



12 x 8 Vac Assist Diesel-Driven Pump 100-1128

Pump Specifications

Make	Cornell
Model	8NHTH
Size	12" x 8" (304.8 mm x 203 mm)
Impeller Diameter	20" (508 mm)
Impeller Type	Enclosed
Max Flow	8,410 gpm
Max Head	456 feet (139 meters)
Max. Operating Speed	1,800 rpm
Max. Operating Temp.	200 °F (93 °C)
Max. Operating Press.	250 psi (1,723 kPa)
Maximum Solid Size	4 inch

Engine Specifications

FT4 Engine Type	John Deere 6135HFC09, 6-Cylinder
Displacement	824 cu. in. (13.5 l)
Fuel Consumption	30 gph @ 1,800 rpm
Continuous HP	528 hp (388 kW)
Peak Intermittent	617 hp (460 kW)
HP Rating	
FT4 Specifics (Def or No Def, DOC, SCR, etc.)	SCR
Safety Shut-Down Switches	Low oil pressure, high temp
Instrument Panel	Oil pressure gauge, ammeter, hourmeter, tachometer

Priming System

Priming System	Mechanically 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	300 U.S. gallons
Control Panel	Controls Inc CX - Programmable Panel
Operating Speed (Min/Max)	1,200 / 1,800 rpm
Weight (Dry/Wet)	12,420 / 14,550 lbs
Instrument Compatibility	High/low level floats, transducers
Trailer Brakes	Electric
Optional Adders	NTE automation

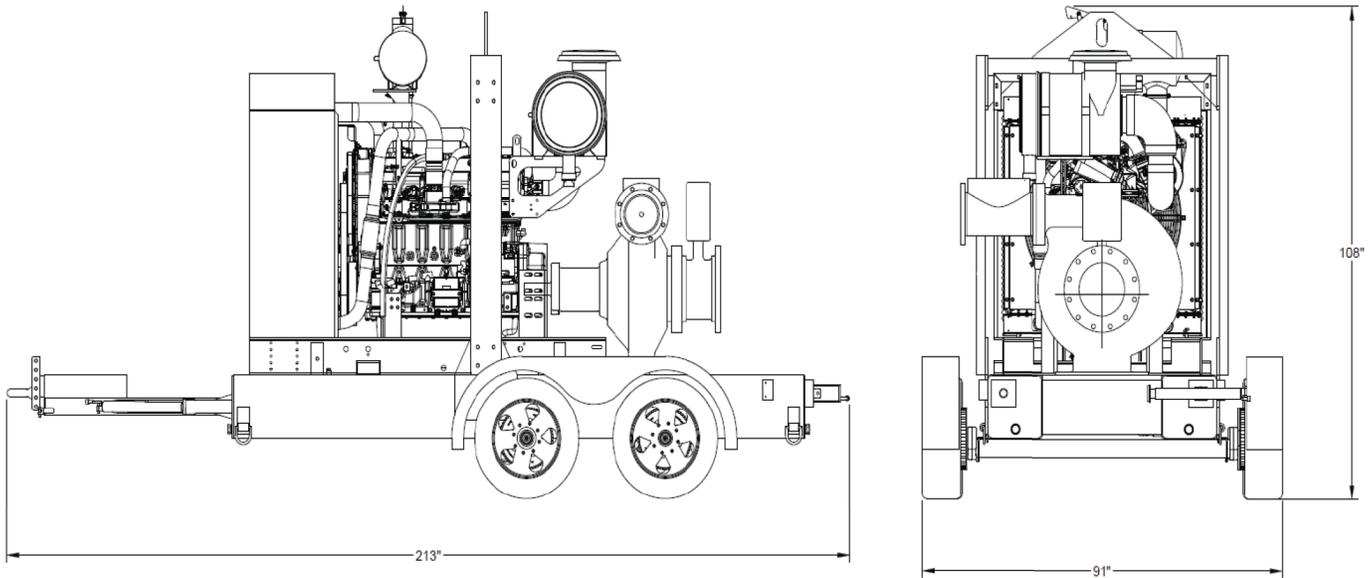
Materials of Construction

Impeller	CA6NM Stainless Steel
Shaft	4340 Alloy Steel
Wear Ring	Cast Iron
O-rings & Gaskets	Buna-N & Viton
Volute Casing	Ductile Iron
Mechanical Seal	Cycloseal design. Tungsten vs. Silicon Carbide seal faces, Viton elastomers, 300 series stainless steel hardware & spring, seal system designed for dry running



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Mechanical Dimensions



Performance Curve

