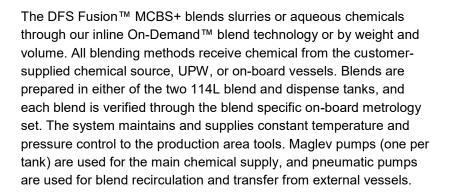
DFS FUSION™ MCBS+

FUSION

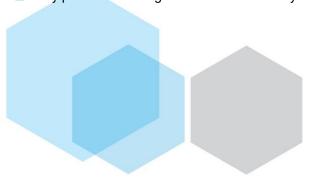


Mobile Chemical Blending System Plus, the Fusion MCBS+



Advantages

- Fully automated system
- Excellent R&D process development platform
- Low cost of ownership
- Space efficient design
- Flexible and user-friendly HMI
- > High blend accuracy
- Precise pressure control
- System and/or component redundancy to maximize production uptime
- > Fully portable allowing for maximum flexibility in placement











DATA SHEET

DFS FUSION™ MCBS+

Features

- Inline On-Demand blending
- Metrology for blend confirmation
- ▶ 114L HDPE blend/day tanks
- Precision 3-point load cells
- > Flow and pressure monitoring
- Automated system and tool flushing sequences
- Maglev pumps for tank and recirculation (1 per tank)
- 10-inch filter housings (2 per tank)
- DFS high efficiency proprietary blend cell
- Pneumatic pumps for vessel recirculation and blending
- Non-intrusive level sensors
- Verification of incoming chemical supply
- Maintenance points for system purging and draining
- Automated sampling chamber
- Solenoid valves with system force capability
- All wetted flow paths are PFA, PTFM, or PTFE
- On-board humidified N₂ system
- Polypropylene cabinet materials

Safety

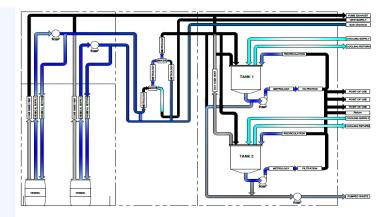
- Cabinet leak detection and alarming
- Cabinet exhaust monitoring and alarming
- Cabinet door interlocks
- Cabinet contains 110% of the largest volume
- Recirculating UPW spray gun for maintenance
- Waste pump for system draining and maintenance
- Local and remote EMO capability
- UL 508A Certified
- SEMI S2 Compliant

Options

- External vessel connections
- 2-part and 3-part blending modules
- Refractive Index, pH for blend confirmation
- Configurable global loop or three independent tool supplies
- PTFM lined tanks
- > 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
 - Pump runtime monitoring
 - Password protected screens
 - Manual activation of valves/pumps
- Connectivity to system PLC Ethernet networks
- Communication with PC via PLC network



Model	Fusion MCBS+
Applications	Acid, bases, oxidizers, slurry
Blend Supply	40 LPM
Flow Rate	40 LPM
Pressure Control	+/- 0.3 psig
Inline Blend Accuracy	+/- 0.1% relative
Wt-Based Blend Accuracy	+/- 1% relative
Footprint	29.5"Dp x 53.75"W x 75.5"H

Facility Requirement	Utilities
Ultrapure Water (UPW)	45 LPM
Nitrogen (N ₂)	175 SCFH
Clean Dry Air (CDA)	18 SCFM
Exhaust	150 SCFM
Process Drain	38 LPM
Power	208VAC
Cabinet Drain	Gravity





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For more information: www.dfsolution.com To speak to a representative: 208.489.0053 To request a quote: info@dfsolution.com