



# Swiftech MCP50X Extreme 12 VDC DDC Pump

\$69.95

## Product Images



## Short Description

NEW Swiftech MCP50X! Extreme pressure, small form factor, 12 V DC centrifugal pump. The most salient characteristic of the MCP50X pump is its impressive power: despite a compact foot print of only 2x2", this 12VDC centrifugal pump features 4.8MH2O of head pressure, an industry best to date. Such high pressure capability allows the MCP50X to push more flow than competing products in complex liquid cooling systems where multiple devices are installed.

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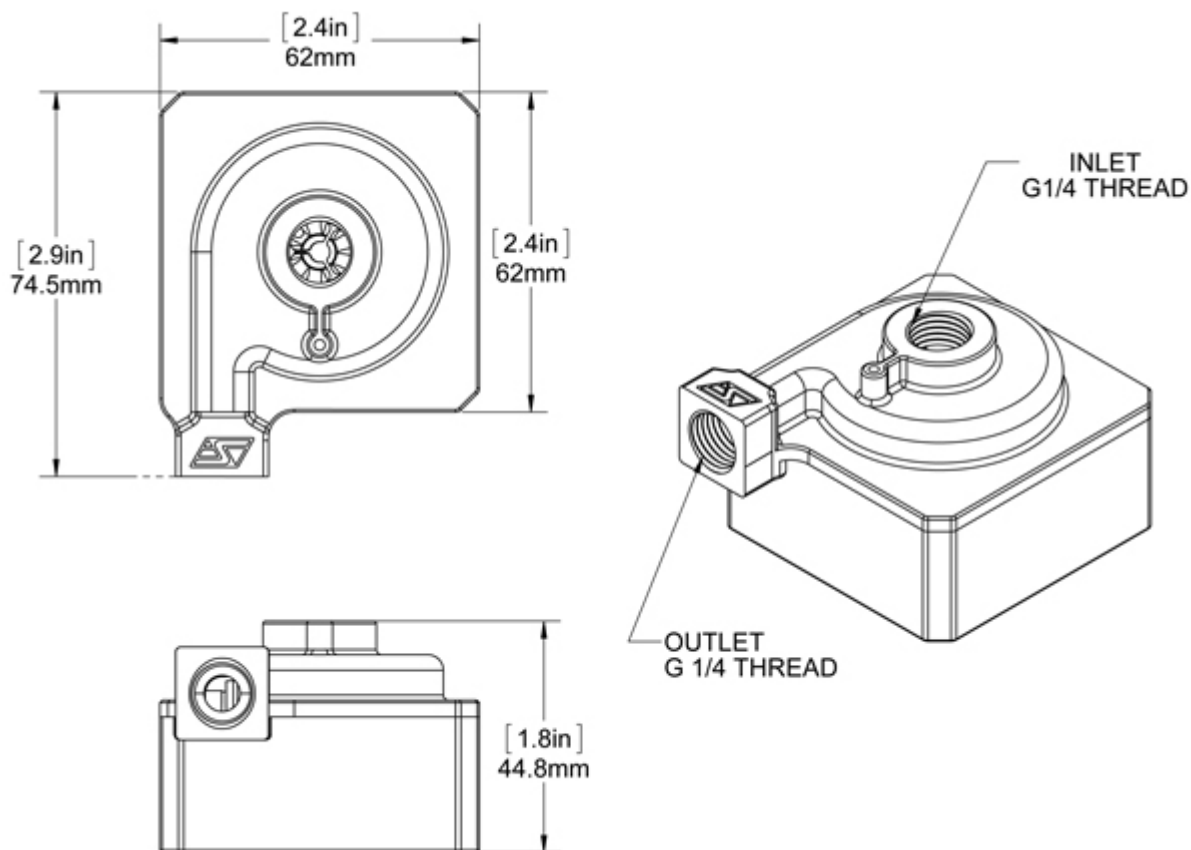
## Features

