

IDI - CYBOR

The Model 450 Chemical Dispense System



The IDI M450 POD Pump Pressure-On-Demand Technology

Using IDI-CYBOR's patented Pressure-On-Demand, POD, technology, the M450 pump provides superior dispense control for troublesome fluids such as anti-reflective coatings, ARC, BARC, TARC. The troublesome foaming and micro bubbling is eliminated. The unique design of the M450's reservoir with its top fill and bottom extraction design allows the natural separation of entrapped air bubbles. This natural separation is further enhanced by the M450 ability to be programmed to rest at idle mode with a user selectable pressure or vacuum setting. This idle mode setting can be set to further decrease the amount of foaming. The yield is a Micro-Bubble free dispense.

The M450 meets your demands for reliability. No other pump in the industry is virtually maintenance free as the IDI M450 POD pump. The superior designs of the M450 pump allows for simple and clean operation. The fluid path of the M450 pump is injection molded PFA Teflon® with virtually moving parts.

The IDI M450 pump requires no external controller for daily operations. The on board pump control card provides the necessary pump controls and process tool interface functions. The M450 is easily programmed with the patented ChemLink software. A single simple connection of the 9 pin serial connector allows remote programming from your desk top or at the host tool with a laptop computer. The free ChemNet software is Windows-based for user friendly programming and maintenance. Simple fill-in-the-box allows for quick and error-free recipes. The variable rate dispense is programmed easily in pressure and time. Test and maintenance functions are setup and executed from the ChemNet maintenance program.

The IDI-M450 pumps flexibility allows use with other photo chemicals up to 100 cP in viscosity. Integrated support for Now Technologies PNP Smart Probe™ meets the process protection required in many of today's fabs. The host tool interface selection is user selectable using the ChemNet software.



INTEGRATED DESIGNS, LP

2853 DICKERSON PARKWAY, SUITE 114
CARROLLTON, TEXAS 75007
(972) 466-2626

WWW.INTEGRATED-DESIGNS.COM

Simple and Clean Operation, Meeting Your Demands for Reliability

The IDI Model 450 POD

The IDI-M450 pump is designed with enhanced features to suit most processing needs.

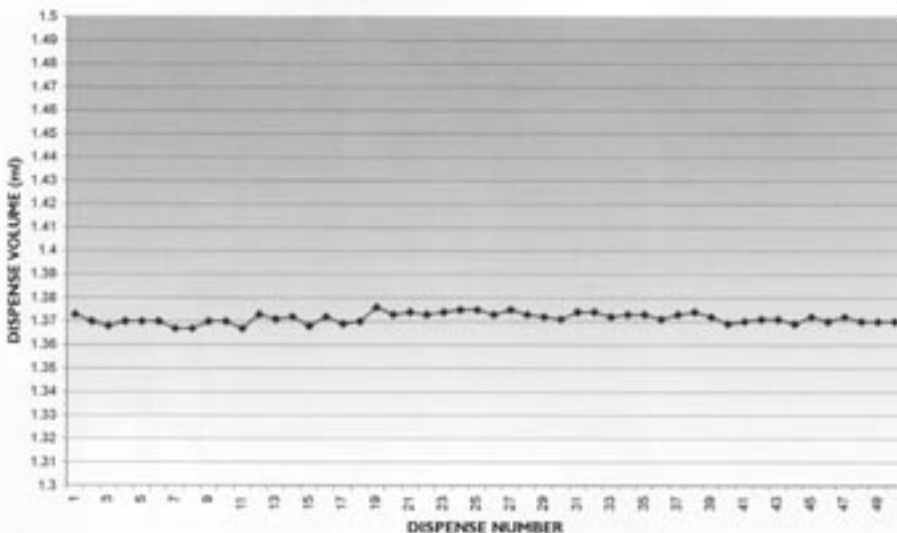
Features:

- Calibration free ultrasonic liquid level sensing
- Variable rate dispense
- Redundant overflow protection
- Drain to Source / Drain to output Modes
- Auto Drain Shutoff
- Source empty monitoring
- Adjustable drawback
- PFA Molded Reservoir and Valves
- Pillar fittings in 1/8", 3/16", 1/4" 4mm and 6mm field selectable sizes
- Two footprint sizes for optimum space usage
- Auto Vent - Auto Purge filter functions
- CE Certified

Model 450 DATA SHEET

Dispense Volume Range	0.1 -50 mL
Volume repeatability	<.01 mL STD DEV
Viscosity Range	1.0 -100 cP
Maximum Differential Pressure	30 PSI
Dispense pressure range	0.1 to 15 psi (std) 25 psi optional
Dispense Mode	Constant or variable pressure
Dispense Filtration rate	0.1 to 20 mL / sec
Idle Mode	Ambient, pressure or vacuum
Drawback Volume	Manually adjustable
Drawback Rate	Manually Adjustable
Purge volume	0.1 - 50mL
Filter Type	PALL, Mykrolis, Parker
Filter Size	2.5" / 16 Stack
Input Voltage	24VDC - 500mA (12 W max)
N2 Pressure (1/4" Line)	Regulated 70- 80 psi @ 0.75 SCFM
Exhaust (1/8" Line)	0.75 SCFM
Orings	Perfluoroelastomer
Certifications	CE

M450 Dispense Repeatability



**The Easy Choice...
For Chemical Management Solutions**



CYBOR

by

INTEGRATED DESIGNS, LP

**2853 DICKERSON PARKWAY, SUITE 114
CARROLLTON, TEXAS 75007
(972) 466-2626**

WWW.INTEGRATED-DESIGNS.COM

Windows® and Windows NT® are registered trademarks of Microsoft Corporation

Teflon® is a registered trademark of DuPont