



# MegaPure™ 100SS

## Chemical Distribution System

### SYSTEM FEATURES

The MegaFlow 100SS Chemical Distribution System with pulsation dampener provides single pass filtration at  $0.05\mu$  for solvents with a space efficient footprint. It is generally configured for one or two 55 gallon feed drums. Advanced microprocessor PLC-based controls are isolated in a separate nitrogen purged compartment. PLC network communication enhances the system's user-friendly operator interface panel.

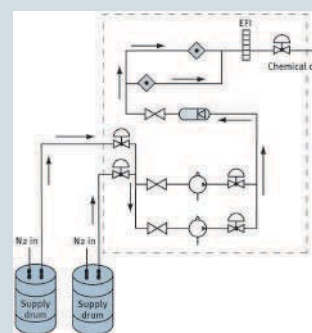
- ◆ Excess flow indication and shutdown
- ◆ Photoelectric leak detection and alarm
- ◆ Manual N2 pump and filter purging
- ◆ Recirculating DI spray gun
- ◆ Cabinet door interlocks
- ◆ Teflon™ pump with pulsation dampening
- ◆ Manual valve isolation of inlet and outlet lines and pump
- ◆ Non-intrusive drum empty detection
- ◆ Cartridge filter (10")
- ◆ Class 1, Division II approved

### OPTIONS

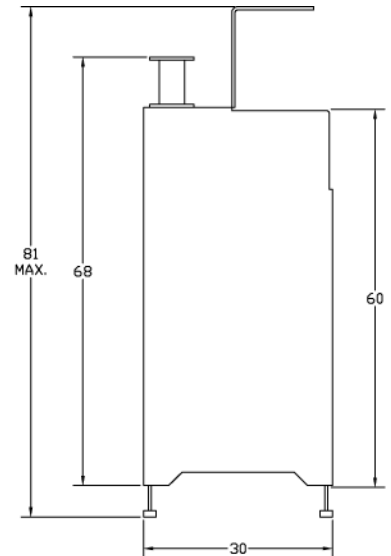
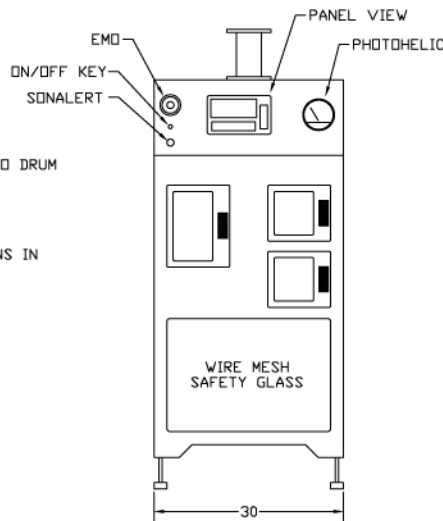
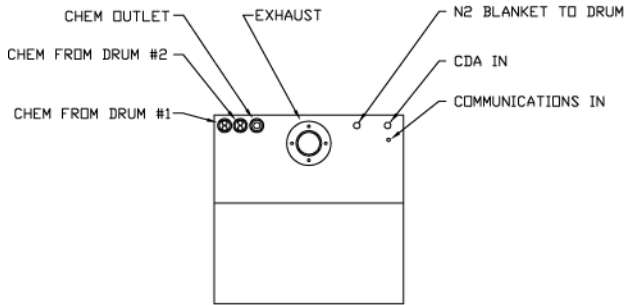
- ◆ Sample port
- ◆ Dual supply source with auto-changeover
- ◆ High capacity (HC)
- ◆ Redundant pump
- ◆ Redundant filter (standard on HC)
- ◆ Drum cabinet
- ◆ CE Mark 220 V, 50Hz
- ◆ Particle counter connection
- ◆ Custom configuration and integration



- ◆ Economical
- ◆ Space-efficient design
- ◆ Single pass solvent filtration
- ◆ Pulsation dampening of pump
- ◆ Non-intrusive empty drum detection
- ◆ Stainless steel cabinet with wire reinforced glass doors
- ◆ Meets Class 1, Division II standards



# Station Description



## RELIABILITY

- > 2,500 hrs MTBF
- > 1,250 hrs MTBA
- < 2 hrs MTTR
- > 95% availability

## FLOW RATE

- 2.5 GPM @ 25 psi (Regular Flow)
- 6 GPM @ 20 psi HC (High Capacity)
- (DI water @ Exit of CDU outlet)

## UTILITIES FOR TESTING

- ◆ Semiconductor grade nitrogen (99.999%)
- ◆ Clean dry air

## CONTROLS

- ◆ Connectivity to system PLCs via DH+ network
- ◆ Allen-Bradley monitoring system
- ◆ Local and remote EMO capability
- ◆ Dry contacts (chemical request/chemical available)

Model	MP 100SS	MP 100SS HC
Application	Solvents	Solvents
Flow path	3/4"	1"
Dispense rate	2.5 GPM @25 psi	6 GPM @20 psi
Cabinet Materials	Stainless steel (304)	Stainless steel (304)
Footprint	30" x 30" x 71"	36" x 36" x 85"
Filter Housing	10" Cartridge filter	10" Cartridge filter(s)
Leak detection	Yes	Yes

Facility requirements	MP 100SS	Connection Type
N <sub>2</sub>	2 SCFM, 90 psi 3 SCFM, 90 psi (HC)	3/8" SS Swagelok
CDA	10 SCFM, 80 psi 12 SCFM, 80 psi (HC)	3/8" SS Swagelok 1/2" SS Swagelok (HC)
Exhaust	75 SCFM (dist.) 2" H <sub>2</sub> O	3" Pipe flange
Process drain	30 psi, 5 GPM	3/4" FNPT polypro
Power	120 VAC, 15 AMP service	3/4" Conduit
Cabinet drain	Gravity	3/4" FNPT SS



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