

AQUA-LAB MD

MICRO-DOSE CHEMICAL DISPENSING SYSTEMS

THE MOST RELIABLE
CHEMICAL DISPENSING
FOR YOUR TUNNEL



RELIABLE, CONSISTENT CHEMICAL DELIVERY – The precisely metered solution is delivered to the arch, every time.

IMPROVED VEHICLE COVERAGE – Uses the suggested chemistry dilution rate but increases delivery pressure, resulting in less solution used with impressive vehicle coverage.

LOWER OPERATING COSTS – System requires little maintenance and dramatically reduces the amount of chemical and water used.

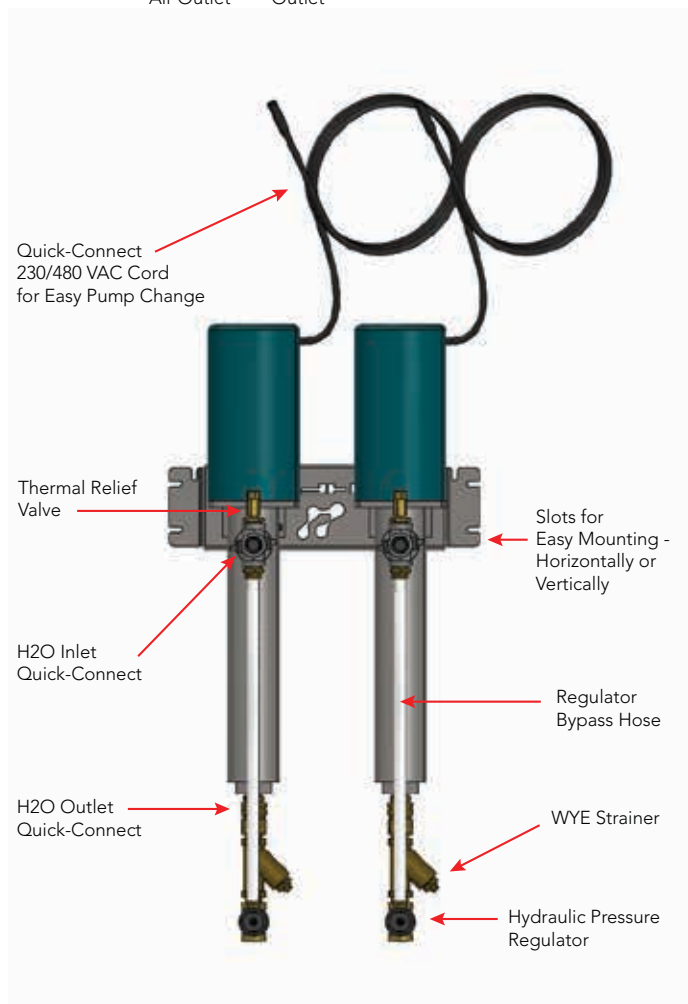
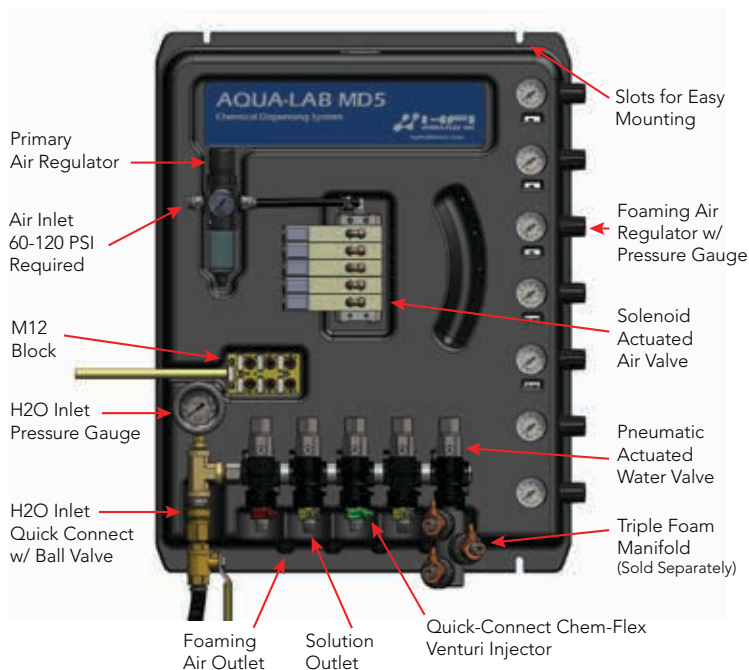
SAVES SPACE – All components can be wall-mounted, and system accurately delivers solution without cumbersome mixing tanks.



