



AIRCRAFT HYDRAULIC GROUND SUPPORT EQUIPMENT

FH1420

UNIVERSEL WATER AND TOILET TEST STAND

The units which can be tested are in accordance with the following CMM:

CMM 38-37-10
CMM 38-38-10

The unit could be used on all other aircraft with water hydraulic characteristics complying with this HGTU



This ABC Universal water and waste components test stand for:

- ✦ Faucet
- ✦ Check valve
- ✦ Toilet assembly
- ✦ Waste drain valve

GENERAL TEST STAND CHARACTERISTIC:

- ✦ Hot water circuit and cold water circuit:
 - 5 l/mn
 - 0.5 Bar to 15 Bar
- ✦ Static water circuit:
 - 0.06 Bar to 1 Bar
- ✦ High pressure water circuit 5000 PSI
- ✦ Vacuum : -0.9 Bar
- ✦ Pneumatic circuit:
 - 0.06 Bar to 4 Bar
 - 4 CFM
- ✦ Electric Supply:
 - 5.1 kW, 60 Volts, 85 A, RS232 an RS485
 - 420W , 230 Volts

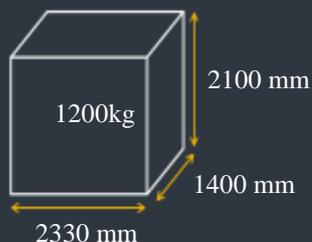


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OVERALL DIMENSIONS



Hydraulic hoses:

- 2 hoses (LP)
- 1 hose (BP)
- 1 hose draining

- Power supply cable: 5 meters (without plug)

OPERATING CONDITIONS

Operation temperature:
from +10°C to +40°C

Indoor use

Power supply: 3 x 400V, 50Hz,
+Ground (17.5 kW)
and 230 VAC - 50 Hz (4 kW)

Commands circuit upon 24V
(Safety voltage)

Water supply: 4 bar
Air supply : 6 bar

Main characteristics Hydraulic parameters

The chassis is made of a stainless steel material. Front and lateral doors allow an easy access for maintenance. All commands are positioned in a front stainless steel console.

The complete hydraulic system is mounted on a special stainless steel tray to collect possible leaks and thus help preserve the environment.

Standard accuracy (other upon request)

- ✦ Pressure display with pressure transducer : 0,4%
- ✦ Pressure gauge : Class 1 ($\pm 1\%$ of full scale)
- ✦ Visual flowmeter : Class 4 ($\pm 4\%$ of full scale)
- ✦ Sound Level : less than 80dba
- ✦ Voltmeter : $\pm 1\%$ of full scale
- ✦ Ammeter : $\pm 1\%$ of full scale
- ✦ Temperature display with temperature sensor : $\pm 1^\circ\text{C}$

Electric parameters

- ✦ 1 pressure digital display
- ✦ 2 current digital displays
 - 6A max protected with 6.3A
 - 60A max protected 63A fuse
- ✦ 2 voltage digital displays
 - Each : 50V protected with 20mA fuse
- ✦ 2 power supplies:
 - 5KW / 60V / 85A
 - 400W / 60V / 7A

- ✦ The test stand is used with Water network
- ✦ The test stand include several lines which enable to:
 - ✦ Supply UUTs with cold (4°C) or hot water (80°C) : (0.5 to 15bar @ 5l/min)
 - One reservoir with 10L of cold water
 - One reservoir with 10L of hot water
 - (use both lines in same time upon request)
 - ✦ Supply UUTs with water 0.06 to 1bar : without flow for static tests
 - ✦ Supply UUTs with air 0.06 to 1bar @ 4cfm
 - ✦ Supply UUTs with water @ 5000Psi max : without flow for static tests (with hand pump)
 - ✦ Supply vacuum on UUTs (0 to -0.9bar) : with 20L reservoir
 - ✦ Two possible connections :
 - SAE3000-2" 1/2
 - BSPP 1/2" Fitting
 - ✦ Supply UUTs with 30" Water column: without flow for static tests
 - ✦ Supply UUTs with Water network with manual needle valve
 - ✦ Supply UUTs with with air 0.16 to 4 Bar with Air network
 - ✦ One return line to cold or hot water reservoir
 - ✦ Direct return line to return water network
 - ✦ Two return line to Waste water reservoir
 - ✦ Two possible connections :
 - SAE3000-2" 1/2
 - BSPP 1/2" Fitting
 - ✦ Waste water reservoir 200l with automatic pump to empty the reservoir.

To order: FH1420

Options available (other upon request)



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