

JOB:

REPRESENTATIVE:

UNIT TAG:

ORDER NO.

DATE:

ENGINEER:

SUBMITTED BY:

DATE:

CONTRACTOR:

APPROVED BY:

DATE:



ecocirc[®] wireless Potable Hot Water Recirculation Kit



DESCRIPTION

The ecocirc[®] wireless is a potable hot water recirculation kit (recirculation pump and a paired mixing valve) for instant supply of hot water supply throughout the entire house.

The ecocirc pump is installed on the supply side of the hot water source and the mixing valve under the sink farthest away from the hot water source (see schematic below). The pump and mixing valve wirelessly communicate temperature data.

The desired water temperature at the mixing valve is set directly on the pump with the thermostat dial. A signal is sent to the ecocirc recirculation pump to begin circulating hot water throughout the system. The mixing valve tempers the cold water at the faucet / tap, providing instant hot water. When the set temperature is reached, a wireless signal is sent from the valve to turn off the pump. This prevents continuous pump operation thus saving energy. For additional energy savings, the pump can be set on timer based operation, to allow it to only run during time periods when hot water demand is high.

The ecocirc recirculation pump requires as little as 20 watts to operate. The instant hot water delivery with the ecocirc wireless saves water and time. An optional push-button/signal repeater device is available to provide instant hot water with a touch of a button.

Push button operation overrides the timer operation and continues until the desired temperature is met at the mixing valve. Acting in its secondary function, the signal repeater extends the data transmission range between the pump and mixing valve.

OPERATING DATA

Maximum Operating Temperature:
203°F (95°C)

Maximum Operating Pressure:
145 PSI (10 Bar)

