WEATHER PROOF DIESEL POWERED HYDRAULIC POWER UNIT

Features Weather-Proof, Aluminum Cabinet and Dependable Perkins® Diesel Engine
Available in Electric Motor as Prime Mover

Model 05-854-05

- **Perkins® Diesel Engine**
  1. Perkins® Worldwide Factory Support
  2. Automatic Engine Shut-Down Low Oil Pressure, Over Temperature
  3. Current Low Emission Standards
  4. Will Operate on Jet-A or Diesel Fuel

- **Panel Mounted Controls for Ease of Operation and Safety**
  1. Pump Flow Adjustment (0-Full GPM)
  2. Pump Pressure Adjustment (0-Full PSI)
  3. By-Pass Dump Valve
  4. Engine Controls, Start, Throttle and Tach

- **Durable 0.90 Brushed Aluminum Cabinet Construction**
  1. Large Hinged Rear Access Door Provides Convenient Access and Inspection
  2. Removable Top Panel for Ease of Access to Unit’s Components
  3. No Exterior Paint to Fade or Chip with Usage
  4. Guaranteed Not to Rust

- **Safety Assurance with Automatic Engine Shut-Down**
  1. Low Oil Pressure
  2. Coolant Over Temperature

- **Super Clean Filtration** – Industry Leading Filtration Ensures Quality While Increasing Aircraft Component Life and Decreasing Aircraft Filter Changes
  1. High Efficiency, Non-Bypass Pressure Filter (3 Micron Absolute)
  2. Large Capacity Return Filter (6 Micron Absolute)

- **Operational Warning Lights**
  1. Engine Water Temperature and Oil Pressure LED Warning Indicator

- **Instrumentation**
  1. High Pressure Dual Scale Flow Meter (4% Accuracy)
  2. 6” Liquid Filled Pressure Gauge (1% Accuracy)
  3. Dual Scale Pyrometer / Oil Temperature Gauge
  4. Hour Meter

9283 Industrial Blvd, Leland, NC 28451 USA
Voice 910.371.1151 Fax 910.371.1152
ap-hydraulics.com
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Features Weather-Proof, Aluminum Cabinet and Dependable Perkins® Diesel Engine
Available in Electric Motor as Prime Mover

**Standard Features:**
- 100% Duty Cycle, Will Deliver Maximum Flow @ Maximum Pressure
- Heavy Duty Trailer with Tow Bar and Brake
- Solid 16" Wheels, Guaranteed To Never Go Flat
- All Welded 11 Gauge Aluminum Cabinet
- Heavy Duty All Welded Steel Frame with Fork Lift Tubes
- Weather Proof Cabinet
- Removable Top Panels and Rear Door for Ease of Access to Unit’s Components
- High Efficiency Oil Cooler
- Easy Access Exterior Fluid Sampling Valve to Meet Quality Parameters
- Stainless Steel Reservoir (150% of Maximum Pump Flow)
- Stainless Steel Fuel Tank (8 hrs Operational)
- Reservoir Selector Valves (to use either unit’s or aircraft’s reservoir)
- Standard Pressure Hoses and Return Hoses, 25 ft. (7.62 m) Long
- Current Pressure Gauge and Flow Meter Certificate of Calibration
- Durable Laser Engraved, Aluminum Placards
- Panel Mounted Operational Instructions

**SPECIFICATIONS:**

<table>
<thead>
<tr>
<th>SERIES MODEL</th>
<th>PUMP PRESSURE PSI (bar)</th>
<th>ENGINE HP (kw)</th>
<th>PUMP FLOW GPM (lpm)</th>
<th>RESERVOIR CAPACITY</th>
<th>WEIGHT Lbs. (kg)</th>
<th>LENGTH In (cm)</th>
<th>WIDTH In (cm)</th>
<th>HEIGHTH In (cm)</th>
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<tr>
<td>05-852-**</td>
<td>450 - 4000 30 - 272</td>
<td>50 HP</td>
<td>20 GPM</td>
<td>50 US gal</td>
<td>3900 lbs</td>
<td>86 In</td>
<td>60 In</td>
<td>68 In</td>
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<td></td>
<td>37 kw</td>
<td>76 lpm</td>
<td>189 lb</td>
<td>1769 kg</td>
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<td>218 cm</td>
<td>152 cm</td>
<td>173 cm</td>
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<td></td>
<td>75 kw</td>
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<td>112 kw</td>
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<td>149 kw</td>
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<td>193 cm</td>
<td>190 cm</td>
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**Model by Fluid Type:**
- Mil-H-5606 = 02
- Mil-H-83282 = 03
- Skydrol = 05

850 Series

AP Hydraulics
Engineered Fluid Power

9283 Industrial Blvd. Leland, NC 28451 USA
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Series 850 Hydraulic Power Unit Schematic
Step 1: Determine Size of the Hydraulic Power Unit Required, Refer to Aircraft’s Maintenance Manual For
A. Maximum (GPM) Gallons Per Minute B. Maximum (PSI) Pound Per Square Inch
Step 2: Refer to Aircraft’s Maintenance Manual for Type of Hydraulic Fluid.
Step 3: Call A&P Hydraulics experienced sales staff for any questions for explanation of the complete range of Hydraulic Power Unit Options that we offer.

EXAMPLE:
Hydraulic Power Unit – 50 GPM @ 4000 PSI – Skydrol Fluid – Diesel Engine
Optional: 50 ft. Hoses and Dual System

05 - 854 - 05 - D - B - C

05 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0

Hydraulic Power Unit

<table>
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<tr>
<th>CHAR</th>
<th>GPM</th>
<th>LPM</th>
<th>PSI</th>
<th>BAR</th>
<th>HP</th>
<th>KW</th>
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<td>76</td>
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<td>4000</td>
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<td>75</td>
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| 856  | 70  | 264 | 5000| 264 | 150| 172
| 858  | 70  | 264 | 5000| 264 | 200| 149 |

CHAR DESCRIPTION
D Diesel Engine

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<td>3</td>
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<tr>
<td>5</td>
<td>Skydrol</td>
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<tr>
<td>6</td>
<td>MI-PKF-87237</td>
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</table>

CHAR OPTION DESCRIPTION
B 50 ft. Hoses
C Dual System
M Reservoir Hand Pump
T Return Back Pressure w/ Sight Glass
U Return Sight Glass
V Return Back Pressure
W Second Language Operation Parts & Owner’s Manual
X CE Compliant
Y Custom Engineering

Ordering Instructions
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