



4x3 Super Vac Assist Diesel-Driven Centrifugal Pump Trailer Package 102-2043

Pump Specifications

Make	Pioneer
Model	PP43C21
Size	4" x 3" (102 mm x 76 mm)
Impeller Diameter	21" (533 mm)
Max Flow	600 gpm (136 m ³ /h)
Max Head	575 feet (175 meters)
Max. Operating Temp.	200 °F (93 °C)
Max. Operating Press.	260 psi (1800 kPa)
Solids Size	0.75" (19 mm)

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 (126 kW)
FT4 Specifics (Def or No Def, DOC, SCR, etc.)	DOC / SCR
Safety Shut-Down Switches	Low oil pressure, high temp., v-belt failure
Instrument Panel	Oil pressure gauge, ampmeter, hourmeter, tachometer

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 Run Dry System	Swing style; ductile iron w/nitrile disc Oil-lubricated mech. seal allows pump to run completely dry without damage



Features & Benefits

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

Package Specifications

Fuel Capacity	135 U.S. gallons
Control Panel	Controls Inc. CX-Programmable Panel
Operating Speed (Min/Max)	1,000 / 2,000 rpm
Weight (Dry/Wet)	5,905 / 6,865 lbs
Instrument Compatibility	High/low level floats, transducers
Trailer Brakes	Electric
Optional Adders	NTE automation

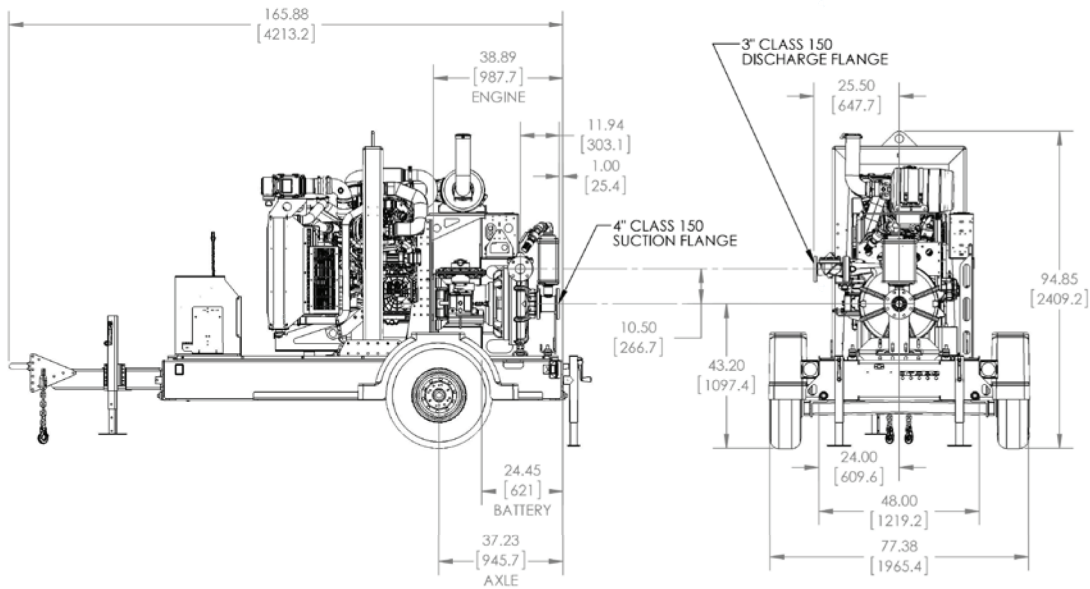
Materials of Construction

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



4x3 Super Vac Assist Diesel-Driven Centrifugal Pump Trailer Package 102-2043

Mechanical Dimensions



Performance Curve

