



Z1020/Z1020XL ELECTRONIC TRAP PRIMER TECHNICAL & INSTALLATION INFORMATION

Dimensional Data (inches and [mm]) are Subject to Manufacturing Tolerances and Change Without Notice
*Regularly furnished unless otherwise specified

Description

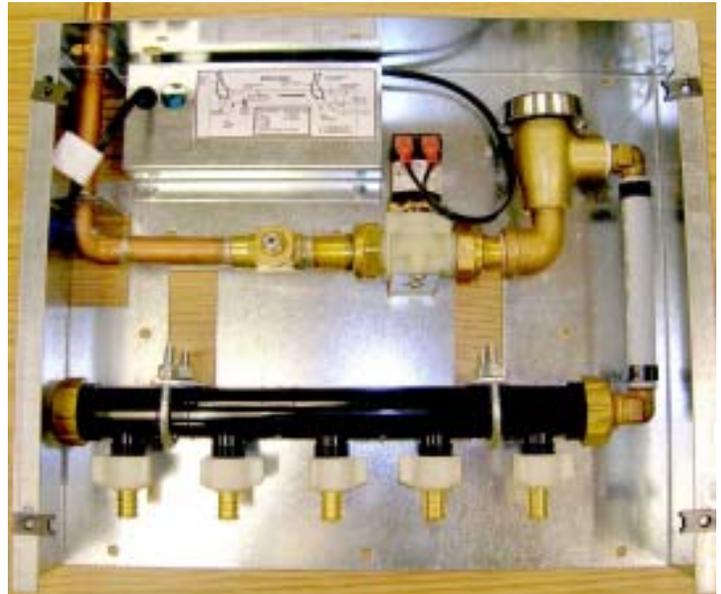
A complete, enclosed automatic electronic trap primer unit programmed to maintain the water seal of floor traps. Factory programmed with standard flush time intervals with modified intervals available for special applications. Includes vacuum breaker protection and fuse protection. Easy to install. Maintenance free and reliable.

Applications

Various commercial constructions such as hospitals, schools, manufacturing plants and warehouses, laboratories, bathrooms, and food processing facilities. Unit provides priming to various floor drains in a facility, avoiding possible odors eliminating from drains. Capable of servicing drains up to 60 ft. away. For applications requiring further distances, contact Zurn for custom versions.

Characteristics

- Low voltage (24VAC) with LED indicator.
- Permanently programmed electronic timer.
- Manual override and testing push button.
- Factory installed header with multiple ports supplies water to many traps.
- Factory programmed water injections to each trap set for 24 hours intervals. (Can be factory modified to your specific interval).
- Factory programmed water injection spray time set for 6 seconds as default. (Can be factory modified to your specific interval).
- Slow closing 24 VAC solenoid valve to avoid water hammer.
- Solenoid valve with integral strainer.
- Cast brass atmospheric vacuum breaker.
- 1/2" [13] copper water inlet for solder connection.
- Brass ball type stop valve.
- Durable manifold with 5 or 10 outlets.
- Pex or copper outlet connections.
- Cover and box made of galvanized steel.
- Complete unit is pre-assembled and pretested.
- Power supply transformer included.
- UL & CSA approved components.



Available Models

All models, complete with access panel and supply transformer, available in surface mount or recessed mount both in galvanized steel.

- 5 Outlets with mounting box (Surface or Recess)
- 10 Outlets with mounting box (Surface or Recess)

Technical Data

Type: Electronic programmed EPROM module controlling a solenoid valve.

Valve: Normally closed 24 VAC solenoid valve.

Inlet: 1/2" [13] Copper

Outlet Type: PEX or Copper 1/2" connections

Outlet Quantity: 5 or 10

Min. Pressure: 3 psi

Working Pressure: 20 to 100 psig

Default Settings:

- Frequency: 24 hours
- Injection Time: 6 seconds.
- Volume: 2 oz. min. per port

Frequency Choices: Special Request

Water Injection Time Choices: Special Request

Protection: 1 A fuse

Transformer: 120 to 24 VAC

Connections: Wires and Screw Terminal Blocks

⚠WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

⚠ADVERTENCIA: Cáncer y daño reproductivo - www.P65Warnings.ca.gov

⚠AVERTISSEMENT: Cancer et effets néfastes sur la reproduction - www.P65Warnings.ca.gov

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Installation

- Inlet connection to be soldered in compliance with ASME B16.23 or B16.29.
- The outlet of each port shall be connected via a sealed connection to the inlet side of each trap/drain served.
- The Electronic Trap Primer must be installed a minimum of 12" [305] (above the flood level of the highest trap/drain being served).
- Minimum recommended working water pressure of 20 psig to the Electronic Trap Primer.

Procedure

Note: The unit must be installed a minimum of 12" [305] above the flood level of the highest trap/drain being served.

- Unit must be installed in accordance with the National Electric Code or Canadian Electric Code.
- Secure the unit correctly between the wall studs or on the finished wall as near as possible to drains serviced.
- Connect the water inlet to main water supply. Make sure the ball valve is turned off.
- Connect all outlets from header manifold to floor drains.
- Plug all unused outlets.
- Install the transformer on the outside cover of a dedicated electric box.
- Install wire between transformer and electronic module (#18 Gage minimum wire, not more that 300 ft.)
- Make the supply connections to the leads on the transformer using wire nuts inside of the dedicated electric box.
- Push the test / override button to prime traps.
- Make sure water has reached all drains, and the traps are full of water.
- Continue pushing the override / test button until drains are all filled with water.
- For drains approximately 60 ft. away, repetitive priming may be required.
- Check for leaks in the installation.

Troubleshooting Guide		
Problem	Cause	Solution
System does not operate	1. No power supply.	Check if the 24 VAC LED is on, if not, check to ensure the transformer is energized. Make sure the transformer is connected.
	2. No water supply	Check if water is coming from water supply.
	3. Inlet valve is closed.	Open inlet valve.
	4. Valve strainer is blocked.	Unscrew inlet and outlet ring from solenoid. Remove the valve, remove the strainer, clean and replace.
	5. System has not been primed (test button).	Push the override / test button
One of the drains will not prime.	1. Tube to drain is bent or blocked.	Check for kinks or replace tube to drain.
System does not supply enough water in some or all drains.	1. There is a flow restriction in the tube.	Change tube to drain.
	2. Lack of pressure to drains.	Prime the system multiple times by pressing the test button.



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