

Pioneer Prime Diesel-Driven Centrifugal Pump Trailer Package

PP43C21L71-4045HFC06

43C21-PPI-01-J



PUMP SPECIFICATIONS

Size	4" x 3" (102 mm x 76 mm)
Impeller Diameter	21" (533 mm)
Max Flow	600 GPM (136 m3ph)
Max Head	575 feet (175 meter)
Solids Size	.75" (19 mm)
Max. Operating Temp.	200 °F (93 °C)
Max. Operating Press.	260 psi (1,800 kPa)

ENGINE SPECIFICATIONS

FT4 Engine Type	John Deere 4045HFC06
Displacement	275 cu. in. (4.5 L)
Fuel Consumption	7.03 gph (26.6 L/h) @ 1,800 RPM
Continuous HP	142 HP (106 kW) @ 1,800 RPM
Peak Intermittent HP Rating	173 HP (129 kW)
FT4 Specifics (Def or No Def, DOC, SCR, etc.)	DOC / 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: 372000121	Upper Vacuum Kit: 374000102
Bearing Frame Kit: 373000117	Lower Vacuum Kit: 374000103
Priming Chamber Assembly: 1060015894	

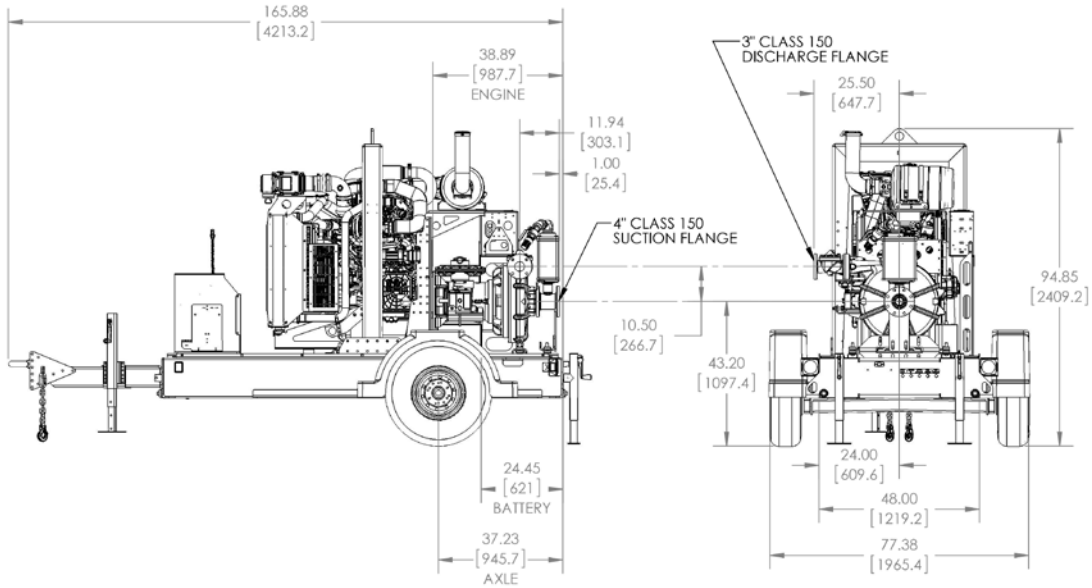
PACKAGE SPECIFICATIONS

Fuel Capacity	135 gal (511 L)
Control Panel	LOFA CP750E
Operating Speed (Min. / Max.)	1,000 / 2,000 rpm
Weight (Dry/Wet)	5,905 lbs (2,675 kg) / 6,865 lbs (3,115 kg)
Instrument Compatibility	High/Low level floats, transducers
Trailer Brakes	Electric

MATERIALS OF CONSTRUCTION

Impeller	CA6NM Stainless
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

