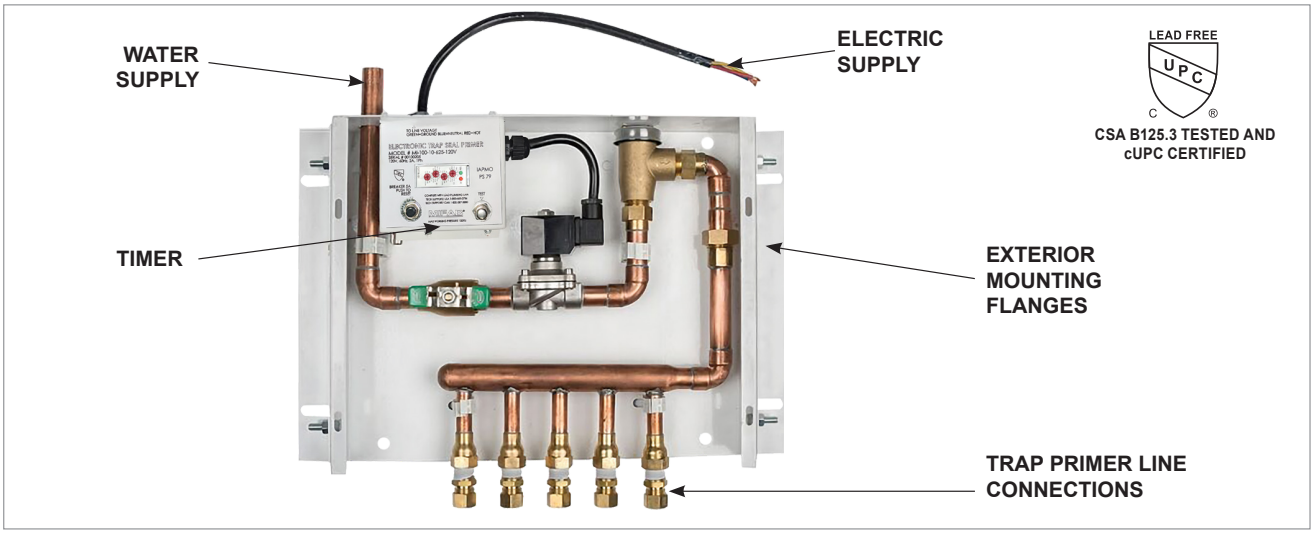
MI-100 ELECTRONIC TRAP SEAL PRIMER INSTALLATION INSTRUCTIONS



DESCRIPTION: The MI-100 is a pre-assembled electronic trap seal primer programmed to maintain the water seal of up to 30 floor drain traps. It is factory programmed to operate at pre-set flush time intervals and can be modified relative to the site condition or custom requirements. The MI-100 is manufactured with a BEECO vacuum breaker, is easy to install and is maintenance free. Typical installations are schools, hospitals, laboratories, stadiums, bathrooms, manufacturing facilities and food processing facilities. The MI-100 meets LEED credit 3.2 and 5.2 for water reduction and regional material usage.

APPROVALS: The MI-100 Series is tested and third party certified to the ASSE 1044 electronic trap seal primer Standard and listed with I.A.P.M.O. MIFAB® can manufacture it with either 24VDC, 120VAC or 220VAC electrical connections.

Note: All of MIFAB's electronic trap seal primers ordered with the 24VDC power option are equipped with a 120VAC plug adapter. The 120VAC plug adapter is designed to plug into a standard 120VAC three prong outlet. The plug adapter converts the voltage from 120VAC to 24VDC. The electronic trap seal primer internal components operate on the 24VDC supplied by the plug adapter.

INSTALLATION GUIDELINES:

1) Properly mount the MI-100 to the wall with # 14 wood or metal screws. It must be level and square. The MI-100 should be secured between wall studs or on the finished wall as close as possible to the drains being serviced.

2) The MI-100 is supplied with exterior mounting flanges for flush to the wall installations. For surface mount installations, remove the exterior mounting flanges and use the holes in the back of the cabinet to secure it to the wall.

3) The MI-100 must be installed a minimum of 12" above the highest drain being served. Note that the MI-100 should not be considered a pressure feed trap priming system. The manifold within the MI-100 must always be installed so that it is higher than the floor drain traps that it serves. The supply lines from the manifold to the floor drain traps should always be sloped to ensure proper water flow from the manifold to the floor drain traps. The MI-100 can be installed up to 100 feet away from the drains they serve as long as the MI-100 is installed high enough so that there is enough slope from the MI-100 to the drains to ensure water flow.

