



8 x 6 Super Vac Assist Diesel-Driven Pump 102-2086

Pump Specifications

Make	Pioneer
Model	PP86C21
Size	8" x 6" (203 mm x 152.4 mm)
Impeller Diameter	21" (533.4 mm)
Impeller Type	Enclosed
Max Flow	3,610 gpm
Max Head	601 feet (183 meters)
Max. Operating Speed	1,900 rpm
Max. Operating Temp.	200 °F (93 °C)
Max. Operating Press.	260 psi
Maximum Solid Size	1.5 inch

Engine Specifications

FT4 Engine Type	John Deere 6135HFC09, 6 Cylinder
Displacement	824 cu. in. (13.5 l)
Fuel Consumption	30 gph @ 1,800 rpm
Continuous HP	528 hp (388 kW)
Peak Intermittent HP Rating	617 hp (460 kW)
FT4 Specifics (Def or No Def, DOC, SCR, etc.)	SCR
Safety Shut-Down Switches	Low oil pressure, high temp
Instrument Panel	Oil pressure gauge, ammeter, 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 type, ductile iron w/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	270 U.S. gallons
Control Panel	Controls Inc CX - Programmable Panel
Operating Speed (Min/Max)	1,200 / 1,900 rpm
Weight (Dry/Wet)	10,183 / 12,100 lbs
Instrument Compatibility	High/low level floats, transducers
Trailer Brakes	Electric
Optional Adders	NTE automation

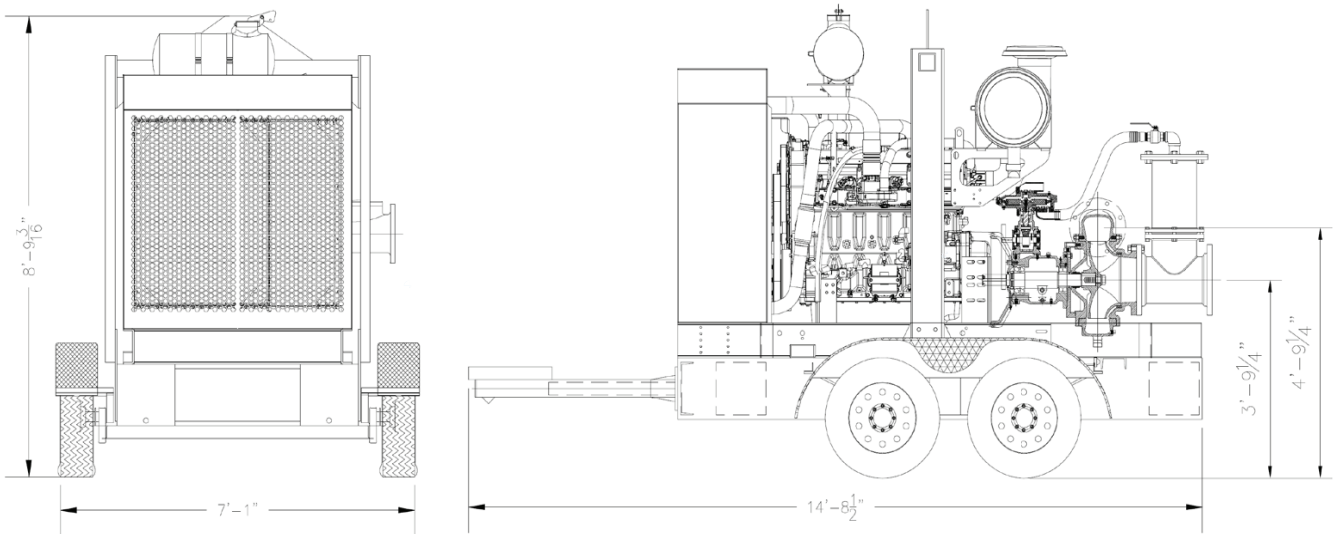
Materials of Construction

Impeller	CA6NM Stainless Steel
Shaft	17-4PH Stainless Steel
Wear Ring	ASTM A48 Class 40 Gray Iron
O-rings & Gaskets	Buna-N & Viton
Volute Casing	Ductile Iron ASTM A536 65-45-12
Mechanical Seal	Cycloseal design. Tungsten vs. Silicon Carbide seal faces, Viton elastomers, 300 series stainless steel hardware & spring, seal system designed for dry running



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Mechanical Dimensions



Performance Curve

Model: PP86C21	Impeller Dia: 21"	Speed: Variable	Solids Size: 1.5"	Curve #12860HQ
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