Power Supply:
115 Volts, 60 HZ, 1 Phase

Power Consumption: 20 Watts

Operating Noise Level: 30 dB

Batteries: 2 AA Alkaline

Estimated Battery Life: 2 Years

Maximum Transmitter Range:
150 ft

MATERIALS OF CONSTRUCTION

Circulator Pump

Body: Lead Free* Brass

Seals: EPDM

Impeller: Nylon/PPO

Internals: 316 Stainless Steel

Paired mixing valve

Body: Lead Free* Brass

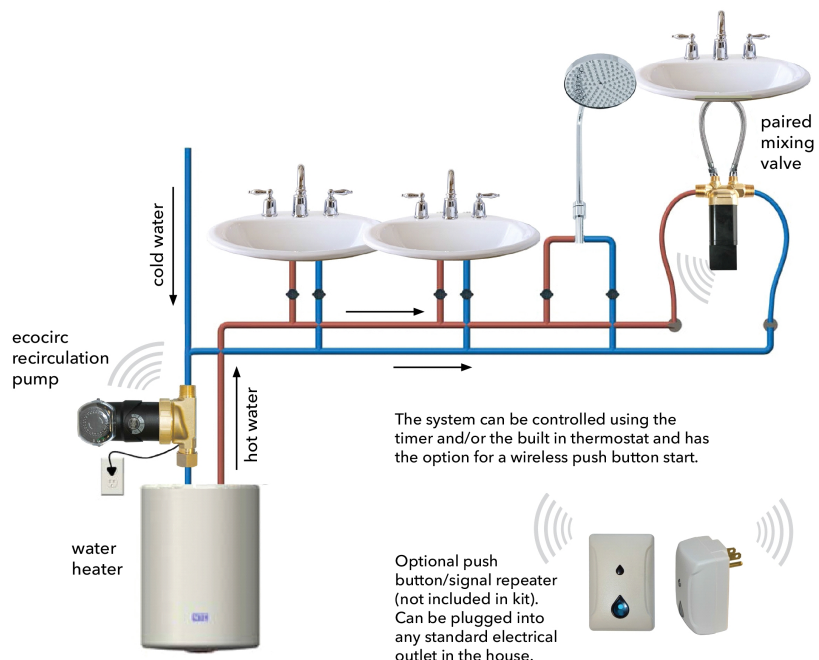
Springs: Stainless Steel

Valve Insert: Acetal Plastic

Seals: EPDM

Transmitter Housing: ABS Plastic

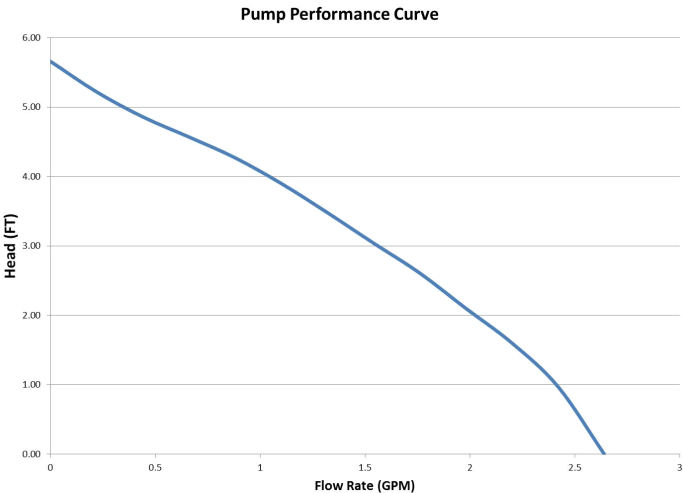
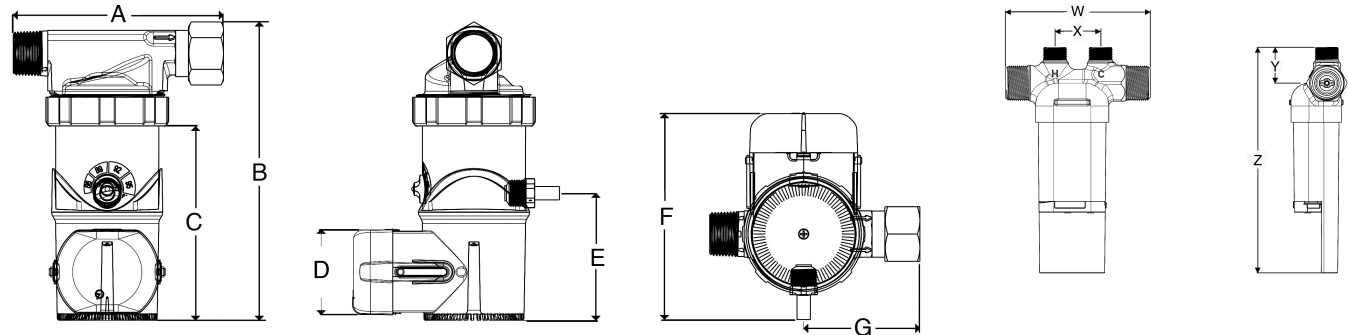
*CSA certified to NSF/ANSI 372 that product contains less than 0.25% lead content by weight on wetted surface.



The system can be controlled using the timer and/or the built in thermostat and has the option for a wireless push button start.

Optional push button/signal repeater (not included in kit). Can be plugged into any standard electrical outlet in the house.

MODEL	PART NO.	CONNECTION	DIMENSIONS INCHES (mm)											SHIPPING WT. LBS. (kg)
			A	B	C	D	E	F	G	W	X	Y	Z	
ecocirc® wireless Recirculation Kit	6050B4000	Pump: 3/4" M/F NPT Valve: 1/2" MNPT x 3/8" compression	4.84 (123)	6.87 (174.6)	4.47 (113.5)	1.97 (50.1)	2.93 (74.4)	4.74 (120.5)	2.68 (68)	3.5 (89)	1.1 (28)	0.87 (22)	5.45 (138.5)	3.9 (1.80)
Push button/ signal repeater	6099B1500													



TYPICAL SPECIFICATIONS

Furnish and install as shown on plans, ecocirc wireless kit (recirculation pump and paired mixing valve). The ecocirc pump shall be installed on the supply side of the hot water source and mixing valve under the sink farthest from the hot water source. Pump shall have a shaft-less, wet rotor design with a ceramic ball bearing lubricated with system fluid. Pump shall have built-in temperature sensor and 24-hour adjustable timer. Motor shall be spherical, electronically commutated, non-overloading at any point on the pump curve and shall have a built-in overload protection.

Paired mixing valve shall be equipped with on-board temperature transmitter and wireless RF transceiver to communicate with the circulation pump mounted on inlet of hot water source. An optional push button/signal repeater device shall provide instant hot water with touch of a button, overriding the timer until desired temperature is met at the valve. Acting in its secondary function, the signal repeater extends range of data transmission between recirculation pump and mixing valve.

The potable hot water recirculation kit shall be Bell & Gossett model ecocirc® wireless. The kit shall be ETL listed and CSA certified to NSF/ANSI 372.

FCC Statement (United States Only)



This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

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