

AIRCRAFT CABIN LEAKAGE TESTER

200, 400, 600 or 1000 SCFM



HYDRAULICS INTERNATIONAL, INC.

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Aircraft Cabin Leakage Tester

General information

The cabin leakage tester is a self-contained towable unit. The unit provides a means of pressurizing and automatically measuring the leakage rate of an aircraft cabin.

The tester consists principally of: a positive displacement lobe blower which supplies compressed atmospheric air at a desired operating pressure and a controlled temperature. In addition, a separately driven compressor provides the means to pressurize the aircraft canopy seal.

In addition to the blower and prime mover the unit consists of: appropriate silencers, an aftercooler assembly, a flowmeter, and control panel with appropriate instrumentation.

Auxiliary equipment includes: supply and pressure monitoring hoses, adapters and a stethoscope.

Leading Particulars

Operating Characteristics:				
Medium	Compressed air			
Pressure	2 through 14 psig range			
Flow	10 through 1000 scfm (determined by specific models)			
Temperature	25° of ambient temperature at maximum flow and pressure			
Pressure, Canopy Seal	65 psig max.			
Flow, Canopy Seal	1.4 scfm			
Operating Ambient Temperature				
Range	-20°F to +120°F			
Altitude Operating				
Range	Sea Level to 6,000 ft.			
Storage Temperature				
Range	-60°F to +160°F			
Operating Positions	8 1/2 degree incline with true horizontal plane			
Tow Speed	20 mph improved roads, 10 mph unimproved roads			
Cramping Angle	40 degrees			
Tire Inflation	60 psig			
Overall Dimensions	200, 400 and 600 scfm Models:	Height: 57 inches	1000 scfm Model:	Height: 81 inches
		Length: 100 inches		Length: 127 inches
		Width: 59 inches		Width: 64 inches
Weight	200, 400 and 600 scfm Models: 2500 pounds 1000 scfm Models: 6140 pounds			
Electrical Power Requirements	230 ± 10% volts AC, 50/60 Hz, three phase, convertible to 460 ± 10%, volt operation			
Diesel Engine	Engine type determined by model			
System Components:				
Electrical Motor	Electric motor specifications determined by model			
Input Power Cable	50 ft. long, 4 conductor, polarized water tight connector as specified by customer			
Blower	Single stage, positive-displacement, lobe type			
Aftercooler	Air-to-air, sized to maintain blower discharge air within 25°F ambient at maximum flow and pressure			
Relief Valve	Adjustable, pilot controlled, 2 to 12.5 psig range			
Rate Valve	Adjustable, pilot controlled, limits pressure increase or decrease rate			
Compressor	Oil-less Reciprocating Air compressor, Electric Motor Driven, 1.4 scfm, 65 psig max.			
Instrumentation:				
Pressure Gage:	(1) Cabin pressure, 0-15 psig range (1) Blower pressure, 0-20 psig range (1) Canopy seal pressure, 0-100 psig range			
Pressure Rate of Change	(1) Rate of cabin pressurer change, 0 to 6000 ft per minute increasing and decreasing			
Temperature	(1) Discharge air temperature -20°F to +180°F range			
Flowmeter	(1) Direct reading scale, 5 to 200 scfm, 10 to 400 scfm, 10 to 600 scfm or 10 to 1000 scfm dual scale			

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