

AMERICAN



DRIP DISPERSAL SYSTEMS

RESIDENTIAL PERC-RITE®

PATENT NO. 5,200,065

PATENT NO. 5,984,574

PATENT NO. 6,261,452B1



Disperse Economically, Effectively, Permanently

**Innovative Technology
for the Environmental Age**

American Manufacturing Company, Inc. 1-800-345-3132
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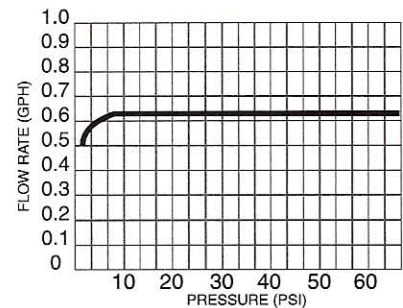
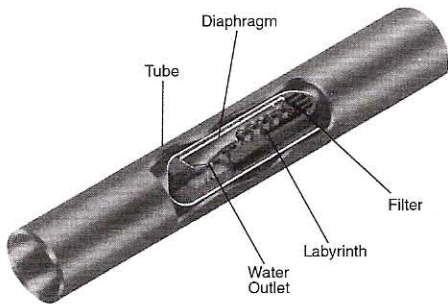
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PERC-RITE® DRIP SYSTEM

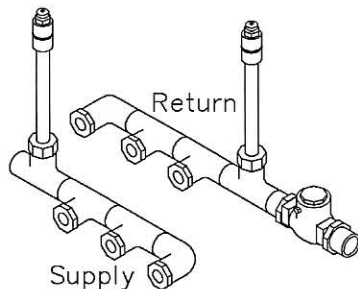
The system control panel is equipped with four float switches and controls the timed doses to be discharged. The water level must be high enough to overcome the "Redundant Off" (Bottom) float in order for the pump to run. When the water level rises enough to overcome the "Dose Enable" (second) float and the timer is in a dose enable mode the cycle will initiate. The pump will activate and automatically backflush the disc filters then dose the lead zone. The pump will continue to run for the length of time as set on the pump run timer to provide a complete dose. The system will remain off until the preprogrammed time enters a new cycle enable mode, at which time the control will activate another cycle and dose the new lead zone (as long as the "Dose Enable" float is still up). This process will continue until the water level drops below the "Dose Enable" float and the pump run timer has timed out. Each zone will automatically receive a field flush each 25 cycles to clean the drip tubing.

The control system is equipped with a peak enable circuit to manage peak flows and excess water use event. If the water level rises enough to overcome the "peak enable" (third) float and the peak enable selector switch is on, the system will be cycled at the peak (design) rate. The system will continue to cycle at an increased rate until the peak enable float is deactivated at which time the system will resume the normal dosing cycle. In the event the water level continues to rise enough to overcome the "High Level" (fourth) float, the audio/visual alarm will be activated. This condition alerts excess water use in addition to possible mechanical failures.

The construction of the "bioline" drip tubing is unique in that the internal diaphragm and labyrinth provided for an exact amount of effluent to be discharged from each of its emitters which are normally spaced at two foot intervals along the entire length. Each emitter maintains a constant flow over pressure ranges of 7 to 70 psi. Because the effluent is distributed at an ultra low rate, large quantities of effluent may be economically distributed over large areas during controlled periods of time without saturating the surrounding soil.



For slopes over 10%, systems must be designed with top feed manifolds to control draindown after the pump shuts off.



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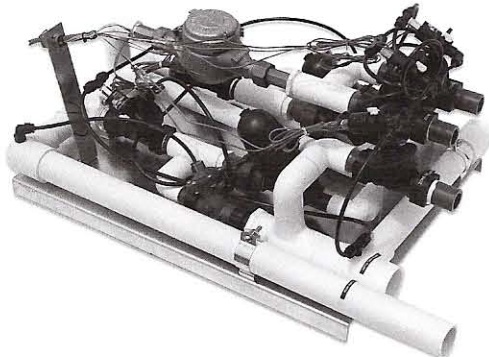
TOP FEED MANIFOLD

DRIP TUBING

for WASTEWATER DISPERSAL

AIR & VACUUM RELEASE

The dual action air release valve vents air out of the piping network during filling and as important, allows air out of the system after the pump shuts off. Air release valves are provided with the zone return kit for each zone.



HYDRAULIC UNIT

Disc Filtration - The submersible pump delivers unfiltered effluent to the unit. The filter backflushing schedule is triggered at the beginning of each dose cycle. One filter valve closes, thus blocking the flow of unfiltered effluent to that filter thereby backflushing the unused filter. The accumulated impurities discharge back into the pretreatment unit. The closing and opening procedure of the filter and back flush valves causes a change of flow within the unit to provide filtered water from one filter to backflush the other.



HYDRAULIC UNIT AND CONTROL INSTALLATION

OPERATION AND MAINTENANCE

The **Perc - Rite®** drip dispersal system provides a user friendly operator interface with no programming skill necessary to operate system. The only thing that varies is the run time. Each mechanical component has a H-O-A switch (Hand-Off-Auto) which can be used to check component operation.

Dialers and remote monitoring are available at additional cost. Data acquisition through a hand held computer device can collect substantial operational data. Please check our web site for more details.



SIMPLEX CONTROLS

Three or four float simplex or duplex controls provide duty rated contactors and efficient operator interface.

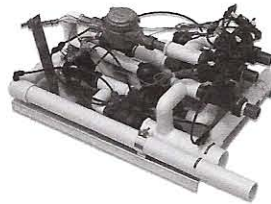
American Manufacturing Company, Inc. manufactures many specialty Onsite Wastewater Products including the **Bull Run™ Valve**, **Dial-A-Flow™**, **Distribution Boxes**, **Accessories** and **Controls**. American also supplies as an Original Equipment Manufacturer (OEM) many other products unique to the Onsite industry.



**AMERICAN
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featuring... **Bull Run Valve™**
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Timer Controls



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