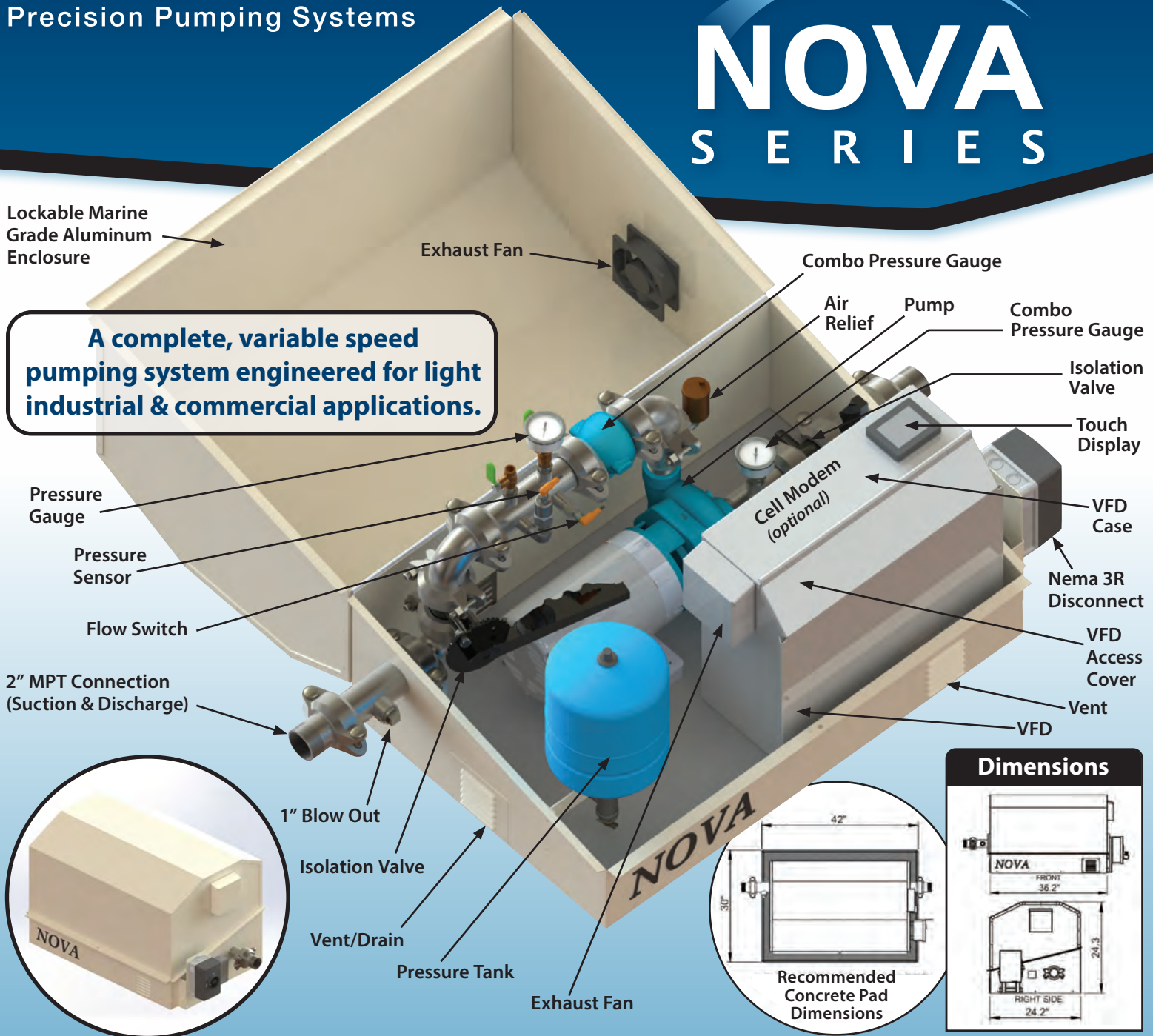
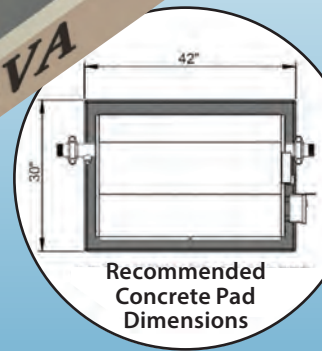


