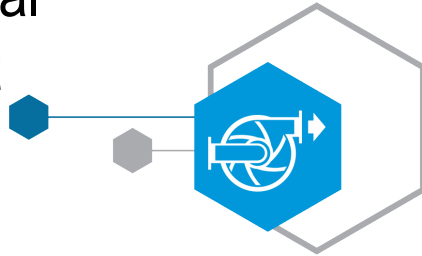


# DFS TITAN™ SOLVENT CDU



## Solvent Chemical Distribution Unit (CDU)



The DFS Titan™ Solvent CDU is a closed loop pressure controlled pump delivery system that transfers chemical from one or more interchangeable vessels to an external distribution tank. The system maintains continuous chemical pressure control to production areas and includes automated sampling and an internal waste pump.

### Advantages

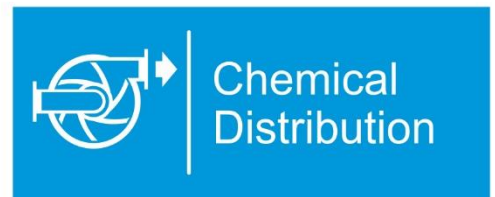
- Fully automated system
- Low cost of ownership
- Flexible and user-friendly HMI
- Space efficient design
- System and/or component redundancy as required to maximize production uptime
- High flow system



*Control Cabinet and Solvent CDU*



*Optional Transfer/Pumping Module*



# DFS TITAN™ SOLVENT CDU

## Features

- ▶ SS EP external distribution tank
- ▶ Pressure and flow monitoring
- ▶ Redundant pumps
- ▶ Tank level monitoring
- ▶ 2-4 parallel 10-inch filter housings
- ▶ Automated DFS sample chamber
- ▶ Maintenance points for system purging and draining
- ▶ Solenoid valves with system force capability
- ▶ All wetted flow paths are SS or PFA
- ▶ 304 Stainless Steel cabinet materials

## Safety

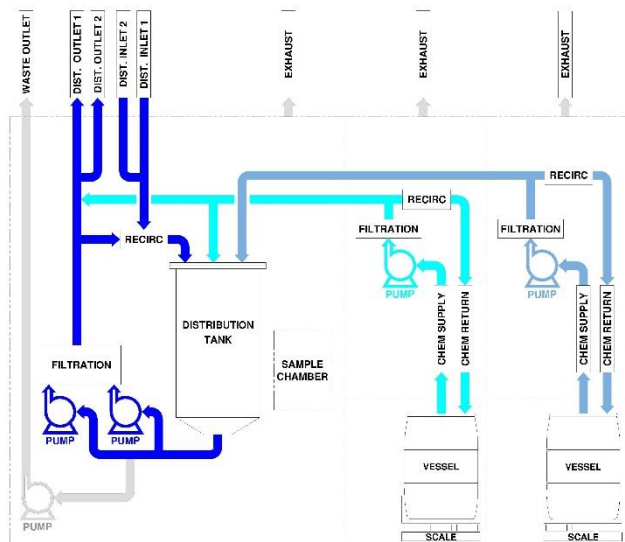
- ▶ Cabinet leak detection and alarming
- ▶ Cabinet exhaust monitoring and alarming
- ▶ Cabinet door interlocks
- ▶ Cabinet contains 110% of the largest volume
- ▶ Waste pump for system draining and maintenance
- ▶ Bi-directional vent to prevent chemical off-gassing
- ▶ Local and remote EMO capability
- ▶ Wire-infused safety glass windows
- ▶ Class 1 Div 2 components in wet section of system (with Z-Purge)
- ▶ Intrinsic Safety Barriers that limit the power (energy) that can be delivered from a safe area into a hazardous area
- ▶ Grounding throughout the system to eliminate ESD potential
- ▶ UL 508A Certified
- ▶ SEMI S2 Compliant

## Options

- ▶ Bulk chemical supply
- ▶ Single or dual vessel feed system
- ▶ Dual Vessel pumping cabinet
- ▶ Dual loop supply
- ▶ 20-inch filter housings
- ▶ Temperature monitoring and control
- ▶ Metrology to monitor loop supply
- ▶ Refractive index for QC operations
- ▶ External distribution tanks (SS or Teflon lined)
- ▶ 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	Titan Solvent CDU
Applications	Solvents
Flow Rate	40-60 LPM
Footprint	40"Dp x 93"W x 87"H
Tank	Stainless steel or PFA

Facility Requirement	Utilities
Nitrogen (N <sub>2</sub> )	720 SCFH
Clean Dry Air (CDA)	15 SCFM
Exhaust	250-375 SCFM
Process Drain	38 LPM
Power	208VAC
Cabinet Drain	Gravity



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