FLUID CONTROLS ELECTRONIC TRAP PRIMERS
FIGURE NUMBERS 273
INSTALLATION AND OPERATIONAL INSTRUCTIONS

ASSE-1044

File 3253

UL 1951 CSA C22.2 No 68
CSA C22.2 No 14 File No. E10084

MODELS: 273, 273-B, 273-12V and 273-B-12V

DESCRIPTION:

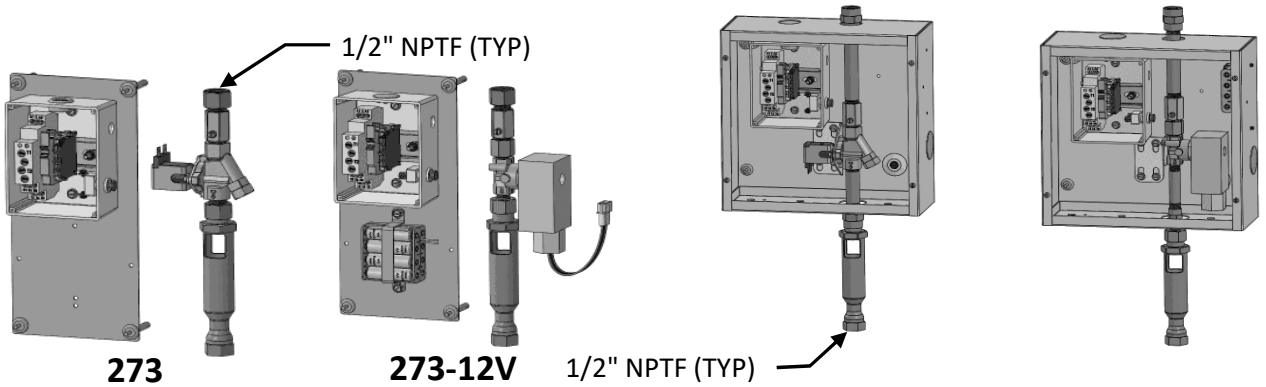
The Fluid Controls 273 is 24VAC, 120VAC, or 240VAC hardwired or a 12VDC battery operated trap priming device. When activated, the trap primer delivers water across an air gap funnel. **CAUTION:** This unit is not a pressure feed trap priming system. The device must always be located at a higher elevation than the drain(s) it serves. Trap primer feeder line(s) connecting the trap primer to the trap or drain shall be sloped to discharge point.

OPERATION:

A factory programmed timer energizes a normally closed solenoid valve. When energized, water will flow across the air gap for a preset period of time and is distributed via trap primer feeder line(s) (by others). The timer then de-energizes the solenoid valve and keeps it closed for 24 hours, until the next operational cycle occurs.

INSTALLATION:

1) Mount the Control Box or Wall Plate to stud or wall surface using screws or other appropriate anchors (by others). The unit must be accessible if mounted inside a wall. **Device must be installed a minimum of 12" above flood level of drain or trap being primed. Piping from the trap primer outlet must have a minimum 12" vertical drop from the bottom of the trap primer outlet, before turning horizontal. The maximum length of horizontal piping from the trap primer to the drain or trap being primed is 20 feet. If the horizontal piping from the trap primer to the drain or trap being primed exceeds 20 feet, an additional 12" of vertical drop is required for every additional 20 feet of horizontal piping.**
2) The trap primer unit must be installed with the inlet/outlet vertical and plumb.
3) Connect the **1/2" NPTF Trap Primer Valve Inlet** to the water supply line selected for the trap primer using an appropriate adapter fitting (by others). Seal threads with Teflon tape only. Use of thread sealant will void the warranty.
4) Connect **1/2" NPTF Discharge Connection** to trap feeder line, using an appropriate adapter fitting (by others), or to a Fluid Controls distribution unit for multiple drains (optional 2694DA or 2694DA-ABS). For the optional 2694DA-ABS (plastic threads), use the appropriate pipe sealant for plastic.
5) Connect primer feeder line to trap, making sure line is properly sloped for gravity feed (consult local code authority).
6) If the unit is a hardwired model, install wiring as per the diagram on Page 2 and in accordance with local electrical code. To access the electrical control box on the (-B) unit, remove the (4) screws holding the cover on the 10" x 10" enclosure. Replace cover once the electrical connections have been completed and tested.
7) For 273 and 273-12VDC models, the connector from the electrical control box must be attached to the solenoid valve, once wall plate and valve assemblies are installed.
8) Once connected to power, the Timer will perform a discharge cycle for the preset period of time.
9) Pressing the TEST button on the Timer will open the solenoid valve and it will remain open until the button is released.
10) On 12V models, replace batteries annually. Note: The battery enclosure is located inside the 10" X 10" enclosure on the (-B) model 12V trap primer.



273 **273-12V** **273-B** **273-B-12V**

WARNING: Cancer and Reproductive Harm WWW.P65WARNINGS.CA.GOV

HARDWIRE INSTALLATION

MUST BE PERFORMED IN ACCORDANCE WITH LOCAL ELECTRICAL CODE

Remove the (4) screws and cover on the electrical control box. Locate the grommeted hole on the top of the box . Connect the (3) electrical supply wires (by others) to the (3) terminals, as shown below.

CAUTION: For proper electrical safety and to prevent electrocution, the green ground wire must be connected to the ground terminal.

CAUTION: Replace the electrical control box cover and screws before opening the water supply shut-off valve on the trap primer inlet.