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Section: 50-40

4 July 07

12" Rotary Pump  
Model W12R - P1104C44  
Size 12" Rotary Pump

Holland® Pump Company  
Corporate Office: 2610 Sidney Lanier Drive  
Brunswick, Georgia 31525  
Phone 912-466-0304  
1-888-997-PUMP  
www.hollandpump.com

## PUMP SPECIFICATIONS

**Size:** 12" Rotary Pump

**Pump:** LobeStar RL531, Class 30 gray cast iron casing and smooth end cover

**Rated Capacities:** 2656 GPM (355 CFM) @ 500 RPM

**Displacement:** 531 US gallons per 100 revolutions

**Working Pressure:** to 87 psi

**Flange Connections:** 10" Flat Face ANSI, 150 lbs.

Flange connections included

**Rated Speed:** 0 - 500 RPM. Consult factory for recommended operating speeds

**Rotors in:** Helix three wing rotors, NBR standard, other materials available on request

**Wet-Ends:** Standard in Gray Cast Iron

**Solids Passing:** to 2.5" Solids

**Shaft Material:** Alloy Steel, AISI 4140

**Rear Door:** Contains 2 bearings and two mechanical seals to prevent shaft deflection. The door is readily removable for changing lobes, mechanical seal cartridges and wear plate.

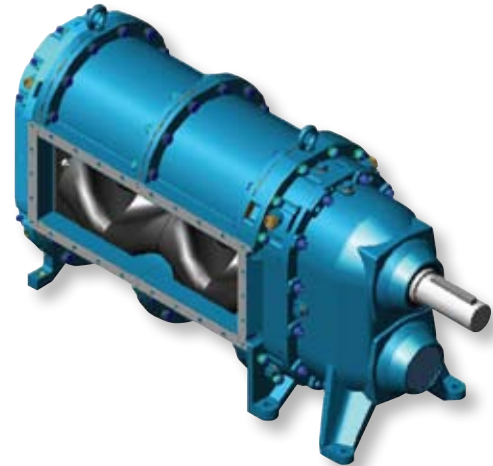
**Gear Material:** AGMA Class 8, SAE 1045

**Mechanical Seals:** 4 Duronit vs. Duronit cartridge seal

**Vibration:** Pumps and motors operate at any point within their operating range without undue noise and vibration

**Top and Bottom Housing Segments:** ASTM A48 Class 30 gray cast iron coated with ceramic epoxy for wear resistance; options include Ryton® and Tungsten Carbide. Segments adjustable based on wear.

**Optional Equipment:** Site or DOT highway trailer, automatic oiler system to add engine makeup oil as required with low oil shutdown, Holland Automatic Notification System (HANS) with low vacuum shutdown system (LOV), automatic remote start and stop controller



## GEAR SPECIFICATIONS

PTO Gear reduction 3.66 to 1

## ENGINE SPECIFICATIONS

**Model:** Perkins 1100 Series 1104C-44

**Type:** 4 Cylinder, 4 Stroke, Naturally Aspirated, Liquid Cooled, Diesel Engine

**Displacement:** 4.4L (268 cu. in.)

**Governor:** Mechanical

**Lubrications:** Forced Circulation

**Air Cleaner:** Dry Type with Replaceable Element

**Oil Reservoir:** 8.3 Quart Capacity

**Fuel Tank:** Integral 114 U.S. Gallon Capacity (#2 Diesel Fuel)

**Full Load Operating Time:** 60 Hours Minimum

**Starter:** 12 Volt 3.0 kW

**Standard Features:** SAE 10" Flywheel and SAE 3 Flywheel Housing, Ecoplus Oil and Fuel Filters, Glow Plug Starting Aid, Safety Shutdown System Covering: Engine and Pump Temperature, Engine Oil Pressure

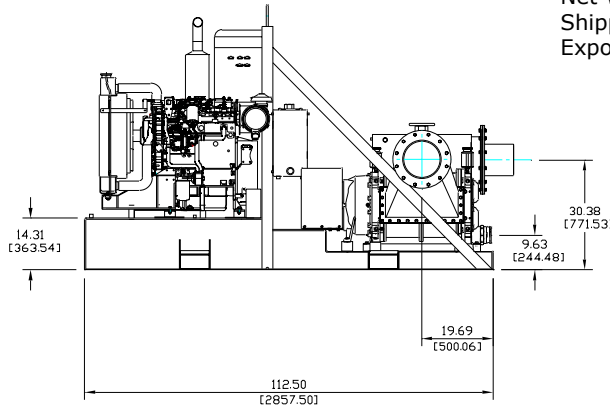
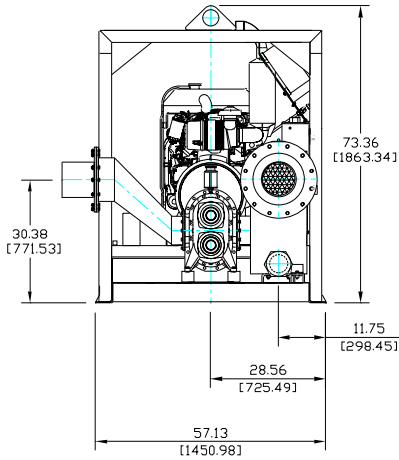
**Perkins Published Performance:** Power: 62 BHP (46kW) Continuous @ 1800 RPM



