Instructions for Liqui-Matic Installation

Commercial Installation (T instructions applicable for homes)

Unit in most cases will be a 1" threadolet system with a 1/2" diameter, stainless steel probe. If the pipe is less than 2" the unit will come with a 1" T pipe system with a stainless steel probe attached.

When servicing main domestic line for the entire building, install as close to the water meter or entrance into the building as possible. Liqui-Matic only services what goes through and is beyond the unit installation. The unit has a schedule 80 plastic separator for the probe. The unit must be grounded, but the probe must be separated. (DO NOT replace plastic separator with metal bushing. This will weaken the efficiency of the probe and product).

Normal installation is drilling for a 1" threadolet, but if the pipe is 3" or less and is made of brass or copper the pipe walls are thin and you may have to do a saddle configuration with a 1" threadolet extension. If this happens it changes the size needed for the probe. Regarding the probe, the size of the pipe must be determined before order placement. If the pipe is 10" or less, one Liqui-Matic will be required to service pipe. If the pipe is over 10" in diameter more than one Liqui-Matic will be required to service pipe. An ideal situation regarding pipe and probe is that pipe is penetrated to within 1/2" from the inside of the other side of the pipe. (Do not touch the other side of the pipe). The size of the pipe determines the size of the probe. Other condition is that a 3" steel or iron pipe will take a 5" or 6" probe. If the 3" pipe is copper with a saddle set up, it will require up to an 8" probe. (Do not use a saddle extension with a value, it will create a ground to the probe and minimize its efficiency).

Shut off the water to the area of the application. Install the probe. Attach the box on the wall near the

probe. Attach the wire from the box to the probe. Plug the box into a grounded 110 outlet. (The outlet must be grounded. Some farm applications do not have grounded plugs. The unit will not work in this condition). When plugged in the light will glow. There may be a slight buzzing noise. If the glow is off, notify your Liqui-Matic representative.

If the installation is with a T-unit, the pipe will have to be cut using an appropriate adapter to fit existing pipe size. If a commercial property has independent closed loops for cooling towers, chillers and boilers in addition to the domestic line, install one Liqui-Matic at each independent line. If you have a shut off or transfer value between closed loops you only need one Liqui-Matic before the transfer value.

After Liqui-Matic is installed and the water is turned on, open spigots to get Liqui-Matic water into system. On the outside of buildings open outside values up to 5 minutes to get Liqui-Matic through the system. A large building can be started with opening of first value and walk perimeter opening values as you go. When returning to first value re-circle building shutting values back off. If you have water heaters, blow down after 3 to 6 weeks and every 3 months after for 1 year or until you see no evidence of scale at blow down exit.

If you have a cooling tower, make sure you blow down or empty sump pan. Scale will be removed quickly from the tower. If you don't empty sump, scale will go to the closed loop and have no way of exiting. No normal manufacturer maintenance. Once Liqui-Matic is installed on a closed loop system chemical feeds must be turned off. If Liqui-Matic prevents and removes scale and chemicals are not turned off, the chemicals will have nothing to attack but the metal. Also notify your water company if you are being charged a monthly fee for chemical use to stop the fee.