# **18<sup>III</sup> Diesel Pump** Vacuum Assisted – dBa Silencer

## **Product Description**

Diesel engine driven centrifugal pump equipped with vacuum-assisted priming system. Skid mounted for added stability and higher suction lift and enclosure for sound attenuation, 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	1530 gpm / 12410 gpm
Min. / Max. Shutoff Head	62 ft (27psi) / 177 ft (76psi)
Maximum Casing Pressure	260 psi
Maximum Temperature	200°F
Maximum Solid Size	4 inch
Min. / Max. Pump Speed	1070 rpm / 1800 rpm

#### **Pump & Accessory Specifications**

Suction / Discharge Size	18 inch / 18 inch
Impeller Diameter	17.5 inch
Vacuum System - Type / Capacity	Diaphragm / 50 CFM
Ratio - Pump Speed : Driver Speed	1 : 1.34
Casing	Ductile Iron ASTM A536 65-45-12
Impeller	CA6NM Stainless Steel
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 (synthetic recommended)
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	6090HF485
Max. Continuous Rating	315 hp
Total Displacement	9 liters
Aspiration	Turbocharged and air-to-airaftercooled
Number of Cylinders	6
Safety Shutdowns	Low Oil Pressure, High Temp.
Fuel Consumption	14.4 gal/hr @ 1800 rpm
Run Time	20.2 hours @ 1800 rpm
Fuel Type	No. 2 Diesel: NO BIODIESEL
Fuel Capacity	290 U.S. gallons
Noise Rating	70 dBa @ 30 ft



## Notes

- Performance data based on water at 60°F
- · Engine and pump speeds differ
- 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

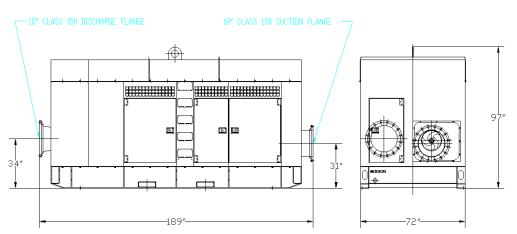


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### PP1414S17 - Data Sheet

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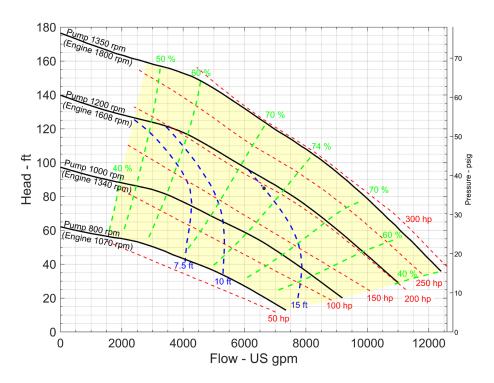
# **Dimensional Drawing**



### **Dimensional Details**

Total Weight wo/Fuel	15440 lbs
Total Weight w/Fuel	17500 lbs
Overall Height	97 inch
Overall Width	72 inch
Overall Length	189 inch

### **Performance Curve**



Pump Make	Pioneer Pump
Pump Model	PP1414S17
Operating Speed	Variable
Min. Speed	1070 rpm
Max. Speed	1800 rpm
Impeller Rated Dia.	17.5 inch
Impeller Type	Enclosed
No. of Impeller Vanes	3
Solid Dia.	4 inch
Specific Speed	5003 US Units
Suction Size	14 inch
Discharge Size	14 inch



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