



EXCEL FLUID GROUP, LLC

Revision #002 / Sept. 2021

Aluminum Water Booster Pump Station: EX-ALWB

Factory Assembled Aluminum Water Booster Pump Station

Technical Specifications:

Enclosure

Internal Structure is Fabricated of 6061-T6 Aluminum Tubing and the Exterior Sheet is Fabricated to a Mill Finish ASTM 3003 with 6061-T6 Aluminum, Minimum Sheet Thickness of 0.80. Station Baseplate is ASTM 6061-T6 Aluminum Plate.

Enclosure Access Doors

Aluminum Lockable Gull Wing Access Doors with Locking Gas Shocks and Stainless Steel Hinges; includes Bug-Free Ventilation Covers.

Enclosure Hardware

Heavy Duty 300 Series Stainless Steel Locking Handles

Enclosure Lighting

EX6 Six (6) High Power LED Waterproof Light Fixtures, Rigid Aluminum Housing, 12VDC Power Supply.

Enclosure Insulation

Dow Super Tuff-R Poly Coated Closed Cell Foam, Sidewall has a Minimum Rating of R6.5 and the Roof has a Minimum Rating of R12.5.

Enclosure Liner

Black "Rhino-Tuff" Spray Coating, Two-Component, 100% Solids Elastomeric Polyurethane/Polyurea Hybrid Lining.

Enclosure Ventilation

Wall Mount Electric Cooling Fan, 120 VAC, Aluminum Frame, Thermostatically Controlled.

Enclosure Heating

Wall Mount Electric Heater, 120VAC, Thermostatically Controlled.

Centrifugal Piping

- **Horizontal End Suction Close Coupled Pumps:** 20 – 850 GPM Range, 208-230/460 V, 1 Phase or 3 Phase, 5 – 50 HP.
- **Vertical Multistage Pumps:** 20 – 250 GPM Range, 208-230/460 V, 1 Phase or 3 Phase, 5 – 50 HP.

Discharge Piping

Flanged Pipe and Fittings, Available in Ductile Iron, HDPE, PVC or Stainless Steel

Valve Options

- Check Valves
- Butterfly Valves
- Gate Valves
- Pressure Reducing Valves

Pressure Gauges

Suction and Discharge Pressure Gauges

Flexible Connectors

Stainless Steel Flanged Connectors, Flexible Rubber Body

Air Release Valve

Cast Iron Body, Stainless Steel Internals, 3/8 in. – 2 in. NPT Connections, Designed For 10 PSI To 200 PSI

Water Booster Pump Station



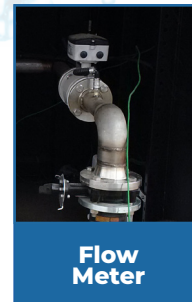
Aluminum Enclosure
6 ft. x 6 ft.



Duplex Centrifugal Pumps



Duplex VFD Control Panel

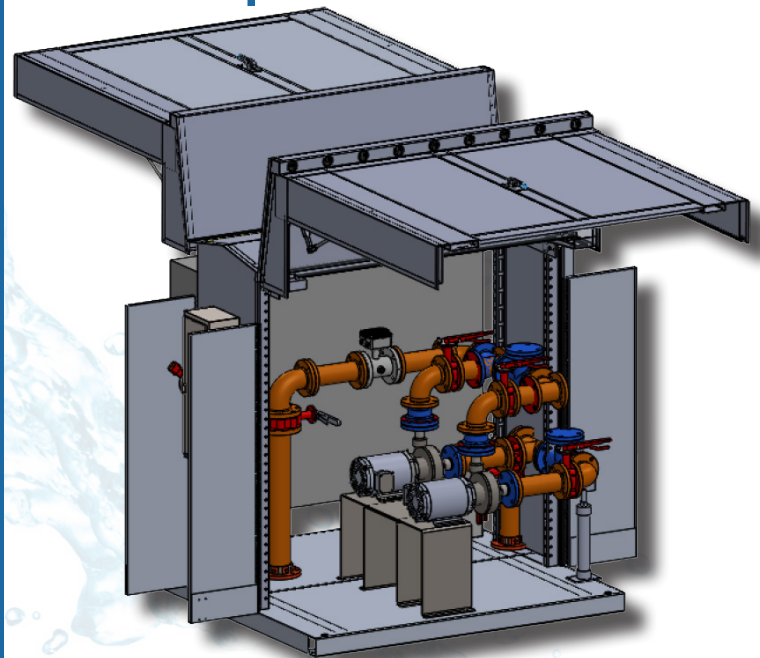


Flow Meter



Air Release Valve

Pipe Tree View



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Controls View

Pressure Transducer

316 Stainless Steel Pipe Mounted Transmitter, 0.25% - 1% Accuracy, 200°F Temperature Limit, 12 VDC Input Power, 4-20 mA Output Signal, ½" NPT Process Connection, NEMA 4X Conduit Housing.

