

AHT95

Aircraft Ground Equipment



Technical specifications

Diesel driven, robust, compact, mobile, dual outlet dual inlet single pump (DODISP) aircraft hydraulics tester.

<i>Capacity</i>	0-75 l/min up to 230 bar, reduced flow up to 280 bar
<i>High-pressure pump drive</i>	Turbo-charged diesel engine, 45 kW at 2800 rpm
<i>Fluid specification</i>	MIL-H-5606, MIL-H-83282 or MIL-H-87257
<i>Fluid cleanliness level</i>	NAS 1638, class 5 or better
<i>High-pressure pump</i>	Axial piston, variable stroke, pressure controlled
<i>Boost pump</i>	Direct driven G-rotor pump
<i>Cooler</i>	Oil-to-air cooler
<i>Operating temperature</i>	-32 °C up to +49 °C
<i>Pressure & flow control</i>	Manually controlled valves / pump
<i>Indication</i>	Digital read-out for flow and temperature; manometers for pressure
<i>Fluid reservoir</i>	60 l; de-aeration with 0.6 bar abs. above reservoir level
<i>High-pressure filter</i>	2-micron outlet filtration, replaceable element
<i>Boost system filter</i>	3-micron filtration, replaceable element
<i>Piping</i>	High-pressure lines: stainless-steel Low-pressure lines: aluminium
<i>Outlet system</i>	Two pressure- and flow-controlled outlets
<i>Return system</i>	Two pressure-controlled inlets
<i>SIRLC</i>	Sun Internal Reservoir Level Control System
<i>SARLC</i>	Sun Aircraft Reservoir Level Control System
<i>External connections</i>	Two ½" pressure hoses Two ¾" return hoses
<i>Average noise level</i>	77 dB(A) with an extraction hose (measured at a distance of 1 m from the test stand)
<i>Dimensions (L x W x H)</i>	2150 x 1150 x 1360 mm
<i>Weight</i>	1450 kg
<i>Brake system</i>	4 wheel brake system, operated by means of towbar: additional hand brake (can be operated independent of towbar brake system)
<i>Cooling air</i>	main cooling airflow (engine + hydraulics) is not directed through the unit

Operation

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

SARLC

The AHT is equipped with the **Sun Aircraft Reservoir Level Control** system. This system controls the level of hydraulic fluid in the aircraft reservoir while running the tests, enabling continuous de-aeration, degassing, dehydration and filtration. This system supersedes a "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 (NAS Class 5 or better), de-aerate and dehydrate the aircraft hydraulic fluid.
- Drain, flush and refill the aircraft hydraulics system.

Options

- Calibration set TTS75.
- Teflon hoses.
- Higher pressure at reduced flow.
- AC reservoir selection.
- Sensor sets for SARLC system.
- Oil contamination measurement.