



Precision Systems

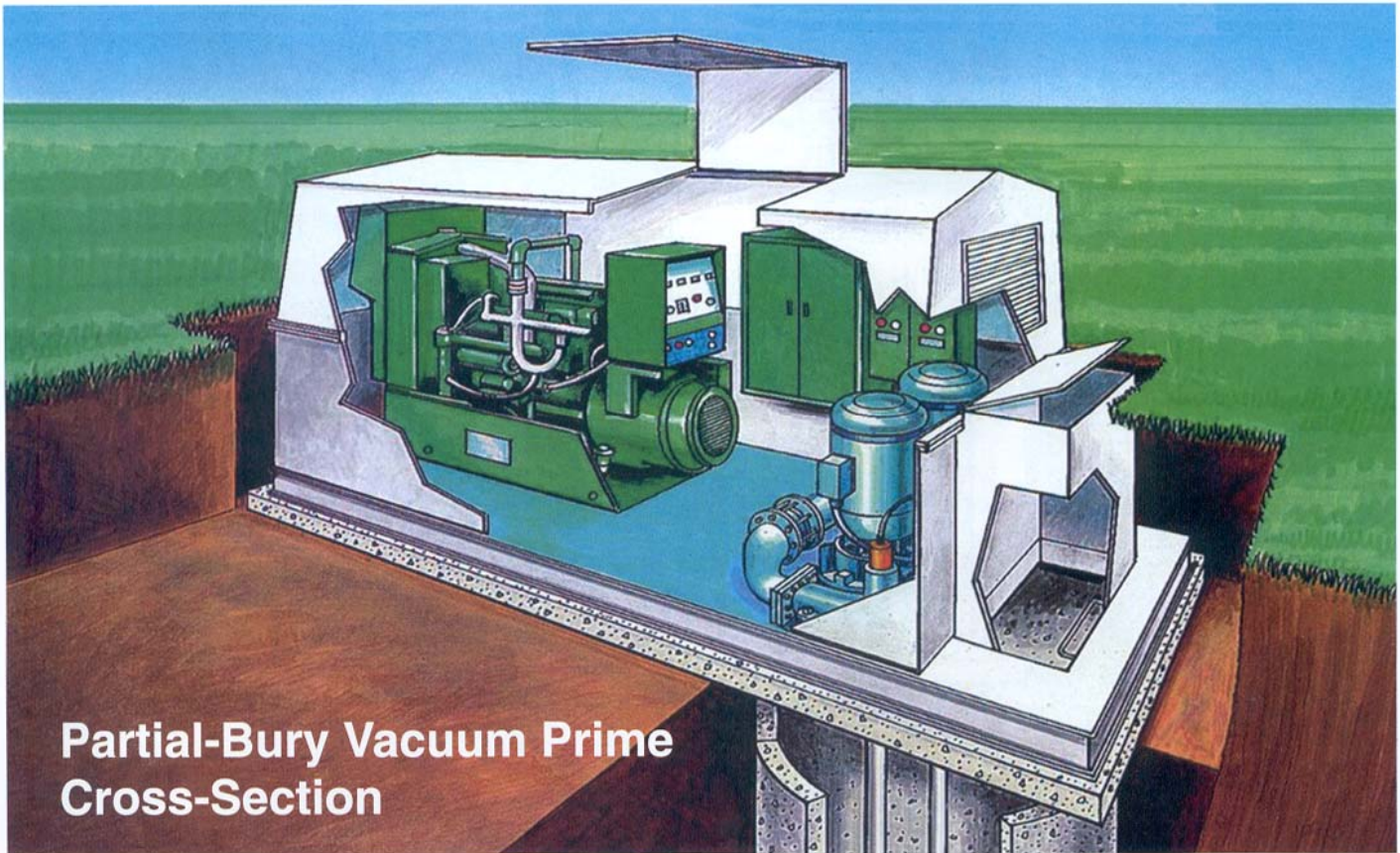
Twin-Pac

**Factory built packaged
wastewater pump stations
with stand-by power generation**



**Engineered and manufactured
with the customer's needs as top priority.**

What is a Twin-Pac?



