COMPRESSED AIR QUALITY

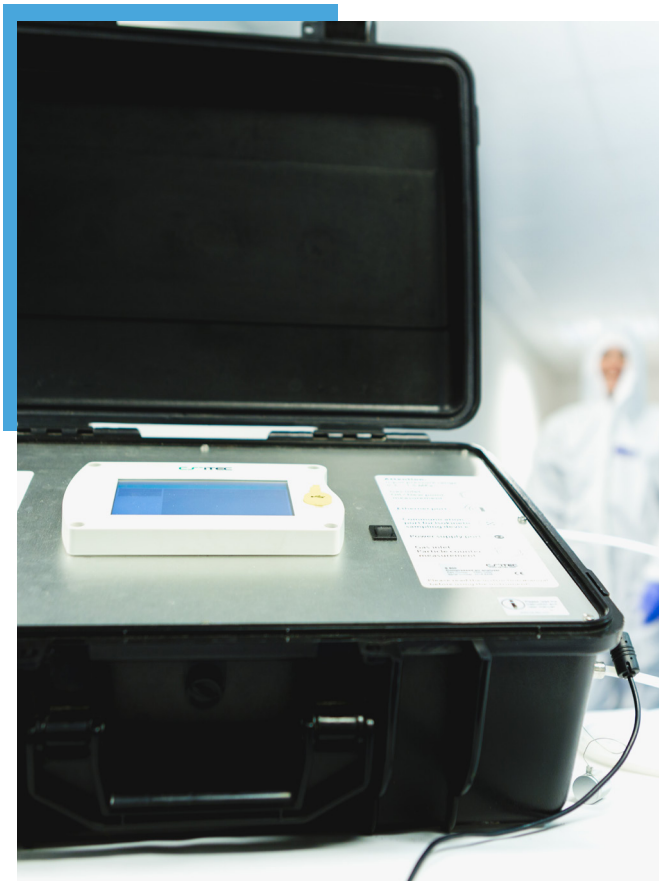
In some applications the quality of the air is extremely important. If the compressed air system has not been designed for your specific requirements, it has potential to cause major problems to product quality and operating expenses.

Does air come into contact with your product?

Compressed air can come into direct, or indirect contact with the product. All oil injected compressors will pass an amount of oil downstream.

ISO 8573-1 2010 is the recognised international standard for the classification of contaminants.

ISO 8573-1 lists the main contaminants such as Solid Particulate, Water and Oil (in the form of aerosol and vapour).



Direct Air & Pipework can measure compressed air to ISO 8573-1 class 1 of the ISO standards.

We look after many of the UK's leading food, beverage and pharmaceutical companies and can assist in this matter.

In order to be compliant with industry standards, the quality of your compressed air should be considered as part of the hazard analysis and critical control point (HACCP) activity.

At Direct Air, we offer advice about your current compressed air system and provide quality solutions to ensure you achieve the air quality your business requires.

What quality of air do you require?

ISO 8573 Testing

Direct Air's testing equipment measures, records and validates quality parameters including particles, dew point, oil vapour content, temperature and the pressure of compressed air systems.

Measurement methods according to ISO 8573 standards. Particle measurement from 0.1 < d ≤ 0.5 µm, 0.5 < d ≤ 1.0 µ m, 1.0 < d ≤ 5.0 µm

Dew point measurement from -100° ... +20° C Td, which is well below the class 1 for Moisture of -70c.

ISO 8573 requirement, which allows the compressed air particulate contamination to be measured and classified as low as class 1 particulate.

The readings provide a comprehensive test data sheet with classification findings, suitable for audits.

ISO8573-1:2010 CLASS	Solid Particulate				Water		Oil
	Maximum number of particulates per m^3			Mass Concentration mg/m^3	Vapour Pressure Dewpoint	Liquid g/m^3	Total Oil (aerosol liquid and vapour) mg/m^3
	0.1 - 0.5 micron	0.5 - 1 micron	1 - 5 micron				
0	As specified by the equipment user or supplier and more stingent than Class 1						
1	≤ 20,000	≤ 400	≤ 10	-	≤ -70°C	-	0.01
2	≤ 400,000	≤ 6,000	≤ 100	-	≤ -40°C	-	0.1
3	-	≤ 90,000	≤ 1,000	-	≤ -20°C	-	1
4	-	-	≤ 10,000	-	≤ +3°C	-	5
5	-	-	≤ 100,000	-	≤ 7°C	-	-
6	-	-	-	≤ 5	≤ -10°C	-	-
7	-	-	-	5 - 10	-	≤ 0.5	-
8	-	-	-	-	-	0.5 - 5	-
9	-	-	-	-	-	5 - 10	-
X	-	-	-	> 10	-	> 10	10

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