

Maxi-Cure

Congratulations on your purchase of the Maxi-Cure system.

Your Maxi-Cure system will provide you with numerous benefits as a result of multiple stages of filtration along with peace-of-mind in knowing that you are not contributing to the pollution of our water sources. No harmful contaminants will be discharged into the sewer or septic system that will cause down-stream ecological problems.

Your dealer, along with your assistance, has selected this system based upon the water-related problems that you wish to improve. The system's design is simple and the components are very reliable. You will experience many years of excellent water quality with rarely a need to repair or service the system. If parts are needed, we have utilized nationally recognized components that you will find readily available.

Location of the Maxi-Cure

Choose a location that is level and preferably not in direct sunlight. Minimizing direct sunlight will prolong the life of the system and its components.

Since the Maxi-Cure water is actually favorable to plants & lawns, if desired, you may install the system before the irrigation plumbing system.

Periodically, small amounts of trapped dirt and debris will be washed-out of the system during the backwash cycle. These trapped particles are discharged through the system's drain line and into a nearby drain (properly air-gapped). This drain must be able to accept a flow rate of 3 to 7 gallons per minute and a total volume of 30-50 gallons during a single backwash cycle. It is suggested that the drain be within 20 ft. of the system. The system will backwash itself every 10 days. Typically, the washing machine drain is utilized for this function. Since the Maxi-Cure does not discharge any harmful contaminants, it is often acceptable to discharge this water into a dry well or a lawn/garden saturator if the climate permits.

Installation of the Maxi-Cure

PLEASE NOTE: THESE ARE GENERAL INSTRUCTIONS THAT WILL PROVIDE GUIDELINES. MANY LOCALITIES HAVE RIGID CODES INVOLVING THE INSTALLATION OF WATER APPLIANCES. PLEASE CHECK WITH LOCAL CODE COMPLIANCE AUTHORITIES OR UTILIZE THE SERVICES OF A LICENSED PLUMBER AS NEEDED.

1. Locate the In & Out arrows that are located on the valve ports on the back of the valve.
2. It is imperative that the water flow in the proper direction through the system. The inward pointing arrow indicates the inlet flow to the system. Likewise, the outward pointing arrow indicates the

outlet flow to the house. These ports may be further identified with “Raw” (inlet) & “Treated” (outlet).

3. Plan your installation by giving careful consideration to the proximity of the drain receptacle (within 20 ft.), and a power connection.
4. Turn-off the water line shut-off valve. Check to make sure that the water is off by turning on a faucet inside of the house. Continue to open available faucets to drain the water from the lines.
5. Using proper plumbing techniques, cut-away a section of pipe on the main water line. Again, it is your choice if you wish to treat the water to the irrigation system. If so, the cut-away section must precede the tee that feeds that system. Please note this may cause the cut-away section to precede the pressure regulator. You must not exceed 100 psi to the system. If this is the case, you must determine a method for regulating the pressure below 100 psi. If you do not wish to treat the water to the irrigation system, the cut-away section must be after the tee to the irrigation system. This usually results in the cut-away section to follow the pressure regulator, which typically eliminates an excessive amount of water pressure from entering the system. It is good practice to always check the incoming water pressure regardless if it is regulated or not.
6. Again, using proper plumbing techniques, make the feed connection to the system by connecting the inlet line to the inlet side of the pipe connector and connecting the outlet line to the outlet pipe connector. Please note that you should not attempt to make sweat (solder) connections that are within 1 ½ ft. of any plastic components. If this is unavoidable, you should wrap a water-drenched cloth around the plastic components that are in question and attempt to keep these parts as cooled-down as possible.
7. Once the feed connection has been made, it is now time to make the drain connection. Locate an available drain within 20 ft. of the installation. If you plan to use flexible ½” drain line tubing, utilize the ½” barbed fitting that has been equipped with the system. This fitting should be applied to the valve with the use of Teflon tape as a thread sealant. If you plan to use ½” rigid pipe, you will need to utilize a ½” PVC male adapter fitting in place of the barbed fitting. Use Teflon tape to make the connection.
8. Begin to run your drain line to the drain receptacle. Plumbing codes require that you make a properly air-gapped connection once the drain line terminates at the drain. The distance between the drain line and the drain must be at least 1 ½”. An air gap provides security against the possibility of a cross-connection between the freshwater and wastewater systems. Special air-gap connectors are available-contact your dealer.

