



# COP Immersion Parts Washer

## Clean-Out-of-Place

Sani-Matic COP Immersion Parts Washers provide more consistent and faster cleaning than manual methods. "Clean-Out-of-Place" washers re-circulate detergent solution to efficiently clean piping, hoses and a wide variety of loose

machine parts held in baskets, which reduce handling & damage. Sani-Matic's exclusive sanitary design side-jets and end-jets create turbulence and impact which effectively removes residue from all surfaces of the parts. A wide variety of models, options and custom fixtures allow the COP tanks to be designed specifically for each plant's operation.

### TYPICAL COMPONENTS TO BE WASHED

- Pump Rotors, Impellers, Casings
- Hoses, Tubing, Piping
- Fittings, Clamps, Gaskets
- Mixer, Grinder, Filler Components
- Weight Buckets, Chutes, Hoppers

### **Solve the Problems of Manual Washing:**

*Organize and protect disassembled machine parts. Eliminate damage, improve cleaning. Reduce manual scrubbing and use higher temperatures and stronger concentrations safely.*

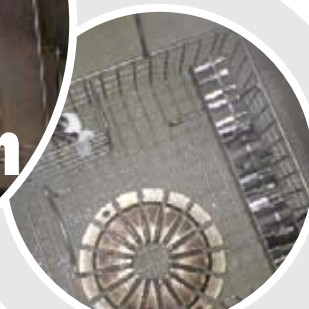
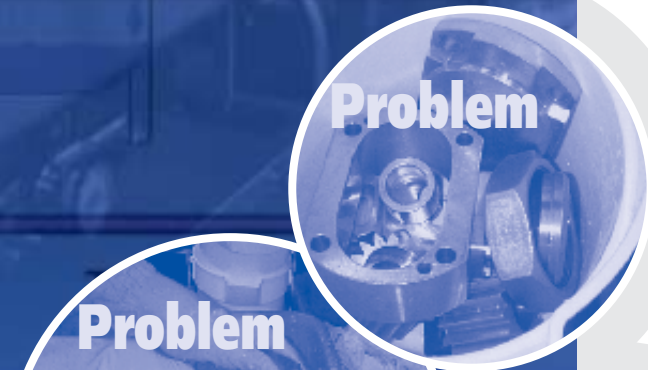


COP saves time and improves cleaning

**Problem**

**Problem**

**Solution**





*Option: chart recorder documents time, temperature and conductivity*

### Standard Models

- 4, 6, 8, 10, 12ft. lengths
- UW = 20"W x 18"D
- RW = 24"W x 22"D
- PW = 24"W x 30"D
- BW = 30"W x 30"D
- Custom dimensions available



*Option: high pressure pump and hose gun to assist pre-rinse and final rinse*

### Portable COP/CIP Washer

- Add valving to recirculate as a CIP unit
- Portable – connect to available utilities
- Periodic cleaning of vessels, tanks and line circuits



*Validate parts washing with automated CIP*

### Multiple Compartment COP Washer

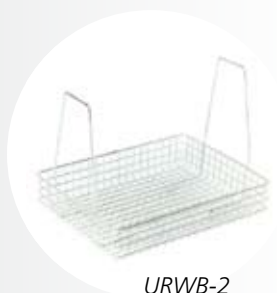
- Allows multiple cleaning procedures: Pre-Rinse, Wash, Rinse, Sanitize
- Requires individual reservoir operation
- Or use multiple COPs with hoist, for separate cleaning steps

### Semi-Automated CIP

- PLC controls entire cleaning sequence as batch washer
- Automated water fill and level control
- Auto-chemical addition and conductivity control for proof of rinse
- Heat exchanger
- Variety of recording and documentation options

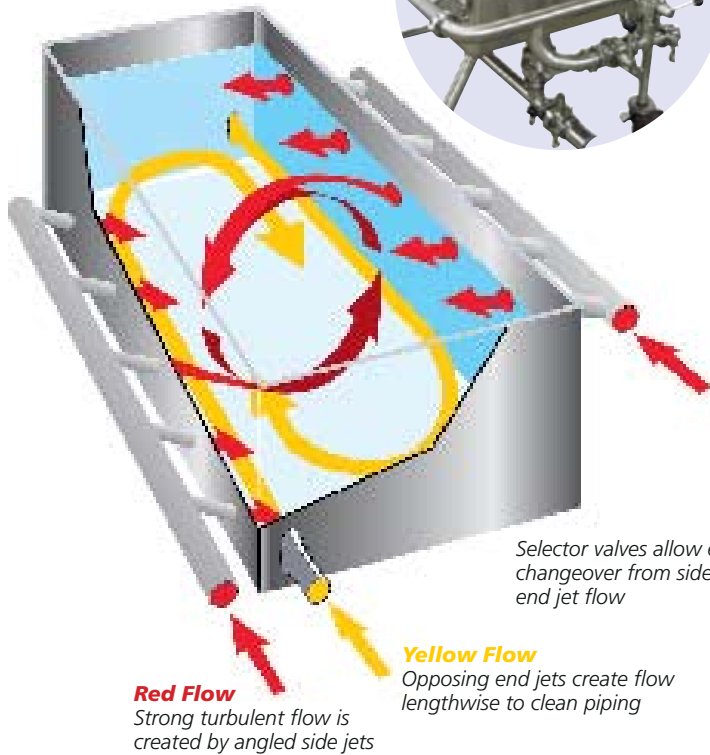
### Custom and Standard Basket Designs

- Reduce handling, damage and lost parts
- Keep machine parts in matched sets
- Customize to hold each line's set of machine parts



## Sanitary Jet Technology

*Sani-Matic jet manifolds are fully drainable and inspectable*



**Red Flow**  
Strong turbulent flow is created by angled side jets

**Yellow Flow**  
Opposing end jets create flow lengthwise to clean piping

*Selector valves allow easy changeover from side to end jet flow*

Machine parts, valves and tubing are difficult and labor intensive to clean manually – with consistency. Sani-Matic COP washers are designed to clean these types of items at higher temperatures and chemical concentrations – with safety and efficiency. Sani-Matic offers a complete line of COP washers. Stationary, portable, two-compartment or large-capacity COP washers are available with a variety of options, controls and valve configurations, including CIP capability.

