



Premier Pump and Power, LLC

www.wastewaterpumps.net

SPECIFICATIONS

6"X3" SOUND ATTENUATED BOOSTER PUMP

Premier Pump Model 6x3CH6-VP-6068HF285-150-SA Vacuum Assisted, Engine Driven, Heavy Dry Prime Pump

Pump Specifications:

- Pump size: 6"X 3" AISI 150# flanges standard
- Suction Cover: ASTM A48 class 30 gray iron
- Wear Ring: ASTM A48 class 30 gray iron
- Volute Casing: ASTM A48 class 30 gray iron
- Volute Cleanout: Handhole type, ASTM A48 class 30 gray iron
- Backplate: ASTM A48 class 30 gray iron
- Bracket: ASTM A48 class 30 gray iron
- Mechanical Seal: Tungsten vs. Silicon Carbide seal faces, Viton elastomers, 300 series stainless steel hardware & spring, seal system designed for dry running
- Impeller: Enclosed type, six port, high pressure, w/.5 inch spherical solids handling capability. ASTM A48 class 30 gray iron
- Bearing Housing: ASTM A48 class 30 gray iron
- Pump-end Bearing: Single row ball – 6313-C3
- Drive-end Bearing: Single row ball – 6313-C3
- Shaft: 1144 Stressproof steel (Other metals available including: 17-4 PH corrosion resistant)
- Lip Seals: CR type, single lip: Bearings, SAE cover - Buna-N, Seal gland – Viton
- Midland 1300 series compressor. Lubricated by engine oil and cooled by engine coolant
- Separator Spool: Standard steel
- Air/Water chamber: Chamber designed to separate air and water before entering the pump case
- Venturi: Constructed of non-corrosive bronze
- Discharge check valve: Swing type, ductile iron w/Buna-N disc (Viton optional)

Optional Equipment and Materials: Stainless Steel, CD4MCU & Ductile Iron

Engine Specification:

- Model: John Deere model 6068HF285
- 200 intermittent horsepower @ 2400 RPM
- Six cylinder, four cycle, water cooled diesel engine
- Governor: Mechanical
- Lubrication: Force Feed
- Air Cleaner: Dual stage, filter element
- Fuel Tank: 150 US gallons
- Run time: Full load (1800 RPM) > 18 hours
- Starter: 12 volt electric



Standard engine features: Safety shutdown switches for low oil pressure and high temperature. Instrument panel with temperature and oil pressure gauge, ampmeter, hourmeter and tachometer. Muffler with rain cap. Engine to pump coupling: SAE3 housing with 11.5" rubber disc drive.

Standard Skid: Heavy duty fabricated steel frame. Integral fuel tank, lifting bale, lockable fuel tank, and one 1½" clean-out/drain plug

Standard Trailer: Heavy duty fabricated steel frame, integral fuel tank, fenders, lifting bail, lockable fuel cap, dual 6000# Anti-torsional axles, two (2) front adjustable leveling jacks and two (2) rear adjustable leveling jacks, one 1½" clean-out plug, fuel gauge, adjustable height tongue with easy conversion from ball hitch to Lunette eye

Trailer Options: DOT light package, work lights, special tires & wheels, dual axles, diamond plate fenders, surge brakes, lockable enclosed instrument panel, lockable enclosed engine housing, storage box, hose rack and more

Enclosure: The entire unit, including the pump and engine shall be fully enclosed in a lockable enclosure made of steel panels. A 14 gauge solid steel outer shell containing acoustical fill encapsulated in a moisture barrier shall be furnished. The enclosure shall provide access to the working parts of the engine, pump and controls without having to remove the access panels for inspection, cleaning and servicing of the aforementioned equipment. All access panels shall be hinged for easy opening and closing, and shall be lockable. Unit capable of sound levels as low as 70 DbA at 23 feet.