Start-up Procedure

1. With the valve plugged into a receptacle and the power on, place the unit into the bypass mode or if the system is not equipped with a bypass valve, make sure that the main-line shut-off is in the off position.
2. Remove the valve cover and familiarize yourself with the Extra Cycle Button. It is the left white button with a square symbol and arrows representing clockwise motion.
3. Put the system into the backwash position by pushing the Extra Cycle Button and holding for 5 seconds. The letters BW will appear flashing. When the flashing stops and the backwash time appears (factory set at 20 minutes for well water/15 minutes for city water) unplug the unit. Slowly open the bypass valve or the main water shut-off valve and let the tank fill with water at a rate of approximately 1-gallon per minute. This will purge the unit of air.

4. Once there is all water and no air being discharged from the drain line, open the bypass valve or main water valve completely. Allow unit to run to drain until the water to drain is clear. Please Note: During transportation some of the media within the unit becomes quite dusty. The initial water to drain may be black or gray. This is normal and to be expected and is no cause for alarm.
5. Plug in the unit to re-establish power to the timer. Once again press the Extra Cycle Button. The letters BD will begin to flash. When the flashing stops, press the Extra Cycle Button again and see the letters RR flashing. When the flashing stops and the minutes of rapid rinse appear (factory set at 15 minutes for well water/10 minutes for city water), unplug the unit.
6. Allow rapid rinse water to flow to the drain until water appears to be clear. Plug unit back in. Push the extra cycle button.
7. (----)Four Dashes will appear meaning the piston is resetting itself.
8. A number 3 will appear and automatically switch back to the time.
9. Set the actual time of day at this point by holding the up or down arrows as required. A 'TD' will appear in the right hand corner (Time of Day) OR review the entire valve program to double check or to make changes in the following way: (NOTE: System is always preset when it leaves our warehouse. Usually all you need to do is change the time of day)
 - a. Set time at 12:01 P.M.
 - b. Push the extra cycle button. (A faucet should be showing on the left side of the display)
 - c. Simultaneously push the up and down buttons. Hold for 5 seconds
 - d. DF should show on the left hand corner (Display Format). Set to GAL (gallons). Push the extra cycle button.
 - e. VT should show on the left hand corner (Valve Type). Set to FLtr (Filter). Push the extra cycle button.
 - f. CT should show on the left hand corner (Control Type). Set to tc (Time Clock). Push the extra cycle button.
 - g. NT should show on the left hand corner (Number of Tanks). Set to 1. Push the extra cycle button.
 - h. DO should show on the left hand corner (Day Override). Recommendation is set at 3. You can change accordingly for amount of days in between system backwash. Push the extra cycle button.
 - i. RT should show in the left hand corner (Regeneration Time). Change this according to when no one in the house/facility is using any water. It is pre-set for 2:00 a.m. Push the extra cycle button.
 - j. BW should show on the left hand corner (Backwash). Set to 20 minutes/15 minutes for city water. Push the extra cycle button.
 - k. RR should show on the left hand corner (Rapid Rinse). Set to 15 minutes/10 minutes for city water. Push the extra cycle button.
 - l. Your system is now ready. Set the time according to your local time.
10. Observe entire unit for leaks. Correct as necessary before leaving job site. Confirm that inlet and outlet are not reversed. Be sure that by-pass valve(s) are in the service position.
11. Run water at all faucets to purge lines of any air that may have gotten into the system during installation.

LIMITED WARRANTY

The Maxi-Cure units are warranted against defects in materials or workmanship for the various components according to the following schedule:

Pressure Vessel. 10 years
In-tank catalytic/magnetic device. 5 years
Control valve excluding motor. 5 years
Control valve motor. 2 years
All other components. 1 year

Warranty is only valid to the original owner at the original installation location. Unit must be installed on water supplies within limits as outlined below:

Water temperature range. 38 to 100 degrees Fahrenheit.
Maximum water pressure. 100 psig.

Any damages caused by freezing, accident, fire, flood, act of God, misuse, misapplication, neglect, or alterations are not covered by this warranty. Installation or operation contrary to our written instructions or contrary to advice provided by phone, fax, or requested verbal instructions will void this warranty.

Our obligation under this warranty is limited to the repair or replacement of the defective parts of the unit. We assume no liability whatsoever for incidental or consequential damages from any cause.

All items under the period of warranty and suspected to be defective in accordance with the above conditions are to be returned pre-paid to the manufacturer for inspection. Upon inspection the manufacturer will at their option repair or replace items as needed. If it is determined that the failure is due to conditions not covered by this warranty, then repair or replacement costs will be borne by the owner of the system.

If there are any uncertainties about this warranty or concerns about the application of the equipment covered by this warranty please contact the selling party or the manufacturer BEFORE installation and start-up of the equipment.