

<b>JOB:</b>	<b>REPRESENTATIVE:</b>	
<b>UNIT TAG:</b>	<b>ORDER NO.</b>	<b>DATE:</b>
<b>ENGINEER:</b>	<b>SUBMITTED BY:</b>	<b>DATE:</b>
<b>CONTRACTOR:</b>	<b>APPROVED BY:</b>	<b>DATE:</b>



## Lead Free<sup>\*</sup>, Energy Efficient Autocirc® Circulators for Standard Water Heaters



### Description

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.

### Materials of Construction

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

### Operating Data

#### Pump

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

#### Motor

Electrically commutated motor with permanent magnet spherical rotor  
115 Volts 60 HZ  
14 Watts Power Consumption  
Automatic Overload Protection  
Low in-rush current

\*As defined by CA AB1953. Less than 0.25% Pb by weight on wetted parts surface areas.

### Model With fixed thermostat e<sup>3</sup>-4 /BDPQC

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. 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<sup>\*</sup>

All Autocirc® circulators are made from lead free<sup>\*</sup> construction.

#### Plug

Autocirc® circulators are assembled with a 6ft (~2m) electrical plug.

**Timer**

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

**Weight**

Light weight construction, weighs less than 4 lbs

**Special Specifications**

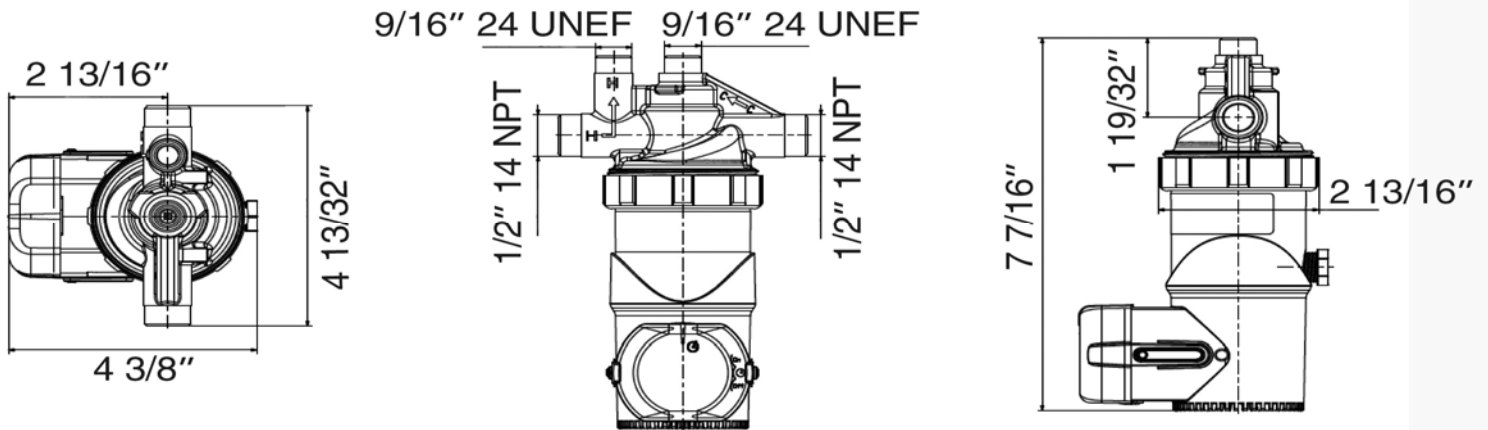
The contractor shall furnish and install in-line circulating pumps as illustrated on the plans and in accordance with the following specification:

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 ball bearing lubricated by the system fluid.
4. Pump body shall be a lead free (less than 0.25% 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 rotor permanent magnet electrically 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 by weight on wetted parts surface areas.



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