The APV CIP MINI System is designed to accommodate an optional rinse water recovery tank, where the water used for the final rinse is reclaimed to use for the first rinse of the next wash, thus saving considerably on water and effluent. An additional option provides for a separate rinse water tank which can be used in high-spec applications (for example pharma or bio-tech) to provide high purity final rinse water.

The optional tanks are added in a compact modular skid mounted design.

The APV CIP MINI System is a single-use CIP system which operates on the principle of preparing a fresh solution for each wash and discarding afterwards. This is in contrast to a reclaim-type CIP system, where a washing solution is made up in a tank, and then used over and over again for successive washing cycles, only being topped up to maintain its strength.

**APV CIP MINI System**

**SPECIFICATION**
- Sanitary, Single Use CIP w/o Recovery, Single Tank
- 4 Standard Volumetric Sizes, (400, 600, 850 & 1,250 Liters)
- 4 Standard Circulation Rates, (8,000, 12,500, 20,000 & 36,000 l/h)
- Frame Mounted Tank, Equipment & Panel (Stainless Steel)
- CIP Solution Heating by APV ParaTube, Stainless Steel Shell & Tube, 12°C per Pass
- Stainless Steel Steam Control w/Float Trap
- Single Chemical Delivery System (Pump, Injector & Valves)
- Pneumatic, Single-Seat Rising Stem Sanitary Valves Std
- Control Tops w/Dual Feedbacks & Solenoids on APV valves and pilot air sv's on service valves
- CIP Supply Temperature transmitter
- CIP Return Temperature transmitter
- EHEDG APV Process Equipment (Valves, Pumps & Fittings)
- EHEDG Sanitary Endress & Hauser Instrumentation (Temperature & Level)
- Std. IP65 Stainless Steel, High & Low Voltage Panel
- Integral, IP65 Panel Mounted - Siemens Simatic S7-315-2 PN/DP
- Siemens MP277 10" HMI Panel, mounted in the door of the Control Panel
- Std. 3 Step CIP (Prerinse, Alkali Circulation and Postrinse)
- IEC Electrical Std. (230/460V, 3 Phase, 50 Hertz)

**OPTIONS**
- Construction to 3A standards for US market
- Sanitary, Secondary Rinse Water Tank (Two Tank)
- Sanitary, Recovery Water Tank Design (Two Tank)
- Sanitary, APV Double Seat Mixproof Valves on tank suction
- Insulated (Urethane) & Stainless Steel Jacketed Tank(s)
- Sprayball, CIP Tank
- Dual Chemical Delivery System (Acid & Alkali)
- Triple Chemical Delivery System (Acid, Alkali and Sanitizer)
- Air Blow Out End of Cycle Purge
- CIP Supply Line Strainer
- CIP Supply Flow Transmitter (Magnetic)
- CIP Supply Pressure Transmitter
- CIP Return Pump
- CIP Return Strainer
- CIP Return Conductivity Transmitter
- CIP Return Flow Switch
- Steam Supply/PRV Station (PRV, Inlet Strainer, High/Low Pressure Gauges, Manual Inlet/Outlet Stop Valves).
- Allen-Bradley CompactLogix PLC and Rockwell PanelView 600 Touch HMI Panel

The APV CIP MINI System is ideally suited to applications such as the following:

High specification cleaning duties, where there must be no possibility of contamination from one washing cycle to the next, necessitating makeup of a fresh solution for every wash

Cleaning of heavily-soiled equipment, where at the end of the wash, the washing solution is so contaminated that it must be discarded (for example - CIP of road tankers transporting molasses)

Applications calling for infrequent washing of a limited number of circuits, where the cost of a classic reclaim CIP plant cannot be justified (for example a small production plant or a section of plant remote from the main plant)
• NEMA Electrical standard (230/460 V, 3 Phase, 60 Hertz)
• Ethernet PLC Interface Module
• AC Variable Speed Drive (Danfoss or Allen Bradley PowerFlex) on CIP Supply Pump
• Motor Starter for CIP Return Pump
• High-Efficiency CIP Return Pump, APV Type WI+
• 5 Step CIP (Prerinse, Alkali Circulation, Postrinse, Acid Circulation, Postrinse)
• 7 Step CIP (Prerinse, Alkali Circulation, Postrinse, Acid Circulation, Postrinse, Sanitize, Rinse)

**COST SAVING OPTIONS**
• Remove Heating Set (Circulation Only)
• Substitute APV ParaTube Tubular Heat Exchanger for Plate Heat Exchanger
• Substitute Sanitary Rising Stem Valves for Butterfly Valves
• Substitute Independent PLC Control with remote I/O
• Remove Motor Starters
ABOUT SPX
Based in Charlotte, North Carolina, SPX Corporation (NYSE: SPW) is a global Fortune 500 multi-industry manufacturing leader. For more information, please visit www.spx.com.

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