**Partial-Bury Vacuum Prime
Cross-Section**

The Precision Systems Twin-Pac is a complete pump station delivered to your job site ready to be operated. The major components of the station include a stand-by power generator, automatic transfer switch, pump controller, waste water pumps and valves. These components are mounted on a steel base, completely wired, tested, and finally enclosed in a single piece fiberglass housing. The Twin-Pac is available in two series: 7000 Series with submersible pumps and 7500 Series with vacuum primed pumps.

The Twin-Pac is available in three different configurations. The **Tip-Up** design is ideal

for small stations. Its compact design is ideal for space challenged areas and the above grade valve vault eliminates confined space entry issues typically associated with site-built fully buried stations. The **Walk-In** configuration is suited for large stations accommodating larger generators and often triplex and quadruplex pump stations. The **Partial-Bury** unit, shown above with vacuum primed pumps, is our most sound attenuated design. With the generator buried up to four feet below grade, the noise associated with generator operation is dramatically reduced.

Twin-Pacs at Work

Precision System Twin-Pacs are a proven system providing benefits to end users across the country. Manufactured in Chicago and shipped complete to the job site, a partial list of current installations includes:

Vincetown, NJ*

Scarborough, ME

Charlton, MA*

Buffalo Grove, IL

Edwardsville, IL

Litchfield, CT

West Lafayette, IN*

Augusta, ME

Douglas County, CO*

Crown Point, IN*

Merrillville, IN

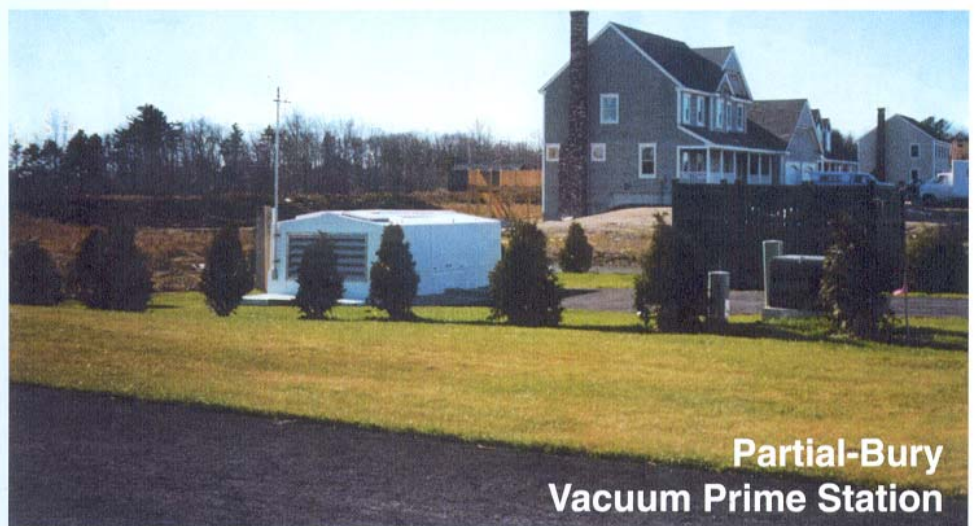
Middletown, RI

Braintree, MA

St. Louis, MO

Glenwood, IL

* Indicates multiple installations.



Quality Materials

Precision Systems has used fiberglass enclosures for its packaged generator systems for over 30 years. Starting with relatively small Tip-Up style enclosures and then expanding to the Walk-In and Partial-Bury styles that provide the added benefit of indoor maintenance and are capable of housing generators up to 600 KW. Fiberglass was selected as our primary enclosure material due to its many benefits. Some of these benefits include:



Smooth Exterior, Corrosion Resistant Finish
Low Maintenance
Economically Priced
High Strength / Light Weight
Sound Attenuation



This experience has shown us that the only viable fiberglass enclosure for generator applications is a single piece molded design. Generator applications are unique in that, during generator operation, temperatures within the housing can undergo broad changes within a matter of minutes. Multi-piece housings with glued or caulked seams cannot withstand these temperature shifts. These seams will develop cracks and holes that allow water and other elements into the enclosure.

Twin-Pac Delivery and Installation



Job site delivery



Wet well with Twin-Pac pad



Unloading with backhoe

The package design of the Twin-Pac significantly reduces the amount of field labor, both planned and unplanned, normally associated with site built pump stations in three unique ways.

