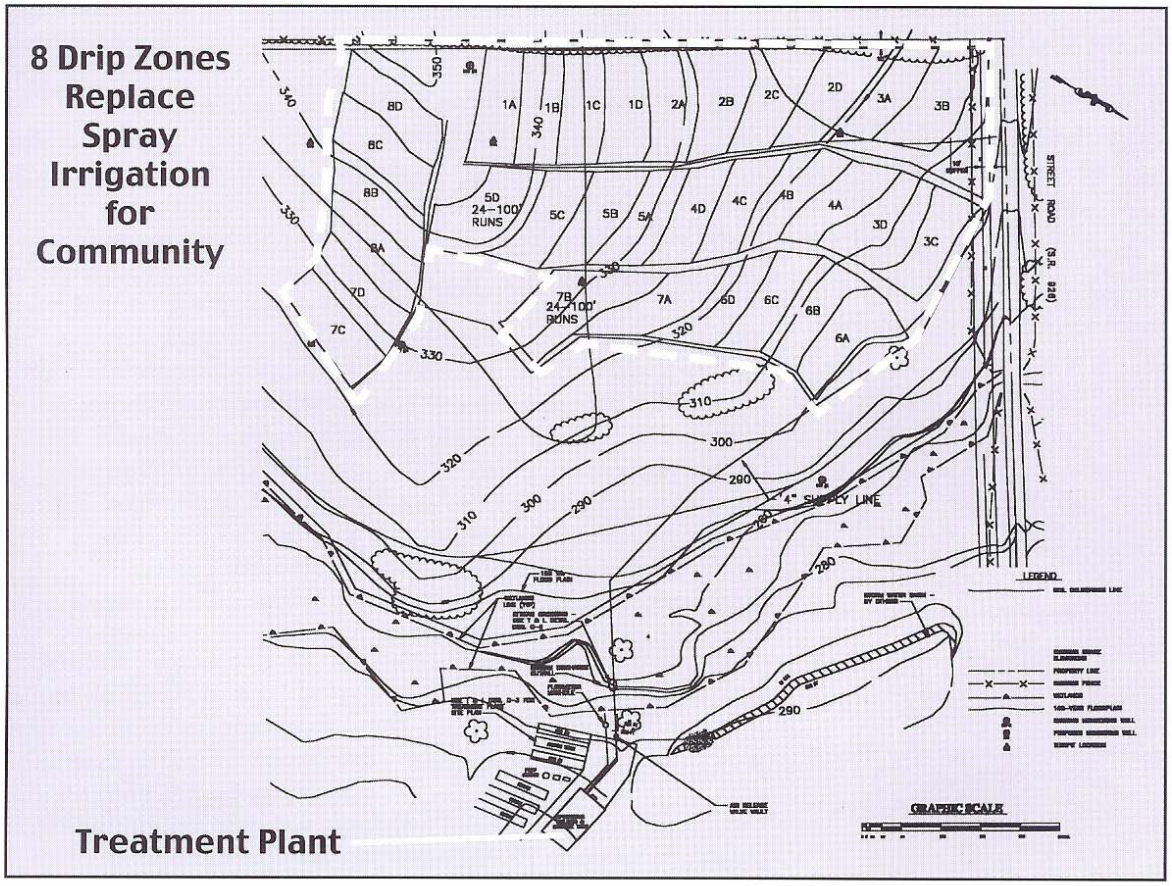
AMERICAN

PERC-RITE® DRIP DISPERSAL SYSTEMS

LAND APPLICATION *for* ONSITE WASTEWATER

Disperse Economically, Effectively, Permanently



Patent No. 5,200,065

ELIMINATE SPRAY ✦ REDUCE STORAGE ✦ REDUCE BUFFERS

Innovative Technology for the Environmental Age

American Manufacturing Company, Inc. 1-800-345-3132
P.O. Box 549 • Manassas, Virginia 20108-0549

