



Specification Sheet for Model PP44S10L71-D2.9L

Pioneer Prime - Vacuum Assisted
Centrifugal Pump, Diesel-Driven Package

Optional Sound Attenuated Enclosure



Features

- Indefinite Run-Dry Capability
- Extreme Flow Technology
- Environmentally Safe Priming System with Patented PosiValve™ - No Blow By
- Auto Start Controls
- Sound Attenuated Canopy Model - 68 dBa @ 7 meters

Pump Specifications

Pump Size	4 x 4 inches	100 x 100
Max Flow	1,600 USgpm	370 m ³ /h
Max Head	150 feet	50 metres
Solids Size	3 inches	76 mm

Options & Accessories

Trailers

- Off-Road Trailer
(Idle Axle, No Lights, No VIN)
- On-Road Trailer – Surge Brakes
(DOT ready, VIN)
- On-Road Trailer – Electric Brakes
(DOT ready, VIN)

Control Panel

Lofa 750

Accessories

- Interior Lights
- Skid Tubes
- Solar Charger
- Spare Tire Carrier
- Toolbox

Enclosures

- Environmental canopy Kit
- Sound attenuated canopy Kit
- Premium sound attenuated canopy Kit

Materials of Construction

	Standard Construction	Optional Constructions
Impeller	CA6NM SS	CD4MCu
Shaft	17-4 PH	17-4 PH
Wear Ring	Gray Iron	316 SS
Suction Cover	Ductile Iron	CD4MCu
Volute	Ductile Iron	CD4MCu
Brac-plate/ bracket	Ductile Iron	CD4MCu

Engine Specifications

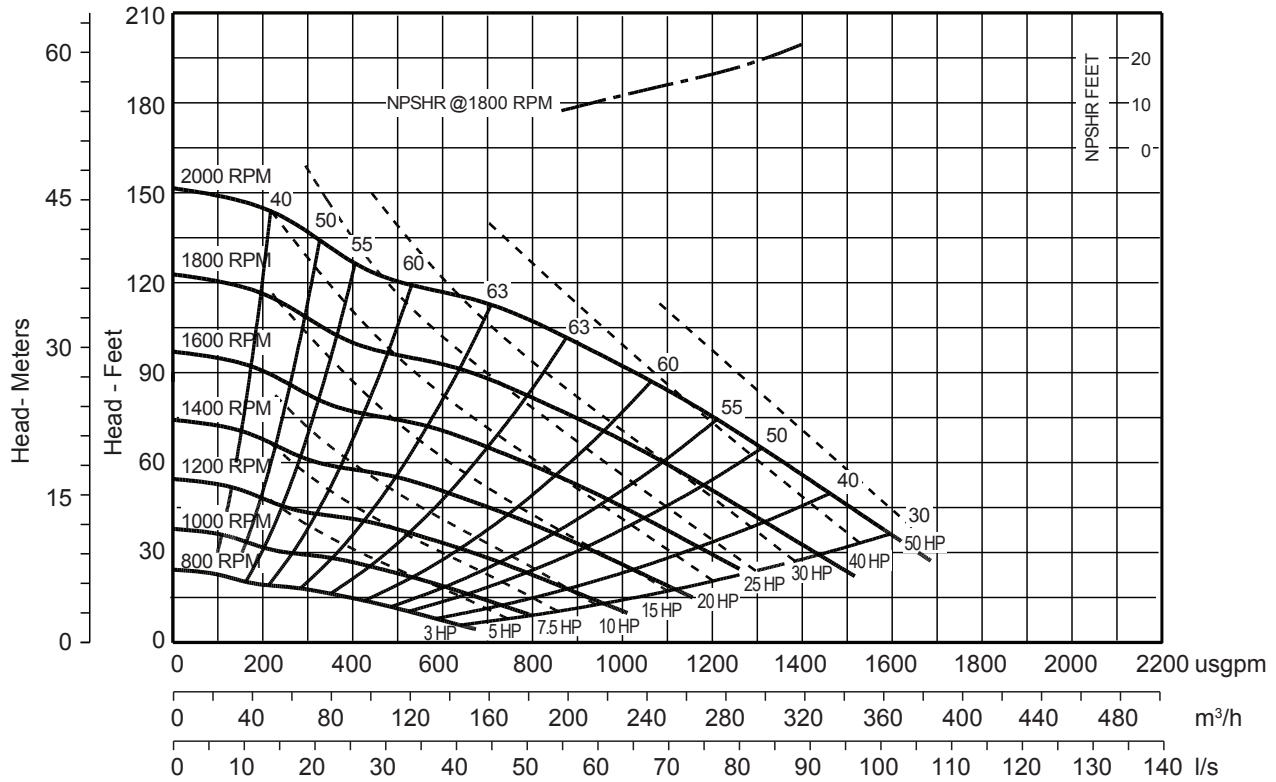
Engine Type	Deutz D2.9L, 4-Cylinder Diesel Final Tier 4
Displacement	177 Cu. In. (2.9 L)
Fuel Tank, Typical	110 US Gal (416.4 L)
Fuel Consumption @ 1800 RPM	1.95 GPH (7.38 L/H) (Full Load)
Continuous Horsepower	36 HP @ 1800 RPM
Operating Time	56 hours
Safety Shut Down Switches	Low Oil Pressure, High Temperature and V-Belt Failure
Instrument Panel	Oil Pressure Gauge, Ampmeter, Hourmeter, and Tachometer