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- Small Footprint: 2.4" x 2.4" x 1.8";
- 50,000 hours MTBF (Mean Time Between Failure) ;
- 12 Volts DC
- SATA connector
- Variable speed control via PWM thru the motherboard, from 1200 rpm for completely silent operation, to 4500 rpm for ultra high flow performance;
- Superior head pressure to any pump in the same class and footprint: the MCP50X is particularly well adapted to support multiple devices in the same loop, such as multiple radiators, and/or waterblocks;
- G1/4" ports standard for compatibility with a large assortment of fittings;
- Quick installation with adhesive neoprene pad, or permanent installation with supplied hardware;
- Optional "built-in" reservoir;
- 3 year warranty

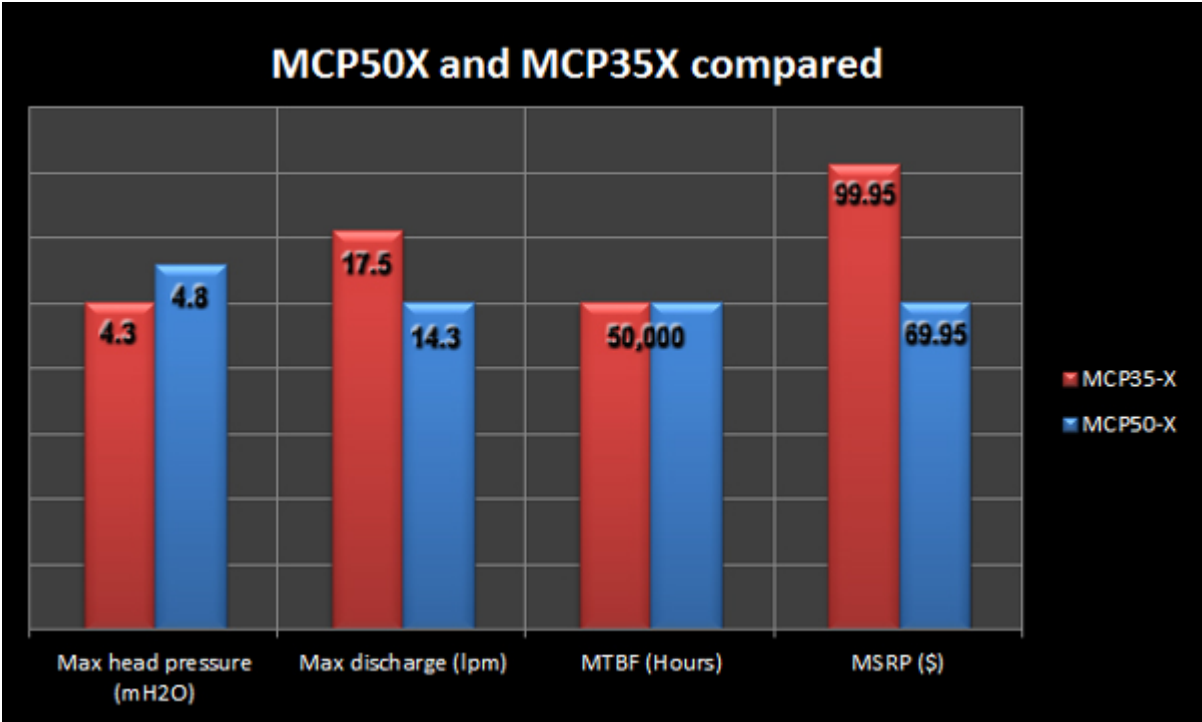
## Specifications

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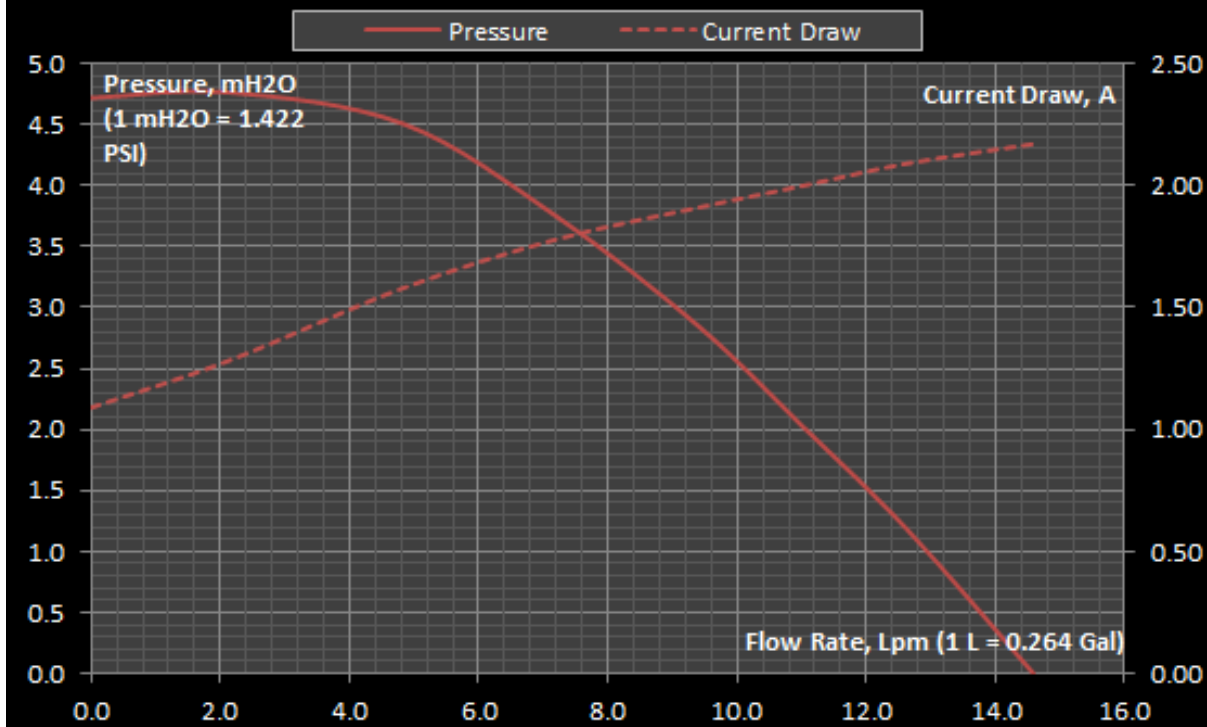


Technical Specifications	
Motor type	Electronically commutated, brushless DC motor
Nominal voltage	12 V DC
Operating voltage range	7 to 13.4 V DC
Max. power (@12 V)	25.8 W
Max. current (@12 V)	2.15 A
Redundant Fail Safe	Software current limiting fail-safe AND hardware shutoff built-into the pump power wires. The hardware fail safe is only triggered in case of a firmware malfunction.
