



Does your present air analysis program comply with the latest standard BS EN12021:1998?

If not, then let AQUATRON be your partner in meeting full compliance with this stringent standard.

Air Purity Criteria EN12021 (in brief)	
Oxygen	20-22%
CO	<15ml/m ²
CO ₂	<500ml/m ²
Oil Mist	<0.5mg/m ²
Odour/Taste	None
Contaminants	None*
Liquid Water	None
Water Vapour	<35mg/m ² **
* No concentration > 1/10 of assigned occupational exposure limit	
** For air above 200 bar	

Meeting the Standard

Until recently, most air purity analysis has been done using stain tubes. Whilst this is better than nothing there are a number of problems; the tests are subjective so cannot be calibrated to National Standards, measurement of oil contamination is extremely dubious when measuring the most commonly used synthetic oils, and in certain circumstances one contaminant can interfere with the tests for another. These alone are very relevant considerations, but much more important is the fact that these methods simply can not meet the requirements of the European Standard – EN12021. At AQUATRON we have developed the method to deal with this problem. The APA program will ensure full compliance with the new standard, conveniently and more importantly cost effectively.

Why do you need an accurate Air Purity Analysis of your breathing air?

Meeting the Standard

The European Standard BS EN12021:1998 became the UK National Standard in June 1999. Clause 6 of this standard supports the essential requirements of the EU Directive 89/686/EEC, in particular clauses 1.2.1.1, 2.8, 3.10.1 and 3.11 of Annex II of the Directive with reference to Breathing Air quality. In so far as the National Standard (BS4275:1997) is in some respects a tighter standard, under clause 6.2.1 the more stringent limits of the National Standard BS4275:1997 will apply.

The risks of non-compliance.

The EU Directive which applies to the quality of breathable compressed air now imposes a legal obligation on any person or firm supplying air for breathing purposes to test the air quality in compliance with the standard **EN12021:1998**.

The regulation which gave force to the directive is a statutory instrument 1992/3139. This has been in force since June 1995, although the standard EN12021 only came into force in June 1999. The Trading Standards Department of the Local Authority are tasked with the implementation of this standard and failure to comply could result in prosecution. In the event of any incident it would involve an investigation by the Health & Safety Executive and almost certainly result in litigation if it were found that there had been non-compliance with the essential requirements of the Directive.

The APA Program

1. Contact us by phone, fax or email. We will explain in non-technical language how to enrol in the program and conduct the simple sampling process.
2. As a valued client your breathing air sampling kit will be delivered to you at precisely scheduled intervals, controlled by our database. Your sampling kit comes to you in a sanitised, compact package with clear instructions and any necessary adaptors. Collecting a sample is simple, like filling a cylinder, and the APA kit is repacked with our FREEPOST return label for you to pop into the post.
3. The analysis is conducted using our FTIR spectrometer and gravimetric (micronic filtration) methodologies (guaranteed no colour change tubes involved!).
4. All the test results are recorded in our database for 7 years. This data is available to you to in the event substantiating evidence is required for agency approval or litigation.
5. Documentation is issued to you in the form of a computer generated analytical report with a certificate for you to display. If you require a quick response, results can be faxed or emailed.

What are the costs of compliance?

At present our costs for a full spectrum analysis to comply with both the current standards EN12021:1998 and BS4275:1997 are **£75* + VAT per test**. This cost covers everything including supplying a sample kit and transportation costs. The only additional cost would be a short ½ hour course to explain sampling technique and completing the analytic audit trail for your quality assurance requirements. * - Annual contracts, whether monthly, quarterly or bi-annual are subject to reductions in price.

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