



DENHOLM MACNAMEE LIMITED  
PLANT HIRE DIVISION

Greenbank Place, East Tullos Industrial Estate, Aberdeen AB12 3BT  
Telephone: +44 (0)1224 248600

## DZ/DOS ALG 10 Breathing Air Unit

### Product description:

The ultrapure® breathing air systems ALG 35 S – 375 S are desiccant type purification systems to supply breathing air in excess of all relevant international standards and medical prescriptions.

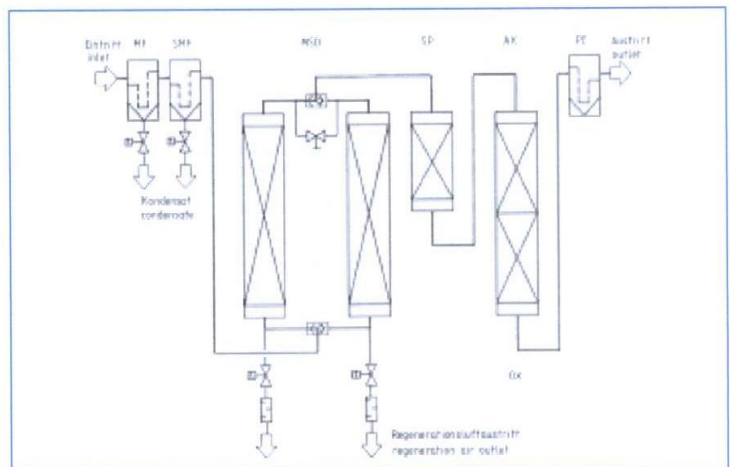
The purification consists of seven stages:  
A two-stage prefiltrration with a microfilter **MF** and a submicrofilter **SMF** removes water, oil (liquid stage) and solid particles larger than 0.01 µm. The remaining oil content after the prefiltrration is less than 0.01 mg/m<sup>3</sup>.

The following **desiccant dryer** reduces the water vapour content of the compressed air down to a pressure dew point of -40 °C (equivalent to a remaining water content of 0.11 g/m<sup>3</sup>).

The CO<sub>2</sub>-content is adsorbed to a level far below 300 ppm by a special grade molecular sieve adsorber (**SP-stage**), before the air is led through a deep bed filling of activated carbon (**AK**) to adsorb still present oil vapours and hydrocarbons to a level below 0.003 mg/m<sup>3</sup>.

The following deep bed filling of a catalyst (**OX-stage**) converts CO into CO<sub>2</sub> and thereby reduces the carbon monoxide level down below 1 ppm.

The final particle filter **PE** removes all particles which might be carried over from the adsorption and/or catalyst stages.



### Applications:

The ultrapure® Breathing Air Systems ALG 35 S – 375 S have been designed and developed for the following applications, e.g.:

- Hospitals
- Medical emergency institutions
- Paint industry/lacquer works
- Chemical industry
- Nuclear plants
- Mining industry
- Restoration works (e.g. asbestos recycling)
- Cleaning works