

Pre-Engineered, Pre-Fabricated Water Distribution Equipment

One Integrated Solution - Single Responsibility



Intelligent Conceptual Design



Integrated Product Development



Expert Fabrication



Proven Performance

Only EFI



Water Booster Pump Stations

EFI Factory-Built, Packaged Pumping Stations are designed to **YOUR EXACT PROJECT APPLICATION**. While EFI builds your project, your site work can be concurrently constructed, minimizing cost and time to completion.

- Piping to AWWA & Hydraulic Institute Standards
- Combining the Functions: Metering, Surge Control, Flow & Pressure Control, Backflow Prevention, Creating Multiple Pressure Zones
- Headers Inside, Outside or Under the Station to Meet Specific Site Piping Requirements
- Completely Pre-Assembled & Tested
- Unsurpassed Quality

Above Ground Stations



EFI is the premier manufacturer of packaged water distribution equipment. All factory-built systems are delivered and ready for installation. Just run pipes, run electric and it is ready for start-up. EFI selects the best pump for the application: Horizontal End Suction Pumps, Vertical Turbine Pumps, Split Case Pumps and Multi Stage Diffuser Pumps.

Skid Mounted Stations



Skid mounted pump stations are built in configurations of one skid or multiple skids built together for large capacity. Skid mounted pump stations can be built to contain all the station equipment and brought to the site to be lifted into the building.

Buried Pump Stations



EFI buried stations are enclosed in a specially constructed steel capsule. Particular attention is paid to corrosion protection and long service life. Access to the inside of the buried capsule can be through a top-mounted hatch and ladder or stairway. If the terrain allows, buried stations can be set into the side of embankments or walls which allow entrance into the station through the sidewall. Several advantages of buried stations are they are out of sight; they do not require a large site as does above ground equipment. Buried equipment can be set in the utility right-of-way, below streets, sidewalks and parking lot areas; buried equipment is virtually vandal proof and freeze proof.



Specialty Pumping Applications



Well Head Stations

EFI provides an extensive variety of single and multiple well head stations, factory built and delivered finished to be set beside or lowered over the well head. The installation includes the well head building with piping, valving, controls and chemical feed system installed.



Re-Use Water Stations

The increasing distribution of re-use or reclaimed water has created a need for pumping and flow control for these systems. Factory-built, above ground or buried equipment fits easily and economically into these systems for distributing reclaimed water to points of use.



Raw Water Stations

Increasingly, raw water pumping is being done by factory-built pumping systems for surface water and for groundwater collector points of supply. Pumping up to 36 MGD has been accomplished successfully where schedules dictate short completion times and tight budget constraints.



Process, Control Valve and Meter Stations



Treatment & Process Stations

EFI designs and fabricates factory-built water treatment systems. These installations range from multiple chemical feed stations to stations for advanced modes of disinfection and cartridge, membrane filtration, and conventional non-manganese and arsenic removal.



Pressure Control Stations

Pressure reducing, back pressure sustaining and flow control stations are configured to facilitate pressure and flow control in distribution systems; such stations are used to create individual pressure zones while allowing movement of water between zones.



Master Meter Stations

Master meter stations come in numerous configurations using various meters. Meter stations can include pressure, flow control valves and bi-directional metering.

Tilt Back - Above Grade



- Molded Fiberglass Tilt-Back Cover w/Padlock
- Constant Pressure Pump Stations
- Pressure and Flow Control Stations
- Easily Moved and Reused
- Attractive Installation
- Welded Steel Base for Fork Lift or Backhoe Pickup
- Used for Control Valves and Pumping Equipment



Each station is factory assembled on a steel base, tested and delivered complete with the fiberglass, tilt-back cover. The station is ready for immediate installation. These enclosures provide excellent protection from weather and are corrosion free. The tilt back station is compact, self-contained, cost-efficient and easy to install.



Enclosures For Industry



- Multiple Compartments for Equipment
- On Slab Placement with Base Structure and Floor
- Connectable Modules for Larger Requirements
- Full Electrical & Climate Control Systems
- Crane & Hoist Systems Installed
- Buildings Set Over Basements
- Third Party Inspected to Meet Various State Modular Building Codes
- Single Building Size up to 15 Feet x 52 Feet
- Triplex and Duplex Buildings Available
- Floorless Buildings
- Single, Multiple and Overhead Doors
- Removable Wall Panels
- Built to UL Standards and Building Codes
- Partially Buried Units
- Fast Time To Delivery



EFI has developed the capacity for adding hip and gable roofs, various exterior finish products, including simulated offset brick, split block, vinyl, fiberglass exterior and many other options. Every building is custom designed to your specific application and can be given pleasing and aesthetically consistent exterior treatments.

