HYDRAULIC PUMP TEST STAND

Heavy Duty, Variable Frequency Drive for Testing Pumps with the Most Demanding Applications

Model 07-966-05

Features:

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ap-hydraulics.com
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STANDARD FEATURES AND SPECIFICATIONS FOR HYDRAULIC PUMP AND MOTOR TEST SYSTEM:

- **Supply Port**
  1. Digital Supply Pressure Gauge (.25% Accuracy)
  2. Supply Throttle
  3. Supply Pressure Adjustment (0-200 PSI)
  4. Digital Oil Temperature Gauge
  5. Automatic Supply Pressure Control
  6. Precise Supply Pressure Regulator

- **Pressure Port**
  1. Load Valve
  2. By-Pass Dump Valve
  3. Digital Pressure Gauge (.25% Accuracy - 0-5000 PSI)
  4. Digital Oil Temperature Gauge
  5. Digital High Pressure Flow Meter (1% Accuracy)

- **Case Drain Port**
  1. Load Valve
  2. By-Pass Dump Valve
  3. Digital Pressure Gauge (.25% Accuracy - 0-600 PSI)
  4. Digital Oil Temperature Gauge
  5. Digital Flow Meter (.4 - 7 GPM - 1% Accuracy)
  6. Case Drain Sump Tank Allows Pressure Adjustment from (0-200 PSI)

- **Super Clean Filtration** – Industry Leading Filtration Ensures Quality While Increasing Aircraft Component Life
  - Pump Outlet Filter
  - Supply Port Filter
  - Loop Pump Filter with LED Filter Condition Warning Indicator
  - Supply Tank Desiccant Filter
  - Sump Tank Filter

- **Instrumentation** – All Gauges Feature Easy Programmability for Field Calibration
  - **Two Digital Flow Meters (1% Accuracy)**
    1. Pump Flow Outlet (Refer Model Number for Flow Range)
    2. Case Drain Flow (.4 – 7 GPM)
  - **Four Digital Pressure Gauges (.25% Accuracy)**
    1. Supply Tank Pressure (0 - 200 PSI)
    2. Supply Port Pressure (0 - 200 PSI)
    3. Pump Outlet Pressure (0 – 5000 PSI)
    4. Case Drain Pressure (0 – 200 PSI)

- **Oil Temperature Control** - Two Extra Capacity Oil Coolers to Ensure 100% Duty Cycle
  1. Extra Capacity Pump Outlet Load Valve Oil Cooler
  2. Loop Pump Oil Cooler That Will Continuously Cool Fluid

- **Safety Features**
  1. Ergonomically Located Emergency Stop Switch
  2. Safety Over Pressure Relief Valve
  3. Safety Drip Pan Completely Covers Bottom to Ensure Clean Floors
  4. All Electrical Components Installed in NEMA 4, 12 Enclosure
  5. All Gauges are Fully Enclosed in NEMA 4. 12 Enclosure with a Clear Front Safety Glass Cover
  6. Operational LED Warning Indicator Lights
  7. Dual Heavy Duty Floor Locks to Ensure Stability
  8. Optional Safety Glass Sliding Doors for Work Sink
  9. Supply Tank Over Pressure Relief Valve
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PUMP TEST STAND STANDARD FEATURES:
- The Pump Test Stand (PTS) is designed for testing all fixed and variable displacement pumps
- Precise digital pressure gauges
- High accuracy digital flow meters
- Stainless steel pressure supply tank (175 gallons)
- 5000 PSI working pressure
- All gauges enclosed in Skydrol proof enclosure
- Stainless steel construction
- Heavy duty work sink with grating
- Sink drain pump with filter
- Loop pump for reservoir, continuously filters and cools fluid
- High capacity loop pump filter and pump outlet filter
- LED warning indicators for loop filter, supply tank low level, and high fluid temperature
- Dual, extra capacity water to oil coolers
- Automatic oil temp control
- Guaranteed no leaks, safety pan completely covers bottom
- Current pressure gauge and flow meter certificates of calibration

VARIABLE FREQUENCY DRIVE FEATURES:
- Eaton® all digital variable frequency
- Panel mounted controls
  1. Master switch
  2. Emergency stop switch
  3. RPM control switch – high resolution potentiometer
     (0-6000 RPM adjustable speed)
     (10,000 RPM available)
  4. Rotational switch
- Digital readouts
  1. Panel mounted tachometer RPM
  2. Motor over voltage
  3. Motor over current
  4. Motor over temperature
  5. Ground fault
  6. Output phase supervision
  7. Encoder fault

SPECIFICATIONS:

<table>
<thead>
<tr>
<th>SERIES MODEL</th>
<th>PUMP UNDER TEST</th>
<th>PUMP UNDER TEST</th>
<th>INVERTER DRIVE</th>
<th>SUPPLY TANK</th>
<th>WEIGHT</th>
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<tr>
<td></td>
<td>OUTLET PRESSURE</td>
<td>OUTLET FLOW</td>
<td>MAXIMUM HP</td>
<td>CAPACITY Gals</td>
<td>Lbs. (kg)</td>
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<td>PSI (bar)</td>
<td>GPM (lpm)</td>
<td>(kW)</td>
<td>(Lts)</td>
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<td>07-962-**</td>
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**Model by Fluid Type: Mil-H-5606 = 02  Mil-H-83282 = 03  Skydrol = 05**
Series 960 Pump Test Stand Schematic
Ordering Instructions

Step 1: Determine Size of the Hydraulic Test Stand Required, Refer to Aircraft’s Component Overhaul Manuals For:
A. Maximum (GPM) Gallons Per Minute
B. Maximum (PSI) Pound Per Square Inch
C. Testing Procedures and Operation of Components

Step 2: Refer to Aircraft’s Component Overhaul Manuals for Type of Hydraulic Fluid.

Step 3: Determine the input voltage the Hydraulic Test Stand 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 Test Stand Options that we offer.

EXAMPLE:
Pump Test Stand – 50 GPM @ 5000 PSI – Skydrol Fluid – 460 Volt 60 Hertz 3 Phase
Optional: Extra Pressure Gauge (0-60 PSI) and Safety Glass Doors

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