

High Purity Bulk Chemical Delivery



Chemical Delivery Unit (CDU)

The CDU is a dual 55-gallon drum delivery system designed to continuously provide chemical solution without interruption. Its design allows for automatic switch over between the dual drums and automates bath fill for precise delivery of chemicals to the process tool. The system is networkable with the Master Delivery Unit for complete system monitoring and control.

The CDU features an 8" color touch screen that graphically displays all aspects of chemical delivery. It also optionally supports dual chemistry dispense capability for handling two distinct chemistries if required.

Safety and Compliance

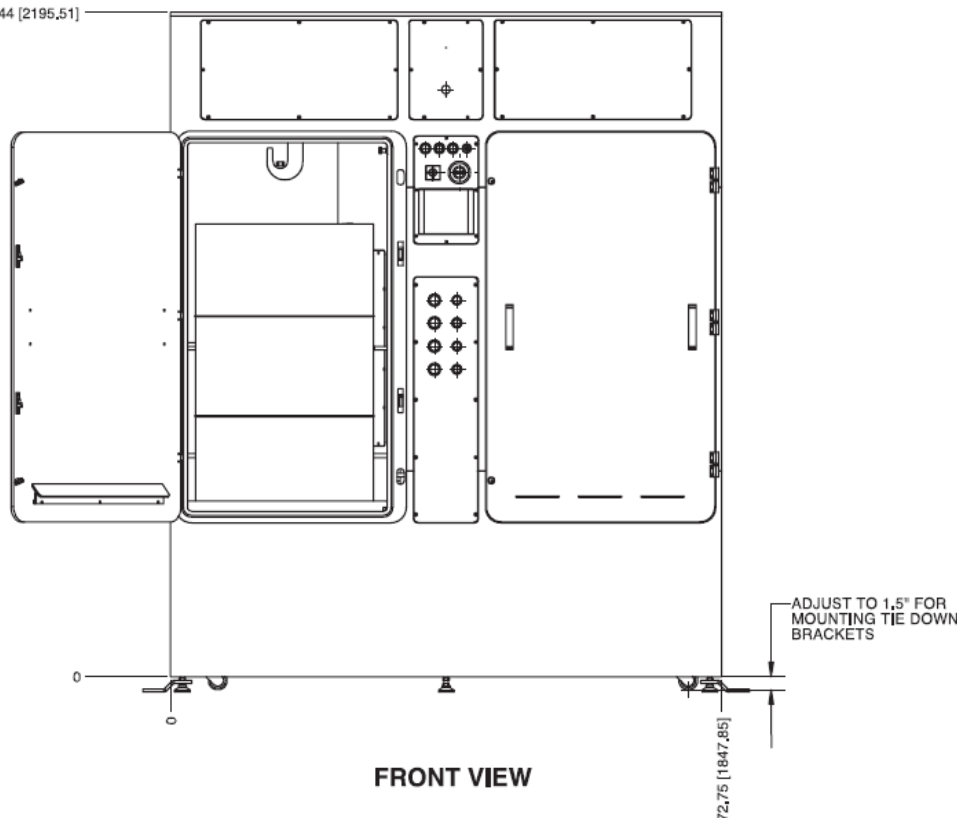
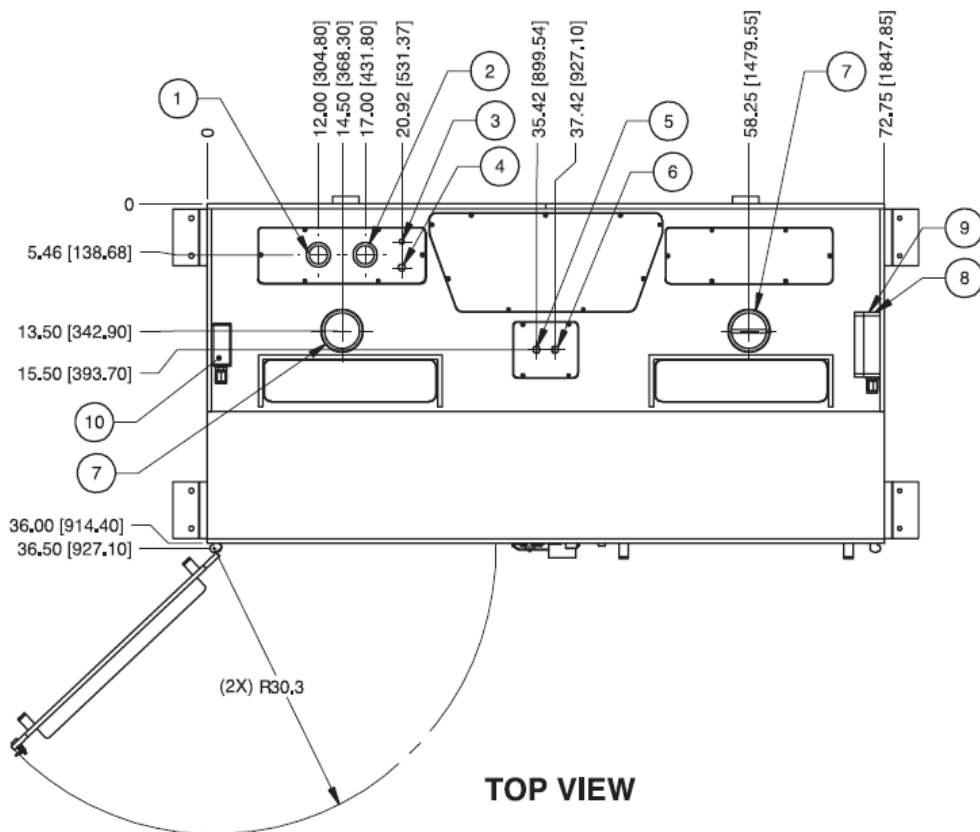
The CDU includes extensive safety features and is compliant with SEMI S2-0200 and S8 standards. It meets National Electric Code and National Fire Protection Association requirements, and can optionally be CE marked. The cabinet is constructed from polypropylene with 110% spill containment and includes automatic sensing for warnings and shutdowns.