4) Properly connect the electric and water supply lines by following local codes and guidelines. The water supply should be connected to the 3/4" copper tube located on the top of the MI-100. Connect the trap primer supply lines to the manifold in the MI-100. The black wire is "hot", the white wire is "neutral" and the green wire is "ground". Note that the MI-100-24VDC model is always supplied with a 24 volt converter plug that plugs directly into a 120 volt wall outlet.

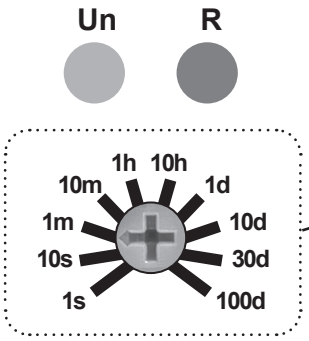
5) Connect either 3/8" copper tube (-500) or 1/2" copper tube (-625) water supply lines to the manifold connections (depending on whether the -500 (3/8") or -625 (1/2") manifold connections are chosen. Any unused connection ports of the manifold should be capped off. To do this, remove the entire compression connection from the underside of the manifold and then thread a ½" M.I.P. plug into the female threaded opening in the manifold.

6) Ensure that the water supply (with a minimum of 20 psig) is connected and then turn on power to the device. Ensure that the ball valve is open. The MI-100 will then cycle for a half second. Press the Test Button to repeatedly prime the unit. The Test Button may need to be pressed multiple times in order to have water reach all of the drains. Observe for any leaks within the MI-100 piping system. Ensure that all lines are free of debris.

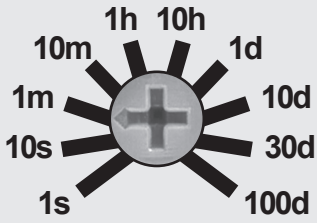
CALIFORNIA PROPOSITION 65 WARNING. This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TIMER ADJUSTMENT

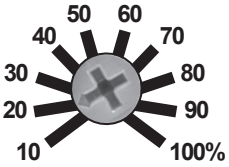
The pre-set timer operates a normally closed stainless steel slow closing solenoid valve. The timer consists of four adjustments dials. The “T1” time – this is the amount of time in between flow cycles and is adjustable from 0.1 second - 100 days (10 selections). The “T2” time – this is the amount of time that the unit is flowing water to the traps and is adjustable from 0.1 second - 100 days (10 selections). The MI-100 models are factory set to turn the stainless steel solenoid valve “ON” every eight hours for 8 seconds. MIFAB® estimates that when the line pressure is 40 p.s.i., 12 ounces of water will flow from the MI-100 manifold system for every half second that the stainless steel solenoid valve is on. Note that cold climate installations (meat lockers and cold storage areas) have an increased rate of evaporation than temperate areas and will therefore need more water flow to the floor drain traps to ensure that there is a constant water seal in the floor drain traps.

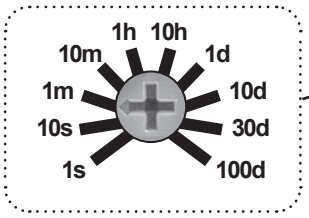


T1: HOW LONG THE UNIT STAYS ON

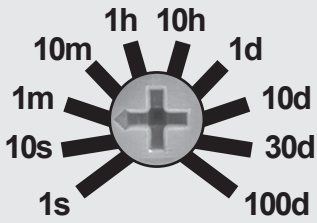


0.1 SECOND ~ 100 DAYS ADJUSTABLE

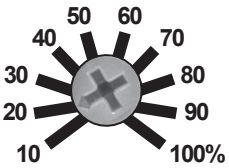




T2: HOW OFTEN THE UNIT TURNS ON



0.1 SECOND ~ 100 DAYS ADJUSTABLE



Percentage is under t1/t2 dial and works as a percentage of the set time. For example, If you want the unit to turn on every 8 hours for 8 seconds, the timer should be set to:

T1 SET TO 10S T1 PERCENTAGE SET TO 80% 10S x 80% = 8 SEC	T2 SET TO 10H T2 PERCENTAGE SET TO 80% 10H x 80% = 8 HRS

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