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

<sup>\*</sup>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>-4F/BAPQC

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>-4F/BAPRC

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

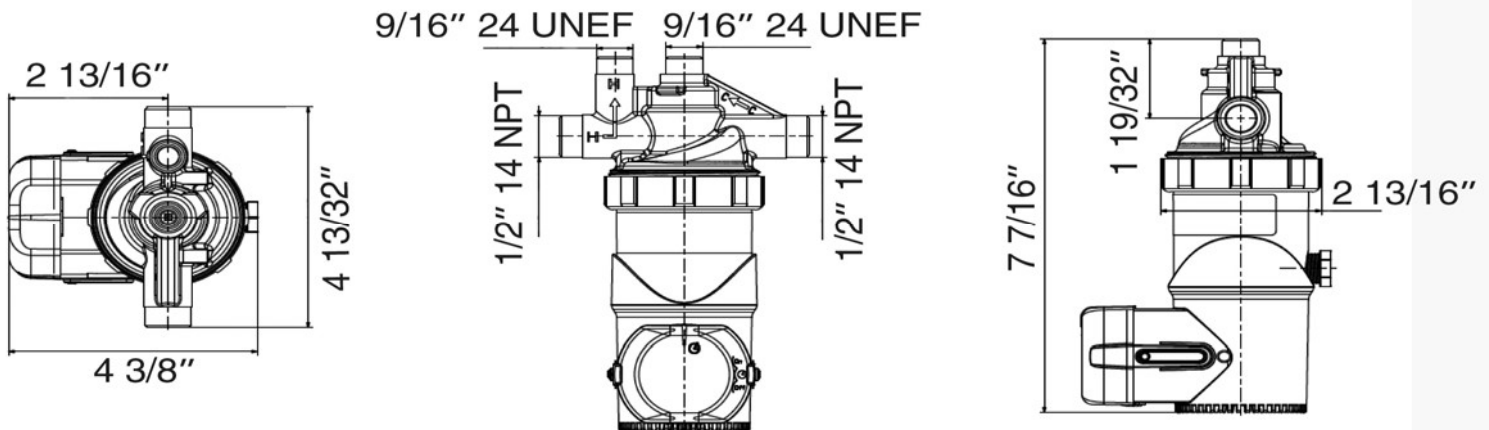
The contractor shall furnish and install in-line circulating pumps as illustrated on the plans and in accordance with the following specification:

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 |
|-------------|-----------------------------------------------------------------------|--------------------------|--------|
| 60A0B6001   | Lead Free Brass* Autocirc® 1/2" Fixed Thermostat with Timer           | e <sup>3</sup> -4F/BAPQC | 4lbs.  |
| 60A0B6002   | Lead Free Brass* Autocirc® 1/2" Adjustable "ON" Thermostat with Timer | e <sup>3</sup> -4F/BAPRC | 4lbs.  |

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



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Let's Solve Water