Max. head (@12 V)	15.8 ftH <sub>2</sub> O (4.8 mH <sub>2</sub> O)
Max. discharge (@12 V)	3.8 gpm (14.3 Lpm)
Max. pressure	22 PSI (1.5 BAR)
Temperature range	Up to 140 °F (60 °C)
Electrical power	SATA connector
PWM + RPM Signals	4-pin connector


RoHS	Compliant
Port thread standard	G1/4
MTBF	50,000 Hours
Weight	7.6 oz



## Swiftech MCP50X Pressure and Current Vs Flow Rate



# Additional Information

Brand	Swiftech
SKU	MCP50X
Weight	2.0000
Color	Black
Pump Type	DDC
Pump Voltage	12 VDC
Vendor SKU/EAN	877790002794
Internet Reviews	<div><div>Swiftech MCP50X Pump Review 10-1-2014 When comparing MCP50X vs MCP35X (or any Laing DDC for that matter), if PWM control is not a hindrance then go with MCP50X. It is louder at full speed but gets quieter quickly, offers more head pressure, has a "fuller" PWM response curve and runs cooler. It is also a lot less expensive. There have been no long term tests on the pump yet, for obvious reasons of availability only being a couple of months now, but so far so good.MCP50X definitely is the most bang of your buck pump here. <a href="#">Read more here..</a></div><div></div></div>

