

SPECIFICATIONS

GIRTON PUMPMASTER MODEL PM Specification No. Document131

GENERAL

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

DIMENSIONS

Inside	PM4A	PM6A	PM8A	PM10A	PM11
Length	52"	76"	100"	124"	122"
Width	30"	30"	30"	30"	36"
Depth	22"	22"	22"	22"	22"
Capacity	110 gal.	170 gal.	225 gal.	285 gal.	330 gal.

CONSTRUCTION

The washer 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 4P2 finish, with 2" radius corners on all inside corners.

PUMP (Optional 5, 7-1/2, 10, or 15 Hp.)

The pump shall be stainless steel sanitary design, close coupled, motor-mounted type. This gives greatest efficiency with the minimum maintenance possible.

HEATING

The washer solution shall be heated by direct steam injection.

LOW LEVEL CONTROL

The control will be housed in a stainless steel enclosure. The control will not leave the pump run or the steam solenoid 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.

OPTIONS

1. **AUTOMATIC TEMPERATURE CONTROL** - The temperature of the solution shall be controlled by an automatic controller, which is adjustable to the most efficient temperature for the job. The controller operates a solenoid valve, which permits steam to enter the tank to heat the wash solution.
2. **BACK SHELF** – Used to leave miscellaneous items drain off after washing.
3. **PIPE RACK** – Mounted on back shelf to hold lengths of pipes to drain off after washing.
4. **3-WAY STAINLESS STEEL VALVE** – Valve is used to direct wash solution, either to the distributor pipes in the Pumpmaster or to a line leading to a piece of equipment to be cleaned in place.
5. **WASH DOWN DUTY MOTOR** - For added protection in lieu of T.E.F.C.
6. **CASTERS** – A set of four, stainless steel casters with brake on swivel and wheel.

7. **COMPARTMENT DIVIDER FOR TWO COMPARTMENT OPERATION.** One side will have distributor pipes for a recirculated wash, the other side would be a static rinse tank.
8. **INSULATION** – The sides, ends, and bottoms shall be covered with 2” of rigid insulation. Insulation is then covered with 20 ga. stainless steel.
9. **INDICATING THERMOMETER** – A 3” dial thermometer shall be used. Range: 50°F to 250°F.
10. **COVER** – Shall be made of 18 ga. #2B 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.
11. **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.
12. **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.
13. **STEAM PRESSURE REGULATOR** – To reduce incoming steam pressure as high as 150 PSI down to a range of 10 to 35 PSI.
14. **LOW WATER LEVEL AND 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. For safety, a stainless steel float switch shall be installed to prevent steam from being injected into an empty tank. The float switch shall be mounted inside the tank and shall be protected by stainless steel rods.
15. **STAINLESS STEEL BASKETS** – For handling various small parts. Baskets shall be made completely of stainless steel. (See attached page)
16. **STAINLESS STEEL CONTROL BOX** – Box will include manual switch, fuses, and starter to control the pump.
A timer can be added to stop the pump after a pre-set number of minutes.
(ATC Motor Driven Timer – Box to meet Nema 4x standards.)