UltraPrime™ Priming System

Priming System	Mechanically Driven Diaphragm Style Vacuum Pump
Air Removal Capability	50 CFM
Priming Chamber	Positive sealing air separation PosiValve™ with stainless steel float ball & linkage.
Discharge Check Valve	Swing Style - ductile iron with Buna-n Disc
Run Dry System	Oil-lubricated mechanical seal allows the pump to run completely dry without damage

Performance Curve

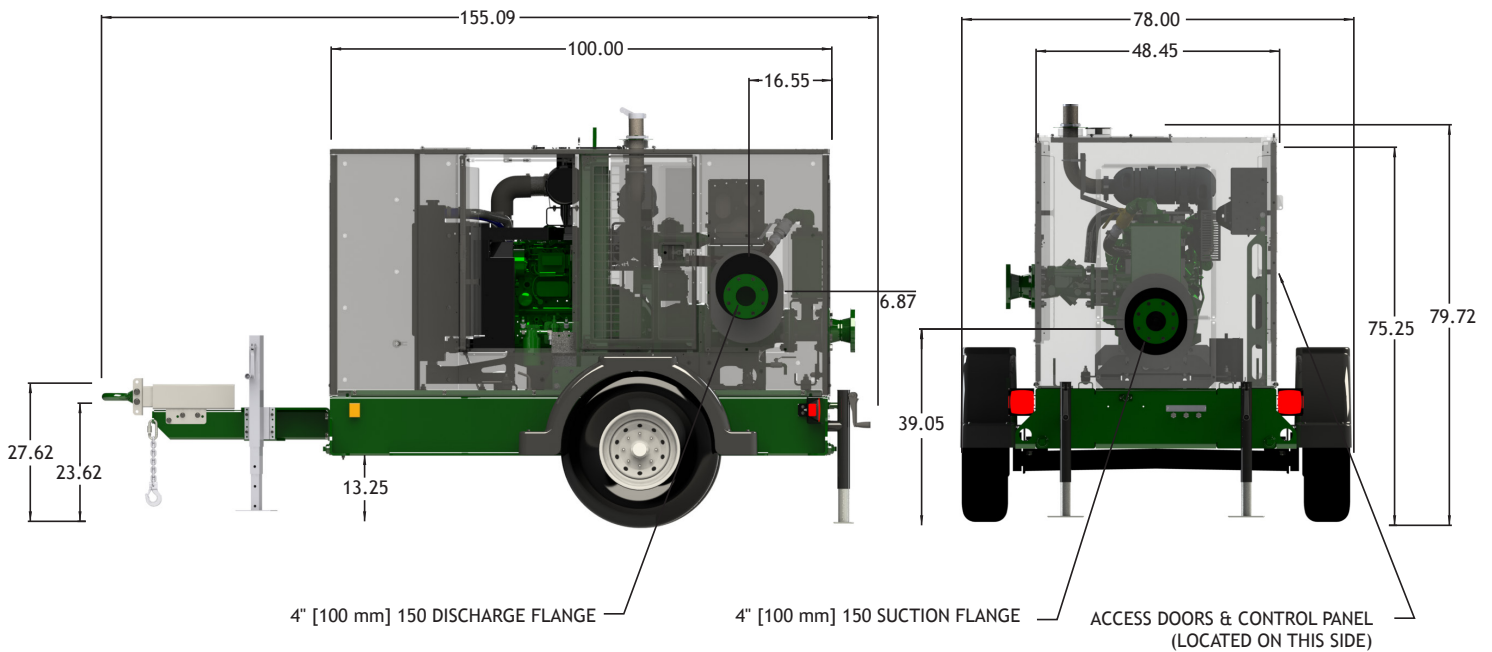
Model: PP44S10	Impeller Dia. 10.0"	Solids Size: 3.0"	Curve # 07903HQ
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Mechanical Drawing

PP44S10L71-D2.9L

Skid, Dry	3290 lbs
Skid, Wet	3983 lbs
Trailer Kit	810 lbs
SA Enclosure Kit	330 lbs



Package shown with optional sound attenuated enclosure. External dimensions are the same for open packages.