



SANI-MATIC®

PharmaCab™ LP Series: GMP Washer for IBCs, Totes and Tablet Bins.



The Sani-Matic PharmaCab LP Series consistently and safely washes IBCs, totes, tablet bins and other vessels that contain hazardous and non-hazardous compounds. The PharmaCab LP Series meets cGMP and ASME BPE standards.



The Sani-Matic PharmaCab LP Series accommodates a variety of IBC sizes and automates cleaning for repeatable, validatable results.

Advantages

- **Validation.** Hygienic design to meet validation requirements. Extensive documentation and comprehensive process monitoring are provided.
- **Complete Clean.** Our exclusive, vertically controlled interior spray device automatically adjusts to accommodate varied IBC heights, and a rotating spray arm cleans the IBC's exterior and wash chamber's interior. Proof of rotation sensors and radiused corners ensure a complete clean.
- **Easy to Use.** The rotating sprays contain non-threaded, ¼ turn spray nozzles for easy inspection and cleaning. The Rack Systems are easy to load and transport. Unload side sample station for quick testing is available.
- **Safety.** Inflatable door gaskets maintain watertight barrier.

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 and Recipe Management
- ASME BPE Standards

Applications



○ Intermediate Bulk Containers (IBCs)

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

Standard Features

Chamber

- Wetted 316L stainless steel, 25 µin Ra
Non-wetted 304 stainless steel, 32 µin Ra
- Full radiused corners for self-cleaning
- Wash chamber LED light

Chamber Doors

- Single door design
- 316L stainless steel and tempered safety glass
- Pneumatically inflated door gasket
- Safety interlocks prevent inadvertent door operation

Control System

- Allen-Bradley CompactLogix with PanelView Plus HMI
- Forty (40) user-defined recipes
- Recipes can be modified for function, cycle times, temperatures and other key cycle parameters
- Three password protected levels of access
- Utility and maintenance screens on operator interface
- Ethernet port for connection to facility network
- VFD control

Chamber Spray System

- The rotating sprays provide maximum coverage of all load items and eliminate coverage dead spots
- Proof of rotation sensors
- Non-threaded, ¼ turn removable nozzles
- Solution distribution connection for rack system

Debris Screen

- Large, easy-to-clean stainless steel ⅛" perforated screen is located above the sump in the wash chamber

Solution Supply

- External CIP system is included to supply solution to washer

Solution Heater

- Steam heat

Drying System

- External dryer system included for precise moisture control
- Heated air is controlled to a set point temperature
- Steam heat

Chemical Delivery

- Two pumps provide accurate dosage of chemicals
- Ready access pump and containers for easy maintenance

Process Monitoring for Repeatable Cleaning

- PLC-controlled cycle times with adjustable recipe set points
- Pressure is maintained at pump discharge
- Solution flow verification
- Heated air is controlled at the discharge of the dryer
- Differential pressure is monitored on the HEPA filter
- Conductivity probes control chemical concentrations and prove final rinse
- Solution temperature is monitored in the CIP supply and return

Maintenance Access

- Sealed doors eliminate room air balance issues

Manifolds

- Diaphragm valves are used in all sanitary lines
- Elastomers are USP Class VI approved

Pumps

- Sanitary centrifugal pump - casing drain allows for complete drainage
- Liquid ring pump - casing drain allows for complete drainage

Voltage

- 480V, 3-Phase, 60 Hz

Loading

- Pit-mounted design
- Photoelectric part locating sensors

Optional Features

- Double door (pass-through) design
- Seismic zone anchorage calculations
- Barrier flanges
- Drain cooling valve
- Remote chemical supply
- 20 µin Ra finish
- Electropolish (EP)
- Passivation
- Custom cabinet dimensions
- Printer
- Sample station
- Sani-Matic Start-up Services
- ASME tanks
- Floor-mounted design
- 3-D modeled parts racks

Controls

- Allen-Bradley ControlLogix
- Siemens

Voltage

- 230V, 3-Phase, 60 Hz

PharmaCab LP Series System Components

PharmaCab LP Series systems have three major components: ① the GMP washer, ② an external CIP system and ③ an external dryer.



Standard Feature Highlights



- Vertically descending spray arm cleans IBC's interior.
- Double doors for load and unload side configuration.
- Rotating spray arm circles the IBC's exterior for a complete clean.



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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