



SEPR TIMER CONTROLLER SPECIFICATION—LOGO

The controller shall be enclosed in an outdoor electrical control box located near and connected to the hydraulic unit. The control panel shall be powered by 115 or 230 volt supply and the microprocessor shall have 120V and 120V AC inputs and relay outputs for automatic operation of the Perc-Rite® Drip System. When in the "Hand" or "Off" position, the manual switches (Hand-Off-Auto) provided with the control panel, shall completely bypass the microprocessor. The "Hand" position will allow manual operation of each component for operational verification or in the event of a microprocessor failure.

The pump timer control panel shall be equipped with four float switches to control the timed doses to be discharged. The four float switches, "Redundant Off", "Standard Dose Enable", "Peak Dose Enable" (optional), and "High Level" function as follows:

Redundant Off Float operation - The water level must be high enough to overcome the "Redundant Off" (first & bottom) float in order for the pump to be permitted to run. The redundant off float shall be redundant to the timer to stop the pump.

Standard Dose Enable float operation - When the water level rises high enough to overcome the "Standard Dose Enable" (second) float and the time clock has timed out the preset (and adjustable) time delay (rest between dosing cycles) the pump will activate. The pump will continue to run for the length of time as adjusted on the pump run timer and then shut off. The pump will remain off until the internal time clock again times out after which the pump will activate (as long as the "Standard Dose Enable" float is still up) and will run until the pump run timer finishes timing out. This process will repeat until the water level drops below the "Standard Dose Enable" float and the pump run timer has timed out. The pump will continue to run when the float is disabled in order to allow the timer to time out and turn the pump off.

Peak Dose Enable float - The control system shall be equipped with a "Peak Dose Enable" circuit to manage peak flows and up to "design water use". If the rising water level activates the "Peak Dose Enable" (third) float and the preset (and adjustable) time delay has timed out, the pump will be dosed. When the peak circuit has been deactivated the normal pumping cycle will resume.

High Level - If the water level rises enough to overcome the "High Level" (fourth) float, the audiovisual alarm will activate. The audio portion of the alarm may be silenced by pressing the Test-Normal-Silence switch (located on the outside of the control panel) to the silence position. The alarm circuit will auto reset when the "High Level" float returns to its normal (down) position. The high-level alarm float shall be a wide-angle float in order to latch the alarm signal.

The controller shall be provided with editable screens to facilitate the adjustment of standard and peak run times and rest times. The controller shall be provided with the ability to enable or disable the peak alarm float, pump fail alarm, and auto reset alarm. The controller shall be provided with screens to monitor float position, target and elapsed times for run and rest times, and event counter and elapsed time.

The control shall be UL 508A listed, inspected and labeled. The control shall include NEMA rated enclosures, color coded wiring, electrical schematics, a sequence of operation datasheet, and numbered terminal blocks. Manufacturer shall have 10+ years' experience in both design and manufacturing of wastewater systems and shall provide technical and installation support by an 800 number phone access.

The options in the control shall be as detailed in the Model Number. The control shall be manufactured by American Manufacturing Company, Inc., of Elkwood, Va.

American Manufacturing Company, Inc.

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