

# 12" Diesel Pump

## Vacuum Assisted

### Product Description

Diesel engine driven centrifugal pump equipped with vacuum-assisted priming system.

Skid mounted for added stability and higher suction lift 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	1290 gpm / 8600 gpm
Min. / Max. Shutoff Head	85 ft (37psi) / 170 ft (74psi)
Maximum Casing Pressure	260 psi
Maximum Temperature	200°F
Maximum Solid Size	3.75 inch
Min. / Max. Pump Speed	1200 rpm / 1700 rpm

#### Pump & Accessory Specifications

Suction / Discharge Size	12 inch / 12 inch
Impeller Diameter	15.81 x 16° inch
Vacuum System - Type / Capacity	Diaphragm / 50 CFM

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

#### Driver Properties

Driver Type	Diesel Engine
Driver Make	John Deere
Model	6068HF485
Max. Continuous Rating	250 hp
Total Displacement	6.8 liters
Aspiration	Turbocharged and air-to-air aftercooled
Number of Cylinders	6
Safety Shutdowns	Low Oil Pressure, High Temp.
Fuel Consumption	11.2 gal/hr @ 1700 rpm
Run Time	24.2 hours @ 1700 rpm
Fuel Type	No. 2 Diesel: <b>NO BIODIESEL</b>
Fuel Capacity	270 U.S. gallons



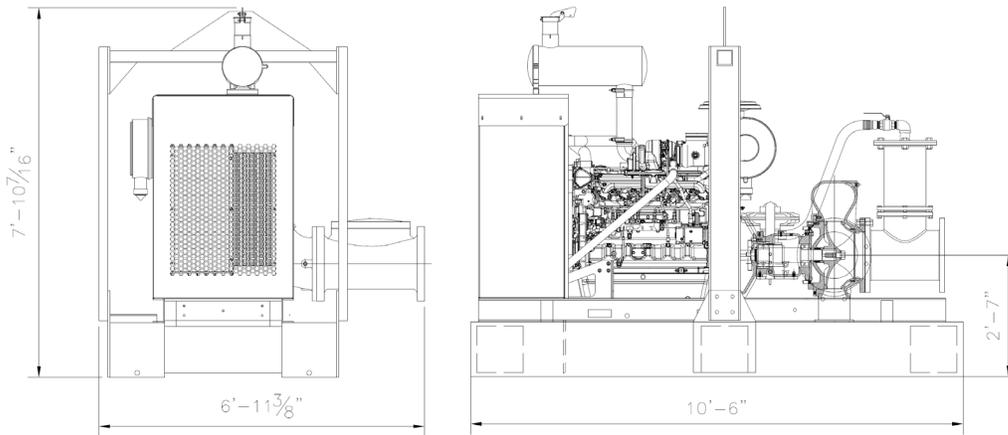
### Notes

- 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

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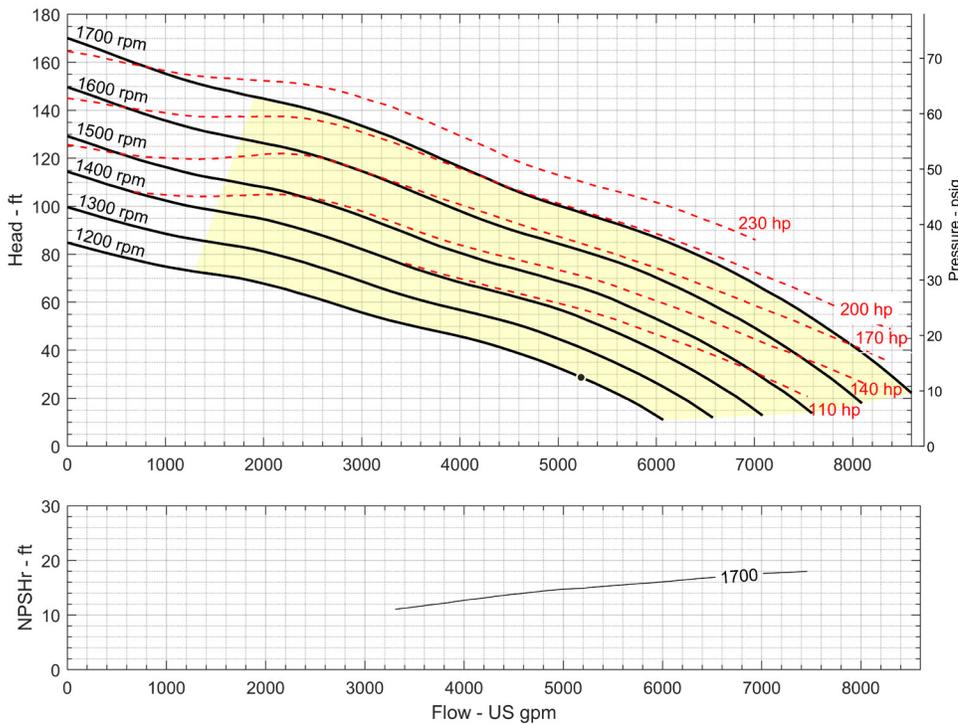
### Dimensional Drawing



### Dimensional Details

Total Weight wo/Fuel	7113 lbs
Total Weight w/Fuel	9030 lbs
Overall Height	94 inch
Overall Width	83 inch
Overall Length	126 inch

### Performance Curve



Pump Make	Pioneer
Pump Model	PP1212S17
Operating Speed	Variable
Min. Speed	1200 rpm
Max. Speed	1700 rpm
Impeller Rated Dia.	15.81 x 16° inch
Impeller Type	Enclosed
No. of Impeller Vanes	2
Solid Dia.	3.75 inch
Specific Speed	4682 US Units
Suction Size	12 inch
Discharge Size	12 inch



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