

8" Diesel Pump

Vacuum Assisted

Product Description

Diesel engine driven centrifugal pump equipped with vacuum-assisted priming system. Trailer mounted for easy transportation having the following additional features: Run dry mechanical seal, Auto-start control, monitoring of fuel level, engine load, run time, oil and coolant temperature, and telemetry system.

Technical Data

Operating Parameters

Min. / Max. Flow	470 gpm / 3880 gpm
Min. / Max. Shutoff Head	72 ft (31psi) / 190 ft (82psi)
Maximum Casing Pressure	260 psi
Maximum Temperature	200°F
Maximum Solid Size	3 inch
Min. / Max. Pump Speed	1200 rpm / 1950 rpm

Pump & Accessory Specifications

Suction / Discharge Size	8 inch / 8 inch
Impeller Diameter	12.25 inch
Vacuum System - Type / Capacity	Diaphragm / 50 CFM

Casing	Ductile Iron ASTM A536 65-45-12
Impeller	CA6NM Stainless Steel
Wear Ring	ASTM A48 Class 40 Gray Iron
Shaft	17-4 PH Stainless Steel
Mechanical Seal Faces	Tungsten / Silicon Carbide
Mechanical Seal Lubrication	ISO Viscosity Grade 32 or Lower <i>(synthetic recommended)</i>
O-rings & Gaskets	Buna-N & Viton
Check Valve Body	Ductile Iron
Check Valve Flapper	Buna-N
Check Valve Type	Swing type

Driver Properties

Type A

Driver Type	Diesel Engine
Driver Make	Duetz
Model	D914 L6
Max. Continuous Rating	116 hp
Total Displacement	6.5 liters
Aspiration	Naturally aspirated
Number of Cylinders	6
Safety Shutdowns	Low Oil Pressure, High Temp.
Fuel Consumption	4.3 gal/hr @ 1800 rpm
Run Time	31.4 hours @ 1800 rpm
Fuel Type	No. 2 Diesel: NO BIODIESEL
Fuel Capacity	135 U.S. gallons



Notes

- Performance data based on water at 60°F
- Run time indicated is for reference and could vary based on speed and engine loads
- Maximum temperature is the equipment material limitation. Based on the application, process, product and NPSH requirements, the maximum allowable temperature could be lower
- This pump is also available with a 20 CFM venturi-compressor priming system

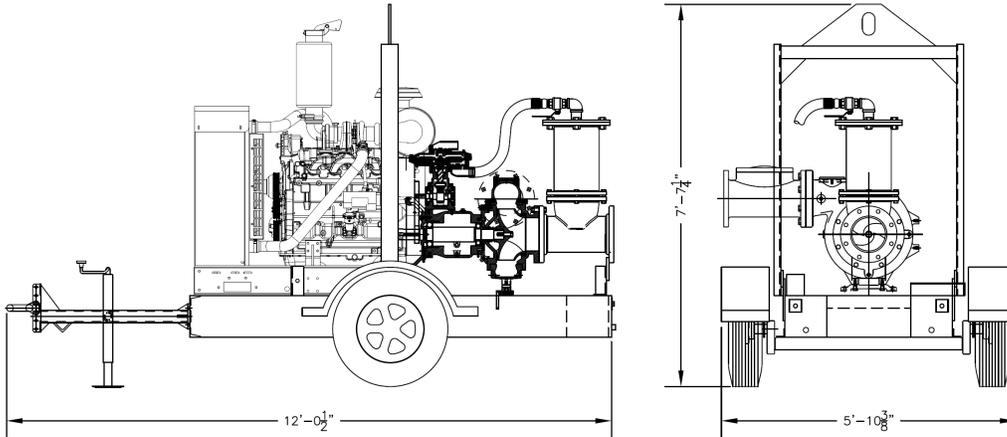
Type B

Driver Type	Diesel Engine
Driver Make	John Deere
Model	4045HF285
Max. Continuous Rating	115 hp
Total Displacement	4.5 liters
Aspiration	Turbocharged Charge-Air Cooled
Number of Cylinders	4
Safety Shutdowns	Low Oil Pressure, High Temp.
Fuel Consumption	4.8 gal/hr @ 1800 rpm
Run Time	28.2 hours @ 1800 rpm
Fuel Type	No. 2 Diesel: NO BIODIESEL
Fuel Capacity	135 U.S. gallons

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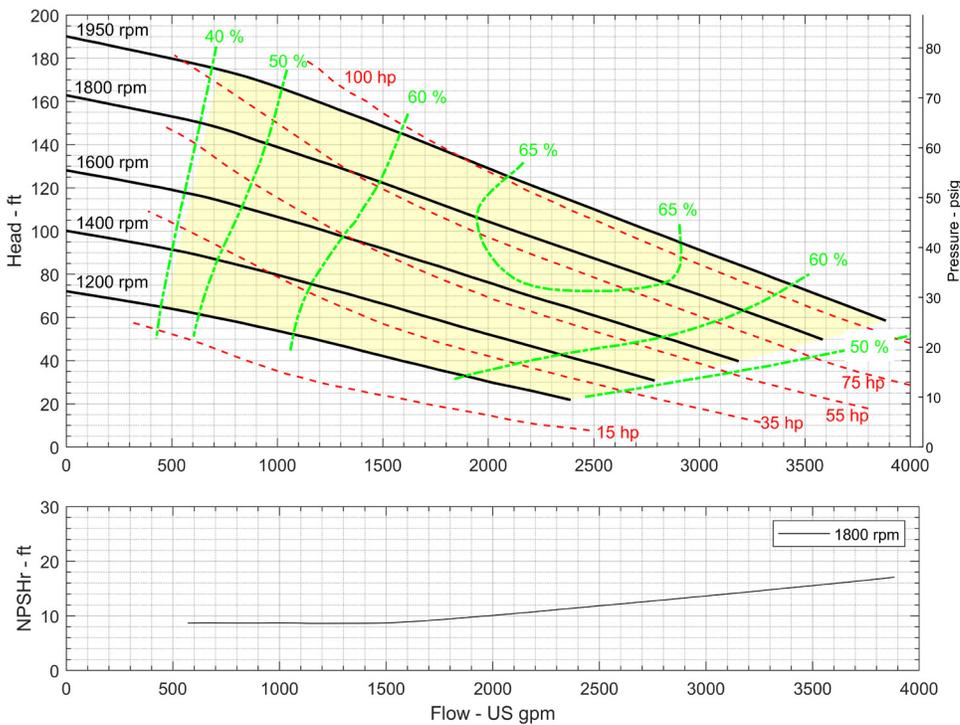
Dimensional Drawing



Dimensional Details

Total Weight wo/Fuel	4742 lbs
Total Weight w/Fuel	5700 lbs
Overall Height	91 inch
Overall Width	70 inch
Overall Length	145 inch

Performance Curve



Pump Make	Pioneer
Pump Model	PP88S12
Operating Speed	Variable
Min. Speed	1200 rpm
Max. Speed	1950 rpm
Impeller Rated Dia.	12.25 inch
Impeller Type	Enclosed
No. of Impeller Vanes	2
Solid Dia.	3 inch
Specific Speed	2855 US Units
Suction Size	8 inch
Discharge Size	8 inch



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