Bulk Chemical Unload Transfer Station (BCUTS)

Standard Features

- 4ea. 25 GPM rated pumps (12.5 GPM per pump with DI @ outlet)
- Dual pump configuration with redundancy / backup programming (backup programming requires the PLC option)
- Fluid paths; 440/450 PFA & PTFE -- 2" valving / plumbing Dual 20" filters (parallel filtration)
- Filter (pre/post) pressure gauges
- Chemical present detection
- Supplied with terminal blocks for easy control and monitoring connections
- Chemical (bottle) sample station
- Door interlock(s)
- Cabinet lighting (sealed)
- Cabinet leak containment
- Leak detection / 3/4" drain

Options

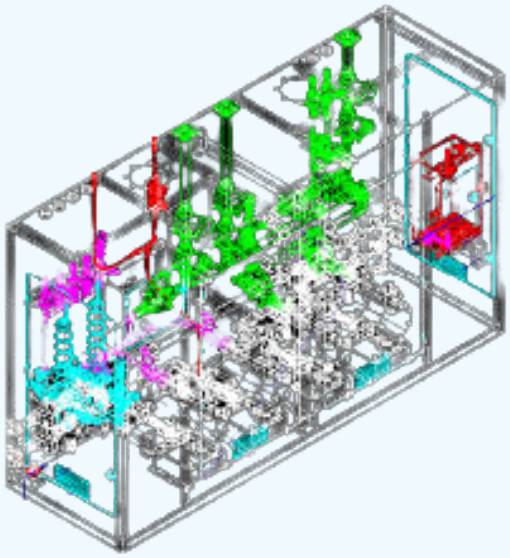
- FRPP or CP7D cabinet
- PLC control package
- Pump pulse dampener
- Pump leak detection
- DI & N2 pump purge
- Digital filter pressure gauges
- Auto filter vent
- DI & N2 system flush
- Analog chemical monitor
- Exhaust monitor
- Adjustable chemical output pressure
- System status tower
- Temperature monitor
- N2 pressure (tanker) unload
- N2 PSI switch
- CDA PSI switch
- DI Spray gun
- Aspirated drain

Application

- Application: Tanker unload and chemical distribution system
- Chemical compatibility: Acids / Bases / Caustics
- Materials of construction: Polypropylene cabinet with clear PVC doors
- Built to SEMI S2-0200 & S8-0999 codes

Reliability

Uptime >99%
MTBF: >2500 hrs
MTBA: >1000 hrs
MTTR: <30 minutes
MTBS: >300 hrs



Facility Requirements

Power	115 VAC	15 amps	
DI Water (Spray gun) DI Chem Purge	Optional Optional	2 GPM/≈20 psig 3 GPM/20-40 psig	1/2" Flaretek - PFA 1/2" Flaretek - PFA
N2 (Purge) N2 Chem Purge	40 - 60 psig (Optional	2 CFM 6 CFM/40-60 psig	1/4" Swagelok bulkhead 1/2" Flaretek - PFA
CDA (Pump)	100 - 125 psig	8 CFM	3/4" Swagelok bulkhead
CDA (Control)	100 - 125 psig	6 CFM	3/4" Swagelok bulkhead
Drain	0 psig	2 GPM	3/4" FNPT
Exhaust	0.5-3.0 in. WC	30 - 60 CFM	8" ANSI flange pattern
Plumbing Interface	Inlets & Outlets	2" Purebond union	4" ANSI flange pattern
Dimensions	77 1/2" high	130" wide	40" deep
Weight	≈1800 lbs		

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