



# Specifications

\*Contact PPS for non-standard input power.

**System Type:** Variable Speed, End-Suction Centrifugal

**Applications:** Pressure Boosting • Suction Lift • Flooded Suction

**Electrical Input\*:** 208 Volt/3 Phase/60 Hz • 240 Volt/1 Phase/60 Hz • 240 Volt/3 Phase/60 Hz • 480 Volt/3 Phase/60 Hz

**Flow Range:** 20-380 GPM | **Boost Pressure:** 15-115 PSI | **Horsepower:** 3, 5, 7.5, 10, 20, 25 HP

## Features and Benefits

### CONTROLLER FUNCTIONS

#### Complete Automation

- Automatic start based on pressure drop or remote start relay.
- Maintains constant pressure at variable flows.
- Pump automatically enters sleep mode when demand stops and pressure setpoint is maintained.

#### System Protections

- Dry Run
- High Discharge Pressure
- High Flow, Low Flow
- Electrical Protections, including phase, voltage, current

#### Start-Up Assistant

- VFD programming for the motor
- System Sensor Activation & Calibration
- Operational Settings
- Discharge Pressure Setpoint
- Pump Sleep Settings

#### Troubleshooting Assistant

- System Alarms & Faults, Sensor Issues, & VFD/PLC Communication issues.

#### Password Protection

- For operator configurable settings
- Create New User, Operator, and Guest Accounts, with access limitations.

**Features Fault, Trend & Operator Logs to Report System Functionality**

### INSTRUMENTATION

#### Pressure Gauges

- Liquid filled stainless steel gauges.

#### Pressure Transmitter

- Stainless steel transmitter, transmits 4-20mA signal.

#### Flow Switch

- Compact stainless steel switch detects flow.

#### Flow Sensor (Optional)

- Non-magnetic, insertion flow sensor transmits flow rate to station controller.

### CONTROLLER PRIMARY COMPONENTS

#### Variable Frequency Drive (VFD)

- UL Listed, efficient VFD provides precise pressure control.

#### PLC/HMI

- CPU Module, with 3.5" Full color touchscreen, & Ethernet Port NEMA 3R Rated Disconnect Switch
- Padlockable disconnect switch with circuit-breaker protection.

#### Cell Modem (Optional)

- Allows for remote control and monitoring of pump station.
- Email and text message alarms.

### MECHANICAL COMPONENTS

#### Heavy Duty Pump & Motor

- Horizontal end-suction centrifugal pump, with mechanical seal, cast iron casing, and precision machined impellers.
- Premium efficient, open-drip proof motor.

#### Silent Check Valve

- Silent dual-disc check valve with grooved connection prevents reverse flow.

#### Butterfly Isolation Valves

- Grooved butterfly type with 10 position indicator to isolate the system for winterization/maintenance.

#### Air Relief Valve

- Continuously acting air relief valve releases entrained air.

#### Pressure Tank

- 2 gallon diaphragm type pressure tank stabilizes system pressure and prevents pump from short cycling.

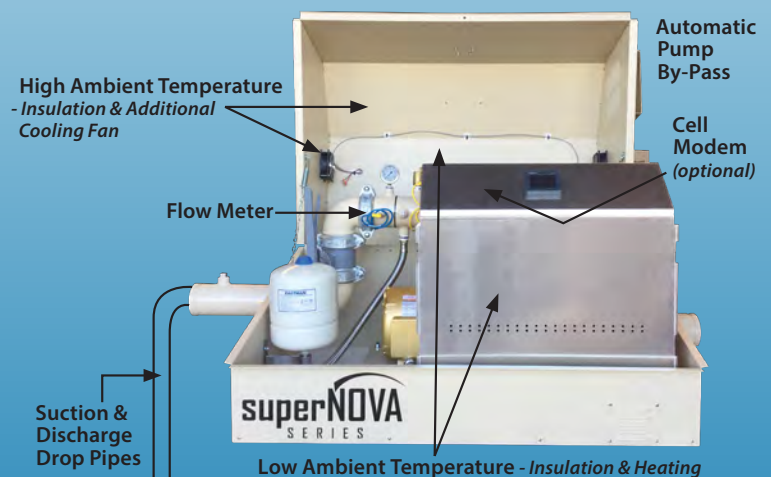
#### Piping & Connections

- Powder coated steel piping provides superior corrosion resistance.
- Grooved connections and fittings for easy disassembly for winterization and maintenance.
- Optional HDPE Drop-pipe connection for quick tie-in piping network.

### MARINE GRADE ALUMINUM ENCLOSURE

- Protects the station from intruders and the elements.
- Low profile, compact design.
  - Houses all components in an aesthetically pleasing enclosure.
- Custom colors available to suit the local environment.
- Lockable clamshell lid provides complete access to all system components.
- Thermosetting epoxy powder coating provides corrosion protection.

### Accessories



For more information on PPS pump systems:  
**GoPPS.us • 208.323.5300**

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