



# AMERICAN

## Manufacturing Company, Inc.

### PERC-RITE® Drip Distribution

#### Next Generation Drip

The control design of drip distribution has evolved with technology over the past 30 years. Current system design features enhanced monitoring, control and data acquisition for better sustainability.

#### Conventional Drip

For Septic or Secondary Effluent water quality, automatic systems are self maintaining and can go years without servicing. Filters are fully cleaned at the beginning of each dose cycle.

#### Custom Drip Integration

American will work with designers to integrate drip distribution into projects to provide state-of-the-art control and economical and user friendly design.

#### Control Integration

American's design team will work with designers to provide control integration of complete systems for water and wastewater projects.

#### Proprietary Products

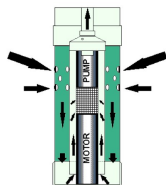
American's proprietary products include the Bull Run™ Valve and Dial-A-Flow™ for conventional system enhancement as well as Perc-Rite® drip dispersal systems integrated into the most advanced treatment systems.



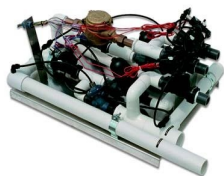
STANDARD REST TIME			PEAK REST TIME		
HOURS	MINUTES	SECONDS	HOURS	MINUTES	SECONDS
03	00	00	01	30	00

DOSE VOLUME		ELAPSED TIME METER		DIAL ZONES	
GALLONS	LAST DOSE	COUNTER	GALLONS	FLOW MONITOR	DOSE BY VOLUME
400	135	0000000000	0000000000	ON	ON
FIELD FLUSH FREQ-CYCLES		PRESSURE DELAY-S		RESET TOTALS	
25	120	0000000000		0000	
REMAINING CNT		PRESSURE DELAY-S		COPY ZONE 1 TO ALL ZONES	
24	0000	30 20 50 120		60 0000 0000	



CoolGuide™



Perc-Rite® Filtration



Bull Run™ Valve



Dial-A-Flow™



# PERC-RITE® Drip Dispersal Systems

When a designer chooses to specify American's proprietary drip system American will provide full design support, installation oversight, and operational support for the life of the system. This unmatched support includes training for all professionals involved in the design, installation, operation or regulation of the system.

Perc-Rite® features fully automatic operation including forward field flushing, time dosing, filter flushing and peak dosing.



## Drip System Components

American provides a full range of drip system components to be specified into common integrated drip designs for both residential and commercial projects. All components are proven for use in wastewater systems for economical and sustainable designs.



### CROSS SECTION OF BIOLINE DRIPLINE

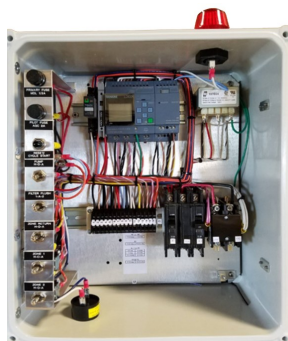
Bioline dripper inlets are positioned in the center of flow where water is the cleanest



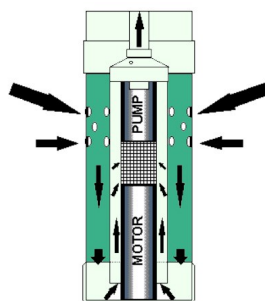
Drip Tubing



Disc Filtration



Perc-Rite®  
Drip Control



CoolGuide™



Top Feed Manifold  
Patent No. 5,984,475

[www.americanonsite.com](http://www.americanonsite.com)



# Control System Integration

## **BLACK RIVER CORRECTIONAL CENTER, Black River Falls, WI**

In 2013 AMERICAN ONSITE CONTROLS with the assistance of our representative assisted the engineer with the integration of a multifunction control system managing triplex pretreat pumps, duplex time dose discharge pumps, four motorized ball valves with limit switches, triplex blowers, with full frame breakers, NEMA rated starters and contactors, NEMA 4S stainless steel enclosure, through the door main breaker disconnect, voltage monitor, heater, dialer, oil tight lights and switches, 8" color Red Lion HMI, and Allen-Bradley MicroLogix PLC with data logging program.

ENGINEER: MSA Professional Services, Baraboo, WI, Doug Wilcox



## **PLANT BOWEN POWER STATION, Cartersville, GA**

In 2014 AMERICAN ONSITE CONTROLS provided a multifunction, integrated control managing duplex pretreat pumps, duplex mixers, froth pumps, and triplex blowers, with full frame breakers, NEMA rated starters and contactors, NEMA 4S Stainless steel enclosure, through the door disconnects, voltage monitor, oil tight lights and switches, 10" Allen-Bradley Panelview Plus HMI, and Allen-Bradley CompactLogix PLC with data logging program.

SUPPLIER: Pentair Delta Treatment Systems., Denham Springs, LA,



## **COURTS AT CHESTER SPRINGS SUBDIVISION, West Vincent Twp., PA**

In 2017 AMERICAN ONSITE CONTROLS & AMERICAN PERC-RITE® DRIP DISPERSAL: Three multifunction, integrated control panels managing a 24 zone Perc-Rite® Drip System (50,000 gpd, 92,000 l.f.), ASD90 hydraulic filtration unit, duplex high head turbine pumps with soft starters, multi-filter, remote drip zones, NEMA4 enclosure, oil tight lights and switches, Ethernet Switches, cellular gateways and antennas, 10" Allen-Bradley Panelview Plus HMI's, and Allen-Bradley CompactLogix PLC's with data logging program.

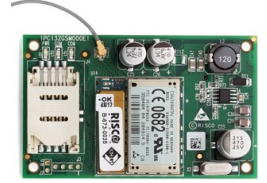




## Advanced control options To fit any budget.

### VFD

Variable Frequency Drive components provide economical and energy efficient operation for flow control and soft start applications.



### Cellular Modems

Cellular modems are viable communication alternatives in most areas of the country for both alarm enunciation and remote finite data acquisition and control.



### Radio Communications

For installations when running control wire is problematic or cost prohibitive, line of site radio control is an economical and reliable alternative.

### Data Logging

Data logging has become a common design utility for small remote wastewater systems to give the operator recent operational data for efficient determination of the operational status of systems.

### TVSS

Transient Voltage Surge Suppression components design is critical for systems designed in open land areas to assist in minimizing damage and operational outages due to lightning events.

### BACKNET

American Manufacturing can integrate our control panels into a new or existing "Building Automation Control" system.



### IIOT

The "Industrial Internet of Things" term comes down to the ability to monitor and control systems remotely. This includes computers, phones, PLCs and tablets used to access a control system from anywhere in the world and maintain the ability to monitor and adjust settings on the remote system, American can assist.

### Remote Control

The PLC based systems American offers are the most flexible and reasonably priced backbones for systems. Remote software is provided at no charge and very user friendly. This



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