

Efficiency Maine

Introduction to ECM Circulator Pumps

SAVE ON THE PURCHASE OF ECM CIRCULATOR PUMPS WITH INSTANT DISCOUNTS

With Efficiency Maine's instant discounts, plumbers can buy ECM circulator pumps for less than a traditional pump. And since it's an instant discount through participating distributors, there's no paperwork and no waiting for a rebate check. Next time you're having a circulator pump installed on your boiler, be sure to ask for an ECM circulator pump. They cost less to buy and less to operate.

ADVANTAGES FOR PLUMBERS

- 1) Avoid jams and call backs due to jammed pumps because:
 - a) iron sediment is prevented from reaching then blocking the rotor, and
 - b) they start at full power to blast through any sediment build up.
- 2) They use existing piping because they match existing size and flange layout.



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CIRCULATOR PUMPS

Forced hot water (“hydronic”) heating systems use circulator pumps to move heated water from boilers to radiators and back. These pumps run whenever a thermostat calls for heat.

Pumps have a spinning shaft called a rotor that is rotated by a magnetic field created by coils of wire that surround it. The spinning rotor circulates water through the boiler distribution system.

Traditional circulator pumps run at one fixed speed and use some electricity to magnetize their rotor. Electronically commutated motor (ECM) circulator pumps can modulate their speed and use permanent magnet motors that don’t require any electricity to have magnetic properties.

TO LEARN MORE ABOUT ECM CIRCULATOR PUMPS, VISIT EFFICIENCYMAINE.COM OR CALL 866-376-2463.

ADVANTAGES

#	Feature	Function	Benefit
1	Low price after instant discount	Cost less than traditional circulator pumps.	Save money up front
2	High efficiency motor	Reduces operating costs 85% compared to traditional circulator pumps.	Save \$320 over its life*
3	Permanent magnet motor	The rotor does not consume electricity to act as a magnet.	Reduced electric bills
4	Variable speed	Speed adjusts to match the load. If only one small zone needs heat, then the pump can run slowly. If a large, distant zone needs heat, the pump can speed up to keep a constant flow or pressure. Only the power that is needed is used.	Reduced electric bills and possibly longer life
5	Variable power	To avoid jams caused by sediment collecting after prolonged periods without use, some ECM pumps are programmed to start at full power and then ramp down to match demand. This can clear sediment that could otherwise jam the pump.	Reduced service calls
6	Variable direction	If sediment causes a pump to jam, some ECM pumps can automatically reverse themselves temporarily to attempt to clear the jam.	Reduced service calls

* This example assumes replacing an 87.7 watt PSC pump with a 14.4 watt ECM pump running for 1,374 hours per year for 20 years at a cost of \$0.16/kWh. Your savings may differ.