Specifications subject to change without notice

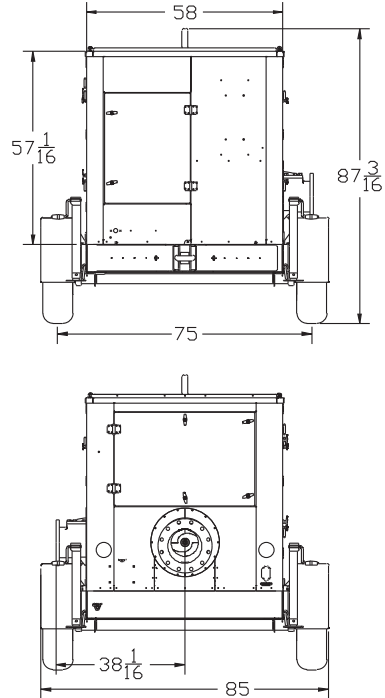
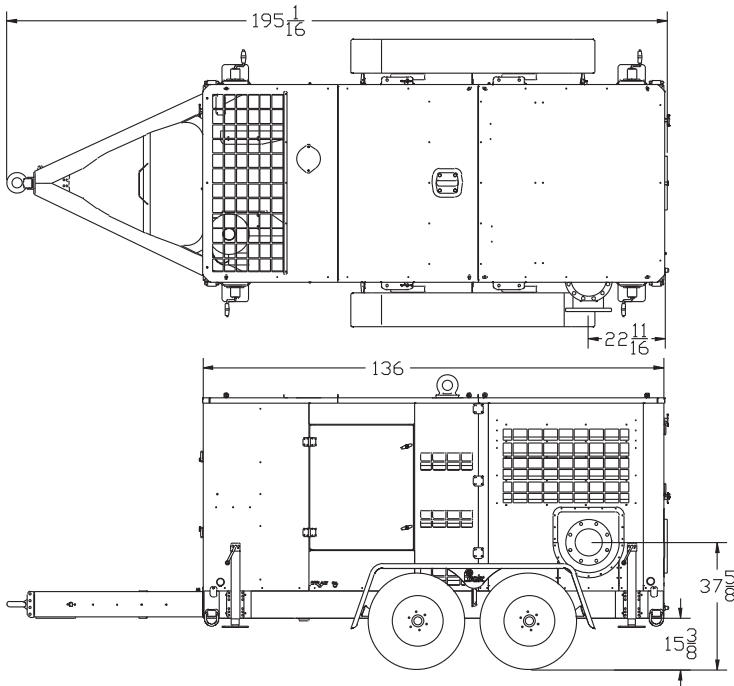
