



AMERICAN

Manufacturing Company, Inc.

PERC-RITE[®] CONTROLLER MANUAL

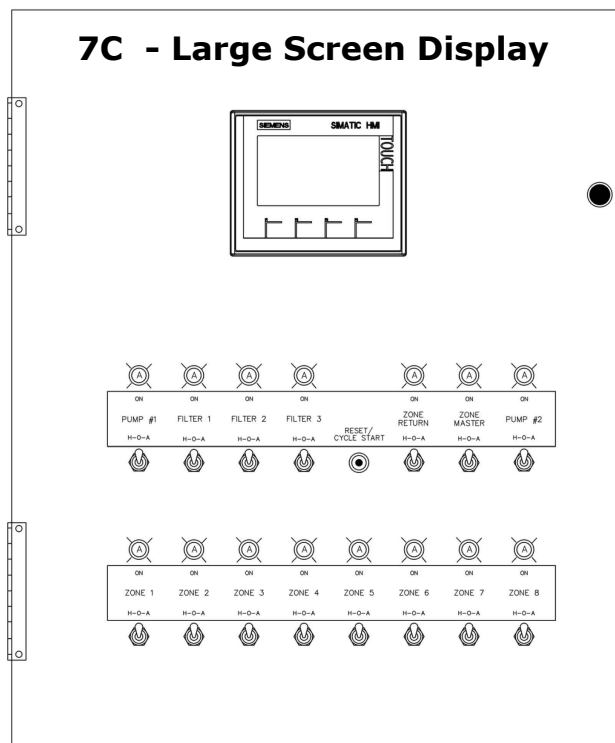
With 7C - Large Screen Controller

O&M

For WASTEWATER DRIP SYSTEMS

4 ZONE to 24 ZONE DUPLEX

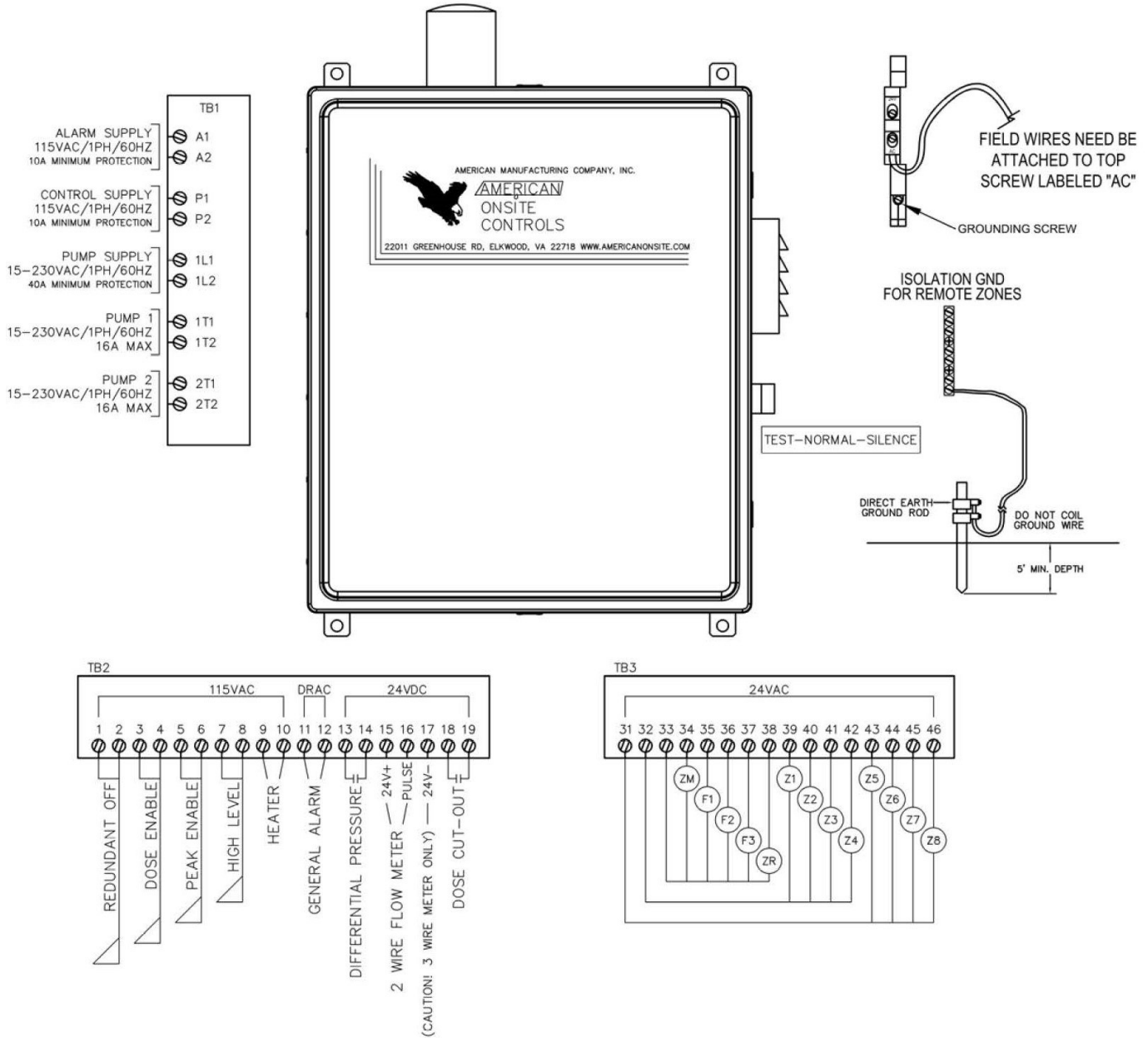
PATENT NO. 5,200,065 ; 5,984,574 ; 6,261,452B1



