



B I O - P H A R M

IBC Tote Washers

*A Repeatable and Effective, Automated Cleaning Solution
For Hazardous and Non-Hazardous Compounds*

The Sani-Matic IBC Tote Washer offers the ideal solution for washing IBCs, totes, tablet bins, and other vessels which contain hazardous or non-hazardous compounds. In addition to thoroughly and automatically cleaning the process items, the washer is also designed to clean the interior of the cabinet, which provides the operator protection from product residue. Containment is provided through the use of inflatable door seals and a HEPA filtered exhaust vent. Options include an automatic cover removal mechanism and a containment valve opener.

The standard design includes 100% recirculated cleaning by utilizing an integral recirculation pump and sanitary manifold assembly. Once-through rinsing and chemical washes are made possible through an optional external CIP system which replaces the standard recirculation assembly.

Why Choose a Sani-Matic IBC Tote Washer?

- Safe, validatable cleaning process
- Containment of hazardous compounds
- Consistent, repeatable results from a controlled process
- Allows higher temperatures and stronger concentrations while minimizing worker exposure
- Replaces manual cleaning with a repeatable, documented cleaning process
- Reduces labor costs, minimizes chemical usage, and lowers water and utility costs



Standard Features

- 316L SS cabinet, 25 Ra wetted finish
- Insulated sidewalls
- Pit mount or floor mount
- Self-cleaning, hinged door with inflatable door gasket
- Integral solution supply and recirculation assembly
- Electric heater
- Telescoping spray bar assembly
- Hydraulic, rotating spray bars on top and sides
- Bottom mounted spray assembly
- Allen Bradley PLC automated controls
- Motor starter/disconnect
- Pre-programmed wash cycles
- Chemical feed system

Options:

- 20 Ra or electro-polished wetted finish
- Steam heater
- Automatic cover removal
- Containment valve opener
- Bar code scanner
- Report printer
- 2 door pass-thru design ("dirty" side - "clean" side)
- Separate CIP system providing once through cleaning cycles
- Dryer system with HEPA filter
- Wall interface panels



IBC Tote with cover removed for cleaning

SANI-MATIC

P:800.356.3300 F:608.222.5348 sanimatic.com 1915 S. Stoughton Rd., Madison, WI 53716





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System Components

CABINET:

The wash cabinet is a stainless steel, 25 ra finished enclosure equipped with our specially designed spray assemblies that provide complete cleaning coverage of the surface areas of the tote and the interior of the cabinet itself - eliminating any cross-contamination.

Cabinet Options

- **Additional Door:** To provide pass through operation, an additional door option may be added to the cabinet, creating a "dirty" side and "clean" side configuration. This arrangement allows the washer to be mounted through a wall, which provides further isolation and containment.
- **Automatic Cover Removal:** If the IBC tote is placed in the cabinet with the cover still in place, an optional mechanism engages and removes the cover of the tote automatically. A sensor monitors removal and a separate spray assembly cleans the cover. After the cycle is complete, the cover is automatically replaced.
- **Automatic Containment Valve Opener/Bottom Spray Assembly:** IBC totes containing hazardous materials are equipped with a "passive" containment valve. In these instances, an optional floor-mounted "active" mechanism may be added to automatically open the containment valve for the wash cycle



Top mounted spray assembly



Floor-mounted "active" mechanism

CIP Option:

Sani-Matic IBC Washers can be supplied with wash solutions and rinse water from a traditional CIP system. The CIP system can be either a single tank or multi-tank configuration and can be programmed for single-use, once-through or reuse depending on the cleaning application.



DRYER Option:

A filtered air drying system completes the design. The high pressure blower forces air through a center air nozzle, delivering air to the interior of the tote while fixed ductwork in the cabinet walls direct the forced air to the exterior surfaces. Dampers adjust the inlet and outlet of air flow. Humidity is controlled through the use of a steam coil and condenser assembly.



Documentation

- Operation and maintenance manuals
- Recommended spare parts list
- Instrument lists
- Instrumentation calibration procedures
- Performance data
- Material certificates
- Weld qualification and inspection records
- Inspection test results, reports and certificates
- ASME data
- Component catalog cut sheets
- As built assembly drawings
- As built process and instrumentation diagrams
- As built electrical drawings
- Annotated PLC ladder diagrams

OPTIONAL

- (FRS) Functional Requirement Specifications
- Control System Design Specification (HRS and SRS)
- (FAT) Factory Acceptance Test report
- (SAT) Site Acceptance Test document
- IQ/OQ Installation and Operation Qualification
- Traceability matrix
- ISA Data Sheets
- Cleaning and passivation report
- Weld video record (Boroscope)

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