

## Aluminum Water Booster Pump Station: EX-ALWB

### Factory Assembled Aluminum Water Booster Pump Station

### 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 Mult-Stage 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



**Aluminum Enclosure**  
6 ft. x 6 ft.



**Duplex Centrifugal Pumps**



**Duplex VFD Control Panel**

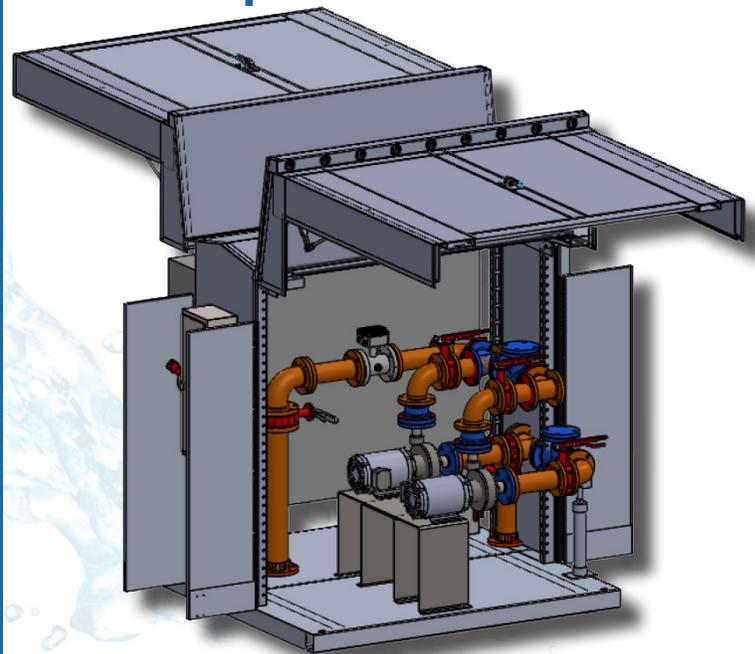


**Flow Meter**



**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

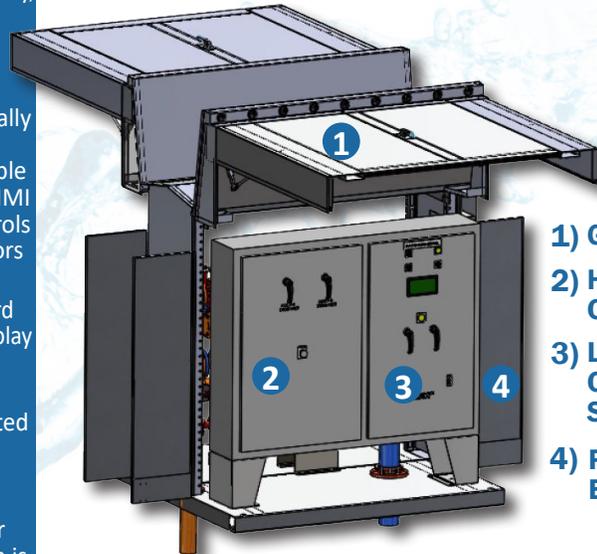
Pressure Tanks, Sized Per Application, Steel Construction

##### Generators

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

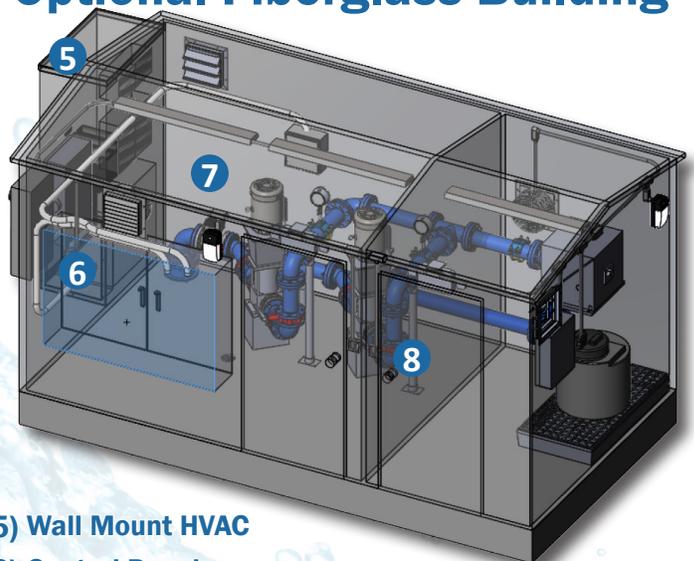
##### Sample Taps

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