

MegaPure™ 25

Chemical Distribution System

- » Economical
- » Designed for localized dispensing
- » Non-intrusive empty drum detection



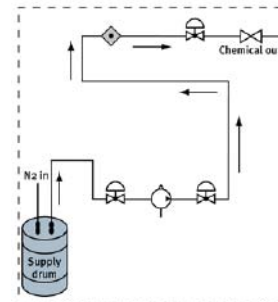
System Features

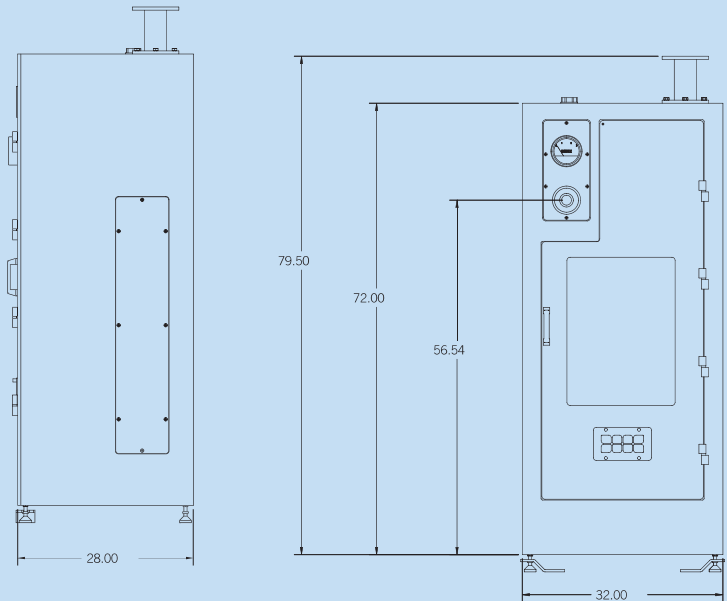
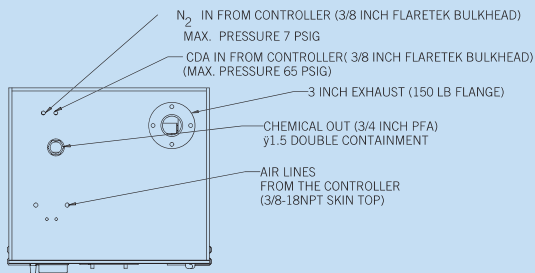
The MegaPure 25 Chemical Distribution System provides single pass filtration as low as 0.05 μ . It is PLC controlled and generally configured to be fed from one or two local stand-alone feed drums. It is designed for localized dispensing for medium purity applications or as a feed station for larger blending units. (The drum(s), pump(s), and filter(s) are all located in the same cabinet to minimize the use of subfab floor space.)

- Photoelectric leak detection and alarm
- Cabinet door interlocks
- Manual valve isolation of Teflon™ inlet and outlet lines and pump
- Cartridge filter (10")
- Separate NEMA rated fiberglass controls compartment
- Integrated controls with comprehensive status and safety sensing

Options

- Dual drum with auto-changeover
- Redundant pump
- FRPP cabinet (S2-92 and FM4910 reviewed)
- Custom configuration and integration
- Redundant filters
- Specific chemical resistant components
- Drum recirculation with chemical polishing





Reliability

- > 4,000 hrs MTBF
- > 2,000 hrs MTBA
- < 1 hr MTTR
- > 99.8% availability (with redundant pumps)

Performance

Flow rate: up to 5 GPM @ 20 psi
 (chemical dependent)
 (DI water @ Exit of CDU outlet))

Utilities for testing

DI water (18 meg ohm)
 Semiconductor grade nitrogen (99.999%)
 Clean dry air

Controls

- Local and remote EMO capability
- Local PLC HMI
- Dry contacts (chemical request/chemical available)

Facility requirements	MP 50	Connection Type
N ₂	2 SCFM, 90 psi	3/8" SS Swagelok
CDA	10 SCFM, 80 psi	1/2" SS Swagelok (HC)
Exhaust	75 SCFM, 2" H ₂ O	3" Pipe flange
Process drain	30 psi, 5 GPM	3/4" FNPT polypro 1" FNPT polypro- HC
Power	120 VAC, 15 AMP service	3/4" Conduit
Cabinet drain	Gravity	3/4" FNPT polypro

Model	MP 25	MP 25 Redundant Pumps
Application	Most acids, bases, oxidizers	Most acids, bases, oxidizers
Flowpath	3/4"	3/4"
Dispense rate	5 GPM @ 20 psi	5 GPM @ 20 psi
Cabinet Materials	Polypropylene	Polypropylene
MTBF	>2500 hours	>4000 hours
MTTA	>1250 hours	>2000 hours
MTTR	<1 hours	<1 hours
Uptime	95%	99.8%
Footprint	32" x 28" x 72" (single drum)	design dependent (dual drum)
Filter Housing	10" Cartridge filter	10" Cartridge filter
Leak detection	Yes	Yes



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