

Job:	Representative:	
Unit Tag:	Order No.	Date:
Engineer:	Submitted by:	Date:
Contractor:	Approved by:	Date:



## Lead Free\*, Energy Efficient Autocirc® Circulators for Standard Water Heaters



Autocirc® circulators are energy efficient using permanent magnet, ECM (electronically commutated motor) technology. The autocirc circulators are designed specifically for standard water heaters. These circulators are lead free and are assembled with a timer, cord and plug.

Pump Body: Lead Free\* Brass  
 O-Ring: EPDM  
 Bearing: Carbon/Ceramic  
 Impeller: Nylon/PPO  
 Motor: High Efficiency ECM  
 All Other Wetted Parts: Type 316 Stainless Steel, Shaft-less Seal-less construction.

Maximum Working Pressure: 145 psi (10 Bar)  
 Maximum Working Temperature: 203°F (95°C)  
 Minimum Working Temperature: 50°F (10°C)

ECM Spherical Motor  
 115 Volt 60 Hz  
 14 Watts Power Consumption  
 Automatic Overload Protection  
 Low in-rush current

- A built-in temperature sensor automatically turns the pump ON when the water temperature in the hot water supply line cools down to 85°F (29°C). The pump then moves the cool water in the hot water supply line into the cold water supply line.

\*As defined by CA AB1953

- Autocirc® Pump turns OFF automatically when water temperature reaches 95°F (35°C), ensuring instant availability of shower warm water with maximum temperature hot water only seconds behind.
- When the pump is OFF, a built-in auto closure device (non-return valve) prevents hot and cold water mixing.
- Hot water will also be instantly available at all other faucets/taps between the water heater and the sink under which the Autocirc pump is installed.

### Model with adjustable "ON" thermostat e<sup>3</sup>-4 /BDPRC

- For models with the adjustable thermostat, there is an adjustable "ON" temperature range from 77°F to 91°F (25°C to 33°C). This built-in temperature sensor will turn the circulator OFF when it reaches 95°F (35°C) and turn the circulator on when the temperature cools down to the "ON" temperature set point.

### Standard Features

#### Body Type

Autocirc housing has (2) 1/2" and (2) 3/8" hose connections.

#### Motor

Designed with a shaft-less spherical motor with permanent magnet technology for improved efficiency.

#### Lead Free

All Autocirc circulators are made from lead free\* construction.

#### Plug

Autocirc circulators are assembled with a 6ft electrical plug.

\* Less than 0.25% Pb on wetted parts surface areas.

**Timer**

Autocirc circulators can provide an even greater increase in energy savings when the built in 24 hour timer is used.

**Noise level**

Whisper quiet, less than 30 db.

**Weight**

Light weight construction, weighs less than 4lbs.

**Special Specifications**

The contractor shall furnish and install in-line circulating pumps as illustrated on the plans and in accordance with the following specification:

1. The pumps shall be of the high efficiency type specifically designed for quiet operation.
2. Pump to be suitable for 203°F (95°C) operation at 145 psi (10 Bar) working pressure.
3. The pumps shall have a ceramic bearing ball lubricated by the system fluid.
4. Pump body shall be lead free (less than .25% Pb) brass.
5. Pump to have one of the following options:
  - a) Pump to have fixed thermostat.
  - b) Pump to have adjustable "ON" thermostat.
6. Motor shall be spherical permanent magnet electronically commutated motor (ECM).
7. Motor shall be non-overloading at any point on the pump curve and shall have built in overload protection.
8. Pumps to have a capacity of \_\_\_GPM at \_\_\_foot of head.
9. All pumps to be supplied by Bell & Gossett Model \_\_\_.

**Available Models**

Part Number	Description	Model	Weight
LHB08100098	Lead Free Brass* Autocirc 1/2" Fixed Thermostat with Timer	e <sup>3</sup> -4_-BDPQC	4lbs.
LHB08100099	Lead Free Brass* Autocirc 1/2" Adjustable "ON" Thermostat with Timer	e <sup>3</sup> -4_-BDPRC	4lbs.

\* Less than 0.25% Pb on wetted parts surface areas.