## Exclusive Sanitary Jet Design

*Sanitary Supply Manifold*

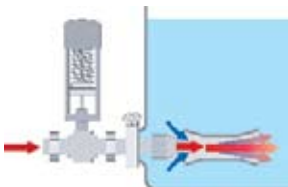


*Inside Tank*

*Sani-Matic jets are fully welded and machined to eliminate niches, and create consistent high velocity jet flow*

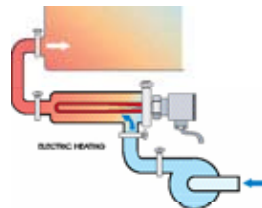
## Heat Source Options

### In-Tank Direct Steam Injection

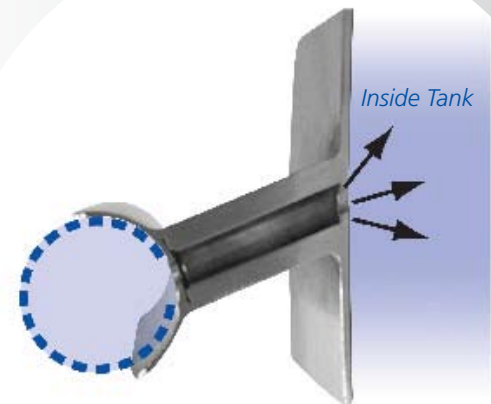


- Self-regulating steam valve
- 15 minute heat-up setpoint typical
- Lower initial cost
- Condensate not reclaimed
- Shell and tube heat exchanger – also available

### In-Line Electric Heater



- Internal thermostat
- Maintains solution temperature ONLY
- Hot water supply required for initial fill
- Installed in pump discharge



*Inside Tank*

*Competitors use pipe and drilled rod creating niche areas and inadequate flow pattern*

# COP Parts Washer Features:

## IMPROVE CLEANING / FOOD SAFETY

- Consistent, dependable results from controlled process
- Sanitary jets ensure high impact cleaning
- Safely use higher temperature and chemical concentration
- Fully welded sanitary design

## SAVE TIME

- Submersion breaks down soil
- Jets provide scrubbing action
- Free up labor to clean other areas

## SAVE WATER & CHEMICALS

- Recirculate and reuse heated detergent solution
- High flow rates without waste down the drain

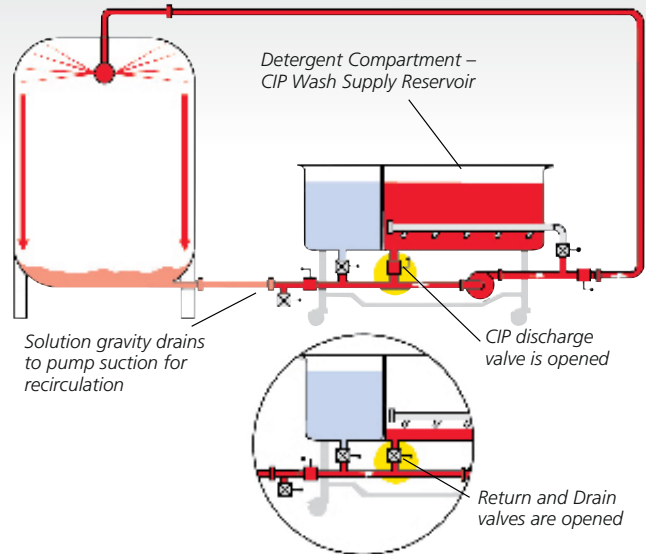
## WORKER SAFETY

- Eliminate exposure from manual cleaning
- Convenient baskets reduce handling
- Cover contains chemical and steam vapors

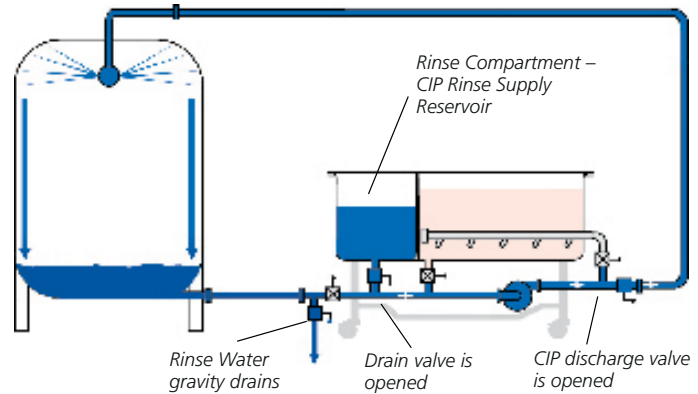
## REDUCE COSTS

- Eliminate maintenance costs from damaged or lost parts
- Reduce labor, water and chemical costs

## PORTABLE COP/CIP SYSTEM COP/CIP WASH CYCLE



## COP/CIP RINSE CYCLE



Option: power brush, drain board and pipe rack



Clean interior and exterior of hoses