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**Holland®**  
**APPLIED TECHNOLOGIES**  
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**SANI-MATIC®**

## Clean-In-Place (CIP) Systems: Validatable Cleaning of Process Lines, Tanks and Vessels.

**One-Tank  
Wash & Rinse**



**Multi-Tank  
Wash & Rinse**



**Sani-Matic Clean-In-Place (CIP) Systems** are engineered to your specific plant application and utility requirements for effective and efficient process equipment cleaning. Sani-Matic's CIP design and sizing ensure sufficient flow and appropriate pressure to thoroughly remove residue, rinse effectively, shorten cycle times, reduce operating costs and promote worker safety. The CIP Systems meet cGMP and ASME BPE standards.



**Sani-Matic Clean-In-Place (CIP) Systems** are designed and supported to meet individual process requirements from programming to documentation and service.

## Advantages

- **Complete Clean.** Proper CIP design and sizing ensure the required time, chemical, flow and temperature are in place to thoroughly remove residue, while reducing cycle time and operating costs.
- **Validatable.** Complete documentation available to comply with regulatory and validation requirements. Data acquisition and reporting capabilities are also available.
- **Programming and Controls.** Sani-Matic controls are designed to optimize cycle times and reduce chemical and water use. Ethernet communications interface with individual process control systems for an integrated solution.
- **Service.** Sani-Matic's dedicated service team is available for full technical support during the start-up and after installation.

## 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 Numbers (CRN)
- ASME BPE Standards

## Features



### One-Tank Wash & Rinse

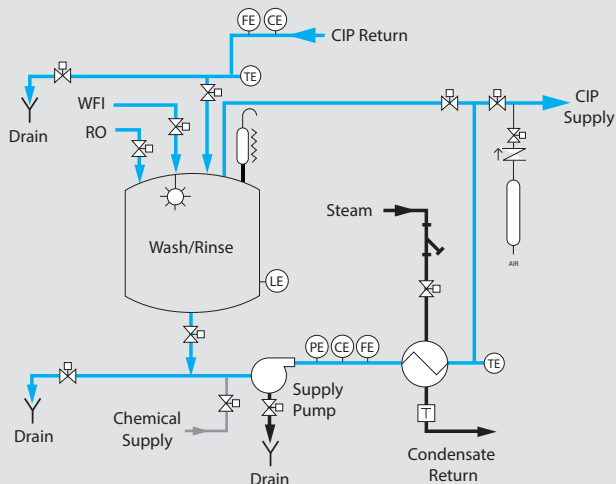
- Single-use source of cleaning solution and rinse water
- Low capital investment
- Portable or stationary design
- Once-through or recirculated
- Minimal space requirement



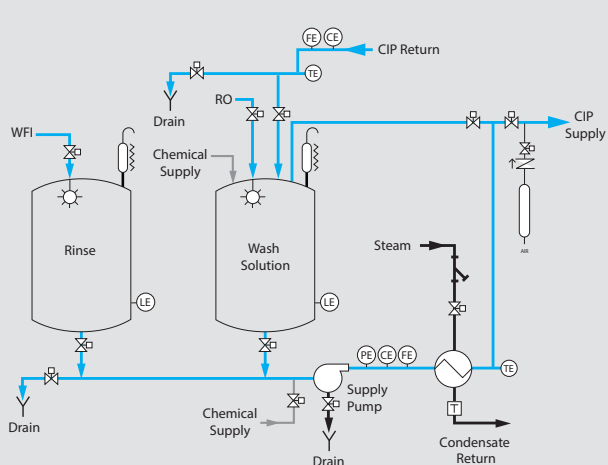
### Multi-Tank Wash & Rinse

- Single-use source of cleaning solution and rinse water
- Stationary design
- Once-through or recirculated
- Decreased cycle time over single-tank design

## One-Tank Schematic



## Multi-Tank Schematic

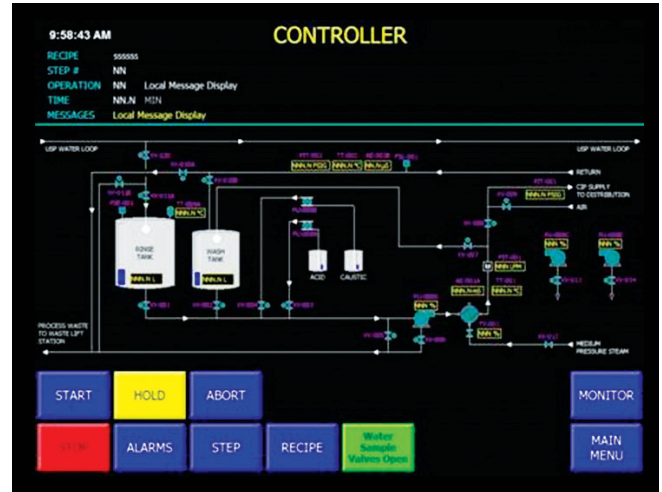


## Controls o

Sani-Matic has designed, manufactured and supported thousands of CIP control systems with its in-house programmers and UL authorized panel shop.

## Advantages of Sani-Matic Controls

- **Experts.** The Sani-Matic programming and automation team specializes in cleaning applications and provides proven expertise and customized strategies.
- **Automation Ease & Flexibility.** Easy-to-understand Recipe Editor provides access to setpoints. Defined alarms reduce troubleshooting time.
- **Time, Water & Chemical Savings.** Recipe optimization shortens cycle time and minimizes water and chemical use.



We mix our industry-specific expertise with the perfect combination of Time, Action, Chemical and Temperature to deliver the best solution for your cleaning challenge.

## Features

## Standard

- Allen-Bradley CompactLogix
- Allen-Bradley PanelView HMI
- 40 customizable cleaning cycle programs
- Ethernet communication
- Wetted parts: 316L stainless steel
- UL listed, 304 stainless steel, NEMA 4X enclosure

## Documentation

## Standard

- Operation and maintenance manuals
- Recommended spare parts (RSP) list
- Mechanical Bill of Materials (BOM)
- Instrumentation calibration records
- 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
- Borescope Inspection Video
- Hydrostatic test certificate
- Cleaning and passivation certificate
- Riboflavin spray coverage test

# 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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