

GIRTON PUMP-MASTER MODEL PM

GENERAL

Girton Pump-Masters are designed to wash various pipes, parts, and fittings used in many industries.

CONSTRUCTION

The Pump-Master shall be fabricated of all-welded stainless steel, including tank, all piping and structural members. The tank shall be constructed of 12 gauge T-304 stainless steel with 35Ra finish, inside and outside with 2" radius on all inside corners. All piping and fittings to be T-304 stainless steel.

PUMP

The pump shall be an Ampco made of stainless steel, close coupled, motor-mounted type pump. This gives greatest efficiency with the minimum maintenance possible.

HEATING

The Pump-Master solution shall be heated by direct steam injection. Heating 100 gallon of water from 60°F to 140°F in 1 hour will require 55# steam per hour for direct steam heat.

LOW LEVEL CONTROL

A stainless steel float control will be housed in an external enclosure. The control will not allow the pump to run or the steam solenoid to open, if water level is below set point.

DISTRIBUTOR PIPES

Dual, adjustable distributor pipes for turbulent cross-tank jet washing action. The removable stainless steel distributor pipes shall be of sanitary design featuring sanitary connections, with self-draining jets.

OVERFLOW TROUGH

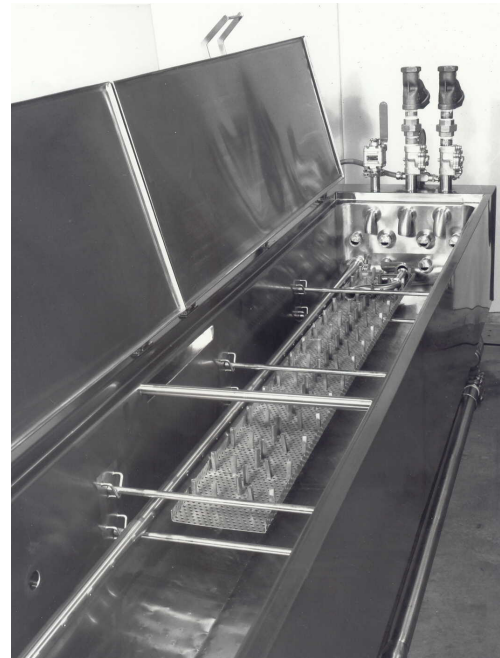
An overflow trough shall be furnished to skim off floatables and protect the operator in the event the water level gets too high.

OPTIONS

1. **AUTOMATIC TEMPERATURE CONTROL** – The most efficient washing temperature for the solution shall be achieved and/or maintained by an RTD plus a temperature controller. The controller output shall operate a solenoid valve that allows steam to be injected into the tank.
2. **BACK SHELF** – Used to allow miscellaneous items drain off after washing.
3. **PIPE RACK** – Mounted on back shelf to hold lengths of pipes to drain off after washing.
4. **DRAIN VALVE** – A manual operated butterfly valve shall be supplied to retain the wash solution in the tank. The tank shall be drained at the discretion of the operator.
5. **CIP CYCLE VALVING** – Two butterfly valves shall be supplied to direct wash solution, either to the distributor pipes in the Pump-Master or to a line leading to a piece of equipment to be cleaned in place.
6. **WASH DOWN DUTY MOTOR** - For added protection in lieu of T.E.F.C.
7. **CASTERS** – A set of four, stainless steel casters with brake on swivel and wheel.
8. **COMPARTMENT DIVIDER FOR TWO-COMPARTMENT OPERATION**. One side will have an area for optional distributor pipes for a recirculated wash; the other side would be a static rinse tank.
9. **INSULATION** – The sides, ends, and bottoms shall be covered with 2" of rigid insulation. Insulation is then covered with 18 ga. stainless steel. Joints shall be tack welded and sealed with silicone sealer.
10. **INDICATING THERMOMETER** – A 3" dial thermometer shall be used. Range: 50°F to 250°F.
11. **COVER** – Shall be made of 18 ga. 35 Ra finish stainless steel. Cover shall be creased with the edge turned down to match the rim. The cover shall be supported by two hinge and latch assemblies.
12. **ELECTRIC HEAT** – The wash solution shall be heated by two electric immersion heaters, in lieu of steam heat. Each unit will be 24KW, to heat up and maintain wash solution at preset temperature up to 140°F.

13. **END-TO-END AGITATION SYSTEM** – With inlets at each end on the diagonal corners and outlets in opposite diagonal corners. This develops a good flow of wash solution from one end of the tank to the other end. This flow will aid in washing the inside of the lengths of tubing laid in the bottom of the tank.
14. **STEAM PRESSURE REGULATOR** – To reduce incoming steam pressure as high as 150 PSI down to a range of 10 to 35 PSI.
15. **LOW WATER LEVEL AND AUTOMATIC TEMPERATURE CONTROL** – The most efficient washing temperature for the solution shall be achieved and/or maintained by the RTD plus a temperature controller. The controller output shall operate a solenoid valve that allows steam to be injected into the tank. For safety, the standard stainless steel float control shall be wired to prevent steam from being injected into an empty tank.
16. **STAINLESS STEEL BASKETS** – For handling various small parts. Baskets shall be made completely of stainless steel.
17. **MOTOR CONTROLS**– Stainless steel box includes manual switch, fuses, motor starters and transformer to control pump. Box shall be constructed to meet Nema 4X standards.
18. **ADJUSTABLE CYCLE TIMER** – To control the length of the treatment cycle. Timer shall be adjustable up to 120 minutes.

COP Tank/Pump-Master



COP Tank/Pump-Master Sizes Available

Model	Inside Dimensions	Capacity	Weight (Empty)
PM3A	30" long x 20" wide x 22" deep	43 Gallon	250 #
PM4A	52" long x 30" wide x 22" deep	110 Gallon	330 #
PM6A	76" long x 30" wide x 22" deep	170 Gallon	500 #
PM8A	100" long x 30" wide x 22" deep	225 Gallon	750 #
PM10A	124" long x 30" wide x 22" deep	285 Gallon	1,000 #
PM12A	148" long x 30" wide x 22" deep	345 Gallon	1,375 #

Consult Factory for Custom Sizes