

Portable Hydraulic Test Stand Model HIP-E-9SSRAT



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Portable Hydraulic Test Stand, Dual Outlet

Models HIP-E-9SSRAT

The models HIP-E-9SS RAT is a Portable Hydraulic Test Stands which allow servicing and testing of all large and mid size body aircraft – such as MD-11, 777, 747, 767, L1011, DC10, AIRBUS A300, A310, A320, A330, and A340 or as long as the capacity of the hydraulic system is within the range of test stand flow and pressure.

Features

- Operates at flow rates up to 55 GPM at 60 cycle and 50 GPM at 50 cycle.
- Operates at compensated pressures up to 5,500 PSI.
- Operates from 460, 415, 380, and 230 VAC, 3 Phase, 50 or 60 cycle power.
- Dual supply and return capability.
- Low profile all stainless steel housing.
- Reduced voltage starting system on both voltages.
- 60 gallons capacity stainless steel reservoir.
- Return pressure regulator provides servicing aircraft reservoir through return line and test stand reservoir operation.
- All components arranged for easy accessibility and maintainability.
- Electrical fill pump provides servicing aircraft reservoir.
- Capability of testing Aircraft Ram Air Turbine (RAT) system by instant supply of hydraulic power upon demand.

Leading Particulars

Item	Characteristic
Test medium.....	Skydrol 500A and B, or as specified by customer when ordering
Flow and pressure rating.....	55 GPM, 3,000 PSIG at 60 cycle or 50 GPM, 3,000 PSIG at 50 cycle. 5,500 PSIG at reduced flow
Fluid temperature.....	To +77° ± 2° (165 ± 5°F)
Operation positions.....	Up to 8½° from horizontal
Tow speed.....	20 MPH max. over improved roads
Cramping angle.....	40°
Road clearance.....	8 inches
Overall physical characteristics.....	Height: 53"; Length: 108"; Width: 52"; Gross: 3500 pounds
Reservoir capacity.....	60 U.S. gallons
Test system components:	
High pressure pump.....	Variable displacement, pressure compensator controlled, axial-piston type: 60 GPM at 3,000 PSIG with integral boost pump 70 GPM at 300 PSIG and variable volume
Filtration:	
Boost system filter.....	10-micron, two element
High pressure system filter.....	3-micron or 5-micron (absolute)
Output pressure gauges.....	(Optional Metric gauges are available)
Supply pressure gauge.....	0 to 6,000 PSIG
Boost system pressure gauge.....	0 to 30 in. of Hg/O to 300 PSIG range
Flowmeter.....	0 to 60 GPM range
Temperature gauge.....	0° to +200°F range
Preset components:	
Thermal relief valve.....	200 PSIG (adjustable)
Boost system check relief.....	140 ± 5 PSIG
Boost system pressure switch.....	Closes at 25 PSIG
Differential high pressure filter switch.....	100 PSID ± 10 PSID
Differential low pressure filter switch.....	30 PSID ± 2 PSID
Fluid heat exchanger.....	Oil-to-Air type, selected to maintain fluid temperature below +60°C (+140°F) at 55 GPM at 750 PSIG at an ambient temperature of +37.8°C (+100°F)
Pressure ports.....	1 in. Tube size, AN-type fittings
Return ports.....	1 1/4 in. Tube size, AN-type fittings
Drive unit:	
Electrical motor.....	100 HP at 1800/1500 RPM
Trailer and cabinet:	
Construction.....	Welded stainless steel
Wheels.....	Four pneumatic tires, 10-ply, 6 X 9, split wheel
Tire pressure.....	60 ± 10 PSI
Springs.....	Leaf type
Brake.....	Hand operated, parking type (rear wheels)
Steering.....	Knuckle type with tow bar
Cabinet.....	Metal enclosure with access panels, hinged doors, storage compartments, and weather resistant properties
Option.....	Hoses, quick disconnects, and electrical plug can be requested as option by customer



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