



MultiChem

Carboy Bulk Chemical Delivery & Reclaim Systems



MultiChem: Point-of-Use, Delivery

At MEI our reputation is built upon our commitment to outstanding customer service.

MEI Chemical Handling & Delivery Systems for Wet Processing Systems

- **DrumChem:** Localized drum chemical delivery system for wet process systems. Modular, drum chemical delivery and recapture system, with on-demand controls.
- **FlexChem:** Flexible chemical delivery system for bulk use. Entry cost system with full upgradability to add future bulk chemicals for dynamic environments.
- **MultiChem:** Drum free for smaller systems with localized needs, providing drain free recapture capability. Use of five gallon carboys reduces chemical costs.
- **BottleChem:** Bottle chemical delivery for automated process spiking in smallest possible size at minimal cost for low consumption applications.
- **Chemical Transport Carts and Trucks:** Unique solutions designed for drums or bottles.

Point-of-Use Delivery & Reclaim

MEI's MultiChem Systems provide chemical delivery capability for smaller systems, while providing recapture (reclaim) capability via use of five-gallon chemical carboys.

- **Efficient.** With carboy bottle delivery and reclaim.
 - Low cost alternative to 55-gallon drum systems
 - Eliminates use of bottle systems and manual pours
 - Chemical recapture capability
 - No spill quick disconnects
- **Versatile.** For multiple chemicals with tight controls.
 - Delivers multiple chemicals using five-gallon carboys
 - Graphical touchscreen control with MEI IDX Automation Software
- **Tailored.** MEI creates systems to fit your chemical process needs and production floor design.
 - Filtration, recirculation, and pump options
 - Remote control interface
 - Multiple modules can be operated from single wet station or controller
- **Designed for Safety and Maintainability.**
 - Conforms to SEMI-S2 standard with dual containment
 - Internal spill and leak detection
 - Local EMO shut down
 - Carboy bottle presence and liquid level detection
- **Reliable.** Field proven design and safety measures.
 - Nitrogen purged electronics compartments
- **Supported.** MEI provides award winning service, installation and support.

MEI Products and Services

- Wet Process Systems
- Chemical Delivery & Handling Systems
- IDX Control Automation Software
- Used Semiconductor Systems Reconditioning
- Clean room Safety & Ergonomic Equipment
- Field Repair & Service



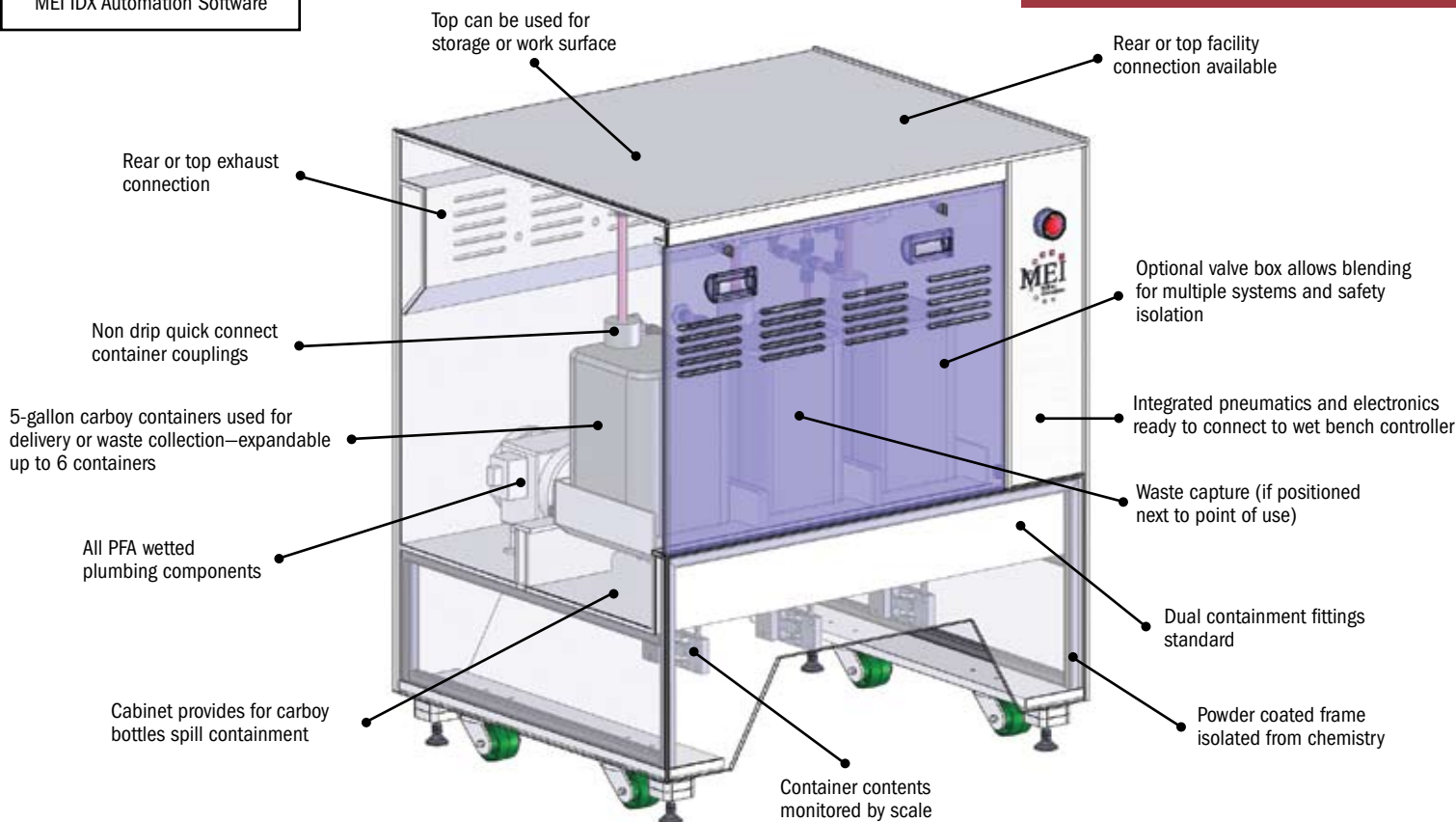
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MultiChem

Uses wet station controller or
MEI IDX Automation Software



Specifications

Control Console

- Standardization of electrical design for UL
- Minimal electrical interconnects
- Simple AC plug 110V operation
- Visual indication of alerts with EMO
- Low maintenance required
- Leak sensor inputs
- Highly accurate delivery with small volumes of chemicals using scales or optional tank sensors

- Multiple modules can be operated with single wet station or controller

Options

- Choice of materials: FM4910 (Halar, CPVC, PVDF), polypropylene or stainless steel
- Multiple carboys of the same chemical possible with automatic switchover

Facility requirements

- Waste capture (possible only when positioned next to point of use)
- Can be operated without valve boxes for two delivery points
- Facility connections on back wall, side or roof
- Dual containment fittings standard for each cabinet
- Max delivery pump up to 50 feet—maximum 15 feet head of back pressure

Description

Description	Connection	Requirement
Exhaust	4" ID duct	100 CFM @ 1" static pressure
CDA supply	1/2" Swagelok	60–80 psi 50 SCFM
Cabinet drain	2" MNPT pipe	Max 2" off floor height
Chemical output	1/2" Flaretek dual containment	N/A
Acid drain	1/2" Flaretek dual containment	Max 2" off floor height
Main power	3-Wire 20 Amp	120 Vac FLA 15
Communication	From MEI supplied control cabinet	N/A