

SILENT STORM™

VERTICAL TURBINE

Variable Frequency Drive Pump Station

**Flow Rates from 200 - 4300 gpm*
Pressures from 50 - 150 psi***

* Contact FLOWTRONEX for other flows and pressures.

Standard Construction

- Custom Fabricated Steel Discharge Pump Heads with Air Separation Chamber & Leak-Free Stuffing Box
- High Efficiency Vertical Turbine Pumps with Stainless Steel Shafting, Water Lubricated Line Shaft Bearings and Stainless Steel Basket Strainer
- High Efficiency VFD Rated Vertical Hollow Shaft Motors
- 3.5" Silicone-Filled Pressure Gauges with Isolation Valves
- Hose Bib Connection
- Silent Wafer Check Valves
- Individual Grooved Pump Discharge Isolation Valves
- Flow Meter Spool with Data Industrial Flow Sensor
- Lug-Style Station Discharge Isolation Valve
- Cla-Val Pump Station Relief Valve with Inlet Isolation Valve
- 100% Continuous Weld Around Deck Plate
- Steel Grit Blast of All Piping and Structural Members
- Integral Wet Well Access Hatch
- High Efficiency Pressure Maintenance Pump (PMP)

- Dual Mechanically Interlocked Output Contactors for Automatic Alternation of Pumps
- Low Discharge Pressure Shutdown
- Motor Space Heater
- High Discharge Pressure Shutdown with Auto-Restart
- Low Water Level Shutdown with Auto-Restart
- VFD Fault Shutdown with Auto-Restart
- Overload Shutdown
- Individual Motor Phase Failure, Phase Imbalance and Low Voltage Protection
- S.L.A.P.™ (Surge & Lightning Advanced Protection) - UL Category B & C Surge & Lightning Arrestor with Total Power Dissipation of 82,500,000 VA. Maximum Clamping Voltage - 1,500 Volts (200a Pulse, 8*20µsec).
- Advanced Grounding System
- Lamp Test Function
- Individual Run Time Monitoring
- Automatic Alternation of VFD Pumps by Run Time
- Sequential Fault History
- ARU (Automatic Ramp Up Feature) - Will Slowly Ramp Up to Design Pressure (1 psig Every 4 Seconds) When Filling Lines, Restarting After a Shutdown or Whenever Pressure has Substantially Dropped.
- ADU™ (Automatic Diagnostic Utility)
- OTIS III™ (Operator Terminal Information System) - For Viewing Flow, Total Flow, Setpoint and System Pressure, Pump Station Diagnostics, Pump Run Times and All Other Registers Within the PLC. With Data Logging Flow, Pressure Capability and 253 Station Event History.

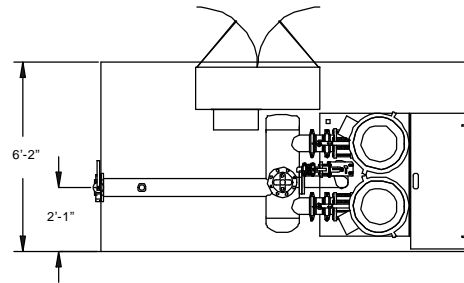
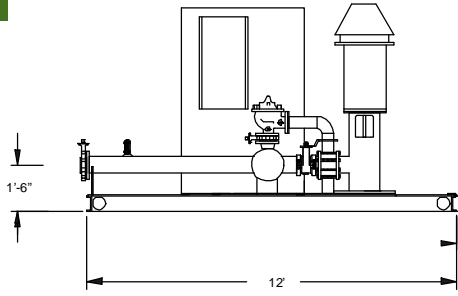
Standard Controls

- UL Listed as a Complete Packaged Pump Station
- UL Listed NEMA 4 Starter and Control Panel
- Stainless Steel Pressure Transducers
- VFD Cooling Device
- Through-the-Door Main Disconnect
- Fused Motor Protection Rated for 200,000 A.I.C.
- Allen-Bradley™ Microprocessor Controller with SMOOTHFLOW VI™ Control Software
- ABB Variable Frequency Drive (VFD) with Integral Input Line Reactor (Transient Suppression)

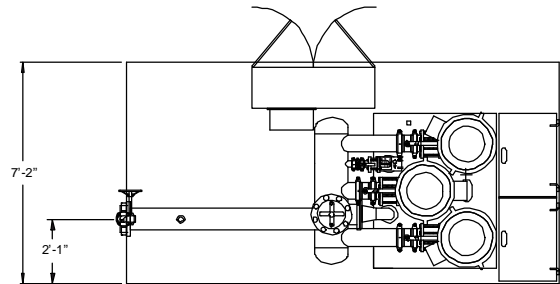
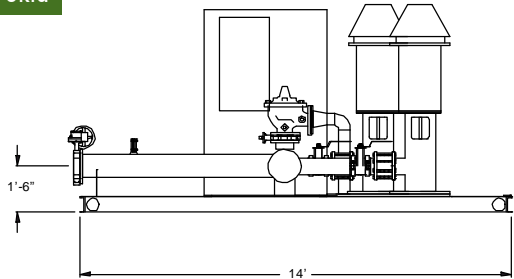


SILENT STORM Vertical Turbine Standard Dimensions

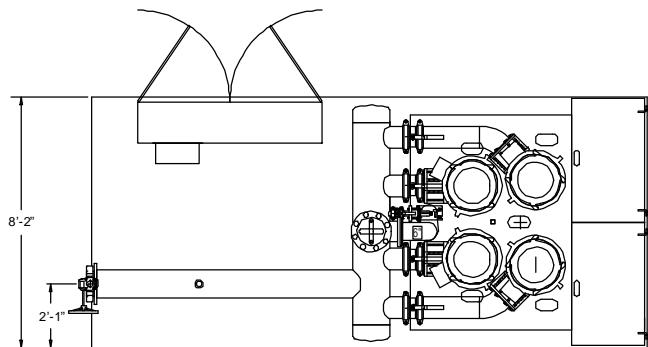
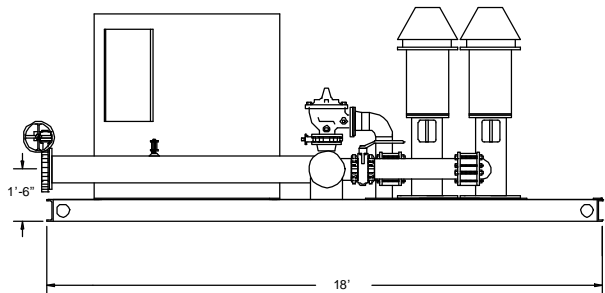
2 Pump Skid



3 Pump Skid



4 Pump Skid



Typical Intake Structure