1. The station is supplied complete and ready for installation limiting the contractors work to: setting of the station over the wet well, connecting the wet well piping to the station, and connecting the main power supply to the automatic transfer switch.

2. Prior to shipment of the Twin-Pac, Precision Systems performs a complete operational test on all of the major components to ensure functionality and compat-

ibility. This step eliminates the surprises at start-up common with site built stations causing additional unplanned labor/trips to complete the start-up of the station.

3. Precision Systems saves field time by coordinating start-up. When a Twin-Pac is ready to be started up, the contractor need only contact Precision Systems to coordinate start-up and training on all of the pump station components. We will arrange for certified technicians for all major pieces of equipment to arrive at the time designated by the contractor, engineer, and customer.

Twin-Pac's save time and money!

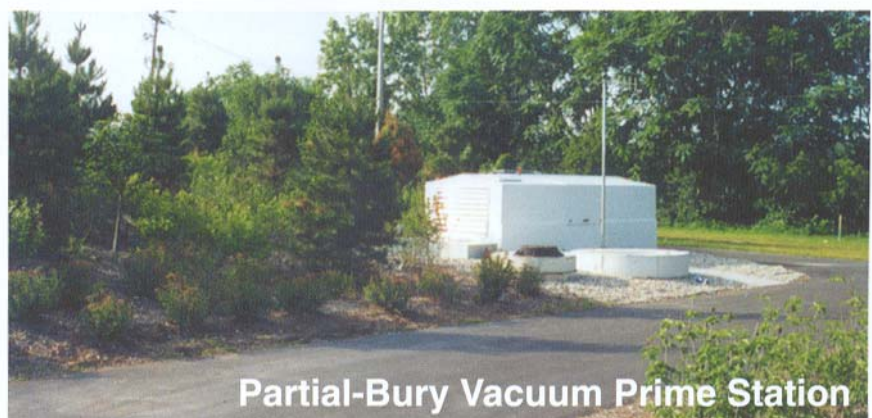
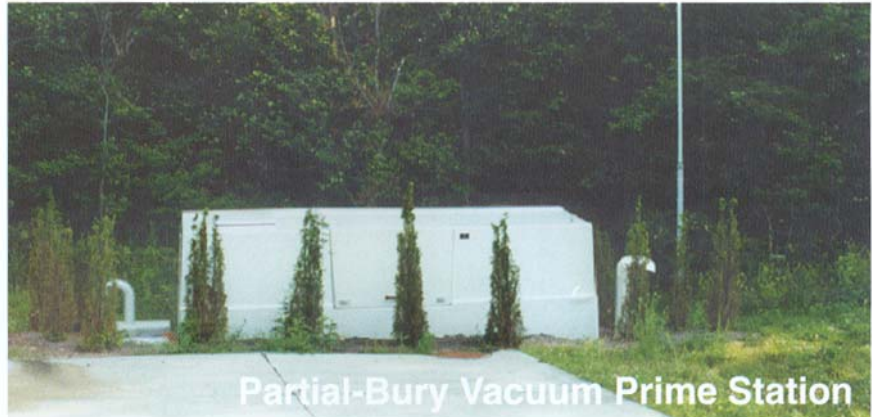
Precision System's goal. . .Customer Satisfaction

We have learned that a standard station is not acceptable to our customers. Each customer has their own standards. The Twin-Pac is designed to incorporate each customer's standards to provide a station designed for their specific needs.

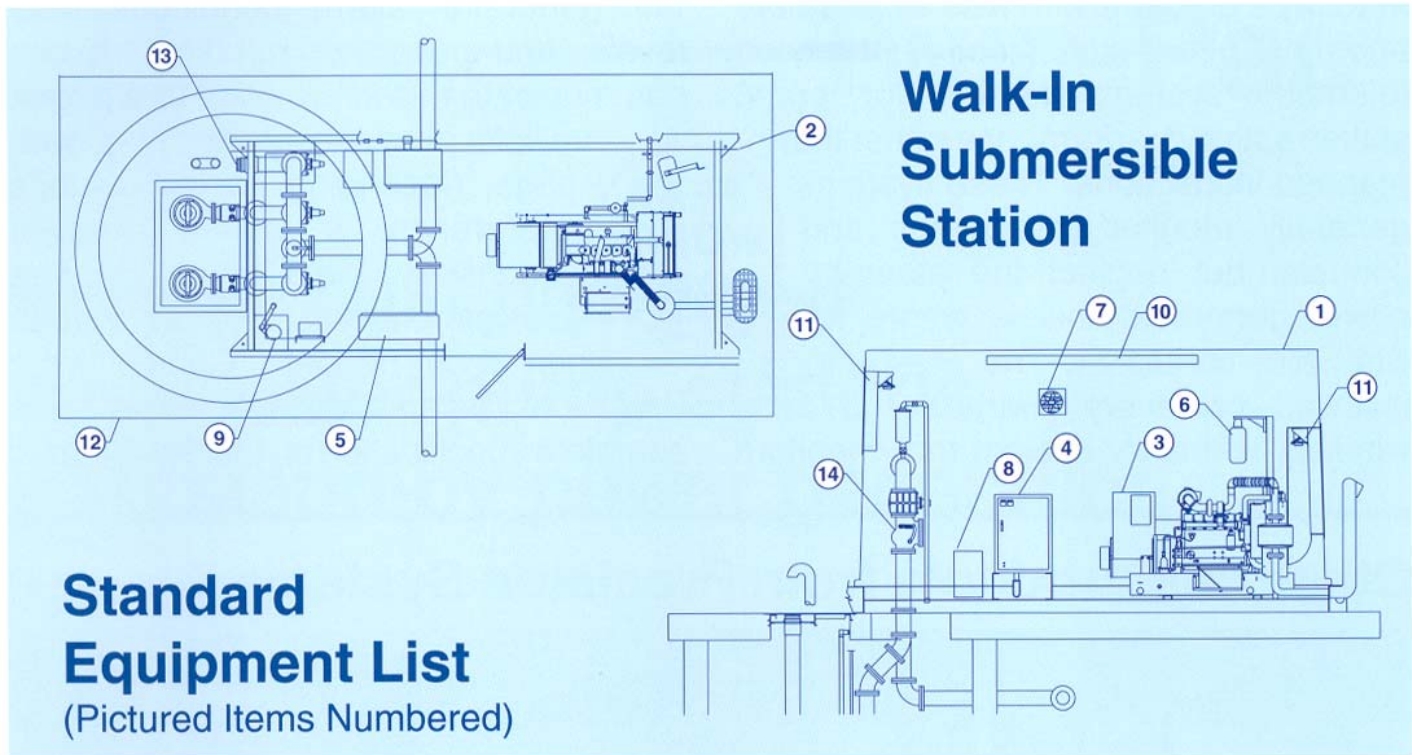
Precision Systems works with end users and consulting engineers to develop a pump station that meets or exceeds the needs of the customer. We will develop engineering drawings and specifications for the project and provide them to the engineer as a service to the project.

Integration of customer manufactured or specified components such as telemetry systems, control panels, or specific brand components is achieved on almost every project. We also include our Sta-Calm station monitoring telemetry system with each station we supply.

Twin-Pac's are constructed and tested in a controlled factory setting. This single source supplier method eliminates the delays or surprises common during installation and start-up of a site-built station. Consider a Precision Systems Twin-Pac for your next wastewater pump station.



Standard equipment included with Twin-Pac's



Standard Equipment List (Pictured Items Numbered)

ITEM	DESCRIPTION	WALK-IN	PARTIAL-BURY	TIP-UP
1	SINGLE PIECE FRP HOUSING		ALL TYPES	
2	STRUCTURAL STEEL SKID		ALL TYPES	
3	STAND-BY GENERATOR W/FUEL & EXHAUST SYSTEM		ALL TYPES	
4	AUTOMATIC TRANSFER SWITCH		ALL TYPES	
5	CONTROL SYSTEM		ALL TYPES	
6	FAN FORCED UNIT HEATER		ALL TYPES	
7	EXHAUST FAN		ALL TYPES	
8	DEHUMIDIFIER	X	X	
9	1/3 HP SUMP PUMP		X	
10	FLUORESCENT LIGHT	X	X	
11	MOTORIZED INTAKE AND EXHAUST LOUVERS	X	X	
12	NON-SKID FLOOR COATING	X	X	
13	BY-PASS PUMP CONNECTION FITTINGS		ALL TYPES	
14	WASTE WATER CHECK AND PLUG VALVES		ALL TYPES	
	TWO-PART EPOXY PAINT SYSTEM		ALL TYPES	
	U.L. DESIGNED FUEL TANK (DIESEL)		ALL TYPES	
	CONVENIENCE RECEPTACLE		ALL TYPES	
	CONCRETE SEALANT		ALL TYPES	
	STA-CALM STATION MONITORING TELEMETRY SYSTEM		ALL TYPES	
	TROUBLE LIGHT W/CORD			X
	ACCESS LADDER		X	
	(4) – 17 LB. SACRIFICIAL ANODES W/TEST PANEL (NOT SHOWN)	X	X	
	FIXED INTAKE AND EXHAUST LOUVERS			X
	STATION WATER INTRUSION ALARM	X	X	

