

BREATHING AIR TESTING RESULTS FORM



CUSTOMER			
CONTACT NAME / EMAIL	Name:	email:	
JOB SHEET NUMBER			
EQUIPMENT LOCATION / FACILITY			
SYSTEM UNDER TEST	Compressor	Filtration	
	Dryer	Hoses	
AQT F6000 SERIAL NUMBER <i>*identify as applicable</i>	60013 <input type="checkbox"/>	60081 <input type="checkbox"/>	60113 <input type="checkbox"/>
FURTHER SITE DETAILS (IF APPLICABLE)			

Test Parameter	Results		Data recorded from	Pass	Fail
1. Ambient Temp		°C	Digital Display	<input type="checkbox"/>	<input type="checkbox"/>
2. System Pressure		Bar G	Digital Display	<input type="checkbox"/>	<input type="checkbox"/>
3. Oxygen %		%	Digital Display 20-22%	<input type="checkbox"/>	<input type="checkbox"/>
4. Carbon Monoxide		ppm	Digital Display	<input type="checkbox"/>	<input type="checkbox"/>
5. Carbon Dioxide		ppm	Digital Display	<input type="checkbox"/>	<input type="checkbox"/>
6. Oil Mist		mg/m ³	Draeger Impactor	<input type="checkbox"/>	<input type="checkbox"/>
7. Odour	Pass	Fail	Smell at outlet filter	<input type="checkbox"/>	<input type="checkbox"/>
8. Water vapour		mg/m ³	Only available when data downloaded	<input type="checkbox"/>	<input type="checkbox"/>
9. Pressure dewpoint		°C	Digital Display	<input type="checkbox"/>	<input type="checkbox"/>
10. Test point volume		L/min	Dependant on type of PPE (Note 3)	<input type="checkbox"/>	<input type="checkbox"/>

TEST ENGINEER	Print:	Sign:
TEST DATE & TIME	Date:	Time:
OVERALL RESULT <i>*identify as applicable</i>	PASS <input type="checkbox"/>	FAIL <input type="checkbox"/>
REMEDIAL ACTION REQUIRED BEFORE NEXT TEST		

Return this form to AEP Ltd for results to be processed and sent to Client.

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BREATHING AIR TESTING

RESULTS FORM

Notes

Note 1

Pressure dew-point should be at least 5°C below the lowest known operating temperature or -11°C if the lowest temperature is not known.

Note 2

These air test results reflect the quality of the breathing air at the time and place of testing. Air quality will vary continuously according to the compressor intake conditions and performance of the general compressed air purification system. Any purification system used should have a high margin of safety to account for variations in the quality of air delivered by the compressor. It is important to ensure that the condensate removal system is well maintained to ensure that condensate is drained safely and efficiently from the system. Bulk oil removal coalescing filters should also be checked regularly to ensure that high levels of compressor oil do not reach the breathing air purification unit as this will increase unit servicing costs.

Note 3

Set flowmeter for 160L/min flow when one breathing mask is being used
Add 160L/min for each additional mask that is used (max 5 masks due to flowmeter)

Pass Levels

Table A – Composition of Breathing Air

		Minimum	Maximum
Oxygen	Percentage	20.0%	22.0%
Carbon Monoxide	ppm	-	5
Carbon Dioxide	ppm	-	500
Oil Mist	mg/m ³	-	0.5
Odour		No Significant Odour	
Vapour Dewpoint	Calculated	5 below Ambient Air Temperature or -11 if not known	
Flowrate	Per Mask	160L/min	-
Water (Liquid)	There should be no free liquid water		

Table B – Water Vapour Content of High-Pressure Breathing Air

Nominal maximum supply pressure	Maximum water content of air at atmospheric pressure
40 to 200 bar	Less than or equal to 50mg m ³
Greater than 200 bar	Less than or equal to 35mg m ³
Compressors used for charging high pressure cylinders greater than 200 bar	Less than or equal to 25mg m ³

Associated Documents

- AQT Risk Assessment IMS-SD-RA-25
- AQT Method Statement IMS-SD-MS-12
- BS EN12021:2014 [HSE Breathing Air Standard - Revision 2 01/18](#)
- BCAS Fact Sheet 304-3

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