

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

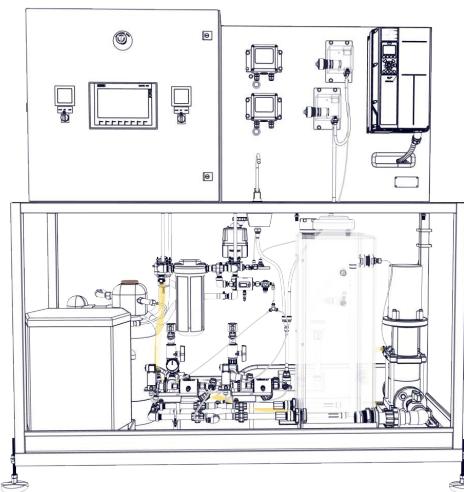


Figure 1: ResidualHQ Workstation

Physical Specifications:

	Tank	Pipeline
Water Quality Monitoring	Total and Free Chlorine via two (2) amperometric membrane sensors	
Feed Rate	0 - 2.5 gph. <i>Larger systems available. Contact Ixom Watercare, Inc. for more information.</i>	
Duty Cycle	Continuous, 100%	
Maximum Working Pressure	95 psi. <i>Higher pressures available. Contact Ixom Watercare, Inc. for more information.</i>	
Chemical Compatibility	Sodium Hypochlorite (up to 15%) Liquid Ammonium Sulfate (up to 40%)	
Electrical Requirements	230VAC 30A Service 1PH 60Hz (11A continuous)	
Fluid Connections	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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.

Technical Data Sheet



ResidualHQ

Technical Specifications

Controller Specifications:

	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 Storage • Bulk Chlorine Storage • Tank Level	• Bulk Ammonia Storage • Bulk Chlorine Storage • Pipeline 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. <i>Cellular 4G LTE service availability required.</i>	
Available Operating Modes	• Manual Dosing • Automated Management • Maintenance (local)	• Manual Dosing • Feed Schedule • Automated Feed Control • Maintenance (local)

Dimensions:

