

GIRTON DRUM WASHER MODEL GC24DW

GENERAL

Girton Model GC24DW Drum Washer to wash and rinse plastic or metal containers, as large as 24" diameter x 38" high, at the variable rate of 60 to 180 per hour.

CONSTRUCTION

The tank, hull, in-feed and discharge sections are fabricated of 14 gauge, type 304 stainless steel with 2B finish. All seams are welded and cleaned. Guide rails, conveyor channels, piping, and headers with jet sprays are stainless steel.

CONVEYOR

The conveyor consists of two (2) conveyor chains and is designed to convey the containers through the drum washer in an upside-down position for proper cleaning action. Lids are conveyed along side the containers by a separate conveyor assembly.

Automatic conveyor stop switch, activated by the container, shuts off the drive motor in case the operator is not present to remove the container as it discharges from the drum washer.

AUTOMATIC CONVEYOR STOP SWITCH

Activated by the drums in case the operator is not present to remove the drum as it discharges from the drum washer, system shuts off the drive motor.

VARIABLE SPEED DRIVE

1/2 Hp TEFC gearhead motor, arranged to carry the conveyor through the drum washer at a variable speed.

The conveyor will extend 6 ft. from the in-feed and 4 ft. from the discharge ends of the drum washer, to facilitate loading and unloading the containers.

Heavy-duty stainless steel guide rails will support and guide the containers through the drum washer.

Auxiliary Guide Rails will hold and orient the lids in position for proper exposure to the treatment solutions.

SCREENS

Drawer type stainless steel tray screens shall be used, with perforations smaller than the jet openings, to trap debris and protect the pump and spray orifices.

VENT

Two (2) 6" x 24" exhaust connections are provided on top of the drum washer, to be connected to customer's exhaust system.

WASH PUMP

One 20 Hp wash pump is supplied and shall be constructed of stainless steel, pump shall be horizontal type, with a close-coupled motor, rated at 440 gpm at 125 ft. Hd. Pump motor shall be wash-down duty.

FRESH RINSE

Fresh rinse consists of a single loop, spraying city water at house temperature and pressure. Minimum pressure to be 40 PSI. Consumption shall be 10-12 gpm.

JETS

The headers are equipped with straight through orifices and stainless steel spray deflectors, and are directly related to pump specifications.

This unit is also supplied with Barrel Washing Nozzles located between the two conveyor chains to effectively wash and rinse the interior of the barrels.

OPERATION AND TREATMENTS

1. Load - The inverted container and lid travel on the 6 ft. in-feed extension into the drum washer. The container then moves at the pre-determined speed through the following treatments. The lid is placed onto the dedicated conveyor with the dirty side facing the sprays.
2. Wash - Wash solution, as determined by the customer, is recirculated and sprayed onto all surfaces of the container. One 20 Hp pump shall recirculate this wash solution.

3. Fresh Rinse - Rinse solution, as determined by the customer's house supply, is sprayed onto all surfaces of the container. A sanitizing agent may be introduced into the final rinse water supply. The fresh rinse water shall cascade directly to the drain.
4. Discharge and Unload - The operator removes the washed and rinsed container from the 4 ft. discharge extension of the conveyor.

STANDARD FEATURES

The drum washer is equipped with push button starters for individual motor control.

The drum washer will be wired and tested before leaving the factory.

A safety disconnect, provided by the customer, should be mounted on an adjacent wall, and customer will provide wiring from this switch to the drum washer's main control panel.

SERVICE REQUIREMENTS

3/60/460 volts, 1/60/115 volt controls.

1 - 2" steam connection, 40-PSI minimum pressure, 900-lb./hr consumption.

1 - 1" water line, 30-40 PSI, 8-10 gpm consumption.

1 - 2" gravity drain connection.

2 - 6" x 24" vent connections, 3,900 CFM required.

Shipping Weight - 6,850 lbs.

OPTIONS:

1. Additional infeed or discharge conveyor for added accumulation of containers.
2. Ambient Air Blow-Off Section – To remove excess moisture from the surface of the drums. A squirrel-cage type blower is used to distribute air through stainless steel plena onto all surfaces on the drums. (Adds 80" to the overall length of the drum washer.)
3. Automatic conveyor stop switch, activated by the drums in case the operator is not present to remove the drum as it discharges from the drum washer, shuts off the drive motor.
4. Detergent Dispenser – A pump will be supplied to automatically add detergent at a predetermined amount. The pump will be under the control of the drum washer's PLC.
5. Fresh Rinse Conservation Solenoid – A solenoid valve shall be installed in line and wired in conjunction with the conveyor to conserve fresh water when the conveyor is stopped.
6. Inclined infeed section for ease of loading containers onto powered conveyor system. The incline will bring the containers from 6" above the floor to 31", which is the standard conveyor height for this drum washer.
7. Insulation 1" rigid foam, 1" on top and sides of the drum washer covered with 20-gauge stainless steel jacket.
8. Pass through heat exchanger to raise house water from 120°F to 180°F for final rinse.
9. Pump pressure gauge shall indicate recirculated water pressure.
10. Safety Disconnect – The disconnect will be mounted in the control panel for added safety while working on the drum washer. A disconnect switch should either be in the control box or within easy reach of the drum washer.
11. Steam coil for indirect heating of the wash tank, in lieu of direct steam injection. Includes steam condensate traps, in a 3/4" NPT condensate line.

(End of Specifications)

Drum Washer

