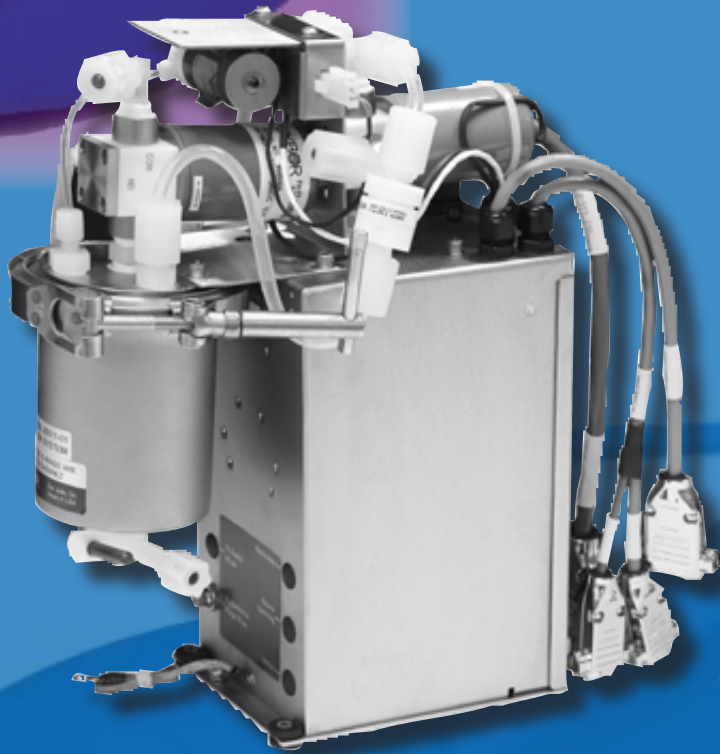


IDI - CYBOR

The CYBOR M7000



CYBOR

INTEGRATED DESIGNS, L.P.

2853 Dickerson Parkway, Suite 114
Carrollton, Texas 75007
(972) 466-2626

WWW.IDI-CYBOR.COM

The CYBOR M7000

The next step in Positive Displacement Technology

The CYBOR M7000 has taken the semiconductor industry's most widely used and trusted pump and has further enhanced its control, and versatility.

The M7000 pump has enhanced volume accuracy and repeatability with new high resolution stepper motor control software. Volume repeatability is now up to **0.01mL 3 Sigma**. The user-selectable variable rate recipe has been demonstrated to reduce the volume of resist used.

The M7000 excels in low viscosity, low volume dispense control. The dispense rate acceleration and deceleration is easily configured to minimize fluid instability (water hammer) at the critical end of dispense. The acceleration / deceleration when applied between steps of the variable rate provide a predictable and smooth transition between rates. No more "water hammer" related defects with low viscosities.

The M7000 pump is configured with an on-board single pump controller. This new approach allows a reduced cost-per-dispense point. The on-board single pump controller is compatible with the industry standard CYBOR control architecture. Pump control is executed through the host process tool using discrete signals or RS232 / 485 serial communications.

Eight recipes, each with independently programmable volumes and rates are programmable in milliliters and seconds. Active recipe selections are made through either communication protocol or discrete signals.

The M7000 CYBOR pump is available in a High Purity version to comply with Semi Spec E 49.

Minimize your Cost, Maximize your Return

The CYBOR M7000

Standard Versions:

- Non-Filtered
- Filtered
- High Purity

Standard Features:

- All Teflon® Chemical Flow path
- EPR O-rings
- High Performance Stepper Motor
- 1/4" Flare Fittings
- N₂ purge of electronics
- 24VDC Operation
- On Board Controller
- Factory installed Interface Cables
 - Power
 - Track
 - RS232/RS485

Standard Track Interfaces

- SVG86/88 (Rite Track)
- SVG90, 90 S
- TEL Mark Vz, 7, 8
- TEL ACT 8
- FSI Polaris
- EVG
- Suss ACS200, 300

Nowpak Smart Probe Interface

- Single source

CYBOR M7000

Upgrades / Options:

HIGH PURITY PUMP VERSION

- Standard w/ Kalrez Orings
- Non Pipe thread Flow path

FILTER PUMP OPTIONS

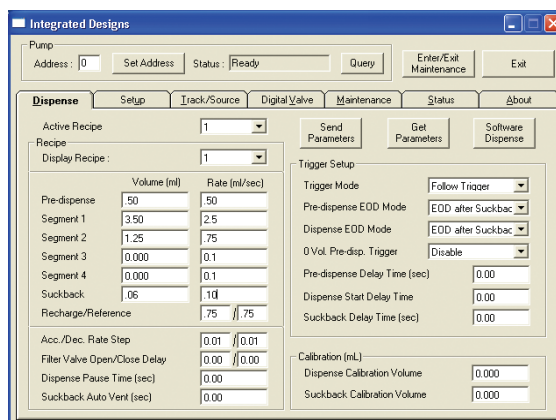
- Filtered pumps standard with Auto vent.
 - Plumbed with Filter bypass checkvalve for suckback operation
 - Vent Valve for air removal from filter on primary side
 - PALL Falcon™ * 2" 16 Stack Mykrolis *
- * Not High Purity Pump version compatible

SOURCE LINE BUBBLE DETECTION SENSORS

FLUID RECIRCULATION VALVE (Stand alone version)

- Can be used for Purge to Source or Purge to drain operations

NOWPAK SMART PROBE INTERFACE



Dispense Volume	0.01 to 16.0 mL	0.01 increments
Dispense Rate	0.01 to 5.0 mL/ sec	0.01 increments
Drawback Volume	0.100 to 8.000 mL	0.001 increments
Drawback Rate	0.01 to 5.0 mL/ sec	0.01 increments
Recharge Rate	0.01 to 5.0 mL/ sec	0.01 increments
Accuracy	+/- 5% pre calibration offset	
Repeatability	0.01 3 Sigma	
Viscosity Range	.08 to ≤ 300cP	

Physical Dimension and Requirements	Foot Print: 6"W x 8.8" D x 11"H
Power	24VDC 3 Amps
N2	60 psi at 5 SCFH (For N2 Purge Option Only)
Environmental	10°C to 40°C
Relative Humidity	10 to 90%, Non condensing
CE certified	

The specifications listed above were determined under user controlled test conditions. Contact IDI-CYBOR for a complete list of test conditions and specifications.

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



by

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