



Pump Specifications

Make	Pioneer
Model	88S12
Size	8" x 8" (200 mm x 200 mm)
Impeller Diameter	12.25" (311 mm)
Impeller Type	Enclosed
Max Flow	5,040 gpm
Max Head	180 feet (55 meters)
Max. Operating Speed	2,200 rpm
Max. Operating Temp.	200 °F (93 °C)
Max. Operating Press.	260 psi (1,800 kPa)
Maximum Solid Size	3 inch

Engine Specifications

FT4 Engine Type	Deutz TCD3.6L4
Displacement	221 cu. in. (3.6 l)
Fuel Consumption	5.5 gph (21 l/h) @ 1,800 rpm
Continuous HP	111 hp (83 kW) @ 1,800 rpm
Peak Intermittent	134 hp (100 kW)
HP Rating	
FT4 Specifics	DOC / SCR
Number of Cylinders	4
Safety Shut-Down	Low oil pressure, high temp
Switches	
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	Positive sealing air separation w/stainless steel components
Discharge Check Valve	Swing type, Ductile Iron, w/ Nitrile disc



Features & Benefits

Indefinite run-dry capability
Extreme flow technology
Environmentally safe priming system: Pioneer Prime
Auto-start controls

Package Specifications

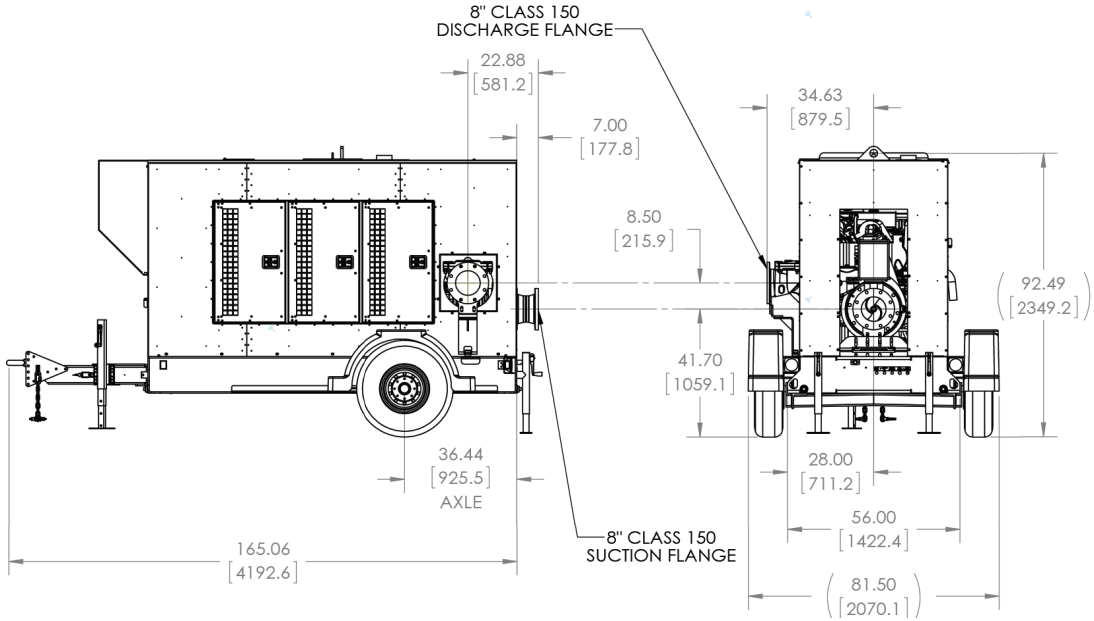
Fuel Capacity	135 U.S. gallons
Control Panel	Controls Inc CX - Programmable Panel
Operating Speed (Min/Max)	1,000 / 2,200 rpm
Weight (Dry/Wet)	5,350 / 6,307 lbs
Instrument Compatibility	High/low level floats, transducers
Trailer Brakes	Electric
Optional Adders	NTE automation

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



Mechanical Dimensions



Performance Curve

