Technical Data Sheet



ResidualHQ

Technical Specifications

Technology Description:

Disinfectant control system designed for continuous monitoring and management of disinfectant residual levels. Flexible control and fluid interface allows for integration into new and existing installations. Limited maintenance, simple single-point calibration for disinfectant residual sensors.

Features:

- Continuous Water Quality Monitoring
- **Automated Control Modes and Management**
- No Metering Pumps. Venturi's used for chemical injection
- Automated rinsing and flushing mechanisms limit system exposure to concentrated disinfectants

Applications:

- Chlorinated and Chloraminated Systems
- Tanks and Reservoirs
- **Pipelines**

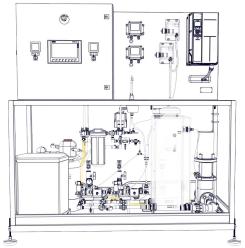


Figure 1: ResidualHQ Workstation

Physical Specifications:

	Tank	Pipeline	
Water Quality Monitoring	Total and Free Chlorine via two (2) amperometric membrane sensors		
Feed Rate	0 - 2.5 gph. Larger systems available. Contact Ixom Watercare, Inc. for more information.		
Duty Cycle	Continuous, 100%		
Maximum Working Pressure	95 psi. Higher pressures available. Contact Ixom Watercare, Inc. for more information.		
Chemical Compatibility	Sodium Hypochlorite (up to 15%) Liquid Ammonium Sulfate (up to 40%)		
Electrical Requirements	230VAC 30A Service 1PH 60Hz (11A continuous)		
Fluid Connections	Sample/Motive [Inlet] Return [Outlet] Soft Source [Outlet]¹ Drain [Outlet] - 1.00" FNPT Vent [Outlet] Chlorine [Inlet] Ammonia [Inlet]² Unless noted, all terminate as 0.5" FNPT	Sample/Motive [Inlet] - 2" FNPT Return [Outlet] - 2" FNPT Soft Source [Outlet]¹ Drain [Outlet] - 1.00" FNPT Vent [Outlet] Chlorine [Inlet] Ammonia [Inlet]² Unless noted, all terminate as 0.5" FNPT	
Dimensions and Weights	750 lbs 30" D x 72" W x 74" T	800 lbs 30" D x 72" W x 74" T	

¹ Optional. Provides softened and filtered water to dilute bulk storage chemical if desired.

² Chloraminated systems only.

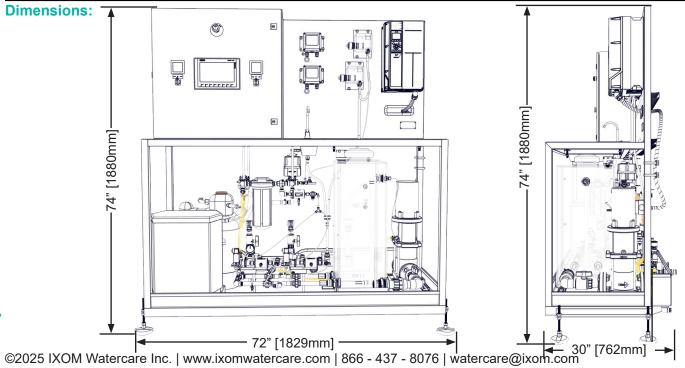
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	Tank	Pipeline	
Display	7" Color Touchscreen		
Keyboard	7-key membrane type with tactile feedback		
Digital Inputs	-	1x 24VDC for: Run/Enable	
Relay Outputs	230VAC/30VDC 6A N.O./N.C. rated contacts for: System OK Residual In-Range		
Programmable Analog Inputs	3x 4-20mA current inputs for:		
	Bulk Ammonia StorageBulk Chlorine StorageTank Level	Bulk Ammonia StorageBulk Chlorine StoragePipeline Flow Rate (required)	
Communication	Modbus RTU (RS-485) Read and Write operations supported (Remote Control)		
Local Data Logging	Local via USB comes standard. Various parameters available Trending Process Values Warnings Alarms		
Diagnostic Support	Remote Monitoring available. Cellular 4G LTE service availability required.		
Available Operating Modes	Manual DosingAutomated ManagementMaintenance (local)	 Manual Dosing Feed Schedule Automated Feed Control Maintenance (local) 	



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