



6 x 4 Super Vac Assist Diesel-Driven Pump 102-2064

Pump Specifications

Make	Pioneer
Model	PP64C21
Size	6" x 4" (150 mm x 100 mm)
Impeller Diameter	21" (533.4 mm)
Impeller Type	Enclosed
Max Flow	1,500 gpm (340 m ³ /h)
Max Head	675 feet (210 meters)
Max. Operating Speed	2,000 rpm
Max. Operating Temp.	200 °F (93 °C)
Max. Operating Press.	250 psi (1,723 kPa)
Maximum Solid Size	0.88 inch (22.3 mm)

Engine Specifications

FT4 Engine Type	John Deere 6068C1550
Displacement	415 cu. in. (6.8 l)
Fuel Consumption	15.51 gph (58.7 l/h) @ 1,800 rpm
Continuous HP	275 hp (205 kW) @ 2,000 rpm
Peak Intermittent HP Rating	275 hp (205 kW)
FT4 Specifics (Def or no Def, DOC, SCR, etc.)	DOC / DPF / SCR
Safety Shut-Down Switches	Low oil pressure, high temp.
Instrument Panel	Oil pressure gauge, voltmeter, hourmeter, tachometer

Priming System

Priming System	Mechanically driven diaphragm-style vacuum pump
Air Removal Cap.	50 cfm (.02 cms)
Priming Chamber	Single chamber with positive sealing air separation PosiValve w/ stainless steel float ball & linkage
Discharge Check Valve	Swing style; ductile iron with Buna-N disc



Features & Benefits

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

Package Specifications

Fuel Capacity	275 U.S. gallons
Control Panel	Controls Inc CX - Programmable Panel
Operating Speed (Min/Max)	1,000 / 2,000 rpm
Weight (Dry)	7,820 lbs
Instrument Compatibility	High/low level floats, transducers
Trailer Brakes	Electric
Optional Adders	NTE automation

Materials of Construction

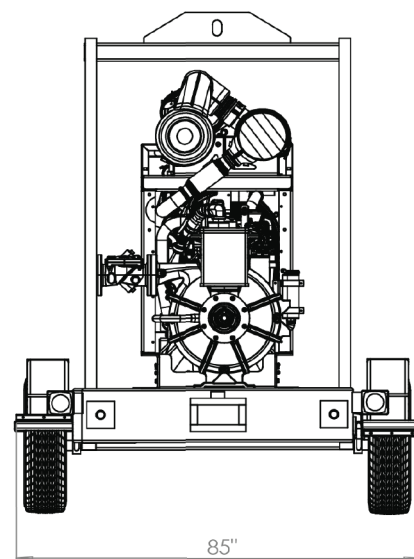
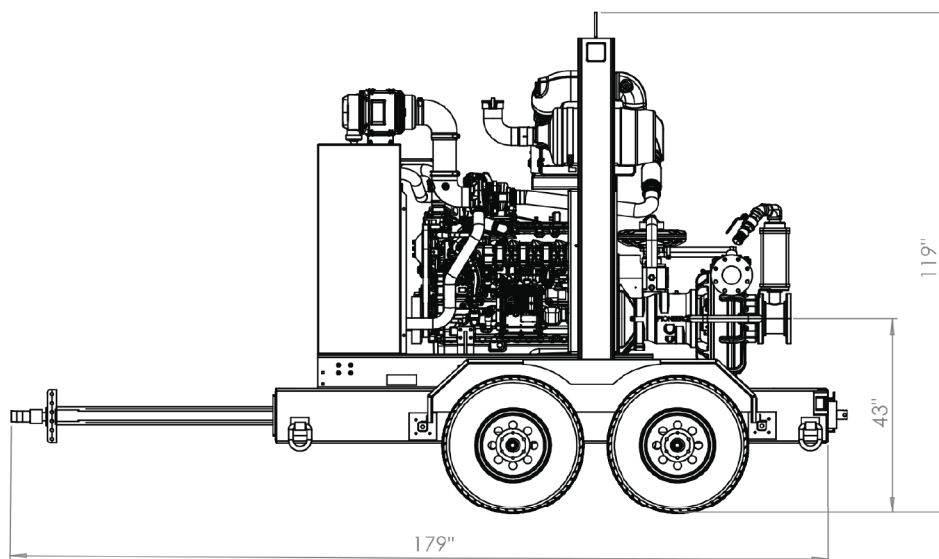
Impeller	CA6NM Stainless Steel
Shaft	17-4PH Stainless Steel
Wear Ring	ASTM A48 Class 40 Gray Iron
Suction Cover	Ductile Iron ASTM A536 65-45-12
Volute	Ductile Iron ASTM A536 65-45-12
Brac-Plate/Bracket	Ductile Iron ASTM A536 65-45-12
Mechanical Seal	Silicon Carbide rotating and Tungsten Carbide stationary



NATIONAL
TANK & EQUIPMENT

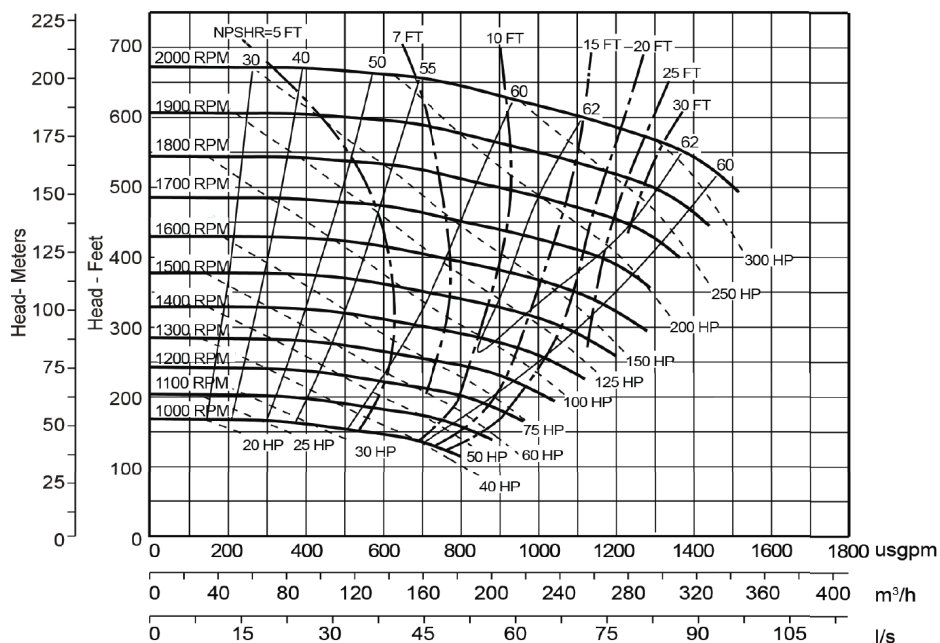
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Mechanical Dimensions



Performance Curve

Model: PP64C21	Impeller Dia: 21"	Speed: Variable	Solids Size: .88"	Curve #13571HQ
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Note: Losses from priming system not shown

NTRENTS.COM

SALES@NTRENTS.COM

888.213.7950

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