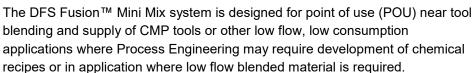
DFS MINI MIX SYSTEM



Versatile Mobile Chemical Blending & Dispense System, the Mini Mix

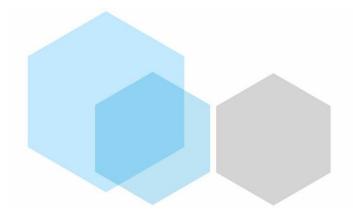


The Mini Mix is engineered to blend from customer-supplied chemical source and UPW. Blends are verified through the blend specific on-board metrology set. Internal cooling coils control temperature with the HDPE day tank. The system can also be programmed to automatically keep the day tank full from a connected external source. The system uses a maglev pump for chemical supply as well as blend recirculation. An on-board pneumatic pump handles chemical source transfer and pumped waste.

Advantages

- > Fully automated system
- Low cost of ownership
- ▶ Ability to perform R&D testing while permanent system comes online
- Adjustable recipes through the user-friendly HMI
- Monitors key metrology data points
- Fully portable allowing for maximum flexibility in placement
- Space efficient design









DFS MINI MIX SYSTEM

Features

- ▶ 3-point load cell system to monitor and blend chemical
- 10-inch filter housing
- Conductivity for blend validation
- Flow-through pressure transducers
- 114L HDPE blend/day tank with cooling coils
- Automatic system flushing
- Pressure and flow monitoring
- ▶ 10L to 200L carboy or drum connection
- Maglev pump
- Non-intrusive level sensors
- Ultrasonic flow monitoring
- Waste pump for system draining and maintenance
- Solenoid valves with system force capability
- All wetted flow paths are PFA, PTFM, or PTFE
- Polypropylene cabinet materials

Safety

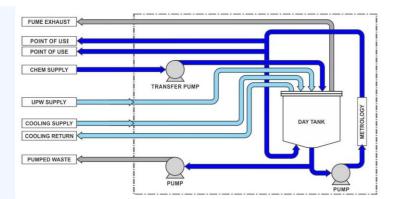
- Cabinet leak detection and alarming
- Cabinet exhaust monitoring and alarming
- Cabinet door interlocks
- Local and remote EMO capability
- Maintenance points for system purging and draining
- Cabinet contains 110% of the largest volume
- SEMI S2 Compliant
- UL 508A Certified

Options

- Blending by weight
- Blending by volume
- Bulk chemical addition
- Refractive index for blend validation
- PFA blend tank
- FM4910 cabinet materials
- SEMI S2 Certified

Controls

- PLC and HMI
 - On-screen system P&ID
 - Maintenance and shutdown monitoring
 - Force screens for maintenance and troubleshooting
 - Password protected screens
 - Manual activation of valves/pumps
- Connectivity to system PLC Ethernet networks
- Communication with PC via PLC network



Model	Fusion Mini Mix
Applications	Acid, bases, oxidizers, slurry
Flow Rate	12 LPM
Pressure Control	+/- 0.3 psig
Flow-Based Blend Accuracy	+/- 0.1% relative
Wt-Based Blend Accuracy	+/- 1% relative
Footprint	30"Dp x 36"W x 80"H

Facility Requirement	Utilities
Ultrapure Water (UPW)	7 LPM
Clean Dry Air (CDA)	15 SCFM
Exhaust	200 SCFM
Process Drain	19 LPM
Power	208VAC
Cabinet Drain	Gravity





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