

PUMPS FACT SHEET

Residential hot water recirculation controls

Recirculation systems are great at keeping hot water at the tap, but they waste energy by operating 24/7. Integrated controls avoid this by shutting off the pump when hot water is already available at the tap or not needed. Implementing a control strategy for smart circulators maintains occupant comfort, saves money, and prevents unnecessary wear and tear on piping.



Control type	Control description	Run time per day
No controls	Runs at all times	24 hrs
On demand	Occupants push a button to call for hot water; occupancy sensor	5 mins
Temperature	Sensor on pipe calls for pump to run below a specified temperature	10 hrs
Timer	Runs during pre-set interval	12 hrs
Learning	Computer learns occupant's habits	12 hrs

Benefits of efficient recirculation pumps

- **Controls turn the pump off** when the water in the circulation loop reaches the desired temperature or when occupants aren't using hot water.
- **Smart learning recirculation pumps simplify installation and operation** with integrated sensors, programmable control logic, and advanced electronically commutated motors (ECMs).
- **ECMs offer 20% energy savings** over regular A/C induction motors.
- **Occupants won't have to wait** for hot water as cold water goes down the drain, and they'll enjoy lower water and power costs.
- **Lower run times avoid wear and tear** on piping.

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