



# 6" Super Vac Assist

## Diesel-Driven Pump

### 102-2006

## Pump Specifications

Make	Pioneer
Model	PP66S14
Size	6" x 6" (152.4 mm x 152.4 mm)
Impeller Diameter	14" (355.6 mm)
Impeller Type	Enclosed
Max Flow	3,170 gpm
Max Head	255 feet (78 meters)
Max. Operating Speed	2,000 rpm
Max. Operating Temp.	200 °F (93 °C)
Max. Operating Press.	260 psi
Maximum Solid Size	3 inch

## 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)
Peak Intermittent HP Rating	173 hp (126 kW)
FT4 Specifics (Def or No Def, DOC, SCR, etc.)	DOC
Safety Shut-Down Switches	Low oil pressure, high temp., v-belt failure
Instrument Panel	Oil pressure & temp gauge, ampmeter, hourmeter, tachometer

## Priming System

Priming System	Diesel 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	135 U.S. gallons
Control Panel	Controls Inc CX - Programmable Panel
Operating Speed (Min/Max)	1,000 / 2,000 rpm
Weight (Dry/Wet)	5,400 / 6,345 lbs
Instrument Compatibility	High/low level floats, transducers
Trailer Brakes	Electric
Optional Adders	NTE automation

## Materials of Construction

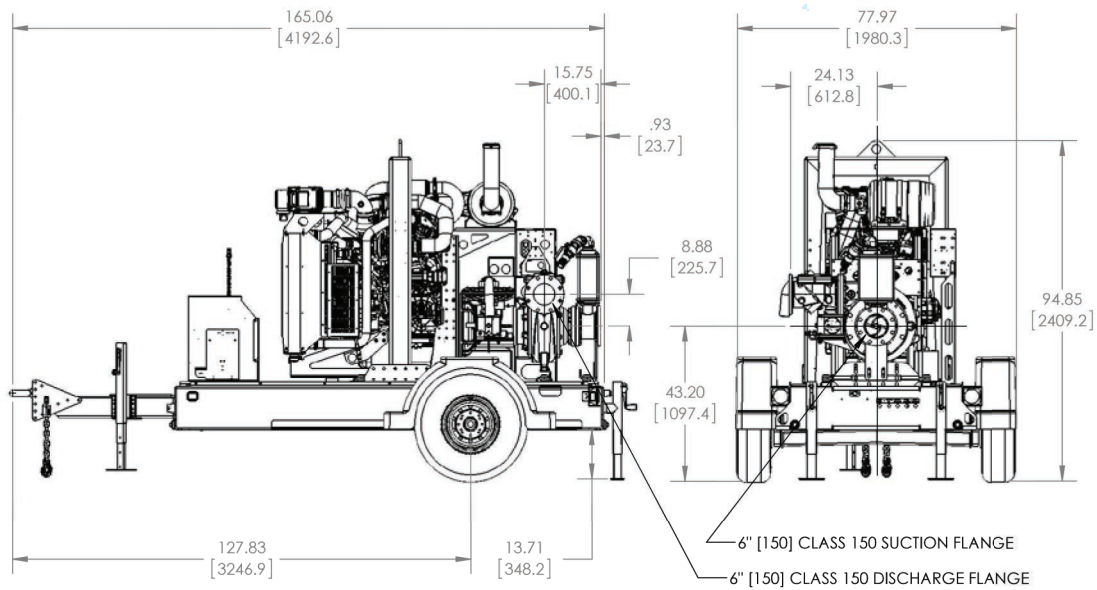
Impeller	CA6NM Stainless Steel
Shaft	17-4PH Stainless Steel
Wear Ring	ASTM A48 Class 40 Gray Iron
Suction Cover	Ductile Iron ASTM A536 65-45-12
Volute	Ductile Iron ASTM A536 65-45-12
Brac-Plate/Bracket	Ductile Iron ASTM A536 65-45-12
Mechanical Seal	Silicon Carbide rotating and Tungsten Carbide stationary



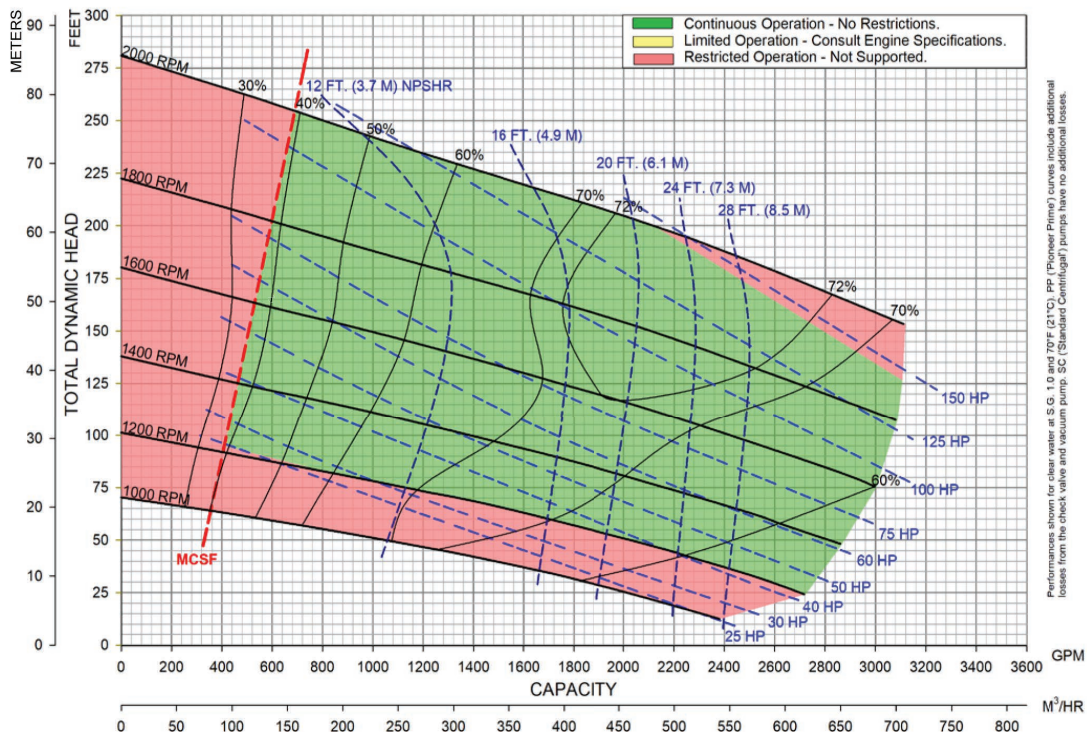
**NATIONAL**  
TANK & EQUIPMENT

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## Mechanical Dimensions



## Performance Curve



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