

JOB: UNIT TAG: ENGINEER: CONTRACTOR:	REPRESENTATIVE: ORDER NO. SUBMITTED BY: APPROVED BY:	DATE: DATE: DATE:
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Lead Free*, Energy Efficient Recirculation of Domestic Hot Water for Large Residential Buildings and Tankless Water Heater Applications



Description

Ecocirc® circulators are energy efficient using permanent magnet, ECM (electronically commutated motor) technology. The ecocirc® B 23-5 ACT circulators are designed for large residential home and tankless water heaters. These circulators are lead free* and are assembled with a timer, cord, and plug.

Materials of Construction

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 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
 60 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.

Control Mode

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. Ecocirc® B 23-5 ACT 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 ecocirc® B 23-5 ACT pump is installed.

Standard Features

Body Type

Ecocirc® B 23-5 ACT housing has (2)1/2" (12.7mm) and (2) 3/8" (9.6mm) hose connections.

Motor

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

Lead Free*

All ecocirc® B 23-5 ACT circulators are made from lead free* construction.

Plug

Ecocirc® B 23-5 ACT circulators are assembled with a 6ft (~2m) electrical plug.

Timer

Ecocirc® B 23-5 ACT 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 7 lbs (3.2 kg)

Special Specifications

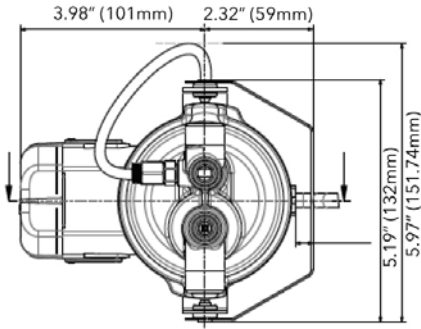
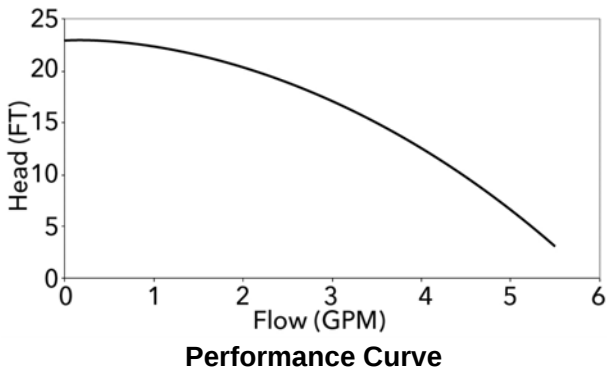
The contractor shall furnish and install in-line circulating pumps as illustrated on the plans and in accordance with the following specification:

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 (L/s) at ____ foot (meters) of head.
9. All pumps to be supplied by Bell & Gossett Model ____.

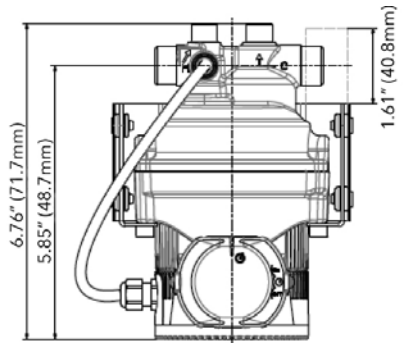
Available Models

Part Number	Description	Model	Weight
6050B7016	Lead Free Brass* ACT 1/2" Fixed Thermostat with Timer	Ecocirc® B 23-5 ACT	7 lbs (3.2 kg)

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



Dimensions



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