

DFS FUSION™ ON-DEMAND™ POU BLENDER

FUSION™ 

Compact Blender, the Fusion On-Demand POU Blender

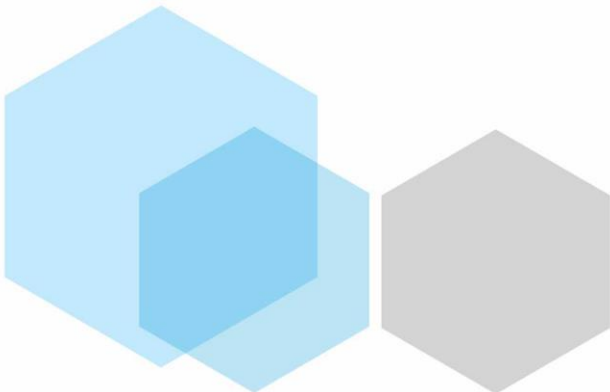


The Fusion On-Demand Point of Use (POU) Blender is a compact, configurable 2-part or 3-part blender. Through the On-Demand stream, DFS blend cell, and select analytics, the constituents are blended to drain until the target analytics have been validated. Once the target analytics are validated, the blend supply is diverted to the production tools point of use locations for a continuous supply of blended material. The system has the capability to supply up to 2 POU connection points. It also has the capability to automatically adjust the blend if the onboard analytics determine the blend to be out of specifications.



Advantages

- ▶ Excellent HVM platform
- ▶ Low cost of ownership
- ▶ High blend accuracy
- ▶ Precise pressure control
- ▶ Flexible and user-friendly HMI
- ▶ Automated system flushing
- ▶ Space efficient design
- ▶ Temperature monitoring
- ▶ Metrology alignment with the required blend
- ▶ Full blend configuration and manipulation



Chemical
Blending

DFS FUSION™ ON-DEMAND™ POU BLENDER

Features

- ▶ Inline On-Demand™ blending
- ▶ Metrology is selectable for blend confirmation; standards include conductivity and RI metrology
- ▶ Pressure and flow monitoring
- ▶ Automated flushing and drain sequences
- ▶ Maintenance points for system purging and draining
- ▶ Automated sampling chamber accessible from the front
- ▶ Solenoid valves with system force capability
- ▶ All wetted flow paths are PFA, PTFM, or PTFE
- ▶ Polypropylene cabinet materials
- ▶ Can produce temperature controlled blends with configurable blend ratio and flow
- ▶ Direct tool communication and designed to dispense blended chemical as required
- ▶ DFS high efficiency proprietary blend cell for homogenized mixing and linear flow smoothing
- ▶ Chem 1 + Chem 2, cold UPW, and hot UPW are bulk fed and controlled through programming, metrology, valving, and our DFS Mix Cell

Safety

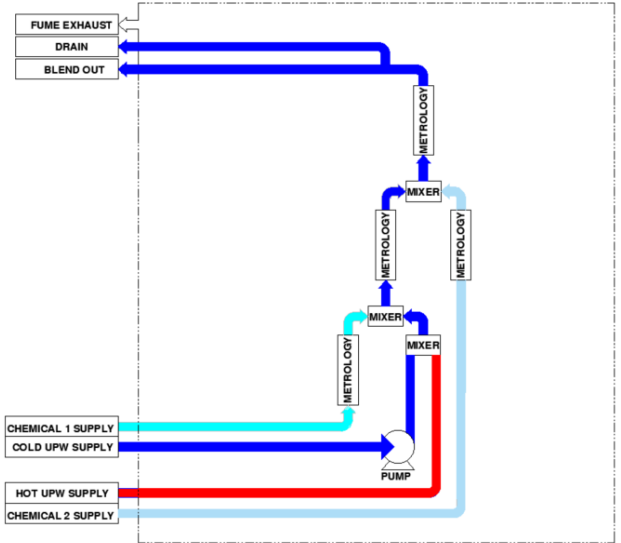
- ▶ Cabinet leak detection and alarming
- ▶ Cabinet exhaust monitoring and alarming
- ▶ Cabinet door interlocks
- ▶ Cabinet contains 110% of the largest volume
- ▶ Local and remote EMO capability
- ▶ Recirculating UPW spray gun for maintenance
- ▶ Waste pump for system draining and maintenance
- ▶ Bi-directional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

Options

- ▶ 2-part and 3-part blending modules
- ▶ Pressure vessel for variable flow requirements to tool
- ▶ Booster pump for the UPW
- ▶ FM4910 cabinet materials

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	On-Demand POU Blender
Applications	Acid, bases, oxidizers
Flow-Based Blend Accuracy	+/- 0.1% relative
Blend Supply	10 LPM
Footprint	30"Dp x 36"W x 80"H
Facility Requirement	Utilities
Ultrapure Water (UPW)	12 LPM @ 45 psi +/- 5psig
Hot Ultrapure Water (UPW)	12 LPM @ 45 psi +/- 5psig
House Chemical Supply	12 LPM @ 45 psi +/- 5psig
Nitrogen (N ₂)	200 SCFH
Clean Dry Air (CDA)	8 SCFM
Exhaust	80-140 SCFM
Process Drain	12 LPM
Power	120VAC
Cabinet Drain	Gravity



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