

AHT85

Aircraft Ground Equipment



Technical specifications

The AHT 85 is a computer-controlled diesel driven, compact, mobile, single pump dual system aircraft hydraulics tester.

Capacity	0-110 l/min up to 210 bar, reduced flow up to 280 bar
High-pressure pump drive	Deutz diesel engine, max. 65 kW at 1800 rpm, air cooled, 6 cylinder, 4 stroke
Fluid specification	MIL-H-5606 (NATO code H-515) or alternatives
High-pressure pump	Axial piston, variable stroke, pressure controlled
Boost pump	Direct driven G-rotor pump
Cooler	Oil-to-air cooler
Operating temperature	-32 °C up to +49 °C
Pressure & flow control	Computer controlled valves / pump
Indication	Display of flow, temperature and pressures, plus other relevant information on a portable, colour LCD display
Fluid reservoir	180 l; de-aeration with 0.7 bar abs. reservoir pressure
High-pressure filter	3-micron outlet filtration, replaceable element
Boost system filter	3-micron filtration, replaceable element
	Cleanliness level according to NAS 1638, Class 5
Piping	High-pressure lines: stainless steel Low-pressure lines: aluminium
Hoses	Non-elastomer hoses (except for ext. and HP hoses)
Outlet system	Two pressure- and flow-controlled outlets
Return system	Two pressure-controlled inlets
SARLC	Sun Aircraft Reservoir Level Control System
External connections	Two 1" supply pressure hoses, length 10 m and two 1½" return pressure hoses, length 10 m on motor-driven hose reels.
Average noise level	79 dB (A), measured at a distance of 1 m from the test stand
Dimensions (L x W x H)	3450 x 1900 x 1560 mm
Weight	3500 kg

Operation

Easy, safe and reliable operation complying with military and civil aircraft specifications and low-level maintenance requirement. Automatic test sequences possible.

SARLC

The AHT is prepared for the Sun Aircraft Reservoir Level Control system. This system controls the level of hydraulic fluid in the aircraft reservoir whilst running the tests.

De-aeration of the test stand reservoir remains operational. This system supersedes a dual "closed loop" system.

Functions

The tester is designed to perform the following functions and test procedures:

- Provide a source of hydraulic power to operate the aircraft hydraulics system and controls for functional and operational tests without the necessity of starting the aircraft engines.
- Test the aircraft hydraulics system for function checks, for indication of malfunctions, for flow and pressure checks, leakage, etc.
- Filter, de-aerate and dehydrate the aircraft hydraulic fluid.
- Drain, flush and refill the aircraft hydraulics system.

Options

- Automatic calibration
- Patented GiO system, option '-G', measurement of the amount of undissolved gas in the high- and low-pressure systems of the aircraft (closed systems only), and measurement of piston friction of bootstrap reservoirs
- Parallel operation of two units
- Oil contamination measurement

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