BoostPRO

Boosting the pressure for residential and small commercial needs

May 2009

STANDARD FEATURES

- Pentair PL Series fiberglass-reinforced thermoplastic pump or Aurora 320 Series single stage end suction pump
- Pump is close-coupled to a 110/220 volt, 1 phase, 60hz, 3500 RPM, ODP motor, from 1/3 to 2 HP
- Pentair glass-reinforced epoxy 20 gallon hydropneumatic pressure tank with air/water isolation
- Suction mounted check valve
- Copper piping
- Pressure switch
- Pressure relief valve
- Discharge pressure gauge
- System flow from 6 to 60 GPM
- Boost pressure 20 to 50 PSI
- Compact
- Lightweight
- Turnkey boost solution





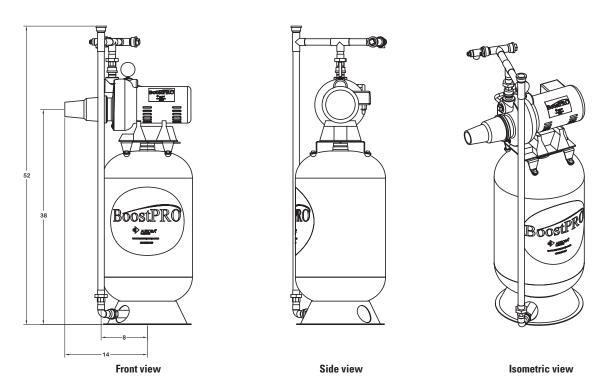
motralec

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The Simplex Booster System

The Aurora Pump Simplex Constant Speed Booster System is designed to meet residential, small commercial and industrial applications where city or well water pressure is not adequate. It is specifically tailored to fresh water applications in homes, small office buildings, small hotels, and other commercial and industrial locations with flow requirements of 60 GPM or less. This system offers simplicity with a single pump, motor, tank, pressure switch, pressure relief valve, check valve and copper piping.



Pump Selections (reference catalog for pump curves and specifications.)

PL SERIES

Model	Pump	HP	Switch	Discharge Pressure PSI			
				20	30	40	50
BP9-40	3 PL	.33 HP	30-50 PSI	9.5 GPM	9.2 GPM	9.0 GPM	5.8 GPM
BP9-50	5 PL	.5 HP	30-50 PSI	16.2 GPM	15.8 GPM	15.3 GPM	8.7 GPM
BP21-40	7 PL	.75 HP	30-50 PSI	21.3 GPM	21.0 GPM	20.7 GPM	13.2 GPM
BP21-50	10 PL	1 HP	30-50 PSI	26.3 GPM	26.2 GPM	26.2 GPM	21.3 GPM

^{*}Jet pump working pressure limit is 75 PSI

321 SERIES PUMP Note: 321 pumps will have a thermal relief valve

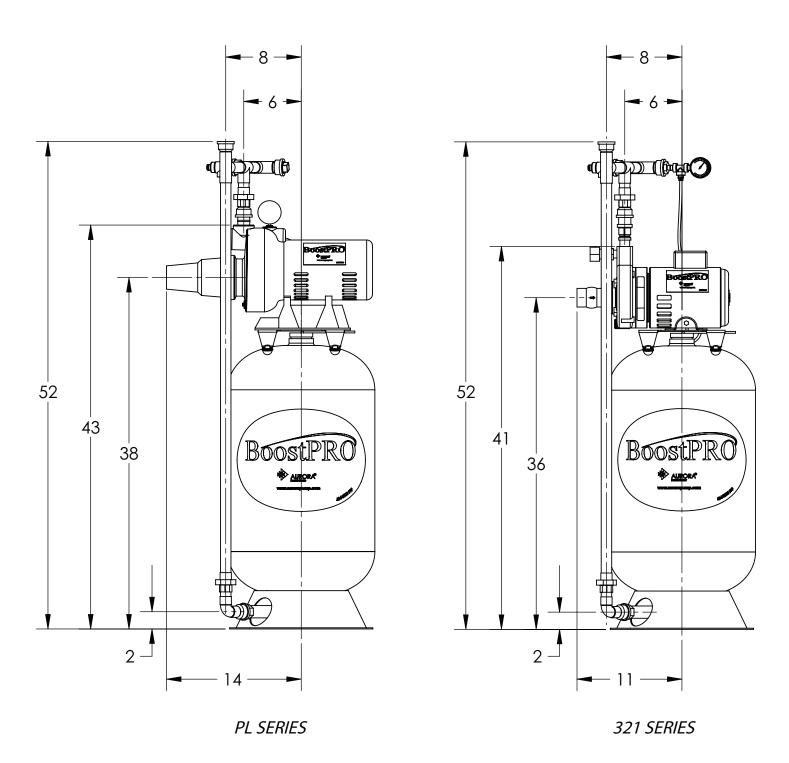
Model	Pump	HP	Switch	Discharge Pressure PSI			
				20	30	40	50
BP30-20	321 3/4x1x6A	.5 HP	10-65 PSI	30 GPM	NA	NA	NA
BP30-30	321 3/4x1x6A	1 HP	10-65 PSI	48.6 GPM	30 GPM	NA	NA
BP30-40	321 3/4x1x6A	1.5 HP	10-65 PSI	NA	49.6 GPM	30 GPM	NA
BP30-50	321 3/4x1x6A	2 HP	10-65 PSI	NA	59.9 GPM	50.7 GPM	30 GPM

