

AQUASAVER™ BOOSTER SKID WITH PH CONTROL

The Evoqua Water Technologies AquaSaver™ Dual Direction pH Control Skid is a totally integrated, skid-mounted treatment system for wastewater accumulation, pH adjustment and transfer. The pH Control Skid features a reaction tank, liquid level controls, water inlet solenoid valve, centrifugal transfer pump, flow meter with control valve, dual chemical metering pumps and electric tank mixer. The packaged skid provides economical treatment of contaminated process wastewater when used in conjunction with an Evoqua Water Technologies wastewater ion-exchange system.

The AquaSaver pH Control Skid incorporates multiple tank level controls for centrifugal pump operation and make-up water addition ensuring that only wastewater of the proper pH is discharged to waste or downstream to an ion-exchange system. The Dual-Input pH Analyzer provides monitoring and control for precise pH adjustment, utilizing the latest electronic and sensor technology. The 150-gallon reaction tank is equipped with an electric mixer yielding required retention time for accurate pH adjustment.

The system control panel offers a main On/Off switch, power-on indicating light, and an emergency-stop lighted pushbutton for safety. Respective red status lights indicate when the centrifugal pump, inlet solenoid valve, chemical metering pumps and mixer are on. Individual Hand/Off/Auto switches permit selection of the operational mode for the centrifugal pump and inlet solenoid valve, via level controls, and the chemical pumps and mixer via the pH controller and dual loop process controller. Amber indicating lights are also present for low-level and high-level tank alarms.

The AquaSaver pH Control Skid is easy to install, start up and

operate and the compact design requires minimal floor space. The AquaSaver pH Control Skid has a 15gpm capacity and is also available in 30gpm and 60gpm capacities.

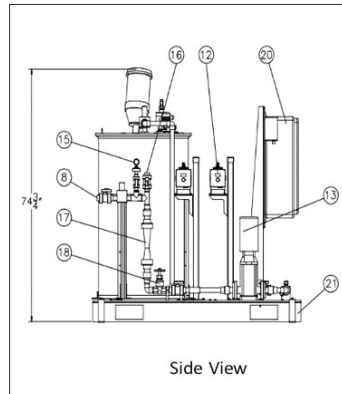
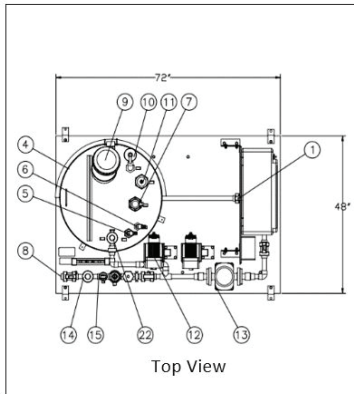
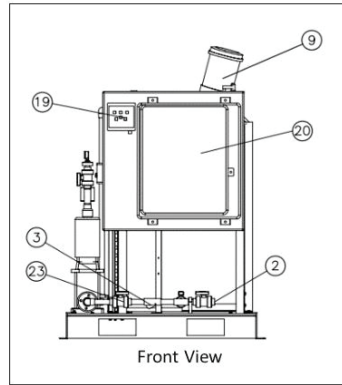
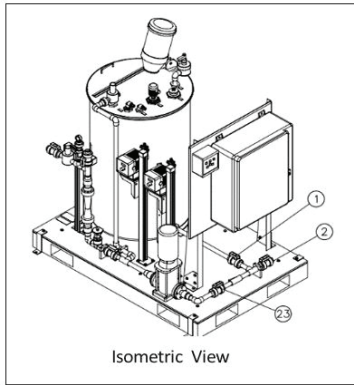
SPECIFICATIONS

Electrical	(2) 120 VAC / 1 Phase / 60Hz
Centrifugal Pump	15.85 GPM@70 PSI, 1.5 HP, 316SS / EPDM (Grundfos CRN3-7)
Accumulation Tank	150 Gallon w/Hinged Cover, HDPE
Dimensions	48" W x 72" L x 75" H
Water Inlet	1" Solenoid Valve, PVC / Viton®
Discharge Outlet	1" PVC / Viton® (F)NPT
Maximum Temperature	120°F

The AquaSaver™ Booster Key Benefits:

- Pre Ion-Exchange or Wastewater pH Adjustment
- Multiple Tank Control Levels
- Optional dual Cartridge Filtration
- pH Down and pH Up Operational Modes
- Mixer for Quick and Thorough pH Adjustment
- Dual-Input Analyzer for Precise & Reliable pH Control
- Powers Dual Loop Process Controller with Adaptive Tune Technology
- Provides Acid and Base Pump Feed Control

