

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

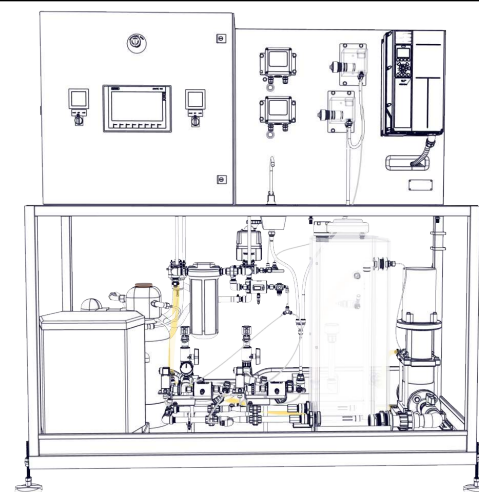


Figure 1: ResidualHQ Workstation

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 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.

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Controller Specifications:

	Tank	Pipeline
Display	7" Color Touchscreen	
Keyboard	7-key membrane type with tactile feedback	
Digital Inputs	-	1x 24VDC for: <ul style="list-style-type: none"> Run/Enable
Relay Outputs	230VAC/30VDC 6A N.O./N.C. rated contacts for: <ul style="list-style-type: none"> System OK Residual In-Range 	
Programmable Analog Inputs	3x 4-20mA current inputs for:	
	<ul style="list-style-type: none"> Bulk Ammonia Storage Bulk Chlorine Storage Tank Level 	<ul style="list-style-type: none"> Bulk Ammonia Storage Bulk Chlorine Storage Pipeline Flow Rate (required)
Communication	Modbus RTU (RS-485) <ul style="list-style-type: none"> Read and Write operations supported (Remote Control) 	
Local Data Logging	Local via USB comes standard. Various parameters available <ul style="list-style-type: none"> Trending Process Values Warnings Alarms 	
Diagnostic Support	Remote Monitoring available. <i>Cellular 4G LTE service availability required.</i>	
Available Operating Modes	<ul style="list-style-type: none"> Manual Dosing Automated Management Maintenance (local) 	<ul style="list-style-type: none"> Manual Dosing Feed Schedule Automated Feed Control Maintenance (local)

Dimensions:

