

Pioneer Prime Diesel-Driven Trailer Package

PP44S8L71-D2.2

44S8-PPI-01-D



PUMP SPECIFICATIONS

Size	4" x 4" (100 x 100 mm)
Impeller Diameter	8.25" (210 mm)
Max Flow	1,525 gpm (346 m³/h)
Max Head	85 ft (25.9 m)
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 D2.2 3-Cylinder
Displacement	133 in (2.2 L)
Fuel Consumption	1.4 gph (5.3 L/h) @ 1,800 rpm
Continuous HP	20 HP (17.7 kW) at 1800 rpm
Peak Intermittent HP Rating	24.7 hp (18.4 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 mechanical 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

PARTS KITS

Mechanical Seal Kit: 372000108
 Bearing Frame Kit: 373000106
 Priming Chamber Assembly: 1060015894

Upper Vacuum Kit: 374000102
 Lower Vacuum Kit: 374000103

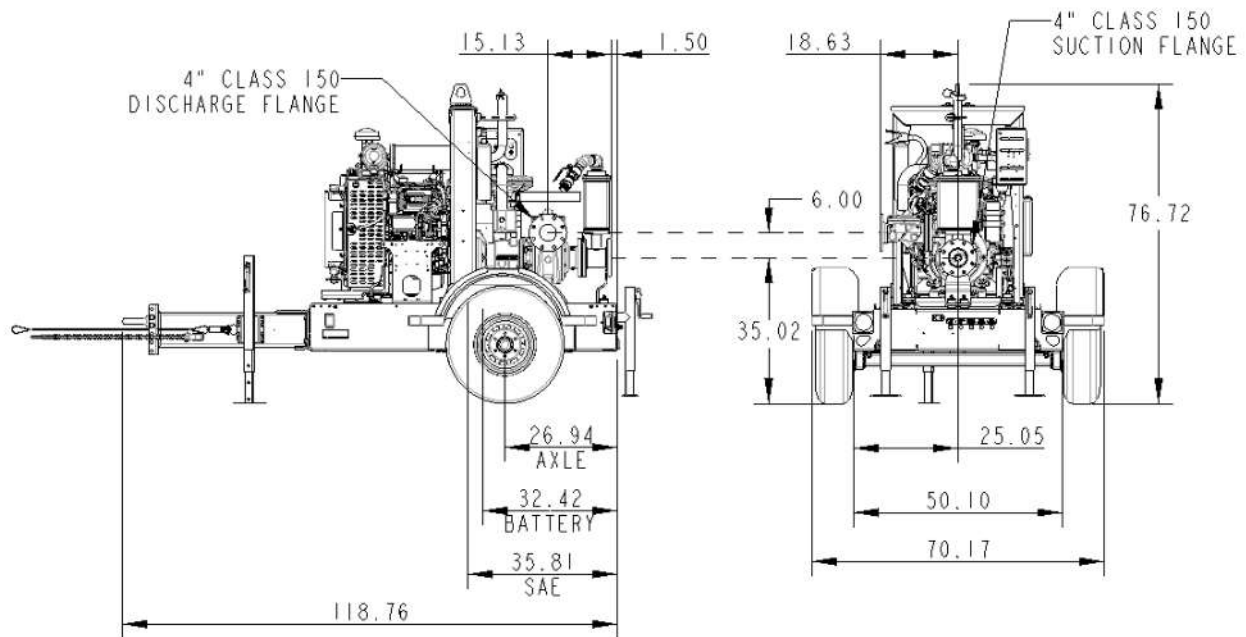
PACKAGE SPECIFICATIONS

Fuel Capacity	59 gal (223 L)
Control Panel	LOFA CP750E
Operating Speed (Min. / Max.)	1,200 rpm / 2,100 rpm
Weight (Dry / Wet)	2,820 lbs / 3,240 lbs (1,280 kg / 1,470 kg)
Instrument Compatibility	High/low level floats, transducers
Trailer Brakes	Electric

MATERIALS OF 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