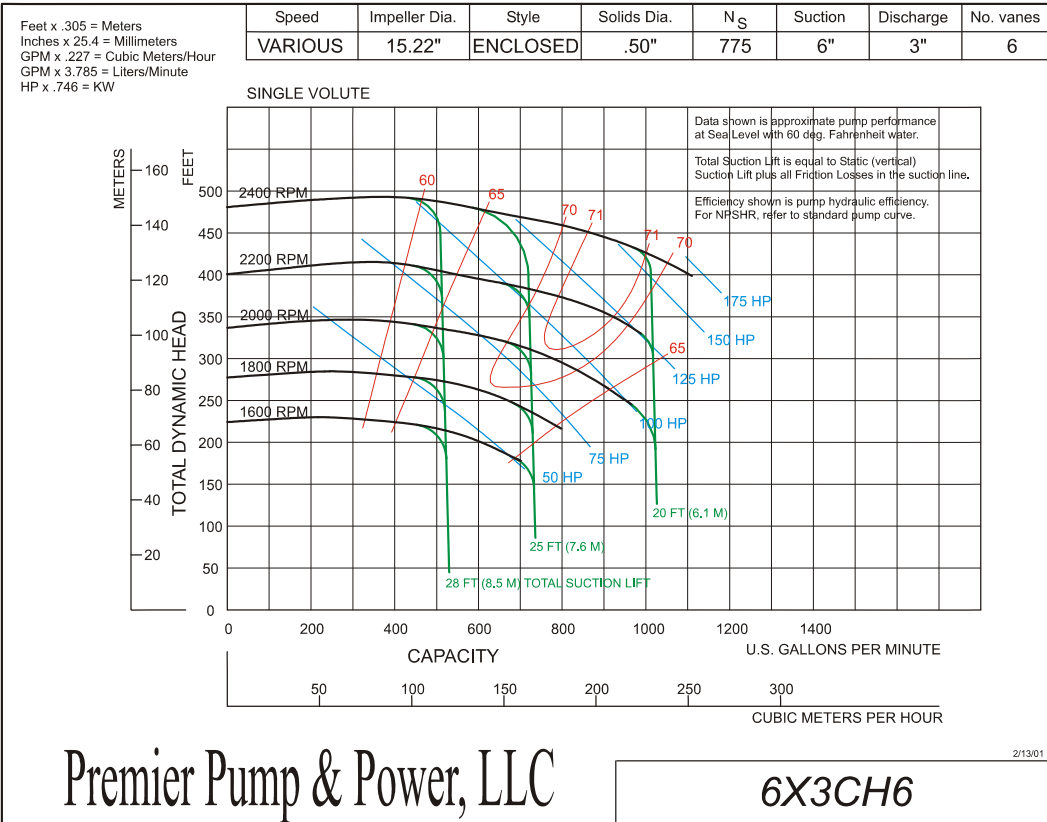
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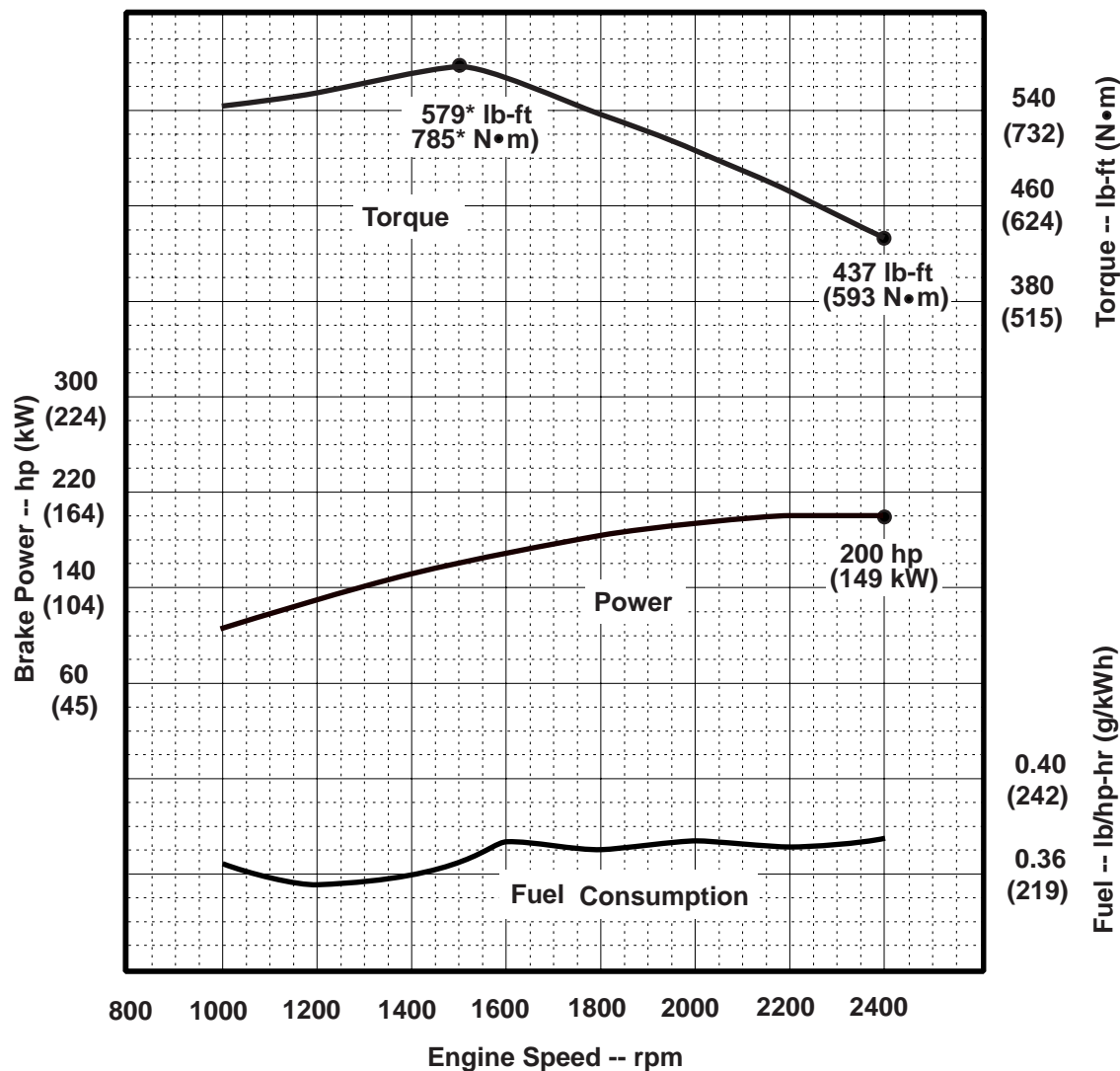
JOHN DEERE

