**ENGINE SPECIFICATIONS**

**Model:** Perkins, 400 Series, 404D-22, Tier 3  
**Type:** 4 Cylinder, 4 Stroke, Naturally Aspirated, Liquid Cooled Diesel Engine  
**Displacement:** 2.2 L (134cu.in.)  
**Governor:** Mechanical  
**Lubrication:** Forced Circulation  
**Air Cleaner:** Dry Type with Replaceable Element  
**Lube Oil Capacity:** 2.8 U.S. Gallons (10.6L)  
**Coolant Capacity:** 1.84 U.S. Gallons (6.98L)  
**Fuel Tank:** Integral 68 U.S. Gallon Capacity (#2 Diesel Fuel)  
**Full Load Operating Time:** 60 Hours Minimum @ 2000 PSI  
**Starter:** 12 Volt, 2.0 kW  
**Standard Features:** Skid, SAE Flywheel Housing, SAE Flywheel, SAE B Pump Adaptor, Standard Instrument Panel: Engine Temperature and Low Oil Pressure with optional Gauge, Key Start, and Hour Meter  
**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, Hydraulic Oil Pressure  
**Perkins Published Performance:** Maximum Continuous BHP 51 BHP (38 kW) @ 3000 RPM  

Specifications subject to change without notice.

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**PUMP SPECIFICATIONS**

**Size:** 4” Trash, Materials, Sludge Pump  
**Volute:** Fabricated steel with verticle discharge (optional stainless steel and special abrasion resistant steel volutes are available)  
**Impeller:** Recessed vortex, 6 Vane. clearance for 22” manhole (optional stainless steel or special abrasion resistant steel impellers are available)  
**Solids:** Handles 3” diameter compressible spherical solids  
**Impeller Shaft:** High Strength steel  
**Seal:** Rotary Mechanical, oil-lubricated, carbon & ceramic (optional tungsten carbide or silicon carbide seals are available option)  

**Hydraulic System**

**Hydraulic Reservoir level:** 30 gallon capacity with single 10 micron spin on oil filter  
**Hydraulic Oil:** Petroleum based AW68 Furnished standard (optional canola bio-degradable oil or mineral based non-toxic inherently bio-degradeable oil available)  
**Hydraulic Pump:** Denison vane type positive displacement pump with pilot operated Denison relief valve  
**Hydraulic Motor:** Vickers vane type positive displacement motor  
**Heat Exchanger:** Double row, Sch 40 pipe with integral intake basket (optional engine mounted oil cooler available)  
**Hydraulic Hose:** 50’ set of SAE 100R2, two wire braid high-pressure hose  
**Pump Head Fail Safe Pressure Relief System:** Available as option to protect system against improper connection or interruption of biodegradable oil flow from pump head to power unit

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**Holland 4” Trash Materials, Sludge Pump**

**Capacity of Pump in U.S. Gallons per Minute (gpm) for Continuous Performance**

<table>
<thead>
<tr>
<th>Head</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>20’</td>
<td>450</td>
</tr>
<tr>
<td>10’</td>
<td>550</td>
</tr>
</tbody>
</table>

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4” Hydraulically Driven Submersible System
Model H4TMS - P404D22
Size 4” Trash, Materials, Sludge Pump

Approximate Dimensions
Powered by Perkins 404D-22 Diesel Engine, Optional
Single Axle Trailer Shown

Performance Curve Model: H4TMS - P404D22
Size: 4” Trash, Materials, Sludge Pump

TOTAL HEAD
PSI  FT
60-  140
30-  70
20-  40
10-  20
0-  0

U.S. Gallons Per Minute (GPM) @ 2000 PSI