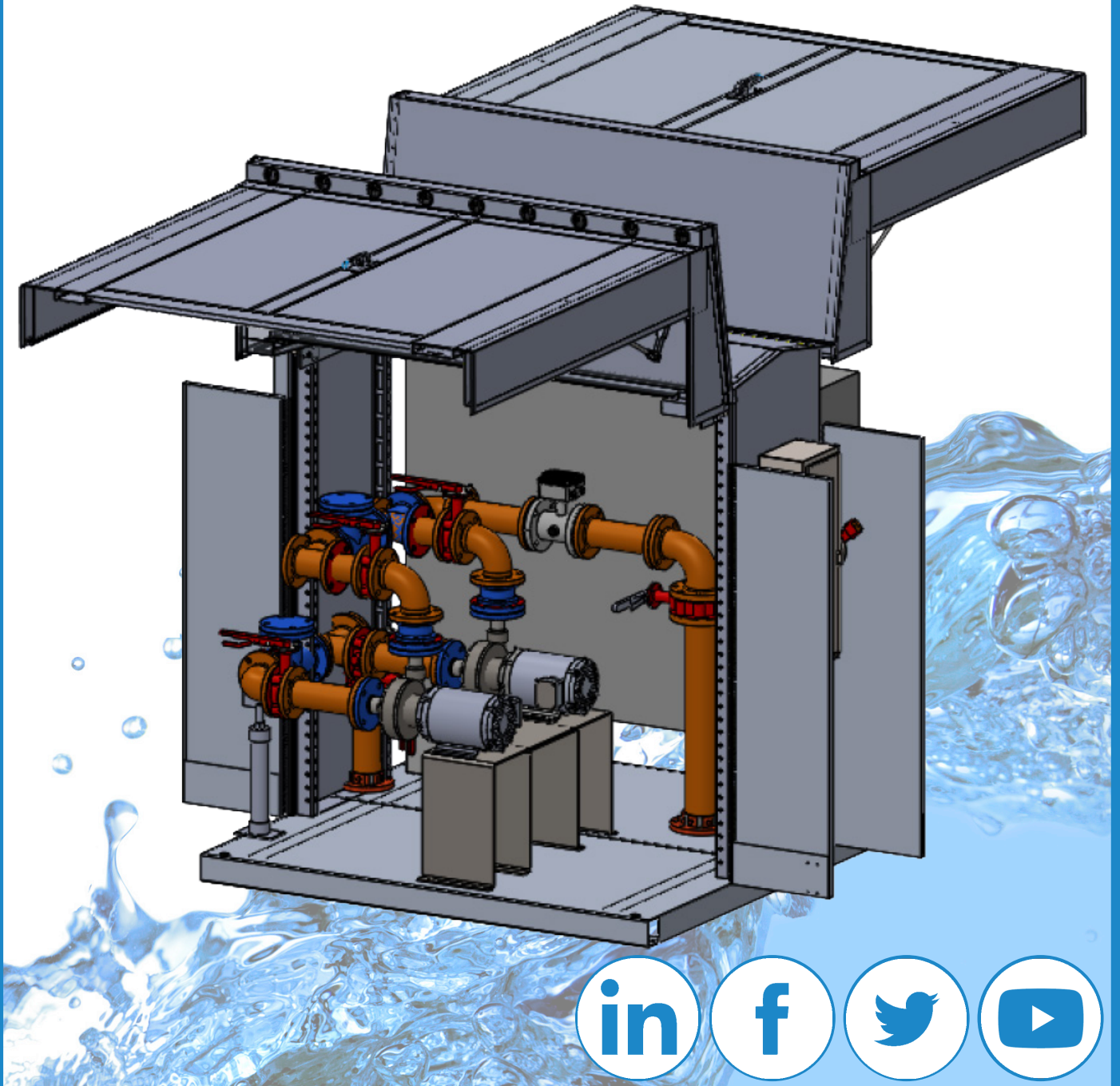


# EXCEL

EXCEL FLUID GROUP, LLC



## WATER BOOSTER PACKAGE PUMP STATION

# Product Overview

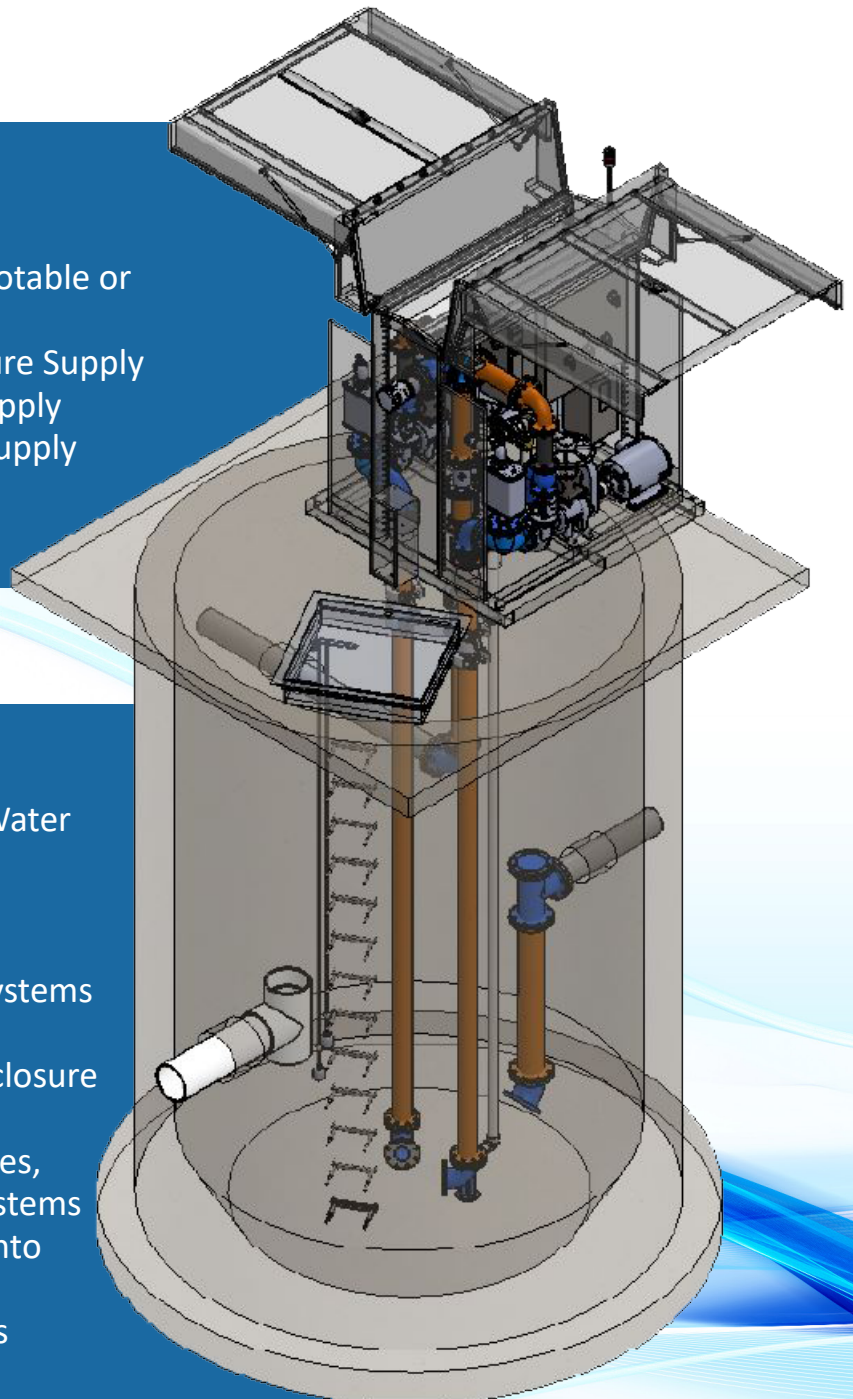
Excel Fluid Group specializes in the design and manufacture of Water and Wastewater Pump Stations for Municipal, Commercial and Industrial applications. Experience accumulated over the last 30+ years in supplying package solutions ensures accurate product selection for a long term, cost effective answer for any application. Our goal on every project is to offer exceptional value, reduce installation costs, eliminate typical field installation hassles and reduce long-term service costs for the end user.

