



PRIME³ Vacuum Assisted Suction Pump
Model PT4TMS - P404D22 Super Silent
Size 4" Trash, Materials, Sludge Pump

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

PUMP SPECIFICATIONS

Type/Model: Solids and slurry handling/Cornell 4NNDH EM Redi Prime

Volute: Fine gray cast iron

Flanges: 4" suction, 4" discharge

Impeller: 2 Vane open Delta® impeller 10.09" diameter fine gray iron

Solids: Handles 3" compressible, spherical solids

PRIME³ Priming System: Automatic dry priming and repriming system that features a 50 cfm water tolerant, diaphragm vacuum pump driven by the main drive shaft. Our major competitors use a 15 cfm compressor pump with a small compressor venturi that can easily clog. The air/water separator is a simple, reliable stainless steel float that opens and closes a rubber plunger as water rises and falls. A non return valve isolates the pump during priming and protects against back flow

Discharge Valve: Val-matic or equal

Seal: Cornell patented Cycloseal® design with Run-Dry oil lubrication system. Single mechanical seal with Viton® elastomers, stainless steel hardware and tungsten versus silicon-carbide seal faces for abrasion

Shaft Sleeve: Heat treated 416 stainless steel

Bearings: Heavy duty, grease lubricated, deep groove ball bearings, with a minimum of 50,000 hours bearing life

SOUND ENCLOSURE SPECIFICATIONS

Sound Level: Holland Pump Supersilent pump units are tested for Sound Level using the Contractors Pump Bureau Sound Level Measurement Standard for Pump Units using a calibrated Sound Level Meter. This procedure produces an average Sound Level based on eight measurements under strict conditions of pump placement. They are tested at full RPM pumping water. The sound level result is 68 dBA @ 23 feet or less.

Enclosure: Steel construction, removable for ease of maintenance.

Stainless steel accessories including bolt on, lift off hinges.

Base: Environmentally safe spill containment type base

Lifting Access: External lifting bail, integral forklift pockets

ENGINE SPECIFICATIONS

Model: Perkins 404D-22

Type: 4 Cylinder, 4 Stroke, Naturally Aspirated, Liquid Cooled Diesel Engine, Tier 3

Displacement: 2.2L (134 cu. in.)

Governor: Mechanical

Lubrication: Forced Circulation

Air Cleaner: Dry Type with Replaceable Element

Lube Oil Capacity: 2.8 U.S. gal (10.6 L)

Coolant Capacity: 1.84 U.S. gal (6.98 L)

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

Full Load Operating Time: 60 Hours Minimum

Starter: 12 Volt, 2 kW

Standard Features: Skid, SAE Flywheel Housing, SAE Flywheel, Murphy Safety Shutdown System
 Covering: Engine Oil Pressure, High Water Temperature

Optional Features: Site or DOT Highway Trailer, Automatic Remote Start/Stop, HANS (Holland Automatic Notification System), NEMA 4 Instrument Package
 Covering: Air Filter, Fuel Filter, Engine Temperature, Fuel Level, Engine Oil Pressure, Hour Meter, Amp Meter

Coupling: Stromag coupling

PT4TMS-P404D22-SS			Shutoff Head: 111 feet		
Flow (GPM)	Speed (RPM)	TDH (ft)	Pump Efficiency (%)	Power (hp)	Max Suction Head (ft)*
746	1770	72.9	61	22.6	16.7
627**	1770	80.1	61	20.7	18.5
622	1770	80.4	61	20.6	18.6
498	1770	87.8	60	18.3	20.4
373	1770	96	56	16.1	21.9
249	1770	95.2	47	12.7	22

*Max Suction Head is suction lift plus friction losses without risk of suction cavitation
 **Best Efficiency Point

Perkins Published Performance: Power: 51 BHP Continuous @ 3000 RPM



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Approximate Dimensions
Powered by Perkins 404D-22 Diesel Engine

	Skid Base	DOT Trailer
Net Weight (lbs)	3110	3510
Shipping Weight (lbs)	3300	N/A
Export Crate Size (cu. ft)	130	N/A



Performance Curve Model: PT4TMS - Super Silent - P404D22
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