

GIRTON FEEDER BOTTLE WASHER MODEL BW95

APPLICATION

The BW95 Feeder Bottle Washer is a heavy duty, cabinet type hydrospray washer designed for thorough, efficient cleaning of feeder bottles used in the care of laboratory animals.

SIZE

Wash compartment - 39" wide x 28" high x 28" deep.

Overall dimensions - 60" wide x 66" high x 32-1/2" deep.

Capacity - four (4) basket loads of feeder bottles per load. (For cage capacity, see below)

Maximum basket size - 18-5/8" long x 12-5/8" wide.

Loading height - 34" to 36".

FEATURES

- A. Four Basket Capacity – The feeder bottle washer has capacity to process four (4) basket loads of bottles simultaneously.
- B. The feeder bottle washer will process 10 standard mouse cages (7-1/2" x 11-1/2") or six rat cages (10-1/2" x 19") per load.
- C. Individual Sprays – The feeder bottle washer is designed with an individual spray for each bottle so the solutions will enter the center of the mouth of each bottle.
- D. Automatic Temperature Control – The feeder bottle washer is designed to include thermostatic control of solution temperatures up to 190 °F.

OPERATION

Operator opens door and places four baskets full of bottles into wash compartment. Stainless steel guides are provided for proper alignment of cages. The correct amount of detergent is placed within the compartment, the door is closed, and the push button is pressed starting the automatic cycle. The feeder bottle washer cycles through the treatment schedule and automatically shuts off at the end of the cycle. Operator opens door and removes clean bottles from the feeder bottle washer.

TREATMENT SCHEDULE

A typical treatment schedule consists of the following phases:

1. Wash - Hot detergent solution from the treatment tank is recirculated under pump pressure and drained to sewer upon completion.
2. First Rinse - Hot water from house supply fills the treatment tank and is recirculated under pump pressure. Water is drained to sewer upon completion.
3. Second Rinse - Same as first rinse except at the end of the treatment, the water is retained in the treatment tank to be used as the wash solution for the subsequent load.

CONSTRUCTION

1. The cabinet, treatment tank, and all fabricated parts are stainless steel with welded joints.
2. The doors are center opening, side-hinged, and are of double wall construction.
3. Treatment tank is equipped with automatic water fill valve, liquid level control, temperature gauge, safety overflow piping, and automatic valve for the drain.
4. Treatment tank shall be equipped with stainless steel steam coil and automatic water temperature control.
5. Stainless steel screens shall be provided within the wash compartment to filter all treatment solutions. Screen shall be easily removed for cleaning. Additionally, an automatic self-cleaning screen is located in the pump discharge line, prior to entering the spray headers. This screen automatically cleans itself during each drain sequence.
6. The treatment pump shall be a close-coupled "Monobloc" type with mechanical seal and fitted with a 2 Hp totally enclosed motor.
7. The treatment spray system shall consist of the following:

- a. An individual spray for each bottle shall be located so that treatment solution will enter the center of the mouth of each bottle. These sprays (typically 96 in number) will also provide exceptional coverage to the inside of plastic caging.
 - b. Overhead sprays shall be provided to clean the outside of the feeder bottles and cages.
8. The Microprocessor Control System shall consist of the following:
 1. Control shall be commercial, non-proprietary Allen Bradley Microprocessor, which shall control all sequences and operation. The microprocessor is capable of infinite variation in treatment schedules, times, etc., and will be programmed to meet the customer's specific needs. The cycles are adjustable in both time and function. The controller is housed in a stainless steel enclosure.
 2. Within the control box is the microprocessor controller, magnetic starters with overload protection for all motors, and all other electrical components required for the machine operation.
 3. A proximity switch shall be used to positively indicate whether the door is open. If the door is opened during operation, the cycle shall be interrupted for safety reasons. A second proximity switch shall be employed on pass-through machines.
 9. The feeder bottle washer shall be interwired and interpiped so that only one connection is required for each service or utility. Standard electrical service is 3-60-230/460. Any standard electrical service can be provided. Please state service available for hook-up to this feeder bottle washer.

RECOMMENDED UTILITIES

Electrical - 3/60/208-230-460 volts

Water 3/4" NPT, 15 gallons per minute, 140°F

Steam - 1/2" NPT, 40-80 PSI, 150 lb. hr.

Condensate - 1/2" NPT, gravity

Drain - 1-1/4" NPT, gravity

Ventilation - 6" ID, 200 CFM

Cold Water – 1/2" NPT, 5 GPM @ 70°F maximum (for drain cooling)

Compressed Air – (Optional) – For air operated drain and other valves, 1/4" NPT, 60 PSI, 3 CFM

OPTIONAL FEATURES

1. Insulated Construction - 1" thick, non-toxic, non-hygroscopic rigid foam on top, sides, and ends, covered with stainless steel jacket, #4 finish.
2. All Stainless Steel Pump.
3. Drain Discharge Cooler. The feeder bottle washer is provided with a cool down cycle integral with the feeder bottle washer to accept all recirculating sump drain discharges. By mixing with cold water, discharges are cooled to a minimum of 140°F before gravity draining to building drain system.

Please Note: This option describes a cooler for the re-circulating sump drain discharges. It is designed to operate when the drain valve is open. It is not a cooler for the sporadic emissions from the sump's steam heating coil or optional pass-through heat exchanger. These fluids ideally are returned to the steam boiler. If discharging to the drain or sewer is required, and cooling of these fluids is required, we recommend that the cooling device be installed as part of the utility installation.

4. Wall Trim Flange – The feeder bottle washer shall be provided with a steel trim flange to seal the opening between the machine and the barrier wall opening.
5. Pass-Through Door – The feeder bottle washer can be provided with an additional door for pass-through operation, complete with safety micro switch and light indicating washer is in operation.
6. Electric Heat, in lieu of steam.
7. Viewing window in one door.
8. Second level, for cages only. Increases mouse cage capacity to 20 per load.
9. Liquid detergent prep kit.
10. Installation, utility hook-up, operator training, etc. (Please consult factory)

OTHER OPTIONAL FEATURES ARE AVAILABLE

PLEASE CONSULT OUR FACTORY WITH YOUR SPECIAL NEEDS

* Please note that all sub components of Girton Washers are **NON-PROPRIETARY** and **COMMERCIALY AVAILABLE** from various sources, for **FLEXIBILTY AND ECONOMY OF MAINTENANCE** throughout the life of the washer.

Girton BW95

Bottle and Cage Washer

