

ResidualHQ

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.

Water Quality Monitoring - Continuous monitoring and logging of Total and Free Chlorine residual concentrations utilizing two reagent-free, low-maintenance, amperometric membrane sensors. Units supplied with one year of consumables for each respective sensor.

Feed Capabilities - Standard unit capable of feed rates up to 2.5GPH of bulk disinfectant chemical. Unit produces and delivers chlorine, ammonia, and chloramine containing solutions. Adjustable concentrations and ratios. Automated and manual feed operations. Redundant flow verification. Configurable volume and frequency limits.

SCADA - Control system accessed via 7" color touch-screen and tactile buttons, or remotely through Modbus RTU protocols. Relay outputs available for additional status monitoring. Data logs for various historical actions and parameters. Remote monitoring services. *Contact Medora for more information.*

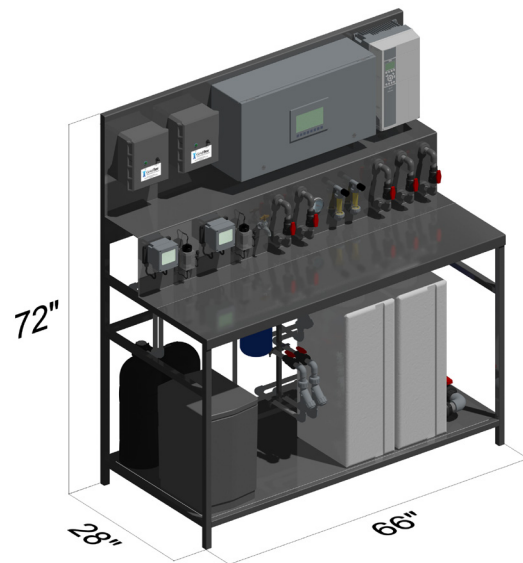


Figure 1: ResidualHQ workstation

Materials of Construction - All wetted materials in contact with concentrated corrosive media constructed of thermoplastics suited for application. All other components T316SS. Constructed using safe materials for contact with potable water.

Electrical Requirements - Standard unit requires 230VAC/1PH, 60Hz service. Integrated breaker panel for single source power connection. GS submersible mixer rated at 5.5A. 1/2HP submersible sample pump rated at 5.5A. 3/4HP vertical multistage delivery pump rated at 4.5A. 24VDC control system rated at 0.67A.

Installation and Tank Requirements - Unit capable of using variety of new or existing bulk storage and chemical transfer facilities. In-tank equipment may be installed without entry, while all equipment may remain accessible from hatch. Requires four 1-5/16" diameter holes for two sealed electrical cord entries (mixer, sample pump) and two sealed fluid entries (sample, delivery). *Contact Medora regarding site specific equipment requirements.*

Fluid Connections - Workstation connections terminate as 1/2" FNPT (1/2" quick coupler hose barbs optional). In-tank equipment includes 75ft or 150ft of interior 1/2" PVC hose to terminate within junction box at top of tank. Junction box and transition fittings included.

Wiring - Workstation has integrated breaker panel for single source power connection. In-tank equipment includes 75ft or 150ft of 12AWG submersible power cables to terminate within junction boxes at top of tank. Junction boxes included.

Sealed Penetration Fittings - T316 stainless steel tank fittings and cord grips included for sealed cord and hose entries through tank roof. Not designed as submersible penetrations.