## **Liquid Handling Pumps**



# **Liquid Handling Pumps, M Series**

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The Cheminert® M Series liquid handling pump\* is a syringe-free pump capable of delivering a bidirectional flow over six orders of magnitude.

The M Series is a positive displacement pump, which means that it is self-priming and tolerant of any gas which may find its way into the fluid lines. There is no separate fill cycle, and the capacity is unlimited.

RS-232 and RS-485 communication protocols are incorporated into the microprocessor-driven controller. (USB interface requires an adapter.) The included software package controls flow rates, flow direction, and metered volumes.

#### **Operating principle**

At the core of the pump is a polymeric rotor housing four 1/8" diameter pistons in sapphire cylinders. As the microstepper motor turns the rotor, the pistons float on a stationary cam; at any given moment, one piston is filling, one is dispensing, and the other two are in transit between the fill and dispense positions.

**M6 pumps** 10 nl - 10 ml

Prod No

M6 pump with:

Controller and stepper motor CP2-4841-100M1 CP2-4841-100SM

M6 pump only CP2-4841-100D

**M50 pumps** 50 µl - 50 ml

Prod No

M50 pump with:

Controller and stepper motor CP3-8182-625M2 Stepper motor (no controller) CP3-8182-625M2

M50 pump only CP3-8182-625D

#### **Accessories and replacement parts**

 Prod No

 Pump motor

 M6
 CP-DSM

 M50
 CP-DSM2

 Controller, MicroLynx-4
 CP-CM1-P

SPECS		
	M6	M50
Continuous minimum dispense	100 nl	50 μl
Continuous maximum dispense	5 ml/min	25 ml/min
Maximum back pressure	100 psi	100 psi
Gravimetric precision for 125 µl for 1.25 ml	0.5% 0.05%	0.8% 0.1%
Pump internal volume (μl)	100 ± 2 μl	625 ± 10 μl

### **Applications**

- Flow cytometry, cell and drug perfusion
- HTS and robotic systems
- Infusion and micro-dialysis
- Micro diluters/dispensers for nl to ml range applications
- Micro liquid transfers (nl) for micro arrays
- Microtiter plate dispensing using multiposition valves

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