

AIR QUALITY TESTING USING COLORIMETRIC DETECTION TUBES.

The Dräger Aerotest 5000 tests compressed air systems from 2.5 to 10 bar. The field of applications can be extended if used together with the optional F 3002 pressure reducer.

In addition, you can analyse the quality of pressurised air supplies of up to 300 bar.

By means of detection tubes, this device measures concentrations of CO, CO₂, O₂, water vapour, oil vapour and VOCs.

The new Dräger Oil Impactor has been specially designed to test and measure oil aerosols in compressed air. In addition to conventional oils, it can also easily detect synthetic oils, irrespective of their type or viscosity. The quantitative results are clearly and distinctly displayed.

The automatic system significantly improves ease of use. Menu-guided measuring and documentation are easier with the Aerotest 5000.



CARACTÉRISTIQUES TECHNIQUES :

▶ Power supply	Inlet : 100-240 , 47-63 Hz, 400 mA Outlet: 9V, 1,5A
▶ Battery	6 AA (Alkaline battery)
▶ Operating time	10 bars (300 bars max with pressure reducer)
▶ Pressure	+14°F to +113°F (-10 to +45°C)
▶ Operating temperature	-4°F to +122°F (-20 to +50°C)
▶ Storage temperature	18.5 x 7.1 x 14.1 in. (47 x 18 x 36 cm)
▶ Weight	15.5 lbs (7.5 kg)



AEROTEST TEST TUBES



AEROTEST OIL IMPACTOR



DID YOU KNOW ?

BREATHING AIR QUALITY STANDARDS FOR RESPIRATORY PROTECTIVE DEVICES

In an industrial setting, if workers are equipped with respiratory protective devices (masks, hoods, diving apparatus, etc.) supplied by a compressed air system, the limits set out by this standard must be adhered to.

The main requirements are given in the table below:

POLLUTANT	PRESCRIPTION
▶ Oxygen	21% (± 1%)
▶ Impurities	< exposure limit
▶ Lubricants	0,5 mg/m ³
▶ Smell and taste	None
▶ Carbon dioxide CO ₂	500 ppm
▶ Carbon monoxide CO	15 ppm
▶ Moisture content ^(*)	Dew point <5°C at room temperature Lowest expected

(*) There must be no presence of liquid water or risk of frost. If the conditions of use are not known, the dew point of the installation must not exceed - 11°C.

You can see that a 'simple' filtration system, such as pre-filter + air/oil separator + activated carbon, is not sufficient to produce breathing air.

A complete system which processes toxic gases such as CO and CO₂ is needed to comply with this standard and prevent any accidents, which can, in the most serious cases, be deadly.