

# **GIRTON COOP WASHER**

## **GENERAL**

Girton Coop Washer shall wash and rinse plastic and wooden coops up to 34" x 24" x 11" high.

## **CONSTRUCTION**

The tank, hull, infeed 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 spray deflectors are stainless steel.

## **CONVEYOR**

The conveyor consists of stainless steel conveyor chain and is designed to convey the coops through the coop washer in a vertical position. The conveyor shall include a switch to stop it when an item reaches the discharge end.

## **DRIVE**

1/2 Hp T.E.F.C. gearhead motor, arranged to carry the conveyor through the coop washer at a minimum speed of 15 ft. per minute. (Optional variable speed drive is available.)

The conveyor will extend 3 ft. from the infeed and 3 ft. from the discharge ends of the coop washer, to facilitate loading and unloading the coops. (Additional infeed and discharge conveyor is available as an option.)

Heavy duty stainless steel guide rails will support and guide the coops through the coop washer.

## **SCREENS**

Drawer type stainless steel tray screens will be used, with perforations smaller than the jet openings, or a remote screening system to trap debris and protect the pump and spray orifices.

## **VENT**

A 10" I.D. circular exhaust connection is provided on top of the coop washer at each end, to be connected to customer's exhaust system.

## **HEATING**

Temperature of the recirculated wash solution is controlled by an automatic temperature controller, steam solenoid valve and direct steam injector. (Optional steam coil for indirect heat is available.)

## **FRESH RINSE**

Rinse consists of a single spray loop spraying all outside surfaces at house temperature and pressure. The fresh rinse shall include an automatic solenoid valve that only operates when the conveyor operates.

## **THERMOMETER**

The wash tank will be equipped with an indicating thermometer.

## **WASH PUMP**

The 15 Hp. wash pump is cast iron, horizontal, close coupled motor mounted type, T.E.F.C., and is rated at 440 GPM at 100 ft. hd. (See option for stainless steel pump)

## **BRUSH TREATMENT**

Two brushes shall be supplied to brush the top and two sides of the crates to help loosen light soil. The bottom of the crates and the ends of the crates shall not be brushed.

## **JETS**

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

## **OPERATION AND TREATMENTS**

Load - The operator places the coop in a vertical position onto the infeed extension. The guide rails are so designed that the coop may be loaded and unloaded from the side. The coop then moves at the pre-determined speed of 15 ft. per minute through the following treatments:

1. Wash - Wash solution at a temperature up to 180°F, as determined by the customer, is recirculated and sprayed onto all outside surfaces of the coop.
2. Rinse - The house water supply, at house temperature and pressure, provides the rinse treatment. Consumption is 7 to 8 gallons per minute at 40 PSI.
3. Discharge and Unload - The operator removes the washed and rinsed coop from the 3 ft. discharge extension of the conveyor.

## **STANDARD FEATURES**

Three feet of conveyor at each end.

Fresh rinse solenoid valve.

Conveyor stop switch.

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

Heating is activated by a switch.

The coop 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 coop washer's main control panel.

## **SERVICE REQUIREMENTS**

3/60/230 volts, 1/60/115 volt controls

1 - 1" steam connection (direct steam injection, 40 PSI minimum, 620 lb/hr consumption).

1 - 1" water line, 40 PSI minimum pressure, 8 GPM operating consumption.

2 - 2" gravity drain connections.

1 - 8" ID vent connection, total 880 CFM required.

## **COMMON OPTIONS**

- ◆ Additional infeed or discharge – For additional build up area.
- ◆ Variable speed drive, to increase or decrease the conveyor speed 13.5 to 27 ft. per minute.
- ◆ Steam coil for indirect heating of the wash tank, 1" pipe size, 40 PSI minimum.
- ◆ All stainless steel 15 Hp circulating pump.
- ◆ Pump pressure gauge – To monitor performance of pump. The pump shall indicate recirculation water pressure.
- ◆ Automatic detergent dispenser – A pump shall be supplied to automatically add detergent at pre-determined amounts. The pump shall be under the control of the coop washers microprocessor.

# ***Coop Washer***

