

# 12 x 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	1725 gpm / 8410 gpm
Min. / Max. Shutoff Head	201 ft (87psi) / 456 ft (197psi)
Maximum Casing Pressure	200 psi
Maximum Temperature	200°F
Maximum Solid Size	4 inch
Min. / Max. Pump Speed	1200 rpm / 1800 rpm

#### Pump & Accessory Specifications

Suction / Discharge Size	12 inch / 8 inch
Impeller Diameter	20 inch
Vacuum System - Type / Capacity	Diaphragm / 50 CFM

Casing	Ductile Iron
Impeller	CA6NM Stainless Steel
Wear Ring	Cast Iron
Shaft	4340 Alloy Steel
Mechanical Seal Faces	Tungsten-Carbide vs 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	John Deere
Model	6135HF485
Max. Continuous Rating	600 hp
Total Displacement	13.5 liters
Aspiration	Turbocharged and air-to-air aftercooled
Number of Cylinders	6
Safety Shutdowns	Low Oil Pressure, High Temp.
Fuel Consumption	29.2 gal/hr @ 1800 rpm
Run Time	10.3 hours @ 1800 rpm
Fuel Type	No. 2 Diesel: <b>NO BIODIESEL</b>
Fuel Capacity	300 U.S. gallons

#### Type B

Driver Type	Diesel Engine
Driver Make	Scania
Model	DC16
Max. Continuous Rating	650 hp
Total Displacement	16.4 liters
Aspiration	Turbocharged charge-air cooled
Number of Cylinders	8
Safety Shutdowns	Low Oil Pressure, High Temp.
Fuel Consumption	28.7 gal/hr @ 1800 rpm
Run Time	10.4 hours @ 1800 rpm
Fuel Type	No. 2 Diesel: <b>NO BIODIESEL</b>
Fuel Capacity	300 U.S. gallons



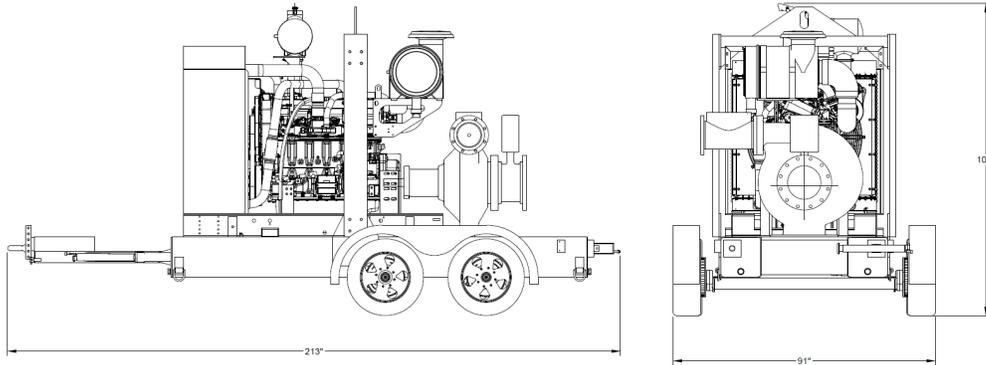
### Notes

- 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
- There are other trailer variants, so double check dimensions on the actual unit being rented.

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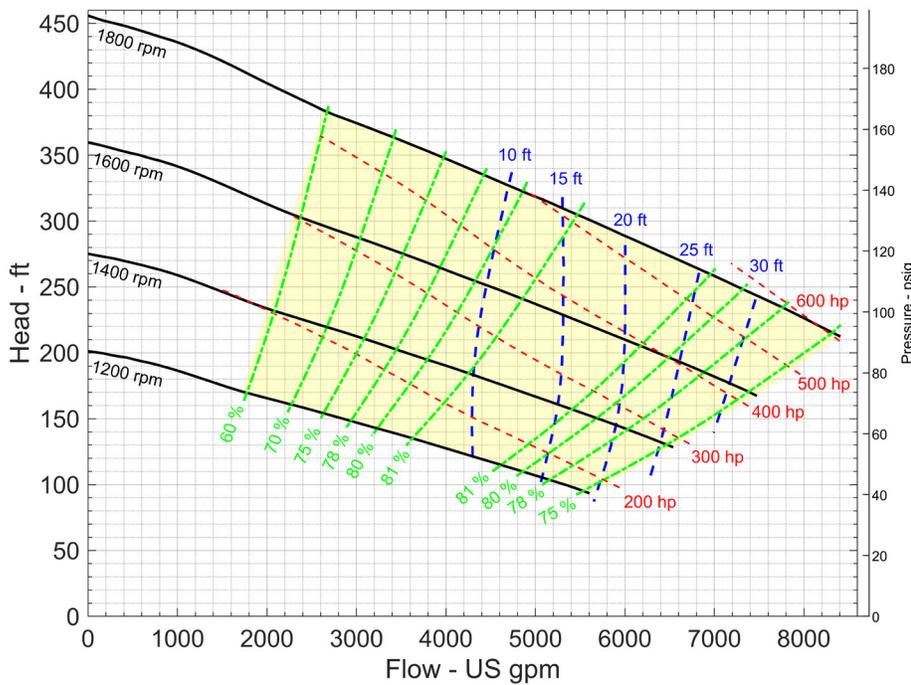
### Dimensional Drawing



### Dimensional Details

Type A	
Total Weight wo/Fuel	12420 lbs
Total Weight w/Fuel	14550 lbs
Overall Height	108 inch
Overall Width	91 inch
Overall Length	213 inch
Type B	
Total Weight wo/Fuel	12420 lbs
Total Weight w/Fuel	14550 lbs
Overall Height	115 inch
Overall Width	91 inch
Overall Length	202 inch

### Performance Curve



Pump Make	Cornell
Pump Model	8NHTH
Operating Speed	Variable
Min. Speed	1200 rpm
Max. Speed	1800 rpm
Impeller Rated Dia.	20 inch
Impeller Type	Enclosed
No. of Impeller Vanes	2
Solid Dia.	4 inch
Specific Speed	2062 US Units
Suction Size	10 inch
Discharge Size	8 inch