NOVA S E R I E S



Dimensions



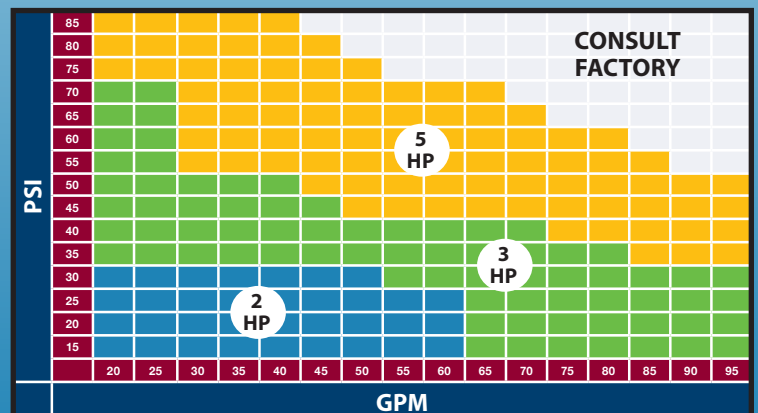
Specifications

System Type	Variable Speed, End-Suction Centrifugal
Applications	<ul style="list-style-type: none"> • Pressure Boosting • Suction Lift • Flooded Suction
Electrical Input*	<ul style="list-style-type: none"> • 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	20-95 GPM
Boost Pressure	15-85 PSI
Horsepower	2, 3, & 5 HP

*Contact PPS for non-standard input power.

208V/3Ø	
HP	MAX FLA
2 & 3 HP	16A
5 HP	24A
240V/1Ø	
HP	MAX FLA
2 & 3 HP	24A
5 HP	36A
240V/3Ø	
HP	MAX FLA
2 & 3 HP	14A
5 HP	21A
480V/3Ø	
HP	MAX FLA
2 & 3 HP	7A
5 HP	11A

Booster Pump Performance Range



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
- Low Suction Pressure, 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.

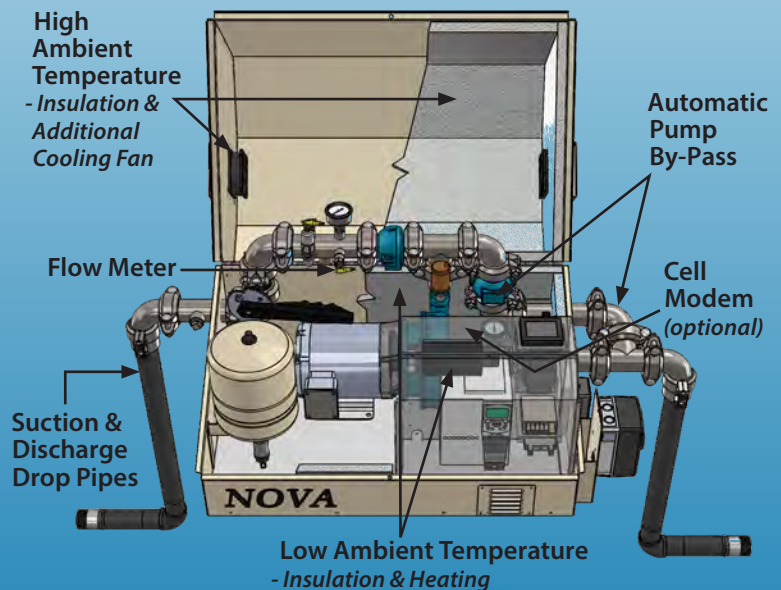
Piping & Connections

- 304 Stainless Steel piping provides superior corrosion resistance.
- Grooved connections and fittings for easy disassembly for winterization and maintenance.
- 2" MPT station suction and discharge piping for quick connection to onsite piping network.
- Optional HDPE Drop-pipes, with 2" MPT 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.

NOVA Accessories



For more information on PPS pump systems:
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 **PPS**
Precision Pumping Systems

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