

Pioneer Prime Diesel-Driven Centrifugal Pump Trailer Package

PP108S17L71-6090CI550

108S17-PPI-01-J



PUMP SPECIFICATIONS

Size	10" x 8" (254 x 200 mm)
Impeller Diameter	17" (445 mm)
Max Flow	7,000 gpm (1,590 m ³ /h)
Max Head	380 feet (116 meters)
Solids Size	3.5" (90 mm)
Max. Operating Temp.	200 °F (93 °C)
Max. Operating Press.	260 psi (1800 kPa)

ENGINE SPECIFICATIONS

FT4 Engine Type	John Deere 6090CI550
Displacement	549 cu. in. (9.0 l)
Fuel Consumption	15.97 gph (60.4 l/h) @ 1800 rpm
Continuous HP	341 HP (250 kW) @ 1800 rpm
Peak Intermittent HP Rating	350 HP (257 kW)
FT4 Specifics (Def or No Def, DOC, SCR, etc.)	DOC / DPF / SCR
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

PARTS KITS

Mechanical Seal Kit: 372000110	Upper Vacuum Kit: 374000102
Bearing Frame Kit: 37300110	Lower Vacuum Kit: 374000103
Priming Chamber Assembly: 1060015894	

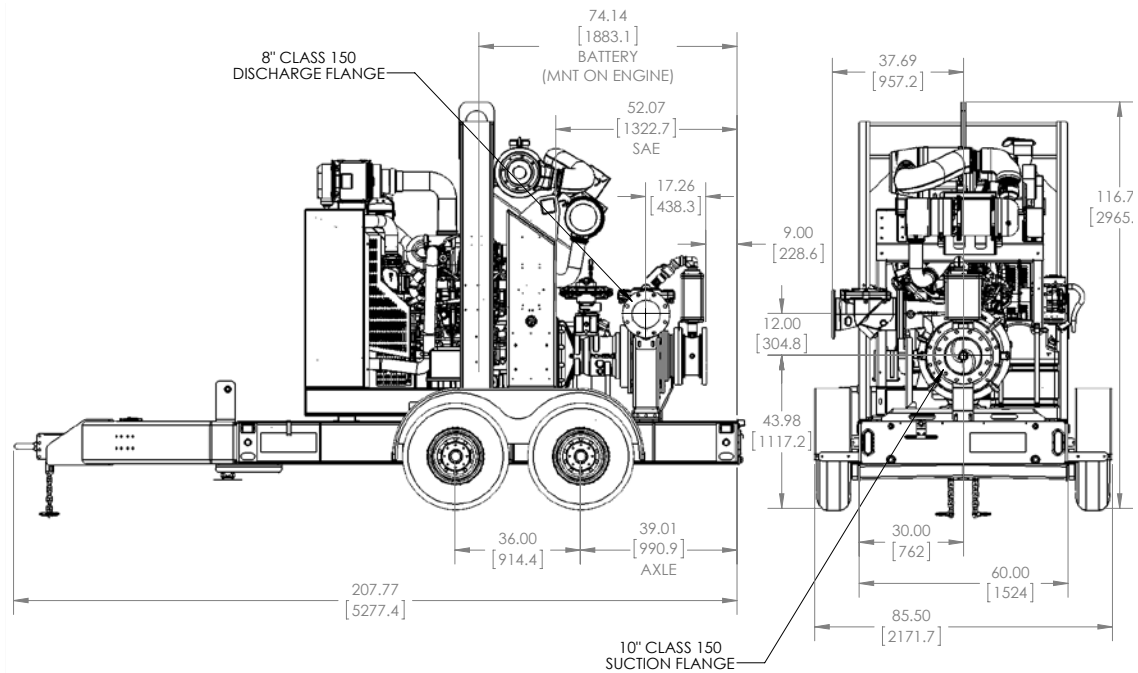
PACKAGE SPECIFICATIONS

Fuel Capacity	250 gal (946 L)
Control Panel	LOFA CP900
Operating Speed (Min. / Max.)	1,000 / 2,400 rpm
Weight (Dry/Wet)	10,520 lbs / 12,300 lbs
Instrument Compatibility	High/low level floats, transducers
Trailer Brakes	Electric
Optional Adders	3-watt solar charger, 10-watt solar charger, corner jacks, float switch, hose racks, pressure gauges

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