## Applications

- Municipal Water Pressure Supply for Potable or Non-Potable Service
- Residential Development Water Pressure Supply
- Apartment or Hotel Water Pressure Supply
- Commercial Building Water Pressure Supply
- Industrial Plant Water Pressure Supply

## Equipment Details

- Metering, Pressure and Flow Control Water Booster Stations
- Available in Simplex, Duplex, Triplex or Quadraplex Pump Configurations
- Includes Complete Electrical Control Systems and Telemetry Options
- Aluminum Temperature Controlled Enclosure with Full Service Access Doors
- Optional Flow Meters, Air Release Valves, Pressure Tanks and Stand-By Power Systems
- Optional Exterior Aesthetics to Blend into Surrounding Environment
- Optional Precast Concrete or Fiberglass Building Water Booster Stations





# Advantages



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



**Centrifugal  
Pumps**



**VFD Control  
Panel**



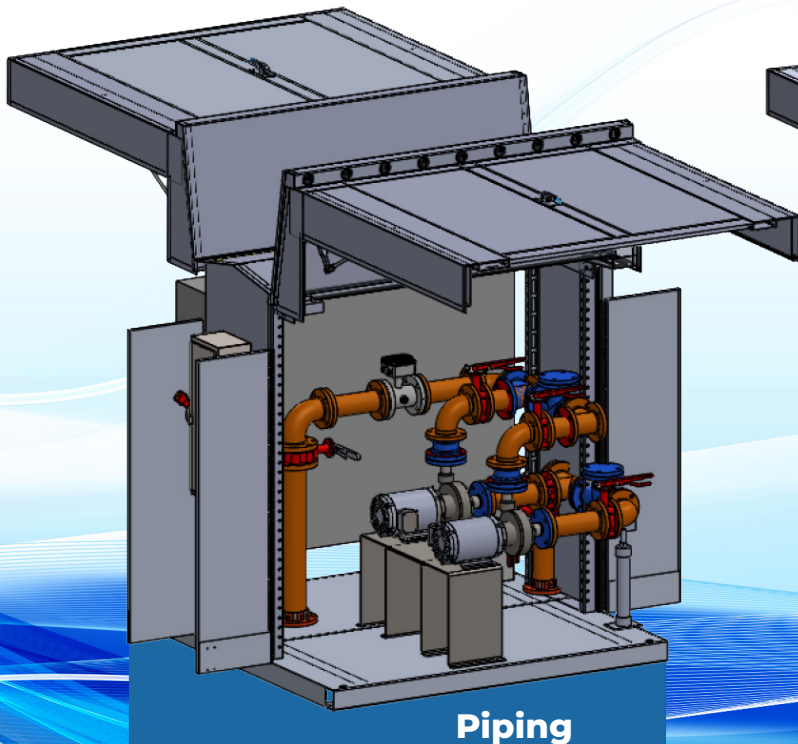
**Flow  
Meter**



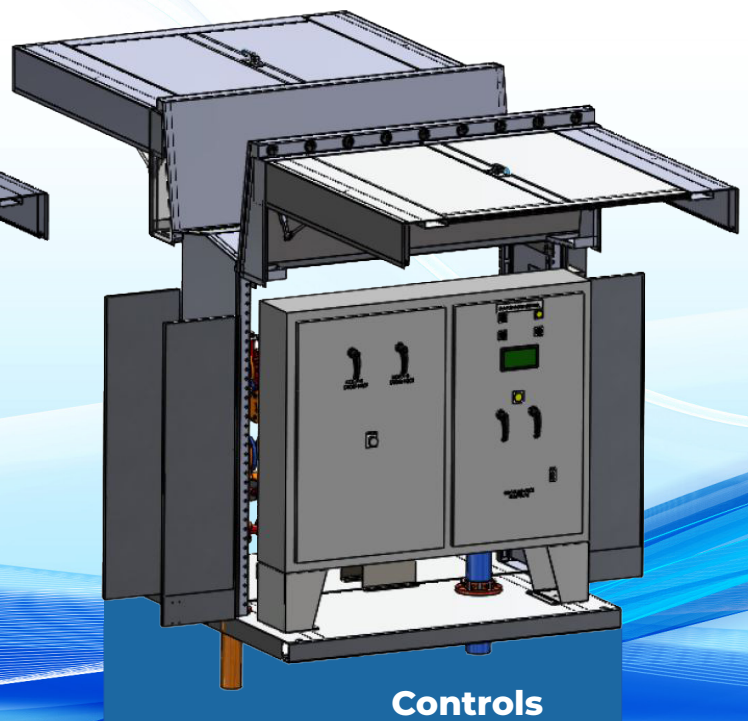
**Air Release  
Valve**

# Enclosure Views

Excel Fluid Group offers a complete range of Water Booster Pump Stations that are delivered 'turn-key' to the jobsite; all application design, project management, manufacturing, assembly and factory performance testing is completed in-house in a quality controlled environment. Excel Fluid Group takes ownership of every project to ensure single source responsibility of the Water Booster Pump Stations and provides all structural, mechanical, electrical and communication systems as specified.

