



PIONEER PUMP

PERFORMANCE THROUGH INNOVATION™

Specification Sheet for Model P4097L72-D914L03

Self Priming - Vacuum Assisted
Diesel Driven, Standard Centrifugal
Pump Package

Features

- Excellent NPSHr
- Large Solids Handling
- High Efficiency Design
- Superior Re-Prime Capability
- Unmanned Operation
- Superior Lift Capability
- Heavy Duty Construction
- 17-4 Stainless Steel Shaft
- Cartridge Seal Assembly
- 24 Hour Run Time

Pump Specifications

Size	4" x 4" Class 150 ANSI Flanges
Volute Casing	ASTM A536 Grade 65 45 12 Ductile Iron
Max Operating Pressure	150 PSI (10.3 BAR)
Wear Plate	A36 Steel Mild
Seal Housing	ASTM A48 Class 30/35 Gray Iron
Removable Cover Plate	ASTM A48 Class 30/35 Gray Iron
Mechanical Seal	Single Type Seal w/ Tungsten Carbide vs. Silicon Carbide Seal Faces, Viton Elastomers, 300 Series Stainless Steel Hardware and Spring Seal System
Impeller	Semi-Open Type Non-Clog Impeller w/3.0" Spherical Solids Handling Capability – ASTM A536 Grade 65 45 12 Ductile Iron
Bearing Housing	ASTM A48 Class 30/35 Gray Iron
Pump End Bearing	Open Single Ball
Drive End Bearing	Open Double Ball
Shaft	17-4 PH Corrosion Resistant Stainless Steel
Pressure Relief Valve	Adjustable/Brass
O-Rings	Viton
Lubrication	Oil (Grease Optional)
Optional Materials	Consult Factory



Typical Package Configuration

Engine Specifications

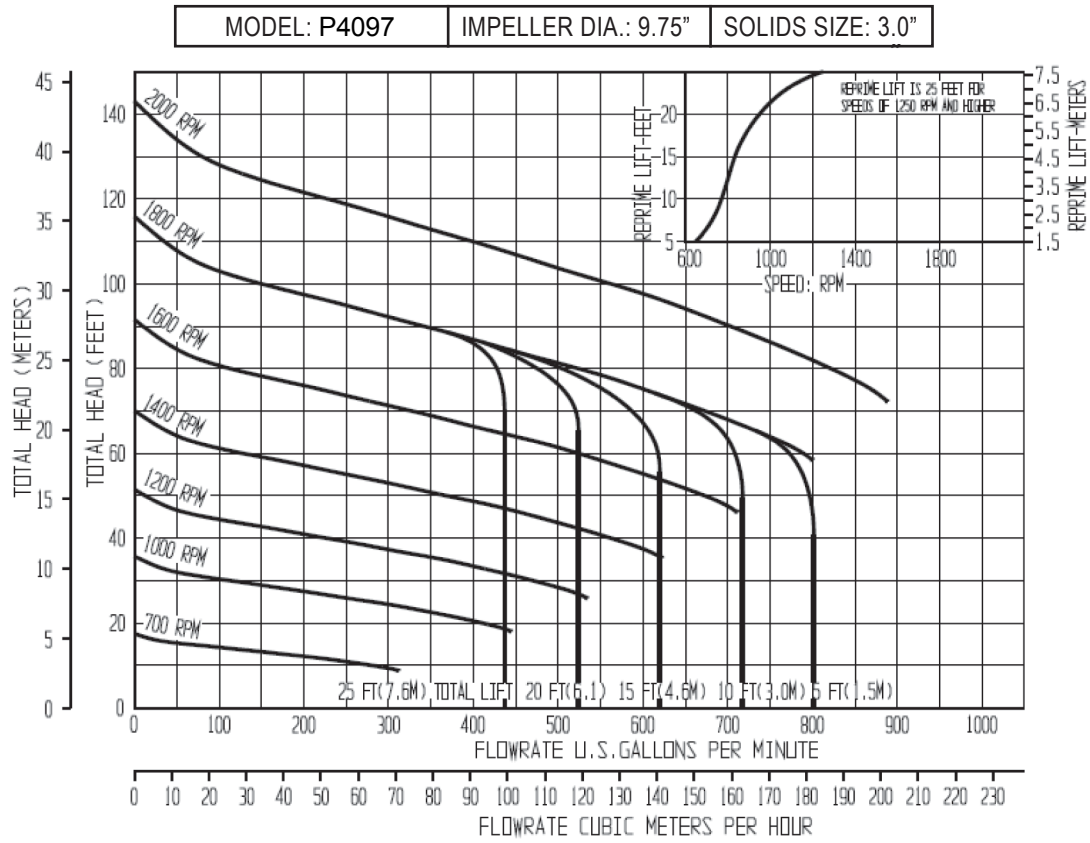
Engine Type	Deutz, Three Cylinder, Four Cycle, Air Cooled Diesel
Displacement	197.4 Cu. In. (3.24 L)
Fuel Tank, Typical	60 US Gallons (228 L)
Fuel Consumption	2.33 GPH (8.82 L/H) at 1,800 RPM (Full Load)
Continuous Horsepower	43 HP at 1,800 RPM
Operating Time	31.9 Hours (Full Load)
Safety Shut Down Switches	Low Oil Pressure, High Temperature and V-Belt Failure
Instrument Panel	Oil Pressure Gauge, Ampmeter, Hourmeter, and Tachometer

Self Priming

Pioneer self-priming pumps are designed for reliable solids and clear liquids handling. After initial priming, they continue to reprime automatically.

Durable materials	Standard heavy-wall ductile iron volute and 17-4 PH stainless steel shaft for durability
Peak performance	External shimless impeller adjustment; easily adjust the tolerance between the impeller and wearplate.
Seals	Cartridge type tungsten vs. silicon carbide mechanical seal for ease of maintenance and simple installation.

Performance Curve



Mechanical Drawing

P4097L72-D914L03

Trailer Package - Typical Weights

Dry Weight 2,300 lbs

Full Weight 2,729 lbs

