

INJECTION PUMP
UNIT: PUM005
PERFORMANCE

Maximum Operating Pressure	3,232 psi (22.3 MPa)
Maximum Flow Rate	1951 m ³ /day

SUCTION PIPING

Maximum Allowable Working Pressure	285 psi (1965 kPa)
Size	8" (219.1 mm)
Connection	CL150 RF

DISCHARGE PIPING

Maximum Allowable Working Pressure	5,000 psi (34.5 MPa)
Size	4" (114.3 mm)
Connection	CL2500 RTJ

INJECTION DRIVE

Model	CAT 3412 C Series
Horse Power	750 HP
Maximum RPM	1800 RPM
Fuel Type	Diesel
Starter Type	Air

PUMP

Make	Gardner Denver
Model	PZH (PZ-8)
Plungers	3
Installed Plunger Diameter	5.5"
Maximum Input	750 HP (559 kW)
Maximum RPM	145 RPM
Stroke Length	8" (203 mm)

POWER REQUIREMENTS

Building Total	42 kW
Main Disconnect	200 A
Voltage Input	208 V
Phase	3Ø

Approximate Power Requirements



SOUND RATING

Distance	@50%	@100%
In Building	Field Verify dB(A)	Field Verify dB(A)
m (ft)	Field Verify dB(A)	Field Verify dB(A)
m (ft)	Field Verify dB(A)	Field Verify dB(A)
m (ft)	Field Verify dB(A)	Field Verify dB(A)

Sound ratings will be field verified

CERTIFICATION

Drive	Class 1 Zone 2
Pump	API
Piping	ASME B31.3
Electrical	Built to CSA

FUEL CONSUMPTION

50% Load	84.9 L/hr
75% Load	124.3 L/hr
100% Load	159.8 L/hr

Approximate: Will vary based on site conditions

SHIPPING DIMENSIONS

Width	12' 3" (3.74 m)
Length	34' 3" (10.44 m)
Height	11' 2" (3.4 m)
Weight Estimate	69,454 lbs (31,570 kg)

EMISSIONS

NOx	8.92 g/hp-hr
CO	0.66 g/hp-hr

SHUTDOWNS

Positive Air Shut Down
LEL Shutdown
Over Speed Shutdown

FEATURES

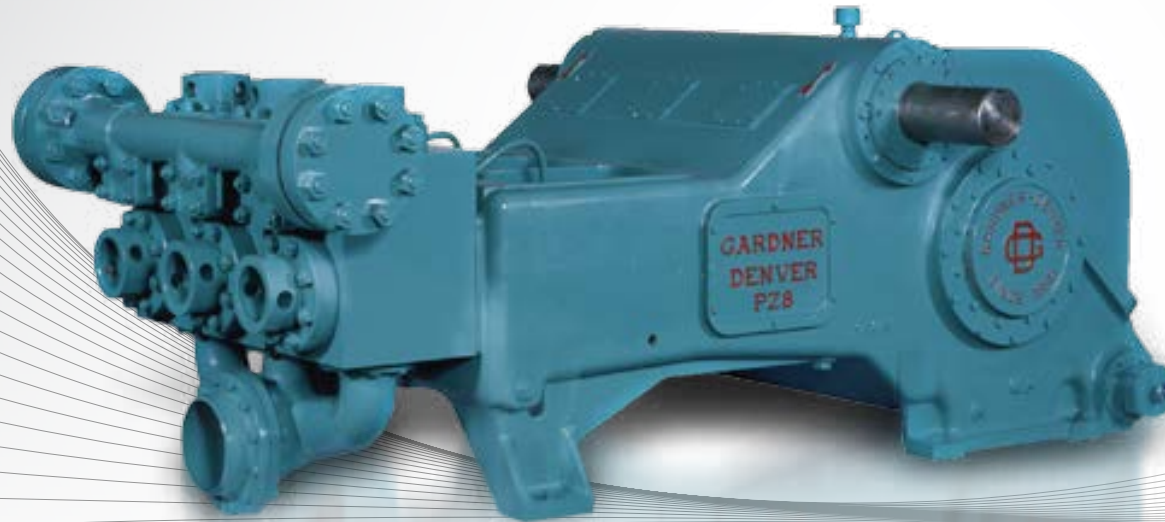
2-15kW Roughneck Heaters	Air Compressor
Interior Building Lights	Inlet Strainer
Pressure Relief Valve	



SHEAVE

Ratio	40:1
Output RPM	85 RPM
Input Size	
Output Size	

PZH (PZ-8) Triplex Drilling Mud Pump



SPECIFICATIONS

Maximum Input	750 BHP (559 kw)
Maximum RPM	145 RPM
Stroke Length	8" (203 mm)
Piston Load	76,800 (341,623 N)
Pump Weight	19,500 lbs. (8,850 kg)
Gear Ratio	4.5:1