Check out our building website at www.enclosuresforindustry.com



Custom Built Buildings for EFI Equipment Or As Multi-Functional Stand Alone Buildings

Standby Power Systems



- Mobile Generator Hookups
- Engine-Generator Set Mounted on Station Skid
- Engine-Generator Set in a Separate Compartment
- Mounted and Connected
- Automatic or Manual Transfer Switches
- Integral Fuel Tanks
- Diesel or Natural Gas Powered Units
- Noise Attenuating Covers



State regulatory agencies are requiring more standby power sources for booster stations. A generator receptacle can be mounted and wired on the outside wall of the EFI building. Standby generators can be supplied complete either outside the building or in a separate compartment. A manual transfer switch or an automatic transfer switch can be provided.



Chemical Feed Systems

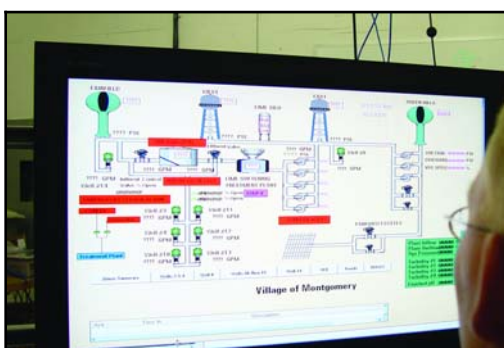
- Gaseous Chemicals
- Liquid Chemicals and Solutions of Various Compositions
- Spill Hazard Containment
- Protected, Gas-Tight Environments



The EFI stations can be completely equipped, piped, wired and tested for gaseous and/or aqueous solution chemical feed and feed control. Separate compartments in the chemical feed station allow a range of chemical feed capabilities. Significant hazard exists with gas feeding; therefore, proper design for safe operation is basic. EFI provides for spill containment with liquid chemicals and isolation and venting of gaseous chemical feed to avoid a potential for disaster. EFI packaged chemical feed stations can be stand alone equipment or added to a booster pump station.



Custom Electrical Control, Telemetry & SCADA Design & Fabrication



Standards

- UL-Variou
- NEC

Enclosures

- Built-Up UL 508 Panels
- Motor Control Centers
- Wall Mounted
- Free Standing
- NEMA Rated

Power

- Low Voltage to 600 VAC
- Medium Voltage, 2400, 4160 VAC
- Distribution Panels
- Transformers
- Filters and Reactors
- Power Conversion

Control Systems

- SCADA , Multipoint Integrated or Distributed Control
- Simple, Single Loop Telemetry
- Pressure Control
- Flow Control
- PLC Basic Logic
- Discrete Logic
- UHF & VHF Radio Systems
- Fiber Optic

Personnel & Facilities

- Operational & Graphics Software Program Staff
- Electrical Design Engineering Staff
- Factory Test Technicians
- Field Service Technicians
- Radio Propagation and System Performance Technicians
- Factory Acceptance Test Facility
- Design and Test Lab

For over four decades, EFI has been building water distribution equipment designed for automatic, unattended operation. From that experience, we offer customized electrical controls for every application. EFI can design, assemble, test, deliver and start up water flow control systems. EFI knows water distribution. Whether your application is new construction or an existing system upgrade, look to EFI for the answers to your control requirements.



**EFI's quality standards assure years of dependable service.
Quality at EFI is not a slogan.
Quality is designed and built into everything we do; it is our creed.**



**31.6 MGD Booster Station
Thornton, Colorado**



**15.8 MGD Water Transfer Station
Olivenhain, California**



**36" Pressure Reducing Valve Station
Warren, Michigan**



**42 MGD Pump Station
Henderson, Nevada**

Integrated, Factory-Built Pumping, Metering and Control Systems



Engineered Fluid, Inc.

PO Box 723, Centralia, IL 62801

(618) 533-1351 Fax (618) 533-1459

www.engineeredfluid.com or info@engineeredfluid.com