

F6001 Safe-Air Tester for Breathing-Air Systems



The F6001 is a new addition to Factair's range of Safe-Air Testers. This instrument enables breathing-air tests to be easily and quickly carried out without the need for any chemical reagent tubes, making the unit ideal for use in environments where glass products are not permitted. The unit supports a range of international standards and in the UK this ensures complete compliance with the relevant requirements of COSHH L5.

Mounted within a tough impact and weather resistant PELI case the F6001 can be powered by either 6 No AA batteries or a mains power adaptor which is supplied with the unit. The instrument is supplied as standard with the F3002 high pressure regulator assembly and connection hose. The F3002 incorporates a DIN connection to fit 200/300 bar cylinders.

The F6001 features a intuitive touch screen display, making air quality testing both easy and quick to complete, with a typical test taking approximately 18 minutes.

The breathing-air supply is subjected to an automatically controlled test against the requirements of EN12021 2014, or the alternative international standards available from the instrument's menu. The F6001 incorporates electronic cells for carbon monoxide, carbon dioxide, oxygen and a push button odour check facility. Moisture levels within the breathing air are measured by a dewpoint sensor, which is specially suited to sample air quality testing, ensuring an accurate moisture reading within the standard test time. The instrument then displays the result as both an atmospheric dewpoint and a concentration in mg/m^3 .

Oil measurements are completed using the Draeger Impactor, which is inserted into a test port on the instrument. The Impactor has no glass or hazard components and can test for all known synthetic and mineral oils. This port is also compatible with a range of additional Draeger chemical reagent tubes, with test times which can be programmed via the menu, to identify other potential contaminants.

The F6001 also has an operating mode which allows for extended tests with live sensor readings been displayed continuously.

Factair's quality accredited instrument workshop provides recalibration and servicing for the unit.



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At the end of each test, results can be stored within the F6001's memory and then retrieved on screen and downloaded, via a USB cable, to a PC. Each instrument is provided with PC compatible software which provides an easy way to retain and print test results.

Safe-Air Tester results download software

Test Info
 Test Date: 27 Apr 2016
 Tester Serial Number: 60009
 Tester Calibration Date: 09 Mar 2016
 Tester Model: F6000
 Test Category: Airline below 40 Bar
 Location: TEST POINT 1
 Oil: Impactor

Test Result
 Overall Result: Pass
 Next Test Due: 27 Apr 2016
 Name:
 Address:
 Load Default
 Save Default

Test Measurements	Reading	Pass/Fail	*Requirements/Notes
Ambient Temperature:	20°C	--	
Test Point Volume:	142 L/min	Pass	** Suitable for RPD
Test Pressure:	5.0 Bar	Pass	** Suitable for RPD
System Pressure:	5.0 Bar	--	
Odour:	OK	Pass	Without significant odour or taste
Oxygen (O2):	21.0 %	Pass	20 - 22% by volume
Carbon Monoxide (CO):	0.1 ppm	Pass	5ppm (5ml per m3) max
Carbon Dioxide (CO2):	199 ppm	Pass	500ppm (500ml per m3) max
Oil Mist:	0 - 0.1	Pass	Less than 0.5 mg/m3
Water Vapour:	2 mg/m3	--	
Pressure Dewpoint:	-54.4°C	Pass	Must be at least 5°C below ambient

Requirements according to BS EN12021 = *
 ** = If not applicable (N/A), then certificate covers air quality only.

Sample breathing-air test result certificate

SAFE-AIR



Test Date: 27 Apr 2016
 Tester Serial Number: 60009
 Tester Calibration Date: 09 Mar 2016
 Tester Model: F6000
 Test Category: High Pressure Cylinder below 200 Bar
 Location: BA CYLINDER 1
 Oil: Impactor

TEST	READING	RESULT	*REQUIREMENTS/NOTES
Ambient Temperature:	22°C	--	
Odour:	OK	Pass	Without significant odour or taste
Oxygen (O2):	21.1 %	Pass	20 - 22% by volume
Carbon Monoxide (CO):	0.0 ppm	Pass	5ppm (5ml per m3) max
Carbon Dioxide (CO2):	4 ppm	Pass	500ppm (500ml per m3) max
Oil Mist:	0 - 0.1	Pass	Less than 0.5 mg/m3
Water Vapour:	2 mg/m3	Pass	50 mg/m3 max
Atmospheric Dewpoint:	-69.3°C	--	

* = Requirements according to BS EN12021

Overall Result: Pass
 Next Test Due: 27 May 2016

SIGNED:
 Service Engineer
 Factair Ltd
 49 Boss Hall Road
 Ipswich
 IP1 5BN

Name: Service Engineer
 DATE: 27 Apr 2016

Model	Dimensions	Weight	Pressure	Power
F6001	210mm long x 215mm wide x 75mm high (excluding case)	1.6Kg	2-10 bar	6 AA batteries (non rechargeable) or 110-240V, 1ph 50/60Hz

Accessories



8103530
 Draeger Oil Impactor