www.hydrflexinc.com

AQUA-LAB MD-Series: Chemical Dispensing Systems

The Science Behind It: High Pressure vs. Low Pressure



Water is used as the vehicle to carry chemicals. Using the same dilution rate but increasing the pressure allows for less solution used with better vehicle coverage - saving you both water and chemical.

Other Chemical Dispensing Systems



Application Pressure
Capability 25-40 PSI

AQUA-LAB Chemical Dispensing Systems



Application Pressure
Capability 65-80 PSI



Yesterday's Technology



Today: Less Space + More Functionality

CUSTOMIZE YOUR AQUA-LAB SYSTEM

PICK YOUR PANEL(S):



Panel	MD1	MD3A	MD3A-3/5	MD5A	MD5A-5/7
# of Applications (Pneumatic Actuated Stainless Steel Water Valves)	1 (Prep Only)	3	3	5	5
Air Valves	1	3	3	5	5
Air Regulators	1	3	5 (Tri-Foam)	5	7 (Tri-Foam)

PICK YOUR PUMP(S):



Pump Assembly	Single	Single with Back-Up	Dual	Multi-Source	Multi-Source with Back-Up
Pumps	1 Active	1 Active 1 Back-Up	2 Active	2 Active	2 Active 1 Back-Up
Water Source(s)	1	1	1	2	2
Flow Rate	7, 10, or 20 GPM	10 or 20 GPM each	10 or 20 GPM each	10 or 20 GPM each	10 or 20 GPM each

PICK YOUR MOTOR CONTROL UNIT:



Single	Dual Switched (A, B, AB)	Dual
For use with Single or Single with Back-Up Pump Stand	For use with Dual Pump Stand	For use with Multi-Source or Multi-Source with Back-Up Pump Stand

PICK YOUR ACCESSORIES:



- Tri-Foam Kit
- Duo-Foam Kit
- Concentrate Kit
- High Flow Rinse Device
- Water Filter
 - Hot
 - Cold
- Chem-Flex Quick-Connect Injectors (1/4-7 GPM)
- Spiral Metering Tips
- Threaded-in Metering Tips
- Bug Prep
 - MD1 Panel
 - Prep Kit
- Foam Dispensing
 - Sonny's Total Shine Kit
 - Simoniz Hot Wax and Shine Kit
 - Vaughan Tsunami

PICK YOUR SIGNAL VOLTAGE



120 VAC

24 VAC

24 VDC

AQUA-LAB MD SERIES

MICRO-DOSE CHEMICAL DISPENSING SYSTEMS

POWER REQUIREMENTS

PUMPS			SOLENOID VALVES
7 GPM	10 GPM	20 GPM	
115V/1PH/18A or 230V/1PH/9A	208-230V/3PH/6A or 460V/3PH/3A	208-230V/3PH/8.9A or 460V/3PH/4.1A	
			24 VAC or 24 VDC or 120 VAC 15 Watts Per Port

DIMENSIONS (W x H)

PUMP ASSEMBLIES			PANELS			MOTOR CONTROL UNIT
1-Pump	2-Pump	3-Pump	MD1	MD3	MD5	
24" x 48"	24" x 48"	36" x 48"	17" x 22"	22" x 29"	22" x 29"	
						14" x 15"

WATER SUPPLY

Water Inlet Lines	7 GPM	10 GPM	20 GPM	40 GPM
	½" ID	¾" ID	1" ID	1 ½" ID
Solution Outlet Lines	Up to 3 GPM		3-6 GPM	
	⅜" Polyflow		½" ID Min.	
Operating Water Pressure	200 PSI (Factory Set)			
Maximum Water Source Temperature	140°F			
Water Filtration (Suggested)	50 Micron			

AIR SUPPLY

Air Inlet Line	3/8" Polyflow Per MD Panel
Air Outlet Line	3/8" Polyflow Per Application
Air Inlet Pressure	60-120 PSI Dry Air



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