

W165-H Triplex Pump Unit #203



Equipment Specifications

General Configuration

Engine	6068HF285 John Deere
Fuel Type	Diesel
Pump Type	Triplex
Max Power	165

Dimensions and Weight

Length	20 ft (6.10 meters)
Width	9 ft (2.74 meters)
Height	9 ft (2.74 meters)
Weight	16,000 lbs

Sound Rating

Distance	At 50% (1250 RPM)	At 100% (1800) RPM
In Building	96.1 dB(A)	105.3 dB(A)
1.2 m (4 feet)	76.1 dB(A)	81.5 dB(A)
7.5 m (25 feet)	66.3 dB(A)	72.3 dB(A)
15.2 m (50feet)	61.2 dB(A)	69.8 dB(A)



Tested in accordance with SAE J1074 FEB2000.
Sound levels are for guidance only.

Flow Rates

Belt Ratio 4.24:1 Unit #203
Plunger Size 1.625 165 HP Diesel, Belt Drive
Sheave Size Motor 8.5"
Sheave Size Pump 36"

Engine Speed (RPM)	Pump Speed (RPM)	Flow Rate, M3/day
1800	425	311
1700	401	294
1600	377	277
1500	354	259
1400	330	242
1300	307	225
1200	283	207
1100	259	190
1000	236	173
900	212	156
800	189	138
700	165	121

Shutdowns

- Hi/Low discharge
- ESD
- Low suction
- Vibration
- Air kill
- Power end oil high/low
- 2" Baird bypass valve
- Standard engine kills

Fuel Consumption

50% load in gallons/hour	6.73
75% load in gallons/hour	10.2
100% load in gallons/hour	13.2

Standard Features

- 6.8L John Deere diesel Engine
- W165-H Triplex pump
- Insulated steel building
- Equipped with heater and lights
- Belt driven
- Set up for H2S service
- Discharge piping 2" 2500 RTJ
- Suction piping 3" 300 RF
- Pulsation dampener
- 24v system (two 12v batteries)
- Fuel lines included
- Maximum flow rate 311 m3/day
- Discharge piping complete with MC-III flow meter
- Suction strainer on inlet piping
- Built in tool box
- Removable catch tank

Engine Specifications

General Information

Engine type	6068HF285 John Deere
Fuel type	Diesel
Maximum HP	173 @ 1800 rpm
Warranty	2000 hours

Equipped With

Radiator kit mounted back to engine	Electronic, variable speed governor
Factory supplied two stage air cleaner	RockFord triple plate clutch for triplex side loads
Cowl critical silencer	5" positive air shutdown valve manual cable operated
Factory supplied radiator, pre-serviced with antifreeze and conditioner	Industrial grade silencer c/w clamps and rain cap
Fan shroud and finger guard	Oil drain valve
Blower fan	Owners manual
Battery cables	Fuel transfer and priming pump

Engine Controller Equipped With

Oil pressure gauge c/w safety shutdowns	Tachometer
Coolant temperature gauge c/w safety shutdowns	Hourmeter
Key start switch	Throttle rocker switch



Pump Specifications

General Information

Pump type	Triplex
Pump weight	4,000 lbs
Oil capacity	8 gal
Mechanical efficiency	90%

Operational Statistics

Maximum rated power	165
Maximum discharge	5,000 psi
Maximum rated speed	400 RPM
Minimum rated speed	100 RPM
Stroke length	5.00 IN

W165-H Triplex Plunger Pump Includes

- 1.625" Tungsten carbide coated plungers.
- 955 Nickel aluminum bronze fluid end.
- Nickel aluminum bronze stuffing box.
- Braided kevlar packing.
- Coorstek pulsation dampener.
- Status Flow suction dampener.
- Three feed plunger lubrication system.



Discharge Piping Specifications

Description	PD Pump HP Discharge
Design Code	CSA B51, B31.3, & IRP 4
Fluid Category	Normal
M.A.W.P.	5000 psi
M.D.M.T.	-20 F
Design Temperature	200 F
NACE MR0175/ISO 15156	YES
Material Specification	
Pipe Specifications	NA
Pipe Schedule	2" - XXH
Corrosion Allowance	.0625
Hydro Test Pressure	7500 psi
NDE	
RT	YES, 100% Severe Cyclic
MT	YES, All Fillet Welds
UT	
VT	
P.W.H.T.	YES
Additional Requirements	All butt weld fittings to be used. Full documentation package required, to include Material, Welder Heat and NDE map . Each spool to be stamped with unique ID traceable to a QC document. This document to be included in QC paperwork. Finished QC package to be e-mailed to steve.dojahn@ca.weatherford.com



Suction Piping Specifications

Description	PD Pump Suction	
Design Code	CSA B51, B31.3, & IRP 4	
Fluid Category	Normal	
M.A.W.P.	675 psi	
M.D.M.T.	-20 F	
Design Temperature	200 F	
NACE MR0175 /ISO 15156	YES	
Material Specification		
Pipe Specifications	NA	
Pipe Schedule	3" and 6" STD	
Corrosion Allowance	.125	
	Hydro Test Pressure	1202 psi
NDE		
RT	YES, 100% Severe Cyclic	
MT	YES, All Fillet Welds	
UT		
VT		
P.W.H.T.	YES	
Additional Requirements	All butt weld fittings to be used. Full documentation package required, to include Material, Welder Heat and NDE map . Each spool to be stamped with unique ID traceable to a QC document. This document to be included in QC paperwork. Finished QC package to be e-mailed to steve.dojahn@ca.weatherford.com	

