

## PRESEC FILTER CONTROL

**with automatic control of cartridge saturation  
regenerating air volume up to 2000 m<sup>3</sup> (1110 BA-cylinders 6 lit/300 bar)**



### COMP TRADE AUSTRIA

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## PRESEC SIGNALLING DEVICE

### General Description of Functