



**SANI-MATIC**

## UltraFlow™: Powerful CIP in a Compact, Portable Design.



UltraFlow 110

UltraFlow 45

**The Sani-Matic UltraFlow** is a self-contained, compact and portable Clean-In-Place (CIP) System programmed to accommodate a variety of recirculated CIP applications. Designed for critical cleaning, the UltraFlow meets cGMP and ASME-BPE standards.



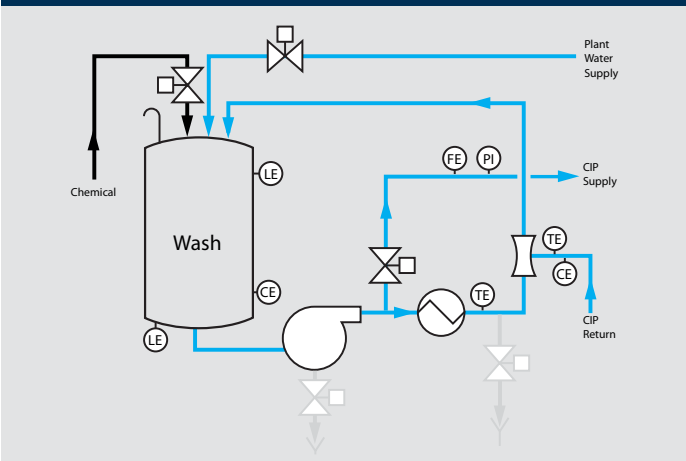


The Sani-Matic UltraFlow needs a mere 6 gallons of water to operate vs. conventional CIP Systems, which must maintain a significant quantity of water in the supply tank to prevent pump cavitation.

## Advantages

- **Small Footprint.** Space-saving design for installations with limited floor space. Fits through standard doorways with ease.
- **Wide Operating Range.** The systems range from 2–45 gpm and 5–110 gpm and are able to clean small and large applications
- **Self-Cleaning.** Self-cleans without extra steps, and eliminates cross-contamination.
- **Portable.** Positioned on low-friction casters for easy movement between process suites. No expensive supply and return line installation required.
- **Water & Chemical Savings.** The high-turbulent flow rate and low water requirements for operation reduce the amount of water and chemicals needed for a complete clean.
- **Low Outlets? No Problem.** Returns solutions with entrained air to accommodate vessels with low and restricted outlets.

### UltraFlow Schematic



## Documentation

### Standard

- Operation and maintenance manuals
- Recommended spare parts list
- Instrument list
- Instrumentation calibration procedures
- Performance data
- Material certificates
- Weld qualification and inspection records
- Inspection test results, reports and certificates
- Component catalog cut sheets
- As-built assembly drawings
- As-built process and instrumentation diagrams
- As-built electrical drawings
- PLC and HMI application files

### Optional

- Functional Specifications (FS)
- Configuration Specification (CS)
- Factory Acceptance Test (FAT)
- Site Acceptance Test (SAT)
- Installation and Operation Qualification (IQ/OQ)
- Traceability matrix
- ISA data sheets
- Cleaning and passivation report
- Digital weld video record (Borescope)
- Printer
- Hydrostatic test certificate
- ASME data for heat exchanger
- Riboflavin coverage test

## Features



### UltraFlow 110

- 74" L x 33" W x 80" H (height may vary with options)
- Operating range of 5–110 gpm @ 60 psi
- Electric or steam heat
- For process tank diameters up to 10'
- For process line diameters up to 3"
- Mass flow meter



### UltraFlow 45

- 68" L x 24" W x 74" H (height may vary with options)
- Operating range of 2–45 gpm @ 50 psi
- Electric or steam heat
- For process tank diameters up to 4.5'
- For process line diameters up to 2"
- Turbine flow meter

### Standard for Both Models

- Wetted surface: 316L stainless steel, 25 Ra  
Non-wetted surface: 304 stainless steel, 32 Ra
- UL listed, 304 stainless steel, NEMA 4X enclosure
- Allen-Bradley CompactLogix
- Allen-Bradley PanelView Plus HMI
- Ethernet communication
- 40 customizable cleaning cycle programs
- Educator return system
- A single centrifugal CIP supply pump
- Modulating diaphragm control valves to set cleaning circuit flow rates and to control the rate of discharge to drain
- Two chemical delivery systems comprised of pneumatic diaphragm pumps, removable chemical reservoirs
- Chemical conductivity, proof of rinse conductivity
- Supply and return temperature sensors
- Electric flow-through heater
- Discharge pressure gauge

### Optional for Both Models

- 15 Ra Electropolish (EP) finish
- Allen-Bradley PanelView Plus 1000
- Printer
- Stainless steel motor
- Shell and tube heater
- Air blow manifold
- Chemical reservoir low level switches
- One chemical delivery system (standard offers two)
- One water supply valve (standard offers two)
- CIP supply routing valves
- Water connection bleed valves
- Sample valve
- Vent filter assembly
- Pressure transmitter
- Mass or turbine flow meter alternate
- Fixed position leveling feet
- Frame weld finish upgrade
- Sanitary flex hose package
- Piping insulation
- Fixed position seismic zone calculations
- Passivation
- Spare parts budget
- Larger electric heater
- Sani-Matic Start-up Services

## Operating Requirements

### UltraFlow 110

• Instrument Air	½" NPT, 10 scfm @ 90 psi
• Water Supply	Two 1" tri-clamps, WFI, DI, potable ≤ 2 gpm @ 25 psi, 20°–80° C
• Drain	3" tri-clamp (programmable to meet app)
• Dry Weight	1,400 lbs (approximate)
• Electrical Power (with electric heat)	15 kW, 50 amps (standard) or 30 kW, 68 amps (optional) @ 460 VAC, 3 Ph, 60 Hz
• Electrical Power (with steam heat)	27 amps @ 460 VAC, 3 Ph, 60 Hz
• Plant Stream	1 ½" flange, 540 lbs/hr @ 50 psi
• Plant Condensate	1" flange
• CIP Supply	2" tri-clamp, 5–110 gpm @ 60 psi
• CIP Return	3" tri-clamp, 5–110 gpm @ 11' of head @ 80° C
• Vent/Overflow	2" tri-clamp

### UltraFlow 45

• Instrument Air	½" NPT, 10 scfm @ 90 psi
• Water Supply	Two 1" tri-clamps, WFI, DI, potable ≤ 2 gpm @ 25 psi, 20°–80° C
• Drain	2" tri-clamp (programmable to meet app)
• Dry Weight	900 lbs (approximate)
• Electrical Power (with electric heat)	12 kW, 27 amps (standard) or 24 kW, 43 amps (optional) @ 460 VAC, 3 Ph, 60 Hz
• Electrical Power (with steam heat)	11 amps @ 460 VAC, 3 Ph, 60 Hz
• Plant Stream	¾" flange, 195 lbs/hr @ 50 psi
• Plant Condensate	½" flange
• CIP Supply	1 ½" tri-clamp, 2–45 gpm @ 50 psi
• CIP Return	2" tri-clamp, 2–45 gpm @ 8.5' of head @ 80° C
• Vent/Overflow	2" tri-clamp

# Cleaning Confidence.

Repeatable results you can count on every time you clean your process parts and equipment.  
**That's Cleaning Confidence from Sani-Matic.**



## SANI-MATIC®

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