

## MEC35 CIP Units



Portable or stationary, fully automated, Clean in Place (CIP) units for drug manufacturers within solid (oral) dosage forms, chemical API and cosmetics (OLC) industry segments.

The MEC35 CIP units are specifically designed for mid-sized to large manufacturing, R&D and product development facilities for applications, such as:

- Fluid bed dryers
- Blenders
- Hi/low shear mixers
- Coating pans
- Spray drying equipment
- Cyclones
- Reactors
- IBCs
- Formulation & holding vessels
- Other...

The MEC35 CIP units are based upon McFlusion's unique modular hardware & software platform that provides full TACCT cleaning performance and flexibility for effective, consistent and lean operation.

- Suited for cleaning of mid-size to large, stand-alone, process equipment
- Full TACCT cleaning performance & flexibility
- Compact, portable or stationary, skid
- Designed for your difficult-to-clean equipment and hard-to-remove products
- McFlusion recipe editor for effective CIP cycle development & process execution
- Simple, easy to use, controls

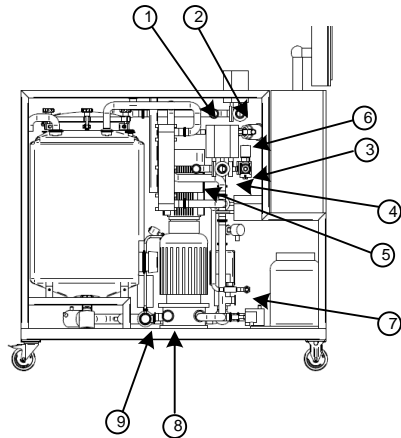
## MEC35 CIP Units - Specifications

MEC35 CIP units	
<b>Process &amp; Mechanical</b>	Buffer Vessel: Single tank, 100 Gallons Vent atmospheric
	CIP Supply: CIP Supply Pump, < 175 psig @ 75 gpm Frequency controlled
	Heating Options: Steam heating Electrical heaters
	CIP Return: CIP Return Pump, < 75 gpm Divert valve arrangement for true re-circ and single pass to drain
	Chemicals: Manual addition of chemicals Optional: Automatic dosing of up to two (2) detergents w/ chemical concentration verified by high range conductivity
	Instrumentation: Level; CIP buffer vessel Pressure, flow and temperature; CIP supply Optional: High range conductivity; Chemical concentration Optional: Low range conductivity; Final rinse verification
	Materials: Product Contact: AISI 316L, mech polish to RA 25 µin FDA approved Non product contact: AISI 304
<b>Controls</b>	Fully Automated: Allen-Bradley PLC unit 6" HMI panel GAMP5 Standard Software
<b>Dimensions &amp; Weight</b>	Length: 63" / 161 cm      Height: 56" / 142 cm Width: 30" / 78 cm      Weight: 685 lbs / 310 kg
<b>Documentation</b>	Standard Hardware & Software Specification Documentation Operator manual Package: Technical documentation

### Available Options:

- CIP return pump module
- Automatic detergent dosing
- High range conductivity measurement
- Electrical heating elements
- Final rinse conductivity measurement
- Purge module w/0.2 micron filter
- Data Collection System (DCS)
- Upgrade to 12" Win7 touch screen panel

## MEC35 CIP Units - Utilities & Connections



Baseline Utility & Process Connections		
1	Water #1	min 20 GPM @ 20 psi
2	Water #2	min 20 GPM @ 20 psi
3	Compressed air	min 90 psig
4	CIP supply 1	<75 GPM @ 175 psi
5	CIP supply 2	<75 GPM @ 175 psi
6	Plant steam	min 15 psi, 100 lbs/hour
7	Condensate	<100 lbs/hour
8	CIP return	< 60 GPM
9	Drain	< 60 GPM
10	Power	3 x 480 N+PE, 60 Hz, 40/60 Amps
Optional Utility & Process Connections		
	Purge	Kiln drain

### Other Cleaning Related Equipment & Services:

- Dynamic, high impact, spray devices
- Formulated detergents
- Equipment Commissioning & Start-up
- Training
- Preventive maintenance
- Spare parts
- Phone support & emergency repairs
- CIP cycle development



## Contact Us

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