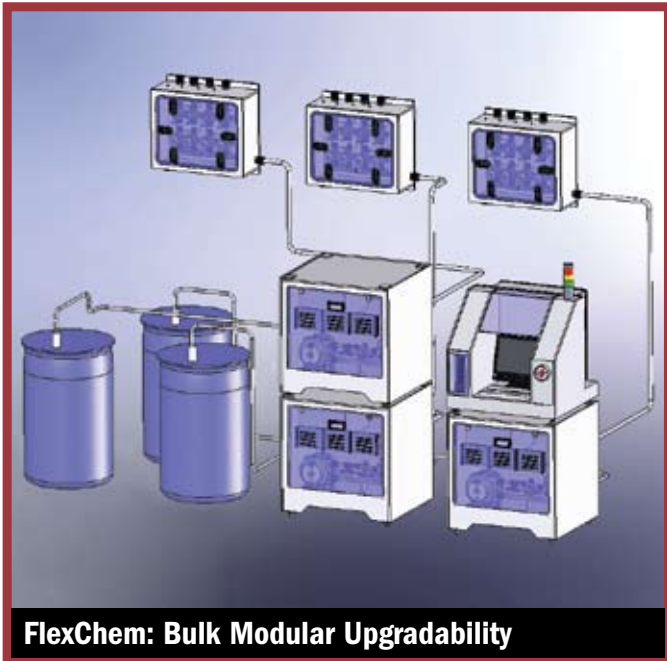




# FlexChem

## *Bulk Chemical Delivery & Reclaim Systems*



**FlexChem: Bulk Modular Upgradability**

*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.

### Modular Upgradability

MEI's FlexChem systems are chemical room compatible entry level bulk systems designed for expandability and changing needs. FlexChem eliminates costs and waste of bottle systems.

- **Tailored.** MEI creates systems to fit your chemical process needs.
- **Flexible and Upgradable.** MEI's modular design is easy to install and expand.
  - Scalable to fit future needs with minimal cost
  - Pump cabinet designed for flexibility and replication
  - Valve boxes with additional outputs for expansion
- **Small and Modular.**
  - FlexChem controller provides a complete control solution in a small package
  - Stackable modules and consoles
- **Production Ready.** Quality, ergonomics and safety are designed and built right in.
  - Easy to navigate touchscreen controls
  - Space efficient in tight workspaces
- **Designed for Safety and Maintainability.**
  - Designed to conform to SEMI-S2 standard
  - Internal spill and leak detection
  - Local EMO shut down
  - Easy access for maintenance
- **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 Processing Systems
- Chemical Delivery & Handling Systems
- IDX Control Automation Software
- Used Semiconductor Systems Reconditioning
- Cleanroom Safety & Ergonomic Equipment
- Field Repair & Service



