



SANI-MATIC®

UltraFlow®: Powerful CIP in a Compact, Portable Design.

UltraFlow 45

UltraFlow 110



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.

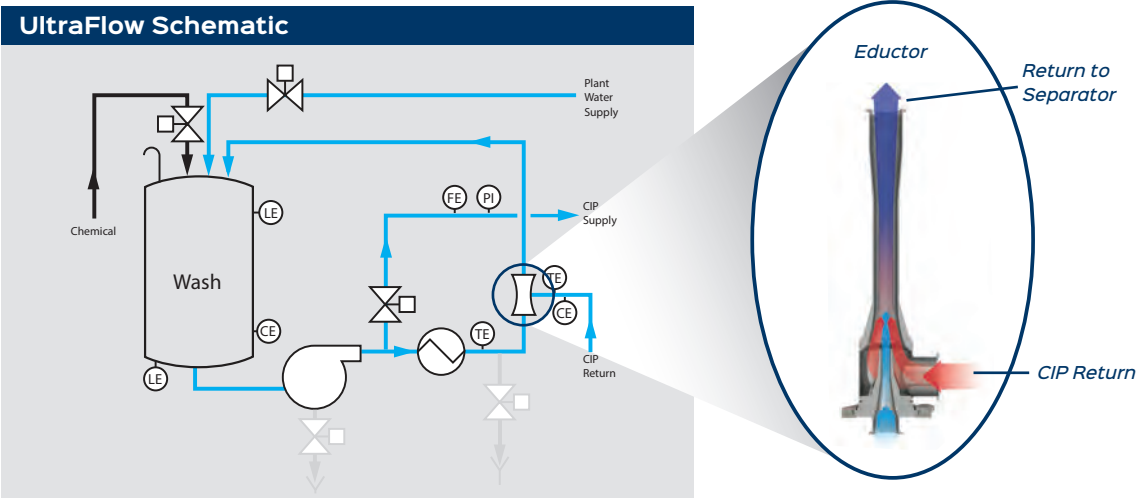


The Sani-Matic UltraFlow can operate with as low as 6 gallons of water vs. conventional CIP Systems, which must maintain a significant quantity of water in the supply tank to prevent pump cavitation.

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 (RSP) list
- Mechanical Bill of Materials (BOM)
- Instrumentation calibration procedures
- Material Test Reports (MTRs)
- Weld maps and weld logs (including qualification and inspection records)
- Inspection test results, reports and certificates
- Component vendor documentation
- As-built General Assembly (GA) drawings
- As-built Process and Instrumentation Diagrams (P&ID)
- As-built electrical drawings

Optional

- Functional Specifications (FS)
- Configuration Specification (CS)
- Factory Acceptance Test (FAT)
- Site Acceptance Test (SAT)
- Installation and Operation Qualification (IQ/OQ)
- Traceability matrix
- Instrument data sheets
- Cleaning and passivation certificate
- Borescope Inspection Video
- Hydrostatic test certificate
- Riboflavin spray coverage test

Features

UltraFlow 45

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



UltraFlow 110

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



Standard Features for Both Models

- 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
- Low friction, non-marking casters
- Wetted surface: 316L stainless steel, 25 µm Ra
Non-wetted surface: 304 stainless steel, 32 µm Ra
- UL listed, 304 stainless steel, NEMA 4X enclosure
- Allen-Bradley CompactLogix PLC
- Allen-Bradley PanelView Plus HMI
- Ethernet communication
- 40 customizable cleaning cycle programs
- Eductor return system

Optional Features for Both Models

- Vent filter assembly
- Pressure transmitter
- Mass flow meter
- 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 and Preventive Maintenance (PM) Services
- Wetted Surface: 15 µm Ra Electropolish (EP) finish
- Allen-Bradley PanelView Plus 1000
- Report ticket printer
- Stainless steel motor
- Steam Heat (shell and tube heat exchanger)
- Air blow manifold
- Chemical reservoir low level switches
- CIP supply routing valves
- Water connection bleed valves
- Sample valve

Operating Requirements

	UltraFlow 45	UltraFlow 110
• Instrument Air	½" NPT, 10 scfm @ 90 psi	½" NPT, 10 scfm @ 90 psi
• Water Supply	Two 1" tri-clamps, WFI, DI, potable ≤ 2 gpm @ 25 psi, 20°–80 °C	Two 1" tri-clamps, WFI, DI, potable ≤ 2 gpm @ 25 psi, 20°–80 °C
• Drain	2" tri-clamp (controllable drain rate)	3" tri-clamp (controllable drain rate)
• Dry Weight	900 lbs (approximate)	1,400 lbs (approximate)
• Electrical Power (with electric heat)	12 kW, 27 amps (standard) or 24 kW, 43 amps (optional) @ 460 VAC, 3-Phase, 60 Hz	15 kW, 50 amps (standard) or 30 kW, 68 amps (optional) @ 460 VAC, 3-Phase, 60 Hz
• Electrical Power (with optional steam heat)	11 amps @ 460 VAC, 3-Phase, 60 Hz	27 amps @ 460 VAC, 3-Phase, 60 Hz
- Plant Steam	¾" flange, 195 lbs/hr @ 50 psi	1 ½" flange, 540 lbs/hr @ 50 psi
- Plant Condensate	½" flange	1" flange
• CIP Supply	1 ½" tri-clamp, 2–45 gpm @ 50 psi	2" tri-clamp, 5–110 gpm @ 60 psi
• CIP Return	2" tri-clamp, 2–45 gpm @ 8.5' of head @ 80 °C	3" tri-clamp, 5–110 gpm @ 11' of head @ 80 °C
• Vent/Overflow	2" tri-clamp	2" tri-clamp

Industry Standard Compliance

- FDA Current Good Manufacturing Practices (cGMP), CFR Title 21, Part 820
- Underwriters Laboratory (UL): Controls, Standard 508
- ANSI/ISA-88 (S88) Batch Control
- Authorized to Provide Canadian Registration Number (CRN)
- ASME BPE Standards



Separator Chamber: Small Size, Big Performance

The combination of air and CIP return solution enters the sidewall port of the separator where centrifugal action separates air (upwards) and solution (downwards) to maintain adequate supply conditions for the CIP supply centrifugal pump.



Cleaning Confidence.

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



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