## Technical Reference to ISO standard 8573.1 compressed air treatment systems

Global Leader In Efficiently Treating Compressed Air



# A Global Unit of Measure for Compressed Air

ISO 8573.1 was developed in 1992 by ISO (International Organization for Standardization) to help plant engineers specify desired compressed air quality globally by providing "Quality Classes" for solid particulates, humidity and oil. Quality classes provide engineers with an internationally accepted unit of measure. A typical pharmaceutical plant, for example, would have a compressed air specification of ISO Quality Classes 1.2.1. This is equivalent to 0.1 micron particulate filtration, -40°F (-40°C) dew point, and 0.008 ppm (0.01 mg/m<sup>3</sup>) oil filtration.

No matter what language is spoken and what unit of measure is used, using ISO 8573.1 Air Quality Classes ensures that your factory will get the compressed air quality you specified.

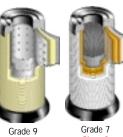
| Solids<br>max. particle<br>size in microns | Moisture<br>Dew Point<br>℃ °F   |  |  | Dil<br>& Gas<br>ppm <sub>w/w</sub>  |
|--|---|--|--|---|
| as specified                               | as specified  |  | as specified   |   |
| 0.1  | -70   | -94  | 0.01   | 0.008   |
| 1  | -40   | -40  | 0.1  | 0.08  |
| 5  | -20   | -4   | 1  | 0.8   |
| 15   | 3   | 38   | 5  | 4   |
| 40   | 7   | 45   | >5   | >4  |
| -  | 10  | 50   | -  | -   |
|  | max. particle<br>size in microns<br>as specified<br>0.1<br>1<br>5<br>15 | max. particle<br>size in micronsDew<br>°Cas specifiedas sp0.1-701-405-20153407 | max. particle<br>size in micronsDew Point<br>°Cas specifiedas specified0.1 $-70$ 1 $-40$ 5 $-20$ 15 $3$ 40 $7$ | max. particle<br>size in micronsDew Point<br>$^{\circ}C$ Liquid<br>mg/m3as specifiedas specifiedas specified0.1-70-940.011-40-400.15-20-4115338540745>5 |

#### ISO 8573.1 Quality Classes

## SOLID PARTICULATE FILTRATION

Solid particulates are common in compressed air systems since dusty, contaminated ambient air is what enters the compressor intake manifold. Pipe scaling downstream is also a major contributor.

**HANKISON** Grade 9 and Grade 7 elements provide 3 and 1 micron filtration.



Class 3

Class 2

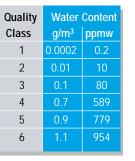


HF Series Filters

### DRYING

All compressed air applications require different dew points. Specify the ISO Quality Class you require & then select your dryer type.





@100 psig, 7 barg

HIT Series Refrigerated Dryers Class 6

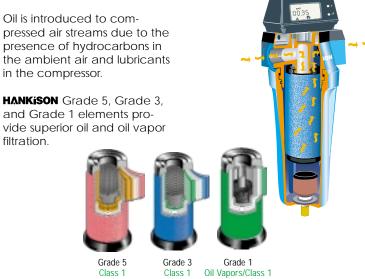




HMD Series Membrane Dryers Class 2 - 5 TANKISON

DH, DHW, DBP Series Heatless and Heated Desiccant Dryers Class 1 - 2





#### Typical Air Treatment Systems

Design a system to provide the air quality your application requires

