttress Threads Suction and Discharge
- Maximum Working Pressure: 50 PSI
- Maximum Temperature: 140° F
- Rotation: counter clockwise when viewed from the motor end

##### Motor

- Electronically Commutated AC/DC/AC Spherical Motor
- Canned Spherical Type Motor
- 230 Volt 0.45 Amps 110 Watts 50/60 Hz, 2100RPM
- Automatic Overload Protection
- Low In-Rush Current
- Dry Run Protection

#### 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

Thermoplastic motor bracket is adjustable to 4 different discharge angles.

##### Construction

Available in 316SS fitted thermoplastic or Titanium 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, clog resistant open impeller is dynamically balanced with carbon bearing for smooth ultra quiet operation.

##### Casing

Casing is Volute type thermoplastic construction.

##### Mechanical Seal

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

##### Motor

High efficient spherical motor design, ultra quiet, ultra efficient. Pump is designed for continuous operation. All ratings are within working limits of the motor.

##### Electronics

Embedded microprocessor control is self protected against dry run conditions. Available with variable speed with PWM input or dial control (potentiometer) on the pump.

##### Noise level

Whisper quiet, less than 50 db.

##### Weight

Lightweight construction weighs less than 4lbs.

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Materials of Construction (Wetted Parts)

Part	Materials
Pump Housing	Nylon/PPO
"O" Ring	EPDM or Viton
Impeller	Nylon/PPO
Bearing	Carbon/Allumina Ceramic
All Other Wetted Parts	316 Stainless Steel or Plastic