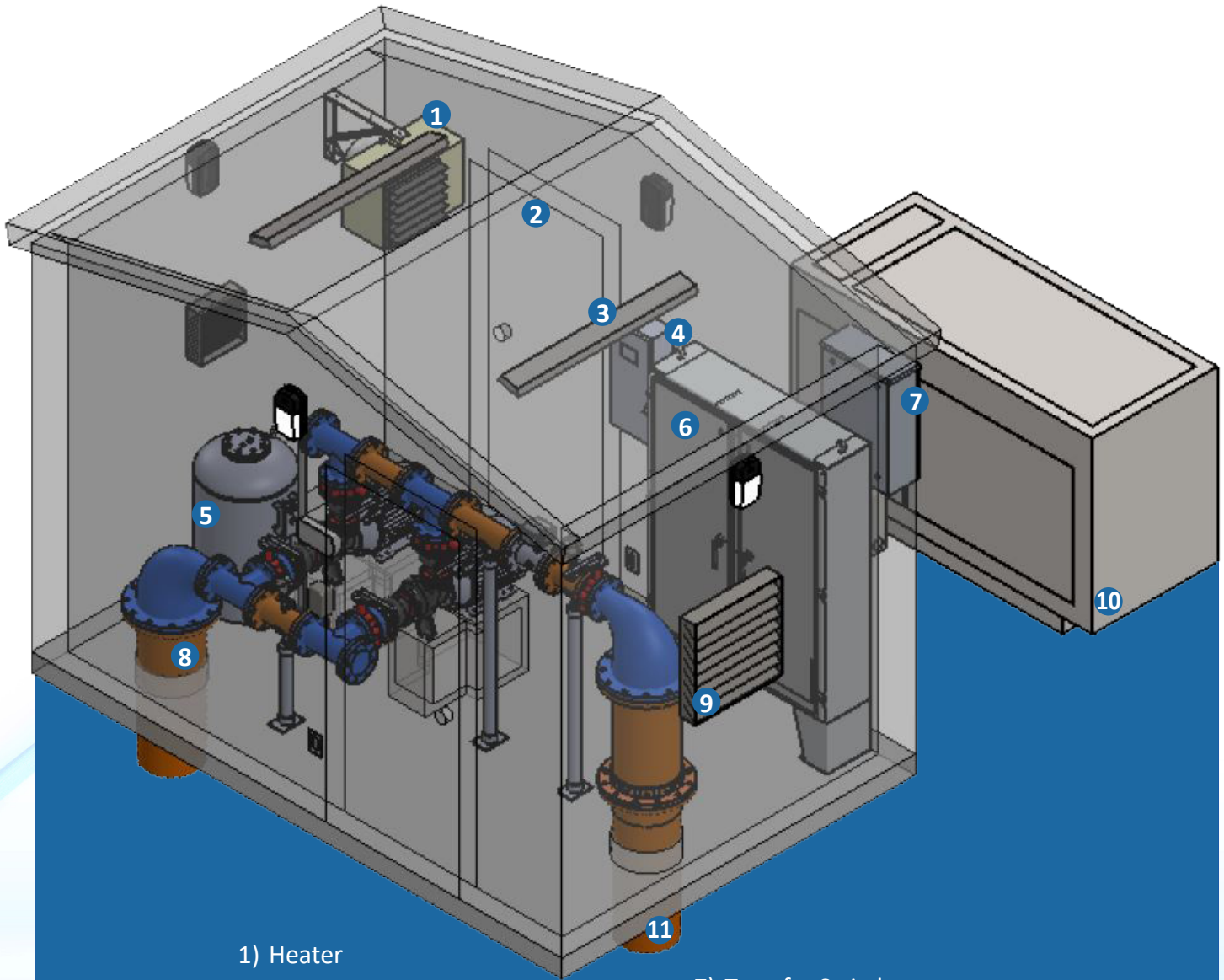


**Piping**



**Controls**

# Package Pump Systems



1) Heater

2) Mandoor

3) Interior Lights

4) Disconnect Switch

5) Bladder Tank

6) Control Panel

7) Transfer Switch

8) Suction

9) Louver

10) Generator

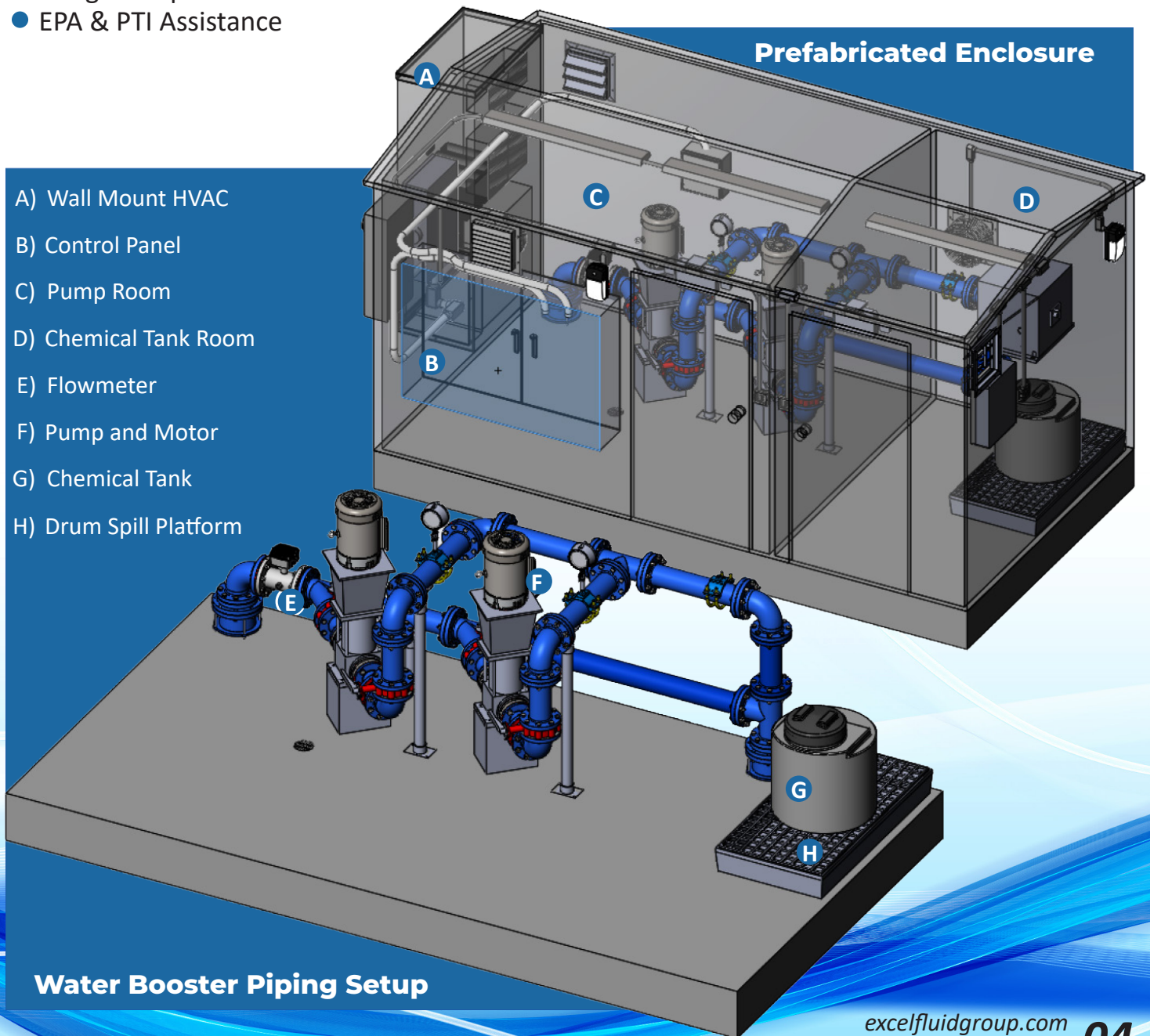
11) Discharge



# Application and Design

Excel water booster pump station designs are versatile to fit in either a NoVault enclosure or a prefabricated building. We invite you to discuss specific projects that are in initial planning or design stage, and our engineering team will assist you with the following services.

