

MEC20 CIP Units



Portable or stationary, semi-automated, Clean in Place (CIP) units for R&D and product development facilities that are accustomed to clean process equipment manually – not only due to ever changing & challenging cleaning requirements but also due to limited budgets for capital equipment.

The MEC20 CIP unit represents the perfect solution and tool for upgrading from manual to semi-automated cleaning for smaller to mid-sized applications, such as:

- Glove box isolators
- Holding & transfer vessels
- Mixing tanks
- Reactors
- Small utensils washers
- Blenders
- Other

The MEC20 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 MEC20 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

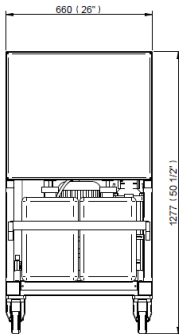
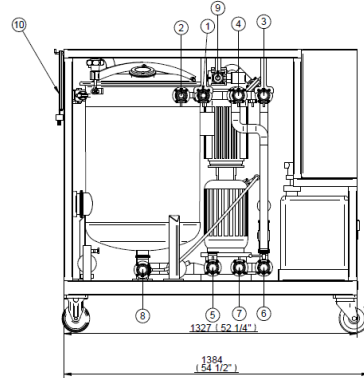
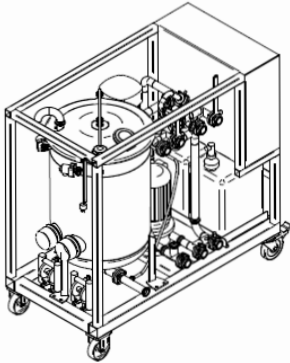
MEC20 CIP Units - Specifications

MEC20 CIP Units	
Process & Mechanical	Buffer Vessel: Single tank, 40 Gallons Vent atmospheric
	CIP Supply: CIP Supply Pump, < 150 psig @ 45 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
Controls	Manual: Start/stop push buttons for pumps Dial button to control CIPS pump speed (pressure/flow) Display for instrument values & feedback (process values)
Dimensions & Weight	Length: 53" / 135 cm Height: 50" / 130 cm Width: 26" / 65 cm Weight: 450 lbs / 205 kg
Documentation	Standard: Hardware & Software Specification Documentation: Operator manual Package: 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, MEC25

MEC20 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	<45 GPM @ 150 psi
4	CIP supply 2	<45 GPM @ 150 psi
5	Optional: CIP return	<45 GPM
6	Drain	<40 GPM @ 20 psi
7	Optional: kiln drain	<40 GPM @ 20 psi
8	CIP vessel drain	<40 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:

- Equipment training
- Preventive maintenance
- Commissioning / SAT
- Spare parts
- Spray devices & adapters
- Phone support & emergency repairs
- Formulated detergents
- CIP cycle development

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