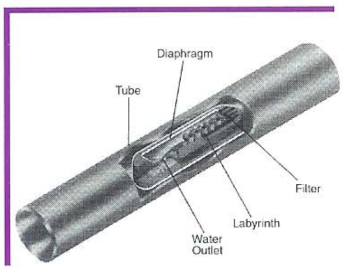
www.americanonsite.com

PERC-RITE® DRIP SYSTEM OPERATION

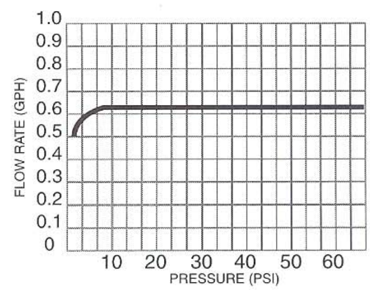
The system control panel is equipped with three float switches and controls the timed doses to be discharged. The water level must be high enough to overcome the "Redundant Off" (Bottom) float in order for the pump to run. When the water level rises high enough to overcome the "Dose Enable" (second) float and the timer is in a dose enable mode the cycle will initiate. The pump will activate and automatically backflush the disk 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 off timer 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 50 cycles to clean the drip tubing.

If the water level rises enough to overcome the "High Level" (third) float, the audio/visual alarm will be activated until silenced by pressing the Test-Normal-Silence switch to the silence position. The alarm circuit must be manually reset when the "High Level" float returns to its normal position.

Pressure Compensating Dripperline for Wastewater



The dripperline for wastewater is used for both surface and subsurface effluent disposal and recharge. American uses the perfect hydraulic delivery system, considered to be the world's most accurate pressure compensating dripperline. The patented self-flushing, free-floating diaphragm cleans itself during operation. The drippers are located every two feet in the 1000 foot rolls and provide 0.61 gallons per hour per emitter. In most applications the tubing is placed two feet on center providing one emitter for every four square feet of total area.

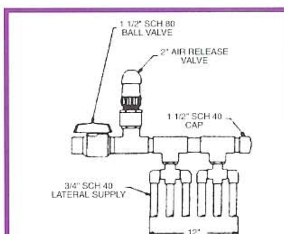


Zone Control Valve

This solenoid activated diaphragm valve is engineered to perform reliably under the most challenging conditions. All valves use direct sealing diaphragms and are constructed with minimal parts - no stem, seals, or bearings. The unique structure of these valves allows a straight flow pattern with very low friction loss.

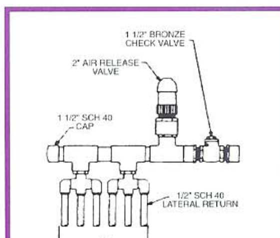
Supply Manifold, Return Manifold

For slopes greater than 10%, systems must be designed with top feed supply and return manifolds. These manifolds control "draindown", the event that occurs which overloads the lower laterals in a zone after the pump shuts off. The manifolds control the amount of water that can drain into each individual lateral.