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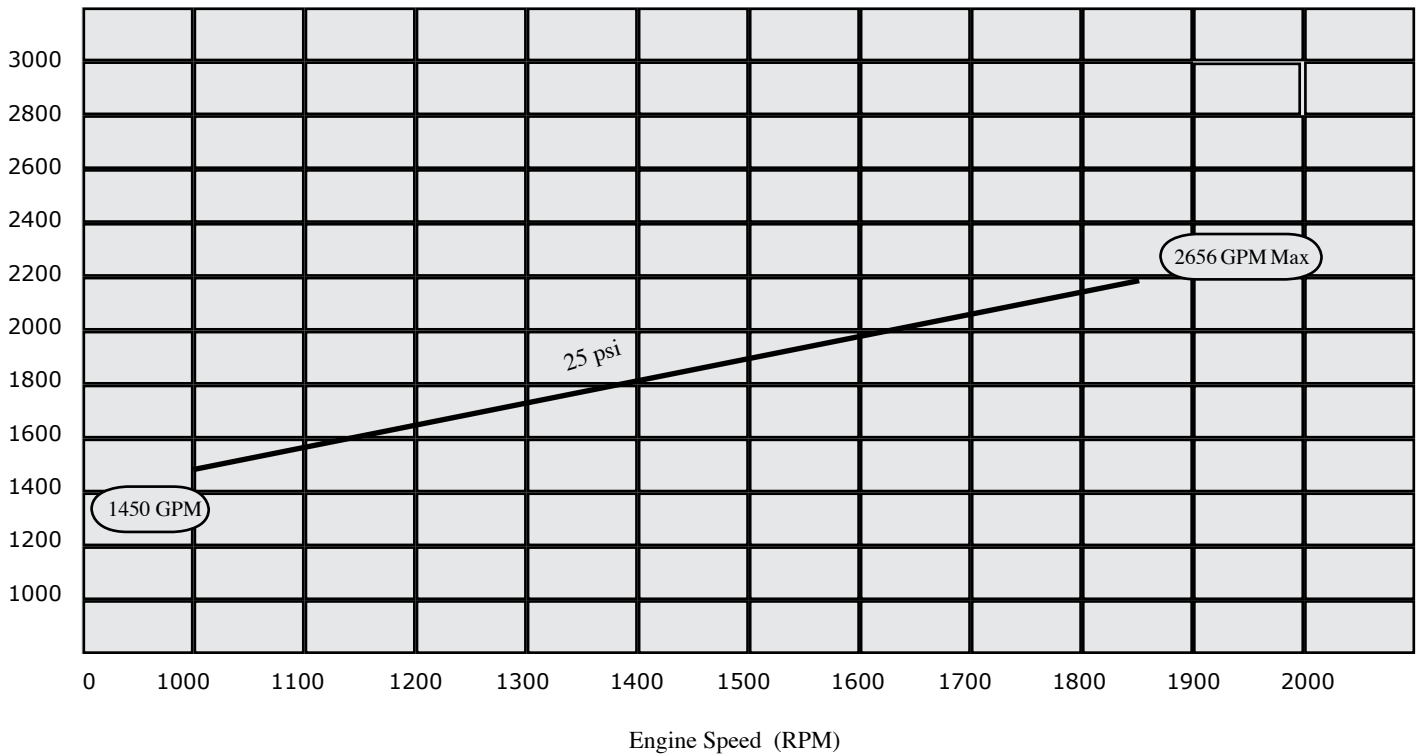
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Size 12" Rotary Pump**



	<u>Skid Base</u>
Net Weight (lbs)	5300
Shipping Weight (lbs)	5450
Export Crate Size (cu. ft)	285

U.S. Gallons  
Per Minute (GPM)

**Performance Curve Model: W12R - P1104C44  
Size: 12" Rotary Pump**



The above curve is based on pumping clear water at 62 degrees with no lift required and no restrictions in the discharge.