^{*321} Series working pressure limit is 175 PSI

Pick pump based on maximum expected flow and boost required for installation.

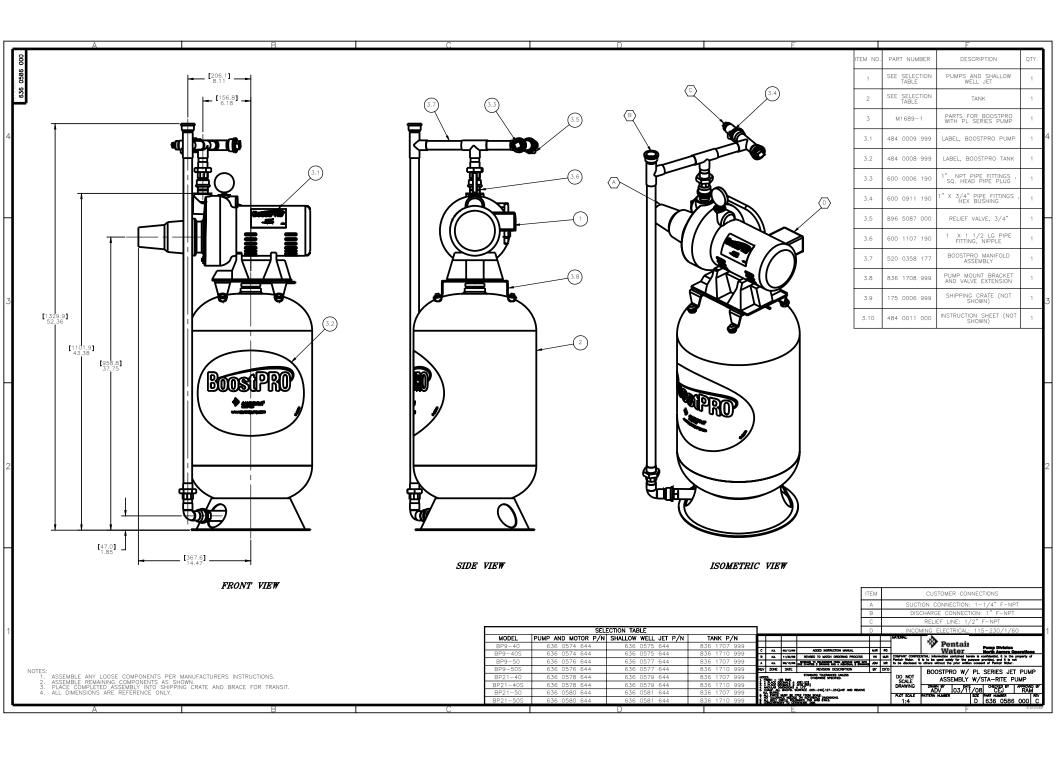
Desired Discharge Pressure _____ PSI - Suction Pressure ____ PSI = BoostPro System ____ PSI

