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

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.
### 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

![UltraFlow Schematic](image)

### Documentation

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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.
### 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
- For process tank diameters up to 10’
- For process line diameters up to 3”
- Turbine 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
- For process tank diameters up to 4.5’
- For process line diameters up to 2”
- 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

### 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

### Operating Requirements

#### 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
- **Dry Weight**: 900 lbs (approximate)
- **Electrical Power (with electric heat)**:
  - 12 kW, 27 amps (standard) or 24 kW, 43 amps (optional) @ 460V AC, 3PH
- **Electrical Power (with optional steam heat)**:
  - Plant Steam: ¾” flange, 195 lbs/hr @ 50 psi
  - Plant Condensate: ½” flange
- **CIP Supply**: 1½” 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

#### 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
- **Dry Weight**: 1,400 lbs (approximate)
- **Electrical Power (with electric heat)**:
  - 15 kW, 50 amps (standard) or 30 kW, 68 amps (optional) @ 460V AC, 3PH
- **Electrical Power (with optional steam heat)**:
  - Plant Steam: 1½” 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

### Additional Features

- Wetted surface: 316L stainless steel, 25 µin Ra
- Non-wetted surface: 304 stainless steel, 32 µin Ra
- UL listed, 304 stainless steel, NEMA 4X enclosure
- Allen-Bradley CompactLogix PLC
- Allen-Bradley PanelView Plus PLC
- Ethernet communication
- 40 customizable cleaning cycle programs
- Eductor return system
- Wetted Surface: 15 µin 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

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**Note:** The information provided is based on the visible content in the image and may not include all details available in the document.
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.
• 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
Cleaning Confidence.

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