

COLD WEATHER · RECIRCULATION

WATTS 500800 RECIRCULATING PUMP

The circulator that keeps warm water moving through the Portland Loo's cold weather toilet system.

24-hour

BUILT-IN PROGRAMMABLE
TIMER

120V plug-in

GROUNDING CORD INCLUDED

140°F max

OPERATING TEMPERATURE

3/4"

INLET AND DISCHARGE



OVERVIEW

The Watts 500800 is a compact hot water recirculation pump with a built-in timer. In the Portland Loo it pairs with the EMT250 mini tank to keep heated water circulating through the toilet's supply plumbing, so it stays ready to flush in freezing weather.

It's part of the Madden Extreme Cold Weather System, which lets the Loo operate in temperatures as low as -10°F. The pump is made in America.

01 BUILT-IN TIMER

A 24-hour dial with quarter-hour tabs sets when the pump runs. The switch also has ON and OFF overrides.

02 SIMPLE TO INSTALL

Plugs into a grounded 120V outlet. A 3/4" female inlet with gasket and 3/4" NPT discharge make swaps quick.

03 SAFE FOR DRINKING WATER

Certified to NSF/ANSI 61 and lead free to NSF/ANSI 372.

04 MADE IN AMERICA

Built to work with Madden Fabrication's cold weather toilet recirculating system, also made in America.

**EXTREME
COLD**

The pump, the EMT250 mini tank, Madden's flush flow assist valve and the Extreme Cold Weather Curtain work together so the Portland Loo can keep operating down to -10°F.

SPECIFICATIONS

Model	Watts 500800 hot water recirculation pump with timer
Electrical	120 VAC, 60 Hz · grounded plug and cord
Timer	24-hour dial, 15-minute increments · TIMER, ON and OFF modes · clear dust and moisture cover · rated -40 to 180°F
Operating temperature	140°F (60°C) maximum
Connections	3/4" female inlet with gasket · 3/4" NPT discharge
Installation	Indoor use · pump in the direction of the flow arrow · do not mount with the motor shaft vertical
Certifications	NSF/ANSI 61 · NSF/ANSI 372 lead free
Origin	Made in America
Warranty	1 year from shipment (Watts limited warranty)

MADDEN EXTREME COLD WEATHER SYSTEM

COMPONENT	ROLE
Watts 500800 recirculating pump	Moves heated water through the toilet supply plumbing (this part).
EMT250 mini tank	2.5-gallon, 120V tank that heats the recirculated water.
Flush flow assist valve	Works with the recirculating system to keep the toilet flushing in freezing weather.
Extreme Cold Weather Curtain	Blocks cold air and wind chill coming through the Loo's louvers.

VIEWS



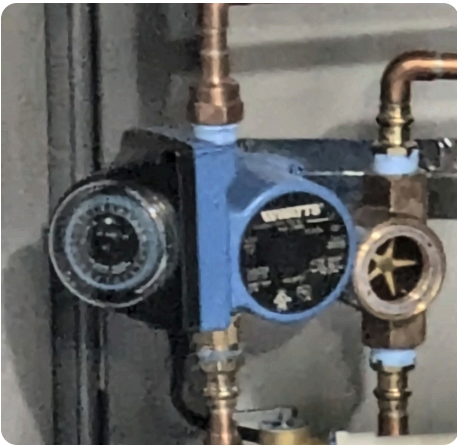
FRONT

24-hour timer dial and 3/4" discharge.



3/4 VIEW

Compact pump body with the timer housing.



INSTALLED

Above the EMT250 tank in the cold weather system.

SERVICE TIP

The timer doesn't keep time during a power outage, so reset the dial to the current time when power returns. Replace the 3/4" hose gaskets periodically to prevent leaks.