MANUFACTURED BY:
AMERICAN MANUFACTURING COMPANY INC.
22011 Greenhouse road Elkwood, VA 22718
1-800-345-3132

INSTALLATION SCHEMATIC

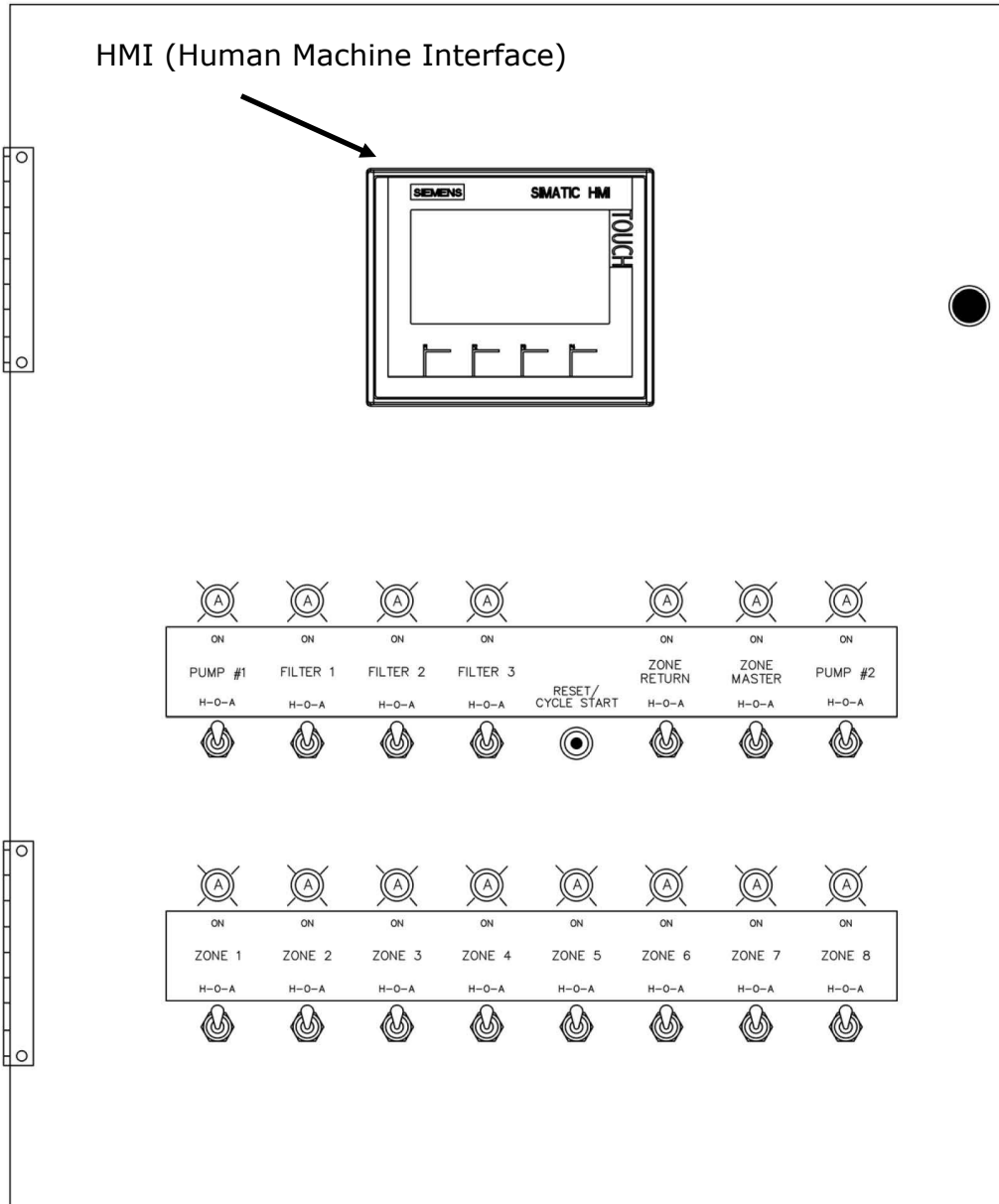
An installation schematic is provided with each system to provide directions to the installer for connecting each component to the control panel. Terminal block 1 (TB1) and terminal block 2 (TB2) are standard. Terminal Block 3 (TB3) is dependent on the number of zones.



4 to 24 ZONE Control—Inner Door & Operator interface

The Perc-Rite® Control panel is designed using a PLC (programmable Logic Controller) for automatic operation of the entire system. Operational data is available internally that can be used for a historical operational record. In the event the PLC becomes inoperable, the system can be manually operated using the H-O-A (Hand-Off-Auto) switches provided for each component.

