

AIRCRAFT CABIN LEAKAGE TESTER

400 SCFM, Diesel Engine Driven

P/N: 93038-100, NSN: 4920-01-381-4950



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General information (400 SCFM):

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 diesel engine the unit consists of: an after-cooler assembly, a flowmeter, and control panel with appropriate instrumentation.

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

Leading Particulars

Operating Characteristics:	
Medium	Compressed air
Pressure, Cabin.....	2 through 12.5 psig range
Flow.....	0 through 400 scfm
Temperature.....	25° above ambient temperature at maximum flow and pressure
Pressure, Canopy Seal.....	65 psig max.
Flow, Canopy Seal	1.4 scfm
Operating Ambient Temperature	
Range.....	-20° to +120°F
Altitude Operating	
Range.....	Sea Level to 6,000 ft.
Storage Temperature	
Range.....	-60°F to +160°F
Operating Positions	8½ degree incline with true horizontal plane
Tow Speed	20 mph improved roads, 10 mph unimproved roads
Cramping Angle	40 degrees
Tire Inflation	60 psig
Power Equipment:	
Diesel Engine	4 cylinder, inline, 57 HP at 2300 RPM with integrated oil cooling system
Blower	Single stage, positive-displacement, lobe type
After-cooler.....	Air-to-air, sized to maintain blower discharge air within 25°F above ambient at maximum flow and pressure
Relief Valve	Adjustable, pilot controlled, 2 to 14 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 pressure change, 0 to 6000 ft per minute rate increasing and decreasing
Temperature.....	(1) Discharge air temperature -20°F to +140°F range
Flowmeter (2 stage).....	(1) Rotometer type, 0 to 400 scfm, 2 to 14 psig range
Overall Dimensions	
	Height: 68 inches
	Length: 107 inches
	Width: 57 inches
Weight (Dry)	App. 3350 pounds



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