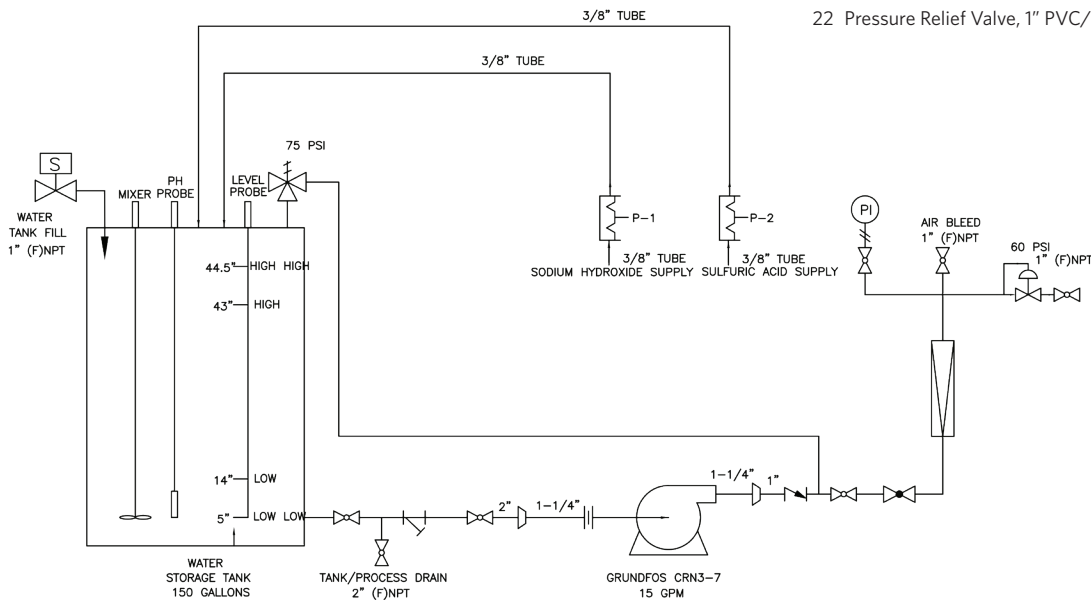
GENERAL LAYOUT



KEY DESCRIPTION

- 1 Tank Isolation Valve, 1" PVC/Viton®
- 2 Tank / Process Drain, 1" PVC/Viton® (F)NPT
- 3 Y-Strainer, 1", PVC/Viton®
- 4 Tank, 150Gal, w/Hinged Cover, HDPE
- 5 Chemical Feed Inlet, Sulfuric Acid, PP/PVDF/Viton®
- 6 Chemical Feed Inlet, Sodium Hydroxide, PVC/PVDF/EPDM
- 7 Level Probe, PP/PVDF, Four Point, Float Type, 2" NPT
- 8 Discharge Outlet, 1" PVC/Viton®, F(NPT)
- 9 Tank Mixer
- 10 Water Inlet, 1" Solenoid Valve, PVC/Viton®
- 11 pH Probe Bulkhead Fitting
- 12 (2) Chemical Metering Pump, 2.5GPH @ 100 PSI, LMI Model# B921-393SI
- 13 Pump (Grundfos CRN3-7), 15.85 GPM @ 70psig, 1.5 HP, 316SS/EPDM
- 14 Back Pressure Valve, 1" PVC/PVDF
- 15 Gauge w/Guard, 0-200PSI, 1/2" PVC/PTFE
- 16 Discharge Bleed, 1" PVC/Viton® (F)NPT
- 17 Rotameter, 1.5", PVC/Viton®/PVDF/Polysulfone
- 18 Globe Valve, 1" PVC/Viton®
- 19 pH Controller, Dual-Input Analyzer
- 20 Local Control Panel
- 21 Skid, 48"x72"x5.75", HDPE w/Forklift Slots
- 22 Pressure Relief Valve, 1" PVC/PTFE, 50PSI Setpoint

ELEMENTARY P&ID



210 Sixth Avenue, Suite 3300, Pittsburgh, PA 15222

+1 (800) 466-7873 (toll-free) +1 (978) 614-7233 (toll)

www.evoqua.com/remediation

AquaSaver is a trademark of Evoqua, its subsidiaries or affiliates. Vitron is a trademark of DuPont Performance Elastomers, LLC.

All information presented herein is believed reliable and in accordance with accepted engineering practices. Evoqua makes no warranties as to the completeness of this information. Users are responsible for evaluating individual product suitability for specific applications. Evoqua assumes no liability whatsoever for any special, indirect or consequential damages arising from the sale, resale or misuse of its products.

© 2018 Evoqua Water Technologies LLC

Subject to change without notice

PES-AQSPHCONTROL-DS-0119