HEAVY DUTY HYDRAULIC POWER UNIT

Designed to Meet the Requirements of Smaller Regional and Corporate Aircraft as Well as Helicopter Service Facilities

- **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

- **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

- **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)
  3. Desiccant (Water Absorbing) Reservoir Air Breather

- **Operational Warning Lights**
  1. Pressure Filter Condition LED Warning Indicator for Clogged Conditions
  2. Return Filter Condition LED Warning Indicator for Clogged Conditions

- **Instrumentation**
  1. High Pressure, Dual Scale Flow Meter (4% Accuracy)
  2. Test Quality 6” Pressure Gauge (1% accuracy)
  3. Dual Scale Pyrometer / Oil Temperature Gauge
  4. Hour Meter (To Schedule Maintenance)

- **Durable 0.90 Brushed Aluminum Cabinet Construction**
  1. Large Hinged Rear Access Door Provides Convenient Access and Inspection
  2. No Exterior Paint to Fade or Chip with Usage
  3. Guaranteed Not to Rust

9283 Industrial Blvd, Leland, NC 28451 USA
Voice 910.371.1151 Fax 910.371.1152
ap-hydraulics.com
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**Standard Features:**
- High Efficiency Aluminum Oil Cooler with 3 Phase Electric Fan
- Stainless Steel Reservoir (20 Gallons)
- Reservoir Selector Valves (to use either aircraft's or unit's reservoir)
- Standard #8 Pressure Hoses and #12 Return Hoses, 15 ft. (4.5 m) Long
- Standard 50 ft. (15.2 m) Electrical Input Cable
- All Welded .090 Aluminum Construction
- Heavy Duty Welded Frame
- All Electrical Components Installed in Liquid Tight Enclosure (NEMA 4, 12)
- Current Pressure Gauge and Flow Meter Certificate of Calibration
- Guaranteed No Leaks, Aluminum Pan Completely Covers Bottom of Unit
- Durable Laser Engraved, Aluminum Placards
- Panel Mounted Operational Instructions
- Easy Access Exterior Fluid Sampling Valve to Meet Quality Parameters
- Easy Maneuvering Ensured with Two Fixed and Two Swivel Castors with Stability Provided by the Heavy Duty Floor Lock
- Heavy Duty Bracket for Hose and Electrical Input Cord Storage
- Large Hinged Rear Access Door Provides Convenient Access and Inspection

Dimensions: Length 69 in (175 cm), Width 36 in (91 cm), Height 40 in (102 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>
</tr>
</thead>
<tbody>
<tr>
<td>05-621-**</td>
<td>450 - 4000 PSI 30 - 272 bar</td>
<td>10 HP</td>
<td>5 GPM 19 lpm</td>
<td>6 GPM 23 lpm</td>
<td>775 lbs 351 kg</td>
</tr>
<tr>
<td>05-622-03</td>
<td>450 - 4000 PSI 30 - 272 bar</td>
<td>10 HP</td>
<td>5 GPM 19 lpm</td>
<td>6 GPM 23 lpm</td>
<td>775 lbs 351 kg</td>
</tr>
<tr>
<td>05-623-**</td>
<td>450 - 4000 PSI 30 - 272 bar</td>
<td>20 HP</td>
<td>8 GPM 31 lpm</td>
<td>10 GPM 39 lpm</td>
<td>1200 lbs 544 kg</td>
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<tr>
<td>05-624-**</td>
<td>450 - 5000 PSI 30 - 340 bar</td>
<td>25 HP</td>
<td>9 GPM 34 lpm</td>
<td>11 GPM 41 lpm</td>
<td>1400 lbs 635 kg</td>
</tr>
</tbody>
</table>

**Model by Fluid Type:**  
- Mil-H-5606 = 02  
- Mil-H-83282 = 03  
- Skydrol = 05

Model 05-622-03 For Citation III, VI, VII Includes Reservoir Selector Valve, Pyrometer, and Return Sight Glass
Series 620 Hydraulic 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 - 10 GPM @ 4000 PSI – Skydrol Fluid – 480 Volt 60 Hertz 3 Phase
Optional: 50 ft. Hoses and Dual System

Ordering Instructions

620 Series

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