

## MEC30 CIP Units



Portable or stationary, semi-automated, Clean in Place (CIP) units for solid (oral) dosage forms, cosmetics, chemical APIs and specialty foods facilities that historically have cleaned process equipment manually, but want to upgrade to a more effective & consistent cleaning process.

The MEC30 CIP unit represents the perfect solution and tool for upgrading from manual to semi-automated cleaning for mid-sized to larger applications, such as:

- Glove box isolators
- Holding & transfer vessels
- Mixing tanks
- Reactors
- Utensils washers
- Blenders
- Transfer lines
- Other



The MEC30 CIP Units are compact skids that are based upon McFlusion's unique modular hardware platform – allowing multiple different configurations to best meet your requirements.

The MEC30 CIP Units are simple-to-use, semi-automated, and provide full TACCT cleaning performance and flexibility – making them perfectly suited for a wide variety of cleaning tasks.

- Perfect tool for flexible and effective cleaning of various applications
- Full TACCT cleaning performance & flexibility
- Compact, portable or stationary, skid
- Designed for your difficult-to-clean equipment and hard-to-remove products
- Simple, semi-automated, control and operation
- Manual readouts of critical cleaning parameters

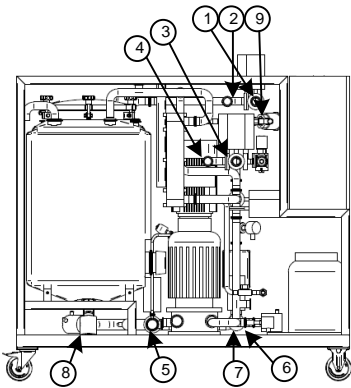
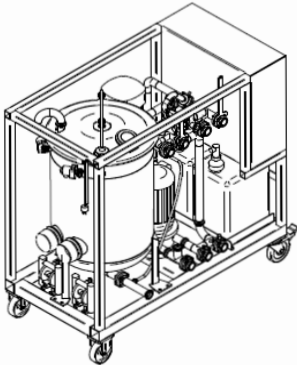
## MEC30 CIP Units - Specifications

MEC30 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 Plate type HX Electrical heaters
	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, FDA approved Non product contact: AISI 304
<b>Controls</b>	Manual:	Start/stop push buttons for pumps Dial button to control CIPS pump speed (pressure/flow) Display for instrument values & feedback (process values)
<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 Documentation Package:	Hardware & Software Specification Operator manual Technical documentation

### Available Options:

- CIP return pump module
- Semi-automated detergent dosing
- High range conductivity readout
- Electrical heating elements
- Final rinse conductivity readout
- Purge module
- Multiple CIPS zones
- Upgrade to fully automated CIP unit, MEC35

# MEC30 CIP Units - Utilities & Connections



Baseline Utility & Process Connections		
1	Water inlet #1	min 20 GPM @ 20 psi
2	Water inlet #2	min 20 GPM @ 20 psi
3	CIP supply 1	<75 GPM @ 175 psi
4	CIP supply 2	<75 GPM @ 175 psi
5	Optional: CIP return	<60 GPM
6	Drain	<60 GPM @ 20 psi
7	Optional: kiln drain	<60 GPM @ 20 psi
8	CIP vessel drain	<60 GPM @ 20 psi
9	Optional: purge	<30 cfm @ <45 psi
10	Power	3 x 480 N+PE, 60 Hz, 30/60 Amps
Optional Utility & Process Connections		
	CIP return	Kiln drain
	Purge	Steam & condensate

## Other Cleaning Related Equipment & Services:

- QA documentation packages
- Preventive maintenance
- Commissioning & SAT
- Spare parts
- Equipment Qualification (IQ/OQ)
- Phone support & emergency repairs
- Cleaning validation support
- CIP cycle development



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