- 3-D Drawings and Renderings
- Project Specifications
- Design & Application Assistance
- Budget Proposals
- EPA & PTI Assistance



# Installation References

## Preble County Landfill - Eaton, OH

*Leachate Pump Station in Concrete Prefabricated Building*

- 1.5 in. Deming 10 HP two phase duplex end-suction pump system
- 12 ft. W x 8 ft. H x 10 ft. D precast building enclosure built in our Cleveland facilities
- Duplex control panel with 600 amp main breaker distribution panel and transfer switch and VFDs



## DSWA Sandtown - Dover, DE

*Leachate Transmission System in a NV4 Enclosure*

- 7.5 HP Goulds multi-stage pump designed for 45 GPM at 180 TDH with a 1,750 RPM Three Phase motor
- 6 ft. x 6 ft. prefabricated aluminum NoVault™ enclosure
- NEMA 3R duplex VFD control panel with Unitronics touchscreen controller

## Regional Water District - Adams County, OH

*Booster Pump Station in a NV4 Enclosure*

- Berkeley BVM horizontal end suction centrifugal pumps designed to deliver 40 GPM at 460 TDH
- 6 ft. x 6 ft. prefabricated aluminum NoVault enclosure
- NEMA 12 duplex control panel with VFDs for phase conversion and soft start and stop



## Glenwood Public Service District - Green Valley, WV

*Water Treatment Plant Water Booster for a Water Line Extension Project*

- Two Berkeley 7.5 HP stainless steel vertical multi-stage pumps rated at 60 GPM at 208 TDH and one 25 HP stainless steel vertical multi-stage pump rated at 250 GPM at 226 TDH
- 10 ft. W x 10 ft. H x 15 ft. D one piece precast fiberglass building enclosure built and factory tested
- UL-508 230V, Three Phase process control panel



# Maintenance Plus

Is it difficult for you and your team to remember to complete your regular pump maintenance? Have peace of mind with our Maintenance Plus plan. Depending on your plan, we will complete a full service on your pump system annually, semi-annually, or quarterly. If anything goes wrong with your pump, we have the resources to repair, replace, or maintain your pump station for seamless downtime and ideal upkeep. We want to be there for you to help prevent when you'll need us most.

Our pump station preventative maintenance checks include seal and overhaul kits with:

- A detailed pump station electronic inspection report
- Clean and check the control panel operations
- A pump down for each pump and record of the flow performance
- Amperages drawn and checked from each pump
- Each pump motor megged to test the motor's insulation
- An ohm check on each seal fail resistor
- And more!

## Maintenance Plus can help with:

Planning downtime and avoiding long delays

Knowing your pump station is running efficiently

Preventative maintenance

Extending your pump station's lifespan

Overall pump station knowledge through training



## Common Water Industry Challenges

- Increased water demand due to development
- Ageing and leaking water distribution infrastructure
- Reduced water pressure in remote service areas
- Reduction in water quality due to polyfluorinated (PFAS) substances
- Lack of fire-flow when needed

**Contact Us for a Water Booster  
Pump Station Solution**

## Design Criteria for Water Booster Pump Stations

- Is this a constant pressure application?
- What is the desired system pressure?
- Are bladder tanks required to maintain pressure?
- Is this a constant or variable pressure application? Confirm pressure range.
- What is the grade elevation at the proposed pump station location?
- Do emergency fire flows need to be considered?
- Confirm the primary water source
- What is the existing inlet pressure at the booster station?
- Confirm the jobsite electrical service details.
- Advise if emergency power connection or standby power service is required.
- Advise if remote communication system is required.



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**[excelfluidgroup.com](http://excelfluidgroup.com) | [excelpumpwarehouse.com](http://excelpumpwarehouse.com)**