Station Continuous Alarm Monitor (Sta-Calm)

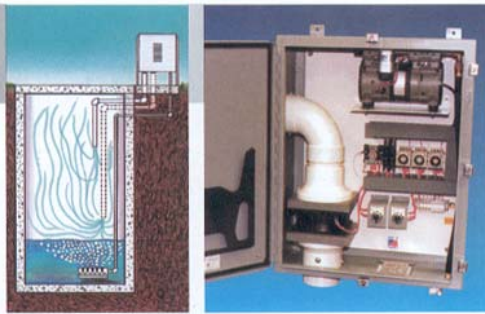
In today's do more with less world, more and more of our customers must rely on telemetry systems to monitor pump station activity/performance rather than manned inspections. These systems generally monitor the pumps and controls, but neglect the stand-by power generator; this is where the Sta-Calm comes in. The Sta-Calm is installed on every Twin-Pac. It is a wireless telemetry system that monitors



the generator alarm conditions, fuel levels, and generator run time. It can communicate this information to a pager, multiple phone contacts, or a web page, depending on the owner's preference. It is the simplest means available to ensure that your generator is ready to operate when it is needed. Contact your Precision Systems representative for a complete specification on the Sta-Calm.

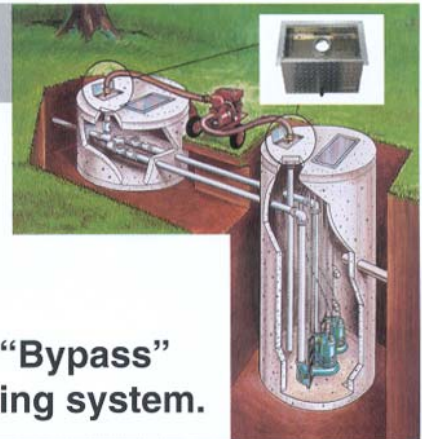
Other fine products from Precision Systems

Aera-Vent



Automatic wet well aeration and ventilation.

Porta-Con



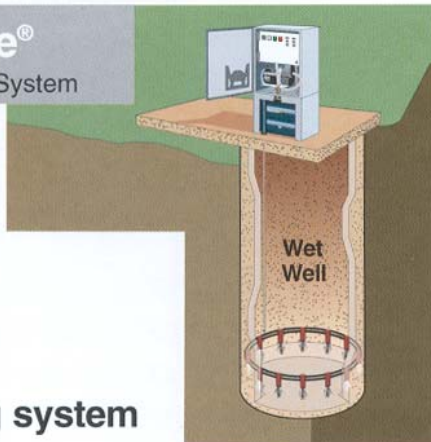
Emergency "Bypass" pump coupling system.

Depth Charge®

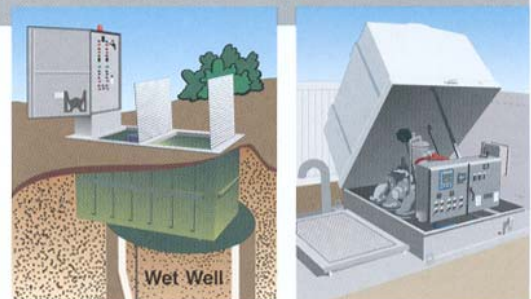
Grease Management System



Wet well grease mixing system



VALVE-PAC



Factory-Built Valve Packages

© 2004 Precision Systems



1530 Huntington Drive / Calumet City, Illinois 60409
Phone: 708-891-4300 / Fax: 708-891-4401
Internet: www.precision-systems.com