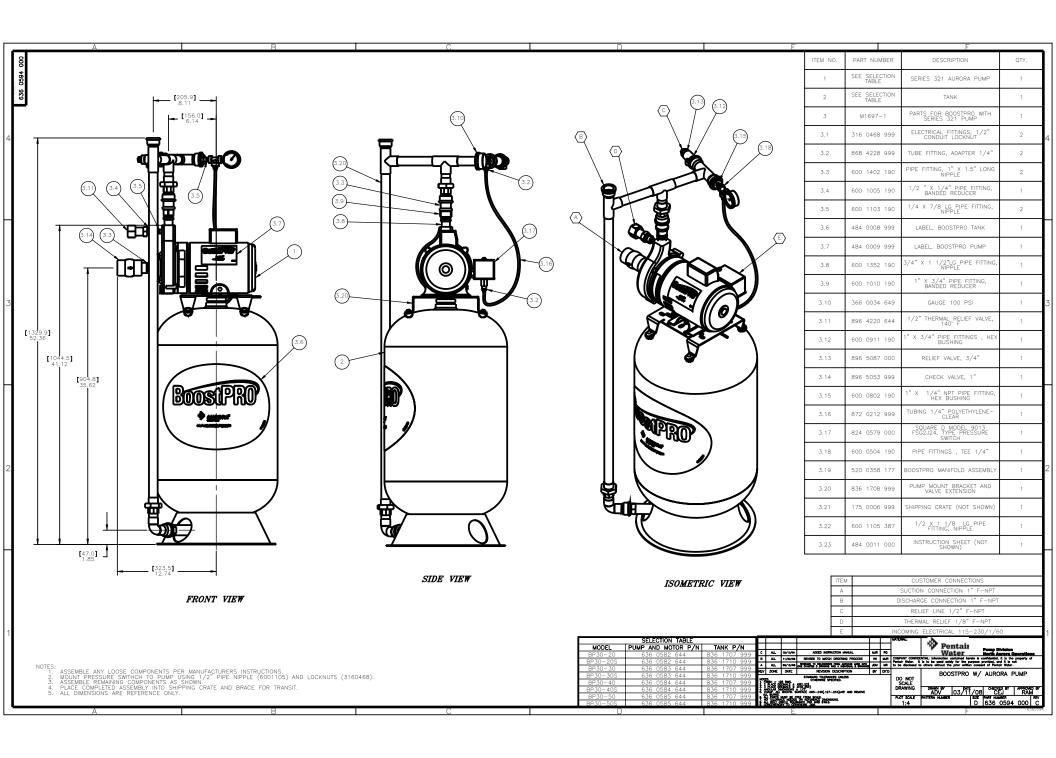
AURORA MODEL 7720 PUMPS BoostPRO



NOTES:

- 1. All dimensions in inches and may vary ± 2 ".
- 2. Not for construction unless certified.





BoostPRO Installation and Instruction Manual



The Aurora Pump BoostPRO is designed to boost existing water supply pressure to an acceptable level using simple technology without the need for a control panel with starter.

CAUTION

Please read prior to installing.

- Install in a restricted area away from children.
- With all water systems there is a risk of flooding so take precautions and follow all instructions.
- Pressure generated by this system can cause injury if there is a loose component that becomes airborne. Make sure all
 connections are secure. Make sure pressure limits of the system are not exceeded.
- Do not run this pump without water inside or damage to the mechanical seal may occur.
- Water with solids, rust particles, scale, or sand can cause pump seal failure.
- If the pump runs at no flow, water in the pump can become very hot and can be hazardous to personnel.
- Locate this system in an area free from risk of freezing.
- Use of a ground-fault circuit interrupter (GFCI) can reduce the risk of injury through electrical shock.
- All piping should be supported independently from the BoostPRO.
- Do not exceed the working pressure of the pump.

INSTALLATION

CAUTION: ALL ELECTRICAL CONNECTIONS SHOULD BE MADE BY QUALIFIED PERSONNEL IN ACCORDANCE WITH ALL PREVAILING LOCAL AND NATIONAL ELECTRICAL CODES.

- 1. Examine the system for completeness and damage and correct any deficiencies.
- 2. Locate the BoostPRO in an area that is convenient to existing supply water piping.
- 3. Locate the tank on a flat floor, preferably concrete that is level and relatively smooth so that it is stable. The weight of water in the tank will negate the need for any bolting or adhesion to the floor. The BoostPRO may be located on an elevated concrete pad to allow any water to quickly drain away from the tank.
- 4. With no water pressure applied, check the air charge pressure in the tank using a standard tire pressure guage. Adjust this pressure to 2 PSI less than the desired short/cut-in pressure of the system. For example, if the pressure switch has a 30-50 PSI rating, the air charge would be 28 PSI.
- 5. Shut off all water supply valves. Interrupt the piping and connect the water supply to the pump suction. Connect the discharge of the BoostPRO to the service water connection of the building.
- 6. Connect power to the pressure switch located on the BoostPRO, consisting of 220 volts single phase, 60 Hertz. Connect power per the latest NEC and local codes.
- 7. After all piping and electrical connections are secure, open the inlet shut off valve and any outlet shut off valve, if equipped. Purge all air from the pump and piping.

NOTE: If the system has a bronze-fitted cast iron pump, then the pressure switch will need to be adjusted. Open the pressure switch cover and set the differential to minimum. Set the high pressure to the desired pressure. Return to the tank air pressure to set up for best efficiency. Replace the cover.

