



# PRECISION PLUMBING PRODUCTS

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*“Specify with confidence - Install with pride.”®*

## Solo Prime Electronic Trap Priming System Installation & Maintenance Instructions



### DESCRIPTION:

SP-500 is an electronically activated trap priming device. Primer functions in conjunction with EMS, delivering potable water across an air gap funnel.

**CAUTION: SP-500** should not be defined as pressure feed trap priming system. Device must be installed a minimum of 12" above flood level of device being served. Trap primer should be mounted one foot above the finished floor for every 20 feet of trap priming line, measured from bottom of air gap.

### OPERATION:

EMS activated solenoid valve discharging potable water to P-trap

### INSTRUCTIONS PERTAINING TO A RISK OF FIRE ELECTRIC SHOCK, OR INJURY TO PERSONS

**\*\*\* IMPORTANT SAFETY INSTRUCTIONS \*\*\***

**\*\*\* SAVE THESE INSTRUCTIONS \*\*\***

**WARNING - When using electric appliances, basic precautions should always be followed, including the following:**

- a) Read all of the instructions before using the appliance.
- b) Do not contact moving parts.
- c) Only use attachments recommended or sold by the manufacturer
- d) Do not use outdoors.  
To disconnect turn all controls to the off position, then remove from connection.  
Disconnect power before servicing or cleaning.  
Do not operate any appliance with a damaged cord, or after the appliance malfunctions or is dropped or damaged in any manner. Return appliance to the nearest authorized service facility. For examination, repair, or electrical or mechanical adjustment.
- e) For a permanently connected appliance - Turn the power switch to the off position when the appliance is not in use and before servicing or cleaning.
- f) For a grounded appliance - Connect to a properly grounded outlet only. **See grounding instructions.**

### GROUNDING INSTRUCTIONS

This appliance must be connected to a grounded metal, permanent wiring system; or an equipment-grounding conductor must be run with the circuit conductors and connected to the equipment-grounding terminal or lead on the appliance.

### SAVE THESE INSTRUCTIONS

### INSTALLATION:

- 1) Primer's minimum elevation above floor rim of drain served shall be one foot. Device must be installed a minimum of 12" above flood level of device being served. Trap primer should be mounted one foot above the finished floor for every 20 feet of trap priming line, measured from bottom of air gap.
- 2) Solo-prime must be installed in an accessible location. For access door applications use 8" x 14" model D814 prime coat or stainless steel.
- 3) Connect 1/2" male NPT fitting (primer supply) to fresh water line, using Teflon tape. Connect priming discharge line (minimum 1/2") to inlet side of floor drain being served (not supplied). Ensure discharge line is properly sloped downward to the discharge point.
- 4) Connect primer drain line, distribution unit or PM manifold to system, ensure assembly is plumb and square.
- 5) Wire primer to Energy Management System, follow N.E.C. and local codes.

WATER HAMMER  
ARRESTORS

TEMPERA  
ANTI-SCALD VALVES

BAC-2-BAC  
MANIFOLDS

TRAP PRIMER VALVES  
AND MANIFOLDS

THERMOSTATIC  
MIXING VALVES

**POWER REQUIREMENTS:**

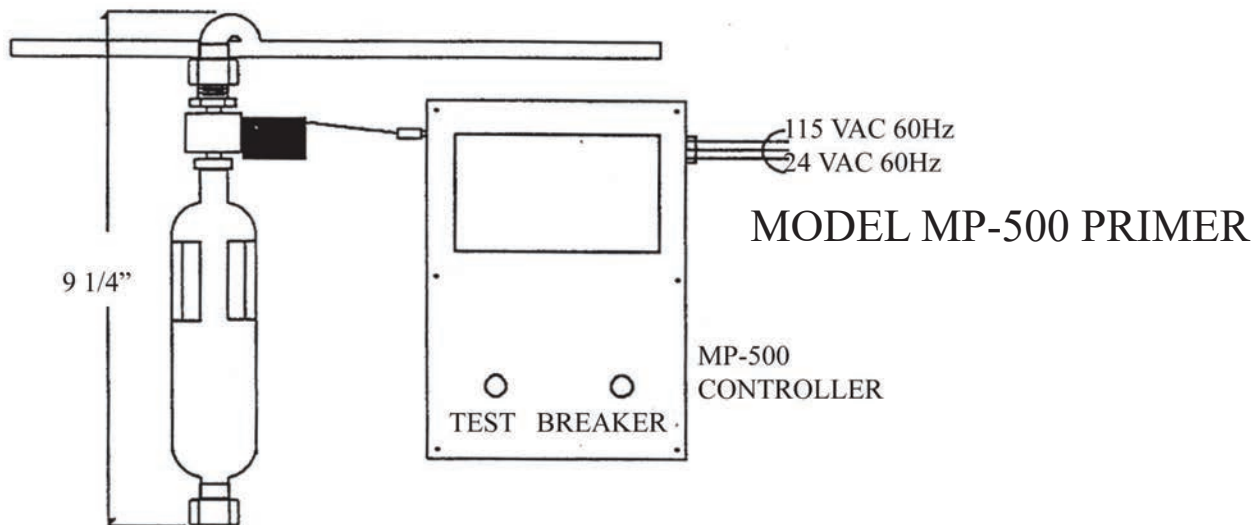
24 VAC	120 VAC
6.3 WATTS	6.3 WATTS
60 Hz	60 Hz

**TIMING:**

Solo-Prime utilizes an energy management system for timing primer output. The recommended cycle time is minimum of 6 seconds on time and 24 hours off time for 1-4 floor drain applications.

**DELIVERY RATE PER 6 SECOND FUNCTION:**

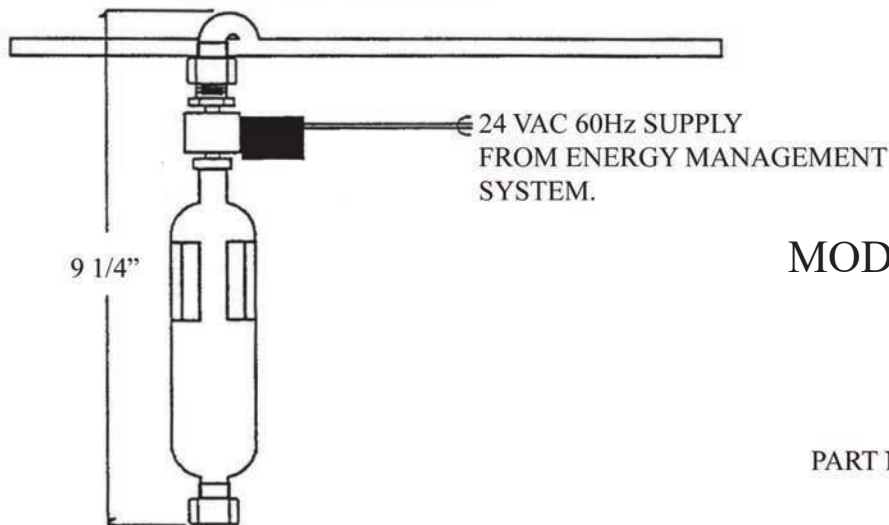
80 PSIG ----	275 ML
50 PSIG ----	250 ML
25 PSIG ----	200 ML



TRAP PRIMER VALVE SHOULD BE MOUNTED ONE FOOT ABOVE THE FINISHED FLOOR FOR EVERY 20 FEET OF PRIMER LINE.

PART NO. MP-500-24V  
MP-500-120V

**MODEL SP-500 PRIMER**



**MODEL SP-500 PRIMER**

PART NO. SP-500-24V