HEAVY DUTY HYDRAULIC TEST/POWER UNIT

Featuring Safety Automatic Shut-Down, Charge Pump That Continuously Filters and Cools Fluid, and Kidney Loop Oil Polishing System

- **Performance Assured 100% Duty Cycle**
  1. Will deliver Maximum Flow @ Maximum Pressure
  2. Industrial Duty Lincoln® Motor
  3. Heavy Duty Motor Starter with Over Load Protection
  4. Charge Pump with Pressure Compensated Piston Pump
  5. Industry’s Best – 3 Year Warranty

- **Panel Mounted Controls for Ease of Operation and Safety**
  1. Complete Pump Flow Adjustment (0-Full GPM)
  2. Complete Pump Pressure Adjustment (250-Full PSI)
  3. By-Pass Dump Valve
  4. Electric Reservoir Fill Pump System (For Servicing Aircraft’s Reservoir) (3 GPM)

- **Super Clean Filtration - Industry Leading Filtration**
  Ensures Quality While Increasing Aircraft Component Life and Decreasing Aircraft Filter Changes
  1. 2nd Stage Reservoir Fill Pump Filter (.25 Micron Absolute)
  2. Case Drain Filter (6 Micron Absolute)
  *Desiccant (Water Absorbing) Reservoir Air Breather
  3. Charge Pump Continuously Filters and Cools Fluid
  4. Extra Capacity Charge Pump Filter (6 Micron Absolute)
  5. Reservoir Fill Pump Filter (.25 Micron Absolute)

- **Safety Automatic Shut-Down**
  1. Oil Over Temperature
  2. Charge Pump Low Pressure
  3. Pressure Filter Clogged
  4. Reservoir Low Level

- **Instrumentation**
  1. Digital Flow Meter (1% accuracy)
  2. Digital Pressure Gauges (.5% accuracy)
  3. Digital Oil Temperature Gauge (1% accuracy)
  4. All Digital Gauges Installed in Skydrol Resistant Enclosure
  5. Hour Meter
  6. All Digital Gauges Installed in NEMA 4 Enclosure
  7. All Gauges Have A Safety Glass Cover for Durability

- **Operational Warning Lights**
  1. Low Boost Pump Pressure LED Warning Indicator
  2. High Fluid Temperature LED Warning Indicator
  3. Reservoir Low Level LED Warning Indicator
  4. Operational Beacon
  5. Electrical Input Monitoring with Warning Lights
    A. Correct Voltage Input
    B. Correct Phase Input
    C. Over Voltage Input
    D. Under Voltage Input
    E. Over Ampereage Input
    F. Out of Phase Input
    G. Correct Phase Input
  6. Maintenance Required / Filter Replacement LED Reminder Indicator
  7. Kidney Loop Filter Clogged Condition LED Warning Indicator
  8. Charge Pump Filter Condition LED Warning Indicator

Model 05-776-05

9283 Industrial Blvd. Leland, NC 28451 USA
Voice 910.371.1151 Fax 910.371.1152
ap-hydraulics.com
HEAVY DUTY HYDRAULIC TEST/POWER UNIT

Featuring Safety Automatic Shut-Down, Charge Pump That Continuously Filters and Cools Fluid, and Kidney Loop Oil Polishing System

Standard Features:

- 100% Duty Cycle, Will Deliver Maximum Flow @ Maximum Pressure
- Heavy Duty Tubular Frame with 16" Solid Wheels
- Heavy Duty Tow Bar and Parking Brake
- Puncture Proof Tires, Guaranteed No Flats
- All Welded 0.90 Brushed Aluminum Construction
- Removable Top Panels and Rear Door for Ease of Access to Unit's Components
- High Efficiency Aluminum Oil Cooler with 3 Phase Electric Fan
- Stainless Steel Reservoir (200 Gallons)
- All Electrical Components Installed in Liquid Proof Enclosures (NEMA 4, 12)
- Easy Access Exterior Fluid Sampling Valve to Meet Quality Parameters