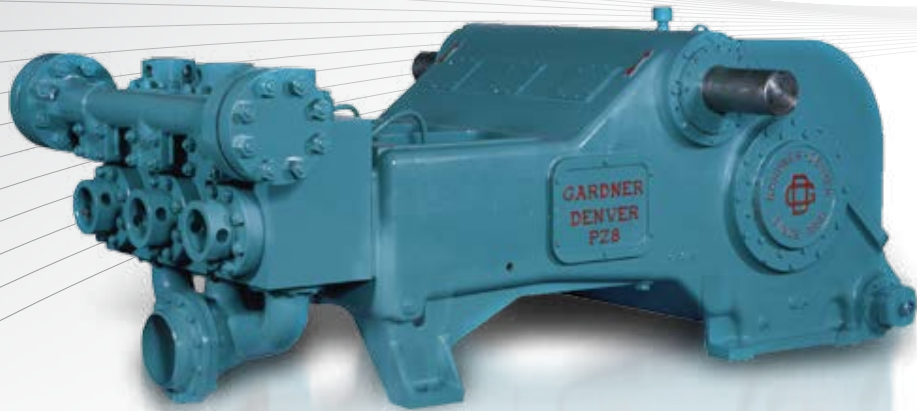
PISTON CYLINDER		DISPLACEMENT – DRILLING SERVICE				MAXIMUM PSI		PUMP RPM	JACKSHAFT RPM
DIAMETER		PER REVOLUTION		MAXIMUM FLOW RATE		PSI	bar		
inch	mm	gallon	liters	GPM	LPM	PSI	bar		
7	178	4.00	15.14	580	2195	1996	138	145	653
6.5	165	3.45	13.05	500	1892	2314	160		
6.25	159	3.19	12.07	462	1750	2503	173		
6	152	2.94	11.12	426	1612	2716	187		
5.5	140	2.47	9.34	358	1355	3232	223		
5	127	2.04	7.72	296	1120	3911	270		
4.5	114	1.65	6.25	240	907	4829	333		
4	102	1.31	4.94	189	717	5000	345		

Weight: Complete pump with large steel skid - 22,500 pounds.

Ratings are based on 90% mechanical efficiency and 100% volumetric efficiency.

**Gardner
Denver**
Pumping Perfected.™

PZH (PZ-8) Triplex Drilling Mud Pump



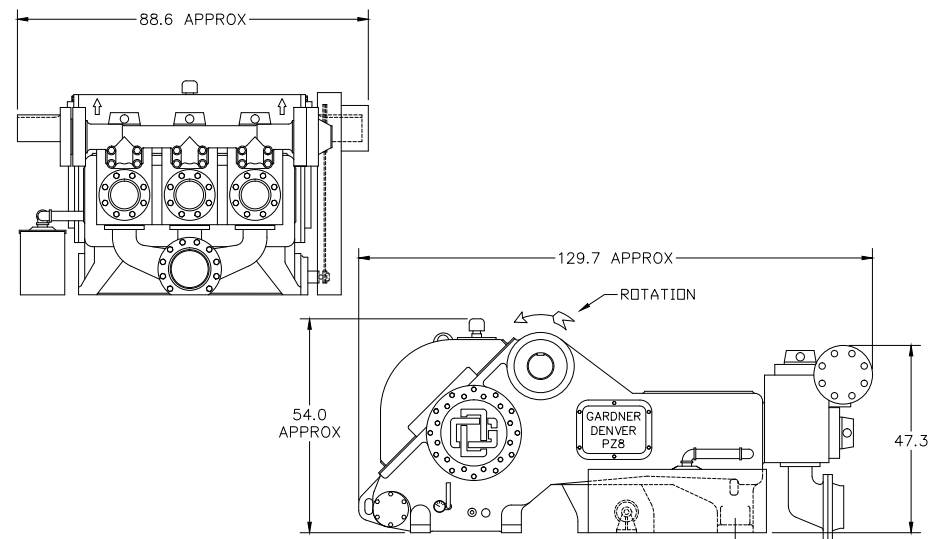
STANDARD FEATURES

- Nodular iron power framer, eccentric, connecting rods, and crossheads
- Double-row-spherical roller bearings carry eccentric
- Double extended Jackshift carried on heavy-duty straight roller bearings
- Dual roller bearing connecting rod
- Heat-treated alloy steel, interchangeable fluid cylinders
- Three-rib API-7 urethane insert valves and seats
- Replaceable-type element oil filter and oil pressure gauge
- Threaded valve covers
- Complete piston washing and lubrication system

OPTIONAL FEATURES

- Steel skid under pump only
- Large steel skid with non-skid decking
- Centrifugal suction charging pump
- Rubber valve inserts
- Full open valves
- Suction and/or discharge dampeners
- Oil heat exchanger
- External electric powered lube pump
- Fabricated suction manifold
- Custom packaging available

SPECIFICATIONS



CONNECT WITH US: