

## Liquid Handling Products

### Diluter/Dispensers, M Series

- Full liquid handling functionality
- Self-priming
- No syringes
- Largest volume range available
- Easy to use Wizard format does away with math problems and charts

Cheminert M Series diluter/dispensers simplify the sample preparation process for dispensing and diluting liquids. The user-friendly Wizard format eliminates all the math calculations and charts usually associated with diluting and dispensing applications. Just enter the dilution ratio and the final volume, and the correct volume is calculated and automatically dispensed for each ratio.

For multiple dispenses, you simply enter the volume and the number of dispense repetitions, and the Wizard calculates the total volume to be aspirated. It's that easy!

The diluter/dispenser is built around a patented syringe-free, bi-directional, positive displacement pump. This design approach gives the largest volume range available, and eliminates the inconvenience of having to change and refill syringes.

#### M10 Diluter/Dispensers

	Prod No	Price
10 nl - 10 ml - M10 diluter/dispenser	CD10-4841-M1A	

#### M50 Diluter/Dispensers

	Prod No	Price
50 µl - 50 ml - M50 diluter/dispenser	CD50-8182-M2A	



### Additional Features

#### "Smart" hand probe

The hand probe signals the operator when an aspirate or dispense step is completed. The unique design also allows the use of fixed or disposable probe tips, as well as other accessories.

#### Program memory

Up to 100 programs can be permanently stored.

#### Multi-solvent option

A multiposition stream selection valve can be easily integrated with the pump for multi-solvent applications.

#### Printer option

Print out methods, sequential steps, time/date/operator stamp, titration and tubing volume values.

Patents pending

### Applications

- Simple dispensing of reagents using the manual dispense mode
- Micro dispensing in microplates and genomic arrays
- Dilutions for AA, ICP, GC, and HPLC samples
- Serial dilutions for all samples
- Multi-sample and reagent additions, micro-plates, tube to plate, tube to tube
- Small and large volume dispensing of reagents
- Titrations

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### 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

	<i>Prod No</i>
M6 pump with:	
Controller and stepper motor	CP2-4841-100M1
Stepper motor (no controller)	CP2-4841-100SM
M6 pump only	CP2-4841-100D

#### M50 pumps

50 µl - 50 ml

	<i>Prod No</i>
M50 pump with:	
Controller and stepper motor	CP3-8182-625M2
Stepper motor (no controller)	CP3-8182-625SM2
M50 pump only	CP3-8182-625D

#### Accessories and replacement parts

	<i>Prod No</i>
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	0.5%	0.8%
for 1.25 ml	0.05%	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

\* Patent No. 6,079,313