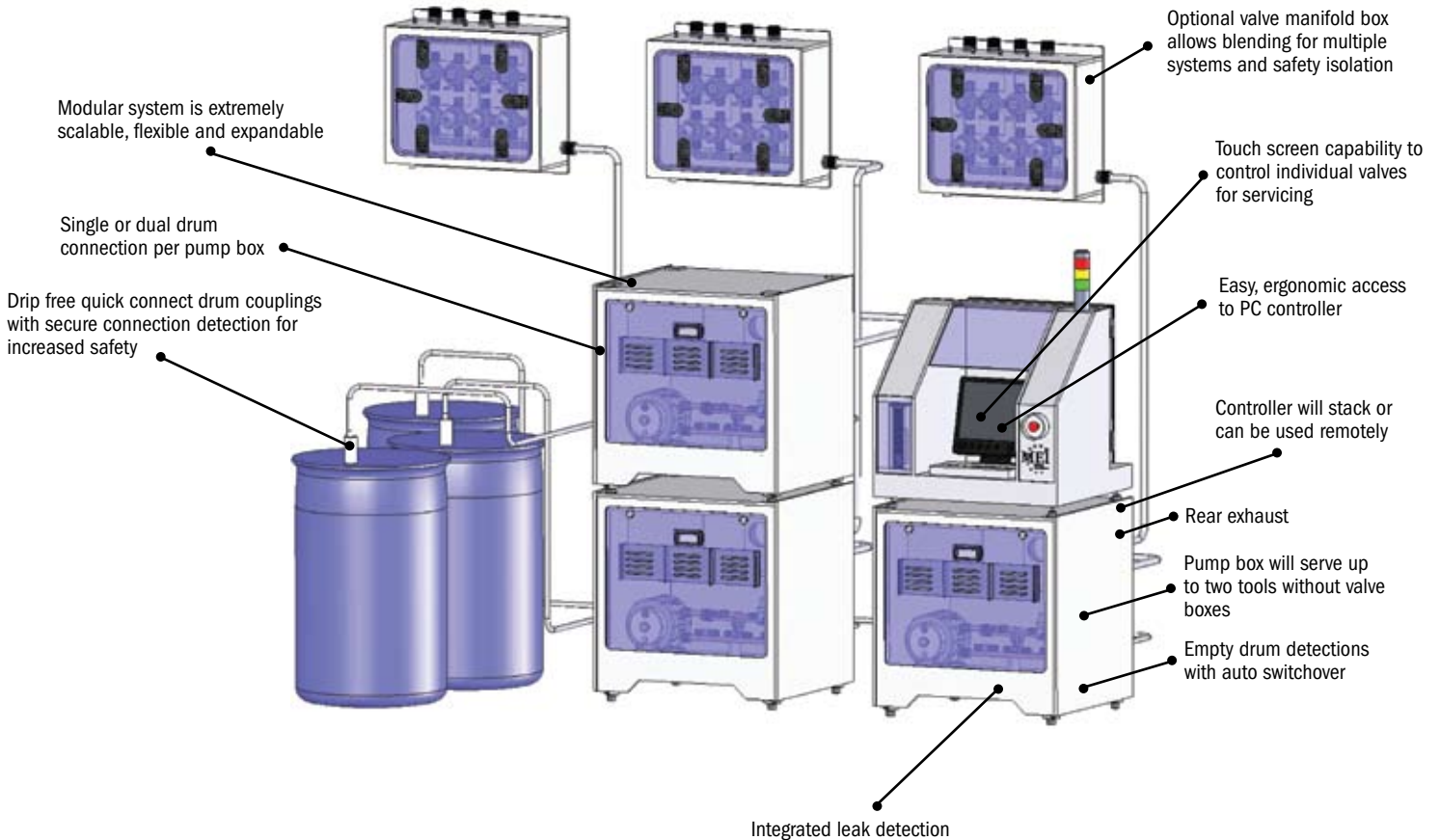
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## FlexChem

Uses wet station controller or  
MEI IDX Automation Software



## Specifications

### Control Console

- Standardization of electrical design for UL
- Positioning on tabletop or stackable on pump cabinets
- Minimal electrical interconnects
- Simple AC plug 110V operation

- Visual indication of alerts with EMO
- Low maintenance required
- Leak sensor inputs
- Standardization within incremental limits to allow greater chemical delivery capacity
- Lock out tag out requirements require isolation when various services are performed
- Valve boxes allow for continued operation of other tools, reducing downtime

### Options

- Max pump delivery up to 250 feet
- Mode of leak detection
- Additional outputs for future expansion
- Choice of materials: FM4910 (Halar, CPVC, PVDF), polypropylene or stainless steel
- Drum recirculation filtration

### Facility requirements

- Can be operated without valve boxes for two delivery points
- Facility connections on back wall
- Dual containment fittings standard for each cabinet
- Optional max delivery pump up to 250 feet—maximum 15 feet head of back pressure
- Single or dual drum systems possible for each pump cabinet

Description	Connection	Requirement
Exhaust	4" ID duct	70 CFM @ 1" static pressure
CDA supply	1/2" Swagelok	80 psi 30 SCFM
Cabinet drain	2" MNPT pipe	Max 2" off floor height
Chemical output	1/2" inside 3/4" 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