

PORTABLE HYDRAULIC POWER SUPPLY

Diesel Engine Driven, P/N 040489-100

NSN 4920-01-523-5921



HYDRAULICS INTERNATIONAL, INC.

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Features

- Low emission by using a diesel engine that meets the EPA requirements.
- Low profile and narrow structure provides better air transportability.
- Hydraulic circuit is designed as an integral manifold which eliminates excessive plumbing & external leakage of hydraulic fluid.
- By utilizing a sealed hydraulic reservoir the air and moisture entering the reservoir is eliminated.
- Heat exchanger system for the engine and hydraulic system is designed for high ambient temperature.
- Low noise emission.
- Continuous cooling, filtering and particle removal from hydraulic fluid keeps hydraulic fluid clean and eliminates the need of changing hydraulic fluid.
- Sample ports are provided for monitoring the condition of the hydraulic fluid in the reservoir.
- External reservoir fill and discharge ports enables the operator to fill the hydraulic reservoir from an outside source, or to remove clean filtered hydraulic fluid from the reservoir.
- Back pressure regulator allows operation in both aircraft (closed loop) or test stand reservoir (open loop) operation.

Leading Particulars

ITEM	CHARACTERISTICS
Test medium	Hydraulic fluid, MIL-H-83282, MIL-H-5606, or as specified by customer when ordering
Capacity	32 GPM at 3000 PSI, 22 GPM at 5000 PSI
Operating Conditions	
Ambient temperature range	-40°F to +120°F
Altitude	Sea level to 6000 feet
Relative humidity	0% to 100%
Test stand position	Up to 8 1/2° from horizontal
Overall Physical Characteristics	
Size	Height: 48", width: 51" and length: 97"
Wet weight	3000 lb
Hydraulic reservoir	35 U.S. gallon (30 useable)
Road clearance	8 inches
Tow speed	20 mph max over improved loads
Steering angle	40°
Major Component	
Drive unit	110 HP, turbo charged engine, four cylinder
Main pump	Variable displacement piston pump, with remote volume and pressure compensator
Boost pump	Fixed displacement gear pump
Heat exchanger	Oil-to-air radiator type
Supply port	3/4" tube size, AN fitting, equipped with 20 ft long -12 HP hose and -12 hose half QD
Return port	1 1/4" tube size, AN fitting, equipped with 20 ft long -20 LP hose and -20 hose half QD
External Fill Port	1/4" tube size, AN fitting, equipped with 25 ft long -4 LP hose and -4 hose half QD
Filtration	
Boost system filter	10-micron (nominal)
Supply system filter	3-micron (absolute)
Fill & purification system filter	3-micron (absolute)
Instrumentation	
Output pressure gauge	0-6000 PSI
Compound gauge	
(Purification/boost suction)	-30-0-30 PSI
Hydraulic temp gauge	-20°F to 200°F
Engine monitoring gauge	Tachometer, hourmeter, oil press, coolant temp, ammeter and fuel gauge
Automatic shutdown	Low boost pressure, high temp, low and high reservoir level, low engine oil press, high coolant temp.



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