

....the next step after manual cleaning



R&D and product development facilities have been used to clean their equipment manually due to the ever changing & challenging cleaning requirements.

Our CIP unit, MEC20, is a simple-to-use, semi-automated, cleaning system that is designed as a compact, portable, unit providing full TACCT cleaning performance, and operational flexibility.

- Simple, semi-automated, control and operation
- Compact, portable, unit
- Full monitoring of critical process parameters
- Suited for cleaning of stand-alone process equipment
- Full TACCT cleaning performance & flexibility

Typical uses & applications:

API (Chemical):

- IBCs
- Drums & bins
- Reactors

Specialty Foods:

- Cone & V-blenders
- Drums & IBCs
- Mixing tanks

Solid (oral) Dosage Form:

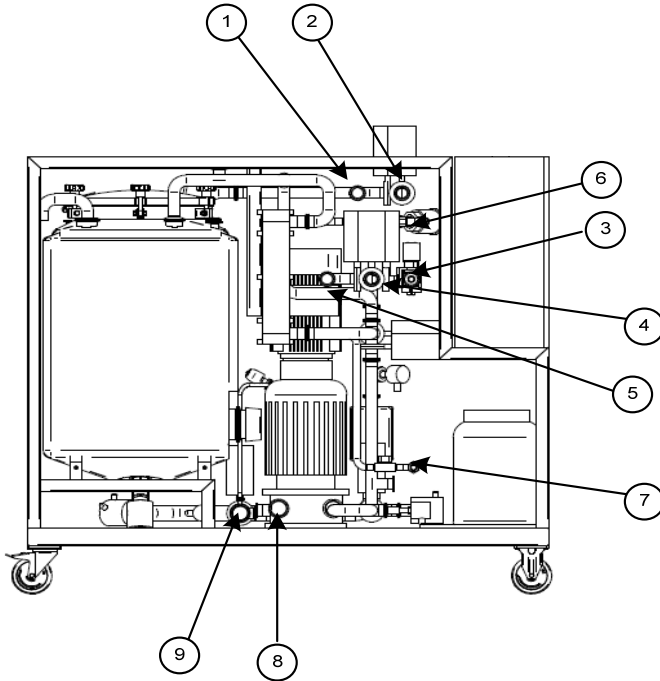
- Fluid Beds
- Coating pans
- High shear mixers

CIP unit, MEC20

Process & Mechanical	Tank	Single tank	Volume:	40 gallon /150 Liter
		atmospheric		
	Supply	CIPS pump	Pressure:	<150 psi /10 bar
		Frequency controlled	Flow	<45 gpm /<170 lpm
	Heating	Steam heating	Temp.:	<200 °F /<95°C
		Plate type HX	Electrical heating module available	
	Chemicals	Manual addition	Automatic dosing module (-s) for up to two (2) chemicals available	
		Manual mixing		
Instrumentation	Level, Pressure, Flow	High range and/or low range conductivity (ies) available		
	Temperature, Timer			
Materials	Product contact	AISI 316L, FDA approved elastomers		
	Non product contact	AISI 304		
Controls	Manual	Start/stop push buttons for pump (-s)		
		Dial button to control CIPS pump speed (pressure/flow)		
		Handles for valve operation		
		Display for instrument values & feedback (process values)		
Dimensions & Weight	Length:	53" / 135 cm		
	Width:	26" / 65 cm	Compact frame	
	Height:	50" / 130 cm	Four (4) wheels	
	Weight	450 lbs / 205 kg		
Documentation	Standard documentation package	PID, Layout drawing, Operator manual, Electrical Schematics		
		Manufacturing Certificate, General Material Certification		

Available Options:

Our MEC20 CIP units are highly configurable and can be delivered with various optional modules, such as CIP Return pump, electric heaters, detergent dosing for up to two formulated detergents, etc.....or in complete custom designs!

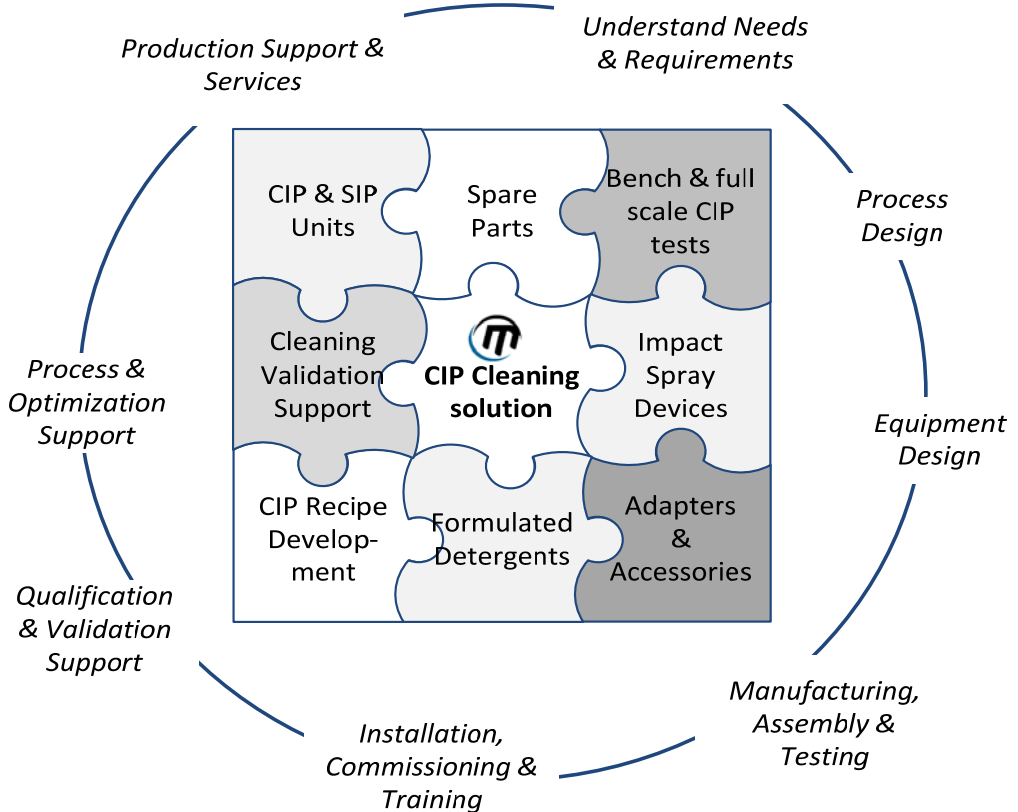


1	USP water	min 20 GPM @ 20 psi
2	Process water	min 20 GPM @ 20 psi
3	Compressed air	min 90 psig
4	CIP supply 1	<45 GPM @ 150 psi
5	CIP supply 2	<45 GPM @ 150 psi
6	Plant steam	min 15 psi, 100 lbs/hour
7	Condensate	<100 lbs/hour
8	CIP return	<45 GPM
9	Drain	<45 GPM
10	Power	3 x 480 N+PE, 60 Hz, 40/60 Amps

Other Cleaning Related Equipment & Services:

- Dynamic, high impact, spray devices
- Formulated detergents
- Spare parts
- Preventive maintenance
- CIP cycle development
- Phone support

We specialize in providing complete (life-cycle) process solutions for cleaning and sterilization that are performance based & result oriented.....



...our services & equipment solutions optimize production through increased plant utilization, decreased fluid usage and labor-hours, minimize risks and meet all regulatory requirements.

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