

4" 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	280 gpm / 1380 gpm
Min. / Max. Shutoff Head	57 ft (25psi) / 158 ft (68psi)
Maximum Casing Pressure	150 psi
Maximum Temperature	200°F
Maximum Solid Size	3 inch
Min. / Max. Pump Speed	1200 rpm / 2000 rpm

Pump & Accessory Specifications

Suction / Discharge Size	4 inch / 4 inch
Impeller Diameter	10.09 inch
Vacuum System - Type / Capacity	Diaphragm / 50 CFM

Casing	Cast Iron
Impeller	CA6NM Stainless Steel
Wear Ring	Cast Iron
Shaft	Stressproof 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

Driver Type	Diesel Engine
Driver Make	Cummins
Model	QSF2.8
Max. Continuous Rating	49 hp
Total Displacement	2.8 liters
Aspiration	Turbocharged Charge-Air Cooled
Number of Cylinders	4
Safety Shutdowns	Low Oil Pressure, High Temp.
Fuel Consumption	1.6 gal/hr @ 1800 rpm
Run Time	52.9 hours @ 1800 rpm
Fuel Type	No. 2 Diesel: NO BIODIESEL
Fuel Capacity	85 U.S. gallons



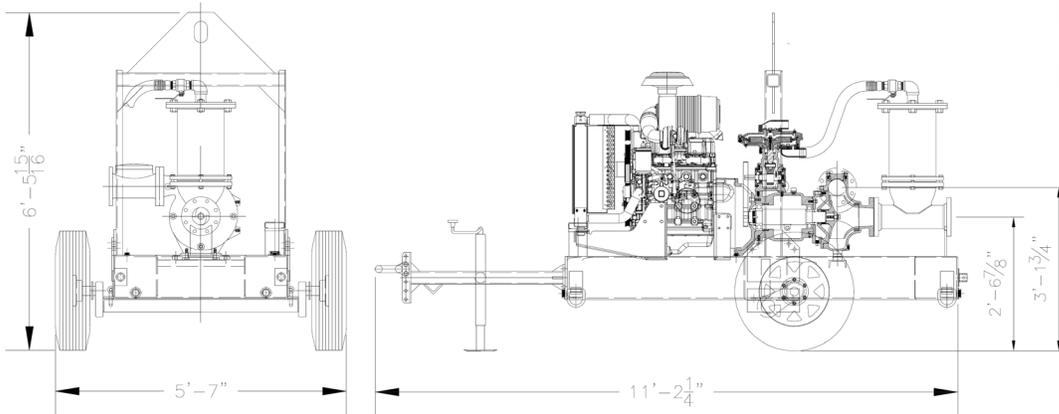
Notes

- 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

4" Diesel Pump

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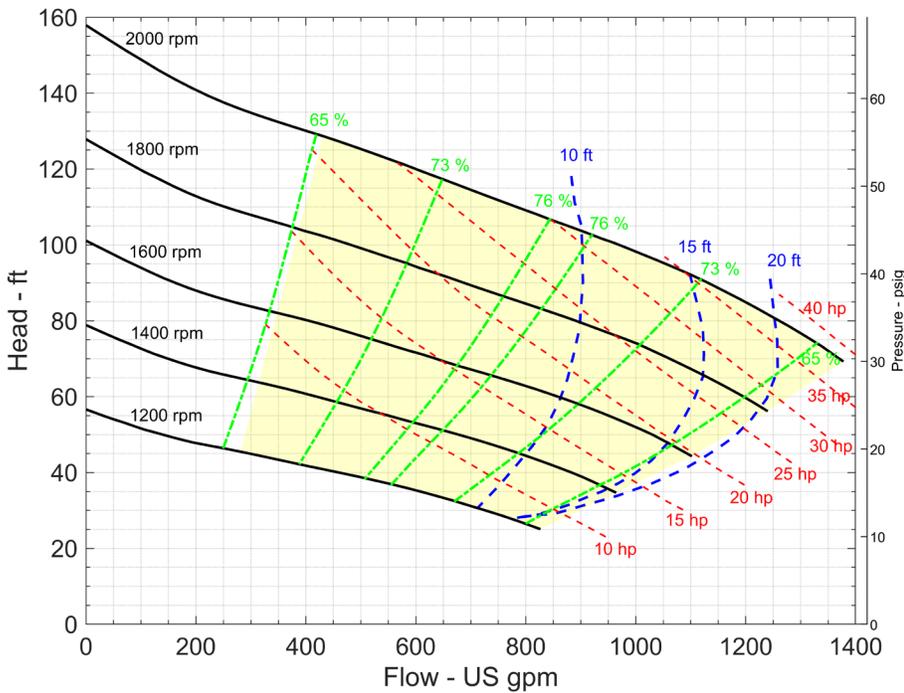
Dimensional Drawing



Dimensional Details

Total Weight wo/Fuel	2990 lbs
Total Weight w/Fuel	3593 lbs
Overall Height	78 inch
Overall Width	67 inch
Overall Length	135 inch

Performance Curve



Pump Make	Cornell
Pump Model	4NNT
Operating Speed	Variable
Min. Speed	1200 rpm
Max. Speed	2000 rpm
Impeller Rated Dia.	10.09 inch
Impeller Type	Enclosed
No. of Impeller Vanes	2
Solid Dia.	3 inch
Specific Speed	1900 US Units
Suction Size	4 inch
Discharge Size	4 inch



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