Electrical Controls

Arc-Sentry™ Duplex Control Panel, NEMA 12, UL Listed Enclosure, Contains High Voltage Compartment with Electrically Interlocked Door and a Low Voltage Compartment with all Operator 120VAC Controls. Multiple Control Options Available Including VFDs, Across The Line Starters, PLC Control with HMI Screen or Standard Lights, Pushbuttons and Switches. Controls Primarily Designed to Reduce Arc-Flash Hazards for Operators

Flow Meter

Electromagnetic Flow Sensor, Carbon Steel Flanges, Ebonite Hard Rubber Liner, Hastelloy Electrode, Remote Transmitter with Display

Suction Pressure Switch

Bourdon Tube Differential SPDT Mercury Pressure Switch, 2 External Adjustments, NPT Process Connection, Brass Wetted Materials, 10-300 PSIG Range, 180°F Temperature Limit

Warranty

Two (2) Years from Date of Shipment, To Resist UV damage, Covers Corrosion from Moisture, Soil, Septic Fluid and Gas, or Structural Failures Occurring in Normal Service, When Station is Installed in Accordance with Manufacturer's Recommendations

Concrete Support Pad

By Contractor, Contact EFG for Dimensions

Options:

Prefabricated Building Enclosure

Arrive fully assembled as we pre-install any components in our warehouse before the building arrives on site.

External Mounted Meter Base

Single Position Sockets

External Mounted Automatic of Manual Transfer Switch

Interlocked Main Double Circuit Breaker, Outdoor General Purpose, NEMA 4X, Stainless Steel Enclosure, UL98 Listed

External Mounted Generator Receptacle

Outdoor General Purpose, Load Rated

SCADA Compatibility

Ethernet Module for Control and Status to External System

Aesthetics Options

Vinyl Exterior Finish with Red Brick Look, Tan Brick Look, Tan Rustic Stone Look or Green Pine Tree Look; Resistant to Mild Alkalis, Mild Acids and Temperatures from -65° to 225° F

Pressure Tanks

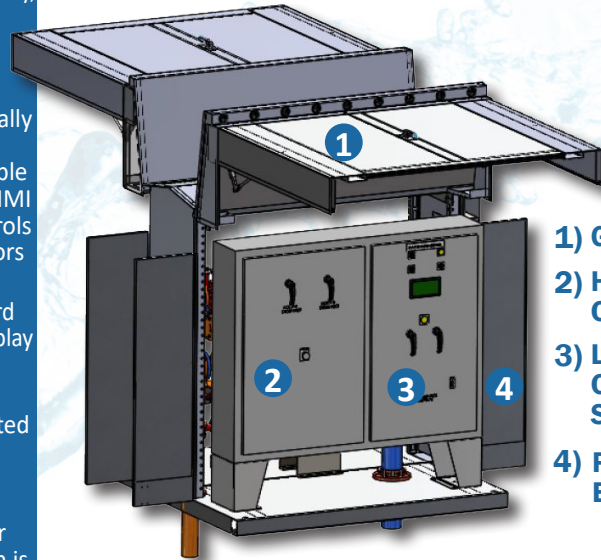
Pressure Tanks, Sized Per Application, Steel Construction

Generators

Standby Generator, Sized Per Application, Single or Three Phase Options, Natural Gas or Diesel Operated

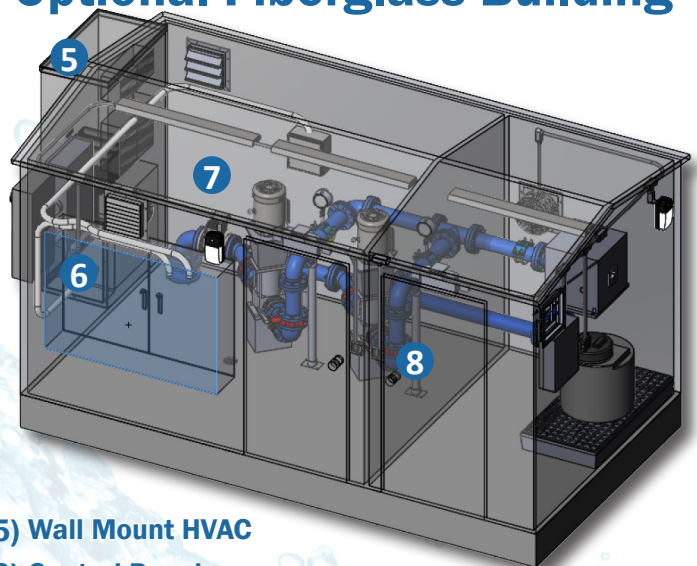
Sample Taps

Discharge Pipe Tap with Shut Off Valve and Hose Bib, Bronze Construction



- 1) Gull Wing Doors
- 2) High Voltage Control Panel
- 3) Low Voltage Control Panel + SCADA
- 4) Power Service Entry

Optional Fiberglass Building



- 5) Wall Mount HVAC
- 6) Control Panel
- 7) Pump Room
- 8) Chemical Tank Room

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