1 1/2" SUB-ZONE SUPPLY HEADER, 6 CONNECTIONS

Supply Manifold



1 1/2" SUB-ZONE RETURN HEADER, 6 CONNECTIONS

Return Manifold

Patent No. 5,984,574

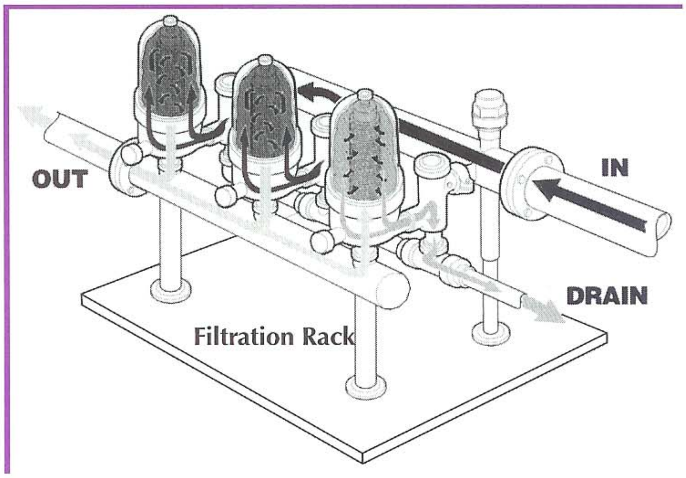
Air Release & Vacuum Valve

The new dual function "Guardian" is corrosion resistant made of fiberglass reinforced U.V. protected nylon, Maximum working pressure 150 psi. Drip tight sealing at low pressures.

Disc Filtration

Disc Filtration is an innovative approach to solids removal from liquids. The unique structure allows for high efficiency filtration, low backwash volume, and reusable elements. The discs are flat, grooved plastic rings with a hole in the center. Rings are stacked together to form a cylindrical filter element. As effluent is pressurized into the filter, it compresses the rings tightly together. The grooves in the rings criss-cross, forming a network that traps the solid particles which are larger than the grooves. Filtered liquid exits from the inside of the cylinder providing reliable operation. Disc filters come in a full range of sizes and capacities for the various size systems.

Wastewater for Drip Dispersal is filtered with a mesh size of 140. This provides a 115 micron maximum size particle in the filtrate. When used with the Pressure Compensating emitter, the filtration ration is 6:1. This ratio amounts to placing a baseball through a basketball hoop. The emitters will not plug from particles coming through the filter system.



Backflushing of the filters is performed automatically on a time cycle basis or on larger systems with pressure drop. The filtration system is designed to take filtered effluent from one or more filters and use it for backflushing the other. Filtration systems used in commercial applications employ "spin-clean" filters which automatically separate the discs during backflush to allow them to spin to more efficiently and remove retained solids particles for the discs.

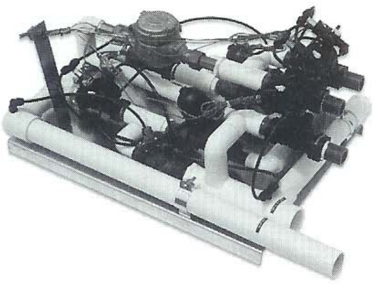
Drip Dispersal Control System

American Manufacturing becomes involved with the entire operation of the system whether RESIDENTIAL, COMMERCIAL, or COMMUNITY wastewater system. American has staff professional engineers, designers, soils scientists, and trained sales people with State-of-the-art experience in drip system control.

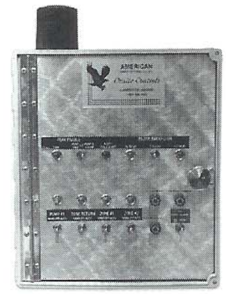
Our objective is to provide the most practical, economical, and efficient operating system for fluid handling. We inventory many standard application controls and are able to manufacture special application panels in a very timely manner due to our modular design and manufacturing methods.

Remote Operation & Monitoring with graphics interfaces are available and required on large systems. American's Engineering Catalog, Service Guide, Internet access Model Number builder and more are available to the designer/specifier.

PERC-RITE® RESIDENTIAL DRIP DISPERSAL



RESIDENTIAL FILTRATION UNITS *are available in two, three, and four zone and 15 gallons per minute capacity. Total daily flows to 2500 gallons per day.*



RESIDENTIAL CONTROLS *provide user friendly operator interface with no programming skill requirements.*

TUBING — *Pressure compensating drip tubing 0.6 gph, the perfect distribution system*

American Manufacturing Company, Inc. manufactures many specialty Onsite Wastewater system packages including **Recirculating Sand Filter Treatment** components, **Pump Station Equipment,** and state-of-the-art **Drip Disposal Systems. Remote Operation and Monitoring Systems** for conventional large system drainfields and **High Strength Waste Management.**

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