ENGINE PERFORMANCE CURVE

Rating: Gross Power
 Application: Industrial - Intermittent
 Power Bulge - 0%
 Torque Rise - 32%

PowerTech E™ 6.8 L Engine
 Model: **6068HF285**
JD Electronic Control

200 hp @ 2400 rpm
149 kW @ 2400 rpm
 [See Option Code Table]



STANDARD CONDITIONS

Air Intake Restriction 12 in.H₂O (3 kPa)
 Exhaust Back Pressure 30 in.H₂O (7.5 kPa)

Gross power guaranteed within + or - 5% at SAE J1995 and ISO 3046 conditions:
 77 °F (25 °C) air inlet temperature
 29.31 in.Hg (99 kPa) barometer
 104 °F (40 °C) fuel inlet temperature
 0.853 fuel specific gravity @ 60 °F (15.5 °C)

Conversion factors:
 Power: kW = hp x 0.746
 Fuel: 1 gal = 7.1 lb, 1 L = 0.85 kg
 Torque: N·m = lb-ft x 1.356

All values are from currently available data and are subject to change without notice.

Notes:

Tier-3 Emission Certifications:	Certified by:
CARB; EPA; EU Ref: Engine Emission Label	<i>Brian L. Carlson</i> 2 FEB 07

* Revised Data
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Engine Installation Criteria

General Data

Model 6068HF285
 Number of Cylinders 6
 Bore and Stroke--in. (mm)..... 4.19 (106) x 5.00 (127)
 Displacement--in.³ (L)415 (6.8)
 Compression Ratio 19.0 : 1
 Valves per Cylinder--Intake/Exhaust 1 / 1
 Firing Order 1-5-3-6-2-4
 Combustion System Unit Injection
 Engine Type In-line, 4-Cycle
 Aspiration Turbocharged
 Charge Air Cooling System Air-to-Air
 Engine Crankcase Vent System Open

Physical Data

Length--in. (mm) 44.2 (1123)
 Width--in. (mm) 25.9 (657)
 Height--in. (mm) 40.8 (1036)
 Weight, dry--lb (kg) 1340 (608)
 (Includes flywheel housing, flywheel & electrics)
 Center of Gravity Location
 From Rear Face of Block(X-axis)--in.(mm) ... 14.5 (369)
 Right of Crankshaft (Y-axis)--in. (mm).....0.12 (3)
 Above Crankshaft (Z-axis)--in. (mm) 6.1 (154)
 Maximum Allowable Static Bending Moment at Rear Face
 of Flywhl Hsg w/ 5-G Load--lb-ft (N•m) 600 (814)
 Thrust Bearing Load Limit --lb (N) Forward Rearward
 Intermittent.....899 (4000).....450 (2000)
 Continuous 495 (2200).....225 (1000)
 Max. Front of Crank. Torsional Vibration--DDA..... 0.25
 Max. Continuous Damper Temp--°F (°C) 180 (82)

Electrical System

12 Volt 24 Volt

Min. Battery Capacity (CCA)--amp..... 800 570
 Max. Allow. Starting Circuit Resist.--Ohm 0.0012 0.002
 Starter Rolling Current
 At 32 °F (0 °C)--amp 920 600
 At -22 °F (-30 °C)--amp 1300 700
 Min. Voltage at ECU during Cranking--volts..... 6 10
 Maximum ECU Temperature--°F (°C) 221 (105)
 Maximum Harness Temperature--°F (°C) 248 (120)

Air System

Maximum Allowable Temp Rise--Ambient Air to
 Engine Inlet--°F (°C) 15 (8)
 Maximum Air Intake Restriction:
 Dirty Air Cleaner--in. H₂O (kPa)..... 25 (6.25)
 Clean Air Cleaner--in. H₂O (kPa)..... 15 (3.75)
 Engine Air Flow--ft³/min (m³/min) 501 (14.2)
 Air Cleaner Efficiency--% 99.9