WARNING: Never leave components in the "Hand" position unattended! Extended operation of any component will lead to failure.



OPERATIONAL SETUP

OWNER: _____

VALUES

DATE: _____

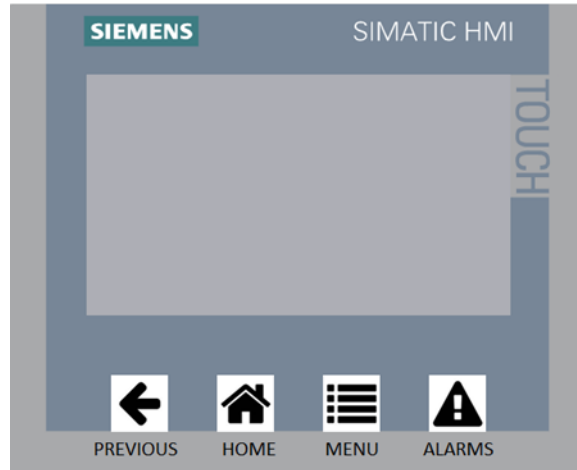
The operations setup values are mostly preset values and conditions in the PLC. The program will handle up to 24 zones and automatically adjust zone and filter operation based on the number of control switches in automatic (AUTO).

1. Auto Reset Alarm	(ON/OFF)	Typ. (ON)
2. Low Level Alarm	(ON/OFF)	Typ. (OFF)
3. Float Fail Alarm	(ON/OFF)	Typ. (OFF)
4. Standard Rest Time	_____	Typ.(1 HR)
5. Peak Rest Time	_____	Typ. (30 min)
6. Pump 1 & 2 Fail Alarm	(ON/OFF)	Typ. (OFF)
7. Dual Pumps	(ON/OFF)	Typ. (OFF)
8. Flow Meter Gal/Pulse	_____	Typ. (1,10)
9. Filter 1 Dwell Time	_____	Typ. (3 sec)
10. Filter 1 Flush Time	_____	Typ. (12 sec)
11. Filter 2 Dwell Time	_____	Typ. (3 sec)
12. Filter 2 Flush Time	_____	Typ. (12 sec)
13. Filter 3 Dwell Time	_____	Typ. (3 sec)
14. Filter 3 Flush Time	_____	Typ. (12 sec)
15. Diff. Pressure Delay	_____	Typ. (10 sec)
16. MAX/DAY*	_____	Typ. (5)
17. Backwash by flow	_____	(Gallons)
18. Dual Zone Dose	(ON/OFF)	Typ. (ON)
19. Zone Dose by Volume**	(ON/OFF)	Typ. (OFF)
20. Flow Monitor	(ON/OFF)	Typ. (ON)
21. Dose Volume	_____	(Gallons)
22. Dose Time	_____	(min:sec)
23. Field Flush Freq. Cycle	_____	Typ. (25)
24. Field Flush Press. Time	_____	Typ. (150 sec)
25. Flow Monitor Set gpm	_____	gpm
26. Variance alarm %***	_____	Typ. (20%)
27. Catastrophic Alarm %****	_____	Typ (50%)

- NOTES:**
- * Max backwashes per day before alarm sounds.
 - ** Dose by volume or Time dose values show only if enabled.
 - *** Variance sound alarm
 - **** Catastrophic shuts down zone for future use until reset

HMI CONTROLLER FUNCTION

The HMI (Human-Machine-Interface) device allows the operator to observe and manage the operation of the system. The PLC is programmed to operate the drip system to the state-of-the-art standards developed over the many years of experience of Perc-Rite® drip system design.



Please contact American Tech support with your specific control panel bill of materials and item number (located inside control panel door) for specific manuals which include the individual setup screens and parameters.

AMERICAN MANUFACTURING COMPANY, INC.

INNOVATIVE TECHNOLOGY FOR THE ENVIRONMENTAL AGE

CATALOG PRODUCTS

American Manufacturing Company, Inc. manufactures many specialty On-Site Wastewater products including the Bull Run^R Valve, Dial-A-FlowTM, Distribution Boxes, accessories and Controls. American also supplies as an Original Equipment Manufacturer (OEM) many other products unique to the On-Site Industry.

The American On-Site Products Catalog is used throughout the industry not only for purchasing but for reference and education. If an individual desires a product not shown in the catalog, a toll free call to our 800 number will normally result in getting information about the desired product.

CONTROLS

American Manufacturing becomes involved with the entire operation of the system whether potable water, process water, or wastewater. American has staff Professional Engineers, designers, soil scientists, and trained sales people with state-of-the-art experience in control systems.

Our objective is to provide the most practical, economical, and efficient control device 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.

PACKAGES

American Manufacturing Company, Inc. manufactures many specialty On-Site Wastewater system packages including Recirculation Sand Filter components, pump station equipment, and State-Of-The-Art American "**PERC-RITE**[®]" Drip units incorporating automatic field flushing, disc filter backflushing, and pressure compensating emitters.