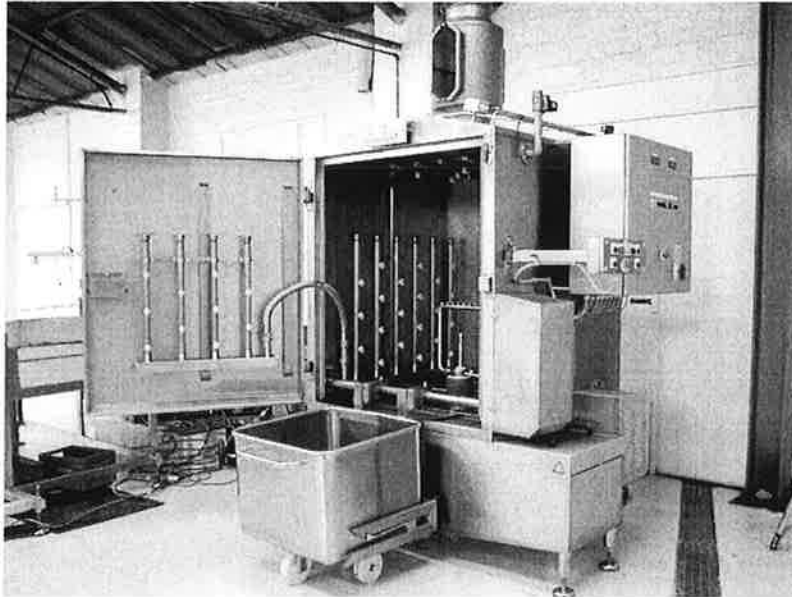


Marchant Schmidt, Inc.

Industrial Washing System

Industrial Tote/Bin Washing System

Model: EC-Series



EC-30/20 (In Stock)

Wash Items:

Type: 200L & 300L V-Mag Trolleys, Macro Bins, S.S. Vats, plastic insulated totes, etc...
Material: Plastic, Injection molded, & Stainless Steel.

Rates:

Up To 15 Bins / Totes per hour.*

□ Depending on pollution level

Dual chamber Tote/Bin washers will increase wash rates. Contact Sales Engineering department to specify.

Pollution:

All types of pollution can be accommodated. Pollution levels will dictate what type of filter, wash water temperature, detergent, and pump capacity is needed.

General Description:

This is a batch style cabinet type washing machine. Complete with a single wash chamber, wash tank, and cabinet door. There is a specific heating type for bringing the wash and rinse water up to proper temperature. A dosage pump is provided for delivering chemical to the wash, and or rinse is typically included. A standard tote/bin lift and pivot mechanism is used to lift and place the tote/bin into position. This lifting mechanism is semi-automatic, which places it into its proper wash location. The cabinet door and start switch will have to be manually operated. The washer is set at a specific time and the operator can perform other duties as the washing system is performing the timed wash cycle.

Machine Cycle:

Wash Chamber: Hot water + detergent main wash
Operating temperature 120 – 140°F (50-60°C)
Water re-circulated via standard filters

Rinse Section: Heated main fresh water rinse.

- Spent water goes to wash tank
- Excess water in wash tank overflows to drain.

Standard Features:

All stainless steel T304 materials
Square Tube frame construction
NGI type adjustable leveling feet (Sanitary)
Internal wash item supports and guides
Fixed position plastic bayonet type wash and rinse jets
Dual mechanical door latch & electrically interlocked safety switch.
Single access tank panel outside of washer

Wash Cabinet:

Wash tank: 130 gallon nominal water capacity

- Tank level overflow is standard
- Main drain and butterfly valve is provided

Triple water level sensors for determining exact water levels.

- Low water level sensor for heater protection
- Mid-level water sensor for water make-up for carry-over
- Upper level water sensor for proper fill height and cycle start.

Tank Filters

- Dual horizontal mesh basket style pullout filters

Main wash pump

- 20 HP (15 Kw) wash pump
- All stainless Steel Pump Housing & Impeller
- Throttling Gate Valve included on outlet side of pump for controlling flow.

Nozzles with multiple header locations

- Center pivoting Rota-Jet spray ball assembly with high flow capacity.
- Plastic threaded pipe Tap bases w/quick turn removable inserts on outside walls.

Water Control: Tank filling

- Incoming water supply solenoid valves are provided for the automatic filling and maintaining of the wash tank water.

Heating: There are several types of wash tank water heating.

- Customer Supplied Hot water
 - o Customer will supply proper water at a specified temperature.
- Emersion Heaters
- Steam
 - o Direct Injector (**INCLUDED**)
 - o Indirect Heat Exchanger
- Gas Fired Heater Indirect exchanger

Heating Control: temperature controller

- Digital temperature controller located on operator panel
- Multiple control settings for proper temperatures required

- Main tank Thermocouple is provided
- Detergent Dispensing
 - Direct inject into wash tank via a peristaltic type pump **(INCLUDED)**
 - o Pump is fully adjustable
 - o Touch screen programming
 - o Minimum maintenance

Rinse Cycle:

Rinse Spray Bar

- Single rotating with fixed S.S. V-fan nozzles
 - o Nozzle sockets fully welded
 - o To wash inside of totes
- Multiple fixed spray headers with nozzles on outside walls
 - o To wash outside of totes

Rinse Nozzle

- Stainless steel fixed V- Fan style nozzles

Water Control: Rinse Water Supply

- Incoming fresh water supply solenoid valves are provided for the automatic start & stopping of the rinse water.

Rinse Water Drain

- Rinse water drains to wash tank. Tank water overflows to the drain.

Lift/Load Transport Frame:

Transport pivot frame

- Continuous welded plate frame for holding totes.
- Lift frame pivots on rotating shaft
- Frame has V-Mag tote locks to prevent totes from falling

Pivoting Motor

- .75 HP (0.55kw) gear motor assembly
 - o C-face motor assembly for easy replacement

Pivoting Powertrain:

- Plastic housed S.S. roller bearings used on the drive shaft

Control Panel:

Operator panel Components

- (1) – Wash temperature controller/indicator
- (1) – Pump motor starter switch
- (1) – Steam extract fan motor starter
- (1) – Steam heat starter
- (1) – Emergency reset switch
- (1) – Main Disconnect Switch w/lock-out
- (1) – Emergency Stop Switch

Control Type: Allen - Bradley Controls

Panel Voltages:

- Main 208 / 230 / 460 VAC 3 ph 60 Hz
- Control 230 1ph 60hz & 24 VAC

Safety:

Access Panels

- Main door electric guard switches 24 VAC standard
- Mechanical Door Latch

Options:

Vapor Extraction System

- Stainless Steel Ventilator with 10" main connections
- ¾ hp high RPM motor

Dosage Pumps

- Additional peristaltic type pumps can be added
- Additional sanitizer & de-former pumps
- Dosage Pump with concentration sensor
 - o Allows for automatic replenishing of detergent in wash tank based on water/detergent concentration levels.

Rotating Filter (Washer fitted for installation at a later date)

- Horizontal wedge wire screen with rotary wipe belt for removing solids
- .5 hp wipe motor
- S.S. roller chain with attachments for wipers
- Clean out door and pollution access opening

Controls

- A-B PLC Controller with ability to change programs and add additional program steps, timers, and functions.

Utility Sizes:

Water Inlet: 1" BSP Connection

- 30-45 PSI Pressure required

Steam Inlet: 1 ¼" BSP Connection

- 70-75 PSI Steam pressure required

Drain: 2" BSP Outlet water drain

- Gravity Discharge