- Extra Capacity, Reservoir Desiccant (Water Absorbing) Breather
- Reservoir Selector Valve
- (To Use Either Aircraft's or Unit's Reservoir)
- Standard #16 Pressure Hoses and #32 Return Hoses, 25 ft. (7.62 m) Long
- Standard 50 ft. (15.2 m) Electrical Input Cable
- Durable Laser Engraved, Aluminum Placards
- Panel Mounted Operational Instructions
- Current Pressure Gauge and Flow Meter Certificate of Calibration
- Guaranteed No Leaks, Stainless Steel Pan Completely Covers Bottom

Dimensions: Length 116 in (294 cm), Width 76 in (193 cm), Height 70 in (177 cm)

SPECIFICATIONS:

<table>
<thead>
<tr>
<th>SERIES MODEL</th>
<th>PUMP PRESSURE PSI (bar)</th>
<th>MOTOR HP (kw)</th>
<th>PUMP FLOW 50 Hz GPM (lpm)</th>
<th>PUMP FLOW 60 Hz GPM (lpm)</th>
<th>WEIGHT Lbs. (kg)</th>
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<tbody>
<tr>
<td>05-772-05</td>
<td>450 - 3500 PSI 30 - 238 bar</td>
<td>100 HP 74 kw</td>
<td>41 GPM 157 lpm</td>
<td>50 GPM 189 lpm</td>
<td>4600 lbs 2086 kg</td>
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<td>05-773-05</td>
<td>450 - 4000 PSI 30 - 272 bar</td>
<td>125 HP 92 kw</td>
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<td>63 GPM 238 lpm</td>
<td>5000 lbs 2268 kg</td>
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<td>450 - 5000 PSI 30 - 340 bar</td>
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<td>50 GPM 189 lpm</td>
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<tr>
<td>05-775-05</td>
<td>450 - 4000 PSI 30 - 272 bar</td>
<td>150 HP 112 kw</td>
<td>66 GPM 249 lpm</td>
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<td>05-776-05</td>
<td>450 - 5000 PSI 30 - 340 bar</td>
<td>200 HP 149 kw</td>
<td>66 GPM 249 lpm</td>
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<td>6200 lbs 2812 kg</td>
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**Model by Fluid Type: Mil-H-5606 = 02 Mil-H-83282 = 03 Skydrol = 05**
Series 770 Hydraulic Test / Power Unit Schematic
Ordering Instructions

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: Determine the input voltage the Hydraulic Power Unit will be operated on. When ordering, the most common error is selecting Incorrect input voltages, 50 Hertz the flow will be reduced by 17%

Step 4: 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 – 60 GPM @ 5000 PSI – Skydrol Fluid – 460 Volt 60 Hertz 3 Phase
Optional: 50 ft. Hoses and Return Back Pressure with Sight Glass

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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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<tr>
<th>CHAR</th>
<th>VOLT/FREQ/PHASE</th>
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<tr>
<td>2</td>
<td>330V/50Hz/3ph</td>
</tr>
<tr>
<td>3</td>
<td>460V/30Hz/3ph</td>
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<tr>
<td>4</td>
<td>575V/30Hz/3ph</td>
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<tr>
<td>5</td>
<td>460V/30Hz/3ph</td>
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<tr>
<td>6</td>
<td>440V/60Hz/3ph</td>
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<tr>
<th>CHAR</th>
<th>OPTION DESCRIPTION</th>
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<td>B</td>
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<tr>
<td>C</td>
<td>Dual System</td>
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<tr>
<td>T</td>
<td>Return Back Pressure w/ Sight Glass</td>
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<tr>
<td>U</td>
<td>Return Sight Glass</td>
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<tr>
<td>V</td>
<td>Return Back Pressure</td>
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<tr>
<td>X</td>
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<tr>
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<td>MIL-PF-87257</td>
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</tbody>
</table>

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