

# E Series

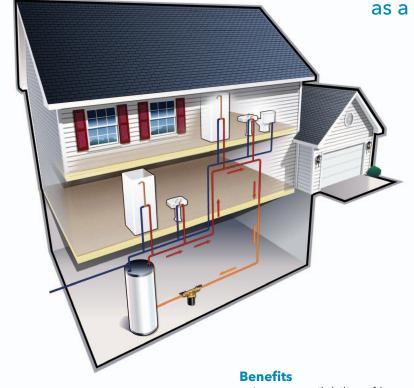
DOMESTIC HOT WATER PUMPS

The energy-saving, shaft-free, high-performance, domestic hot water pump.

# E Series

Domestic hot water pumps

The first pump to run off of 10 watts - about the same as a night light!



#### **Features**

- Easy installation
- Programmable timer and built-in thermostat available to further reduce energy consumption.
- Available with integrated check and ball valves for quick isolation during service.
- Instant availability of hot water, even at the tap farthest from the hot water heater.
- Conserves natural resources reduced power consumption, CO<sub>2</sub> emissions and wasted water.

# **Energy Efficient Due to ECM Technology**

The E Series pumps' highly efficient ECM (Electronically Commutated Motor) design results in significant energy savings with improved performance. Through microprocessor technology the motor is provided the precise frequency and voltage for optimum performance. A permanent magnet motor eliminates the requirement for input power to magnetize the rotor, thus maximizing efficiency. This unique design offers superior starting torque when compared with standard induction motor type pumps.

#### The spherical motor design:

The only moving part of this pump type is a spherical rotor/impeller unit which is suspended on an extremely wear resistant ceramic ball. Shaft seals or conventional bearing bushings with a shaft have been eliminated. The only self realigning bearing in the small pump market has many advantages:

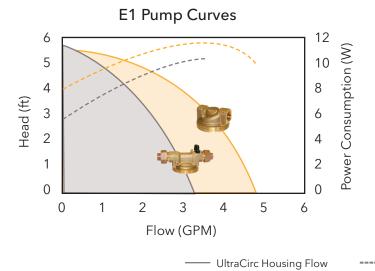
 The suspension on a ball eliminates any bearing play, even after years of use.

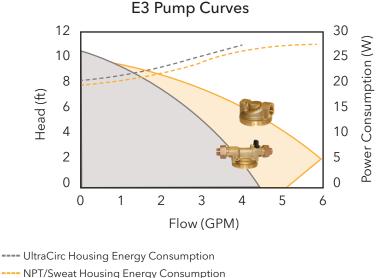
- The bearing is self-realigning. It is automatically lubricated and cooled by the system fluid.
- The rotor is magnetically centered on the bearing and therefore can tilt to avoid blockage by small dirt particles. Even after a long time of shut-off, a safe start-up is virtually guaranteed.
- The pump can be cleaned easily with typical household cleaners in the unlikely case of scale deposits. Integrated step-less scale protection thermostats are optional.

#### **Adjustable Thermostat Option**

For models with the adjustable thermostat, there is an adjustable Set Point range from  $68^{\circ}F$  to  $158^{\circ}F$  ( $20^{\circ}C$  to  $70^{\circ}C$ ). This built-in temperature sensor will turn the circulator off when it reaches the Set Point and turn the circulator on when the temperature is more than  $10^{\circ}F$  ( $6^{\circ}C$ ) below the Set Point. The adjustable thermostat is only available on fixed-speed motors.

# **E Series pump curves**





- Saves 68% electricity compared to a standard circulating pump
- Highly efficient ECM technology
- Long lasting, silent operation
- Resistant to scale build up
- No shaft, no seal

- Maintenance free without blockage
- Single bearing design

#### Vario

A standard feature that allows for stepless speed control to enable you to set the pump performance to individual system requirements.

NPT/Sweat Housing Flow



# E1/E3 Series - Timer

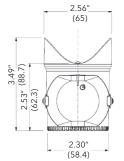
#### **Description**

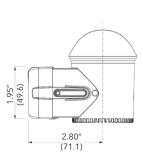
To increase the overall efficiency of a domestic hot water recirculating system and to reduce water wasted while waiting for hot water, the E1/E3 Series Timer can be installed on all E1/E3 Series pumps. The timer is easily installed by removing the motor end cap, plugging in the timer and setting the timer schedule without any wiring. The timer can be used in 3-different selections: ON, OFF and TIMER. The ON selection operates the pump continuously, the OFF selection turns the pump OFF and the TIMER selection (depicted by a clock on the timer) turns the pump on when programmed.

#### **Operational Limits**

Power Supply: Internally powered by the E Series circulating pump. Minimum Switch Interval: 30 minutes.

Run Modes: ON (Continuous), OFF (Off at all times) and TIMER (run at programmed intervals)







#### **Available Models**

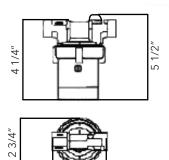
Part Number	Model	Material	Connection		Adjustable	Adjustable	Dive
			Size	Туре	Speed	Thermostat	Plug
LHB08100080	E1-BCSVNN106	Lead-Free Brass	1/2″	Sweat	•		
LHB08100081	E1-BCSVNN1W-06	Lead-Free Brass	1/2"	Sweat	•		•
LHB08100083	E1-BCSNRN1W-06	Lead-Free Brass	1/2"	Sweat		•	•
LHB08100084	E1-BCTVNN106	Lead-Free Brass	1/2"	Thread	•		
LHB08100085	E1-BCTVNN1W-06	Lead-Free Brass	1/2"	Thread	•		•
LHB08100086	E1-BCTNRN1W-06	Lead-Free Brass	1/2"	Thread		•	•
6050U5014	E1-BCUVNN1W-06	Lead-Free Brass	1/2"	Union	•		•
6050U5013	E1-BCUNRN1W-06	Lead-Free Brass	1/2"	Union		•	•
LHB08100094	E3-BCSVNN1W-11	Lead-Free Brass	1/2"	Sweat	•		•
LHB08100095	E3-BCTVNN1W-11	Lead-Free Brass	1/2"	Thread	•		•
LHB08100096	E3-BCUVNN1W-11	Lead-Free Brass	1/2"	Union	•		•
LHB08260001	Plug-In Timer for E1/E3						

### **Available Bronze Housing**

UCT with Ball Valve & Check Valve



UltraCirc Pump Housing (Union with Ball Valve & Check Valve)



5 1/2"

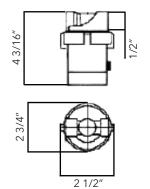
1/2" Threaded



1/2" Sweat



Standard Pump Housing (Sweat & Threaded)





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