

## Pioneer Prime Diesel-Driven Centrifugal Pump Trailer Package

# PP44S10L71-D2.9L4



### PUMP SPECIFICATIONS

Size	4" x 4" (100 x 100 mm)
Impeller Diameter	10" (254 mm)
Max Flow	1,520 gpm (345 m <sup>3</sup> /h)
Max Head	155 feet (47 meters)
Solids Size	3" (76 mm)
Max. Operating Temp.	200 °F (93 °C)
Max. Operating Press.	260 psi (1800 kPa)

### ENGINE SPECIFICATIONS

FT4 Engine Type	Deutz D2.9L, 4-Cylinder Diesel
Displacement	177 cu. in. (2.9 l)
Fuel Consumption	2.07 gph (7.83 l/h) @ 1800 rpm
Continuous HP	36 HP (27 kW) @ 1800 rpm
Peak Intermittent HP Rating	49 HP (36.5 kW)
FT4 Specifics (Def or No Def, DOC, SCR, etc.)	DOC
Instrument Panel	Oil pressure gauge, voltmeter, hourmeter, tachometer

### PIONEER PRIME PRIMING SYSTEM

Priming System	Mechanically driven diaphragm-style vacuum pump
Air Removal Cap.	50 cfm (.02 cms)
Priming Chamber	Positive sealing air separation w/stainless steel components
Discharge Check Valve	Swing style; ductile iron w/nitrile disc
Run Dry System	Oil-lubricated mech. seal allows pump to run completely dry without damage

### FEATURES AND BENEFITS

- Indefinite run-dry capability
- Extreme flow technology
- Environmentally safe priming system: Pioneer Prime
- Auto-start controls
- Skid options available

### PARTS KITS

Mechanical Seal Kit: 372000109	Upper Vacuum Kit: 374000102
Bearing Frame Kit: 37300107	Lower Vacuum Kit: 374000103
Priming Chamber Assembly: 1060015894	

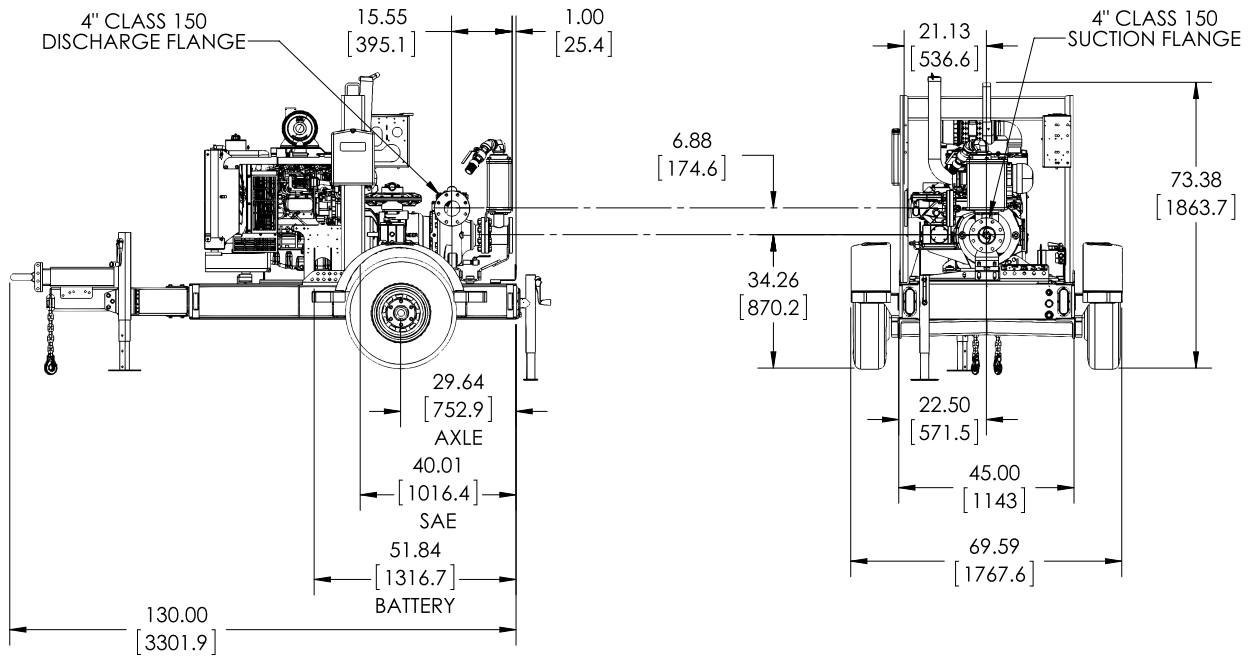
### PACKAGE SPECIFICATIONS

Fuel Capacity	75 gal (284 L)
Control Panel	LOFA CP750
Operating Speed (Min. / Max.)	1,000 / 2,200 rpm
Weight (Dry / Wet)	3,000 lbs / 3,533 lbs
Instrument Compatibility	High/Low level floats, transducers
Trailer Brakes	Electric
Optional Adders	Surge breaks, corner jacks, tongue-mounted tool box, wheel chocks, exterior lighting, solar or 120VAC trickle charger
Telemetry Ready	Options available

### MATERIALS OF CONSTRUCTION

Material	Standard Construction
Impeller	CA6NM Stainless Steel
Shaft	17-4 PH Stainless Steel
Wear Ring	ASTM A48 Class 40 Gray Iron
Suction Cover	Ductile Iron ASTM A536 65-45-12
Volute	Ductile Iron ASTM A536 65-45-12
Brac-Plate/Bracket	Ductile Iron ASTM A536 65-45-12
Mechanical Seal	Silicon Carbide rotating and Tungsten Carbide stationary

## MECHANICAL DIMENSIONS



## PERFORMANCE CURVE