Charge Air Cooling System

Air/Air Exch'r. Heat Rej.--Btu/min(kW) 1622 (28.5)
 Compressor Discharge Temp.(Rated)
 @ 77 °F (25°C) Ambient Air--°F (°C)..... 325 (163)
 Max. Pressure Drop, thru CAC--in.H₂O (kPa) 52 (13)
 Intake Manifold Pressure--psi (kPa) 21 (145)
 CAC Out Temp @ 77°F (25°C) Amb.--°F (°C)
 Max. 140 (60)
 Min. 118 (48)*
 CAC Out Temp @ any Ambient--°F (°C)
 Max. 190 (88)

Cooling System

Engine Heat Rejection--BTU/min (kW) 4440* (78*)
 Coolant Flow--gal/min (L/min) 55 (207)
 Thermostat Start to Open--°F (°C)..... 180 (82)
 Thermostat Fully Open--°F (°C)..... 203 (95)
 Engine Coolant Capacity--qt (L) 13 (11.9)
 Minimum Pressure Cap--psi (kPa)..... 14.5 (100)
 Maximum Top Tank Temp--°F (°C) 230 (110)
 Minimum Coolant Fill Rate--gal/min (L/min) 3 (11)
 Minimum Air-to-Boil Temperature--°F (°C)..... 117 (47)
 Minimum Pump Inlet Pressure--psi (kPa) 4.4 (30)
 Max. Radiator System Restriction--in. H₂O (kPa).... 80 (20)

Exhaust System

Exhaust Flow--ft³/min (m³/min)..... 1210 (34)
 Exhaust Temperature--°F (°C)..... 896 (480)
 Maximum Exhaust Restriction----in. H₂O (kPa) 30 (7.5)
 Max. Bend. Moment on Turbo Out.--lb-ft (N•m) 5.2 (7)
 Max. Shear on Turbo Outlet--lb (kg) 24 (11)

Fuel System

ECU Description L16 Controller
 Fuel Injection Pump Denso HP3
 Governor Type Electronic
 Total Fuel Flow--lb/hr (kg/hr) 179 (81)
 Fuel Consumption--lb/hr (kg/hr)..... 75 (34)
 Max. Fuel Inlet Temperature--°F (°C) 176 (80)
 Fuel Temp. Rise, Inlet to Return--°F (°C) 90 (50)
 Max. Fuel Inlet Restriction--in. H₂O (kPa) 80 (20)
 Max. Fuel Inlet Pressure--in. H₂O (kPa) NA (NA)
 Max. Fuel Return Pressure--in. H₂O (kPa) 80 (20)

Lubrication System

Oil Pressure at Rated Speed--psi (kPa) 54 (375)
 Oil Pressure at Low Idle--psi (kPa) 15 (105)
 Max. Oil Carryover in Blow-by--lb/hr (g/hr) 0.002 (1.0)
 Max. Airflow in Blow-by--gal/min (l/min)..... 26 (100)
 Max. Crankcase Pressure--in. H₂O (kPa)..... 2 (0.5)

Performance Data

Rated Power--hp (kW) 200 (149)
 Rated Speed--rpm 2400
 Breakaway Speed--rpm 2470
 Fast Idle Speed--rpm 2600
 Peak Torque--lb-ft (N•m)..... 579 (785)
 Peak Torque Speed--rpm 1500
 Low Idle Speed--rpm 800
 BMEP--psi (kPa)..... 159 (1096)
 Friction Power @ Rated Speed--hp (kW) 42 (31)
 Altitude Capability--ft (m) 10,000 (3048)
 Ratio--Air : Fuel 28 : 1
 Smoke @ Rated Speed--Bosch No. <1
 Noise--dB(A) @ 1 m 92.0
 Power Bulge--% 0
 Power Bulge Speed--rpm NA
 Torque Rise--% 32

Engine Speed rpm	Power hp (kW)	Torque lb-ft (N•m)	BSFC lb/hp-hr (g/kWh)
2400	200 (149)	437 (593)	0.375 (229)
2200	200 (149)	477 (647)	0.371 (226)
2000	193 (144)	506 (686)	0.374 (228)
1800	183 (137)	535 (726)	0.370 (225)
1600	172 (128)	564 (765)	0.374 (228)
1500	165 (123)	579 (785)	0.363 (221)
1400	152 (114)	572 (775)	0.360 (219)
1200	127 (95)	557 (755)	0.357 (218)
1000	103 (77)	542 (735)	0.364 (222)

All values at rated speed and power with standard options unless otherwise noted.

* Revised Data
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