Purity and Performance

Chemical purity is preserved through automatic switchover for continuous delivery, high purity materials for all wetted surfaces, process chemical filtration, and DI water flush and nitrogen dry systems for cleaning and servicing.

Key Features

- ◆ Programmable PLC with integrated touchscreen
- ◆ Facility dry contacts to communicate with your system
- ◆ Isolated delivery pumps separate from the drum area
- ◆ Automatic switch over from empty drum to full drum to minimize downtime (for single chemical configuration only)
- ◆ Exhausted dual contained drum and pump area with leak detection
- ◆ Interlocked front doors
- ◆ Capable of single chemical or dual chemicals
- ◆ Drum heads are drip free and keyed
- ◆ All high purity fluid path
- ◆ Cabinet constructed from polypropylene or FM 4910 materials
- ◆ Over 99% Availability
- ◆ OEM Approved Systems
- ◆ PTFE pneumatic pumps



PERFORMANCE SPECIFICATIONS

Drum Capacity	Dual 55 gallons
Process Flow	
Flow Rate	10 gpm
Flow Pressure	40 psi
Reliability	
Availability	> 99 hours

FACILITIES SPECIFICATIONS

Chemical Outlet (MDU)	3/4" flaretek(primary) 1.5" FNPT (D.C.)
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DI Water Return	1/4" flaretek
DI Water Inlet Pressure	45 psi (0.62 mpa) +/-15 psi (0.1 mpa)
DI Water Inlet Flow	3 gpm (11.4 lpm) 1/2" flaretek
CDA Inlet Pressure	100 psi (0.69 mpa) +/-20psi (0.1 mpa)
CDA Inlet Flow	5 scfm (141.6 lpm) 1/2" compression
Nitrogen Inlet Pressure	90 psi (0.69 mpa) +/-10psi (0.07 mpa)
Nitrogen Inlet Flow	5 scfm (141.6 lpm) 1/2" compression
Exhaust	4" O.D. pipe 65 scfm (1840) at .5 water
Remote E-Stop	2 - wire, 18 awg AMP CPC 14-PIN
Remote, Host	6 - wire, 18 awg AMP 9 PIN D-SUB
Electrical Power	120/208 +/-10% VAC, 15 A, 50/60 HZ 1-Phase, .5 EMT
Ethernet Communication	10 MBPS, RJ45, 8-wire
Enclosure Drain Flow	2 gpm (7.5 lpm) max at 95 ft (29.0 m) of head pressure
Enclosure Drain	1/4" flare primary, 1/2" flare D.C.
Overall Dimensions	88.25 H x 72.75 W x 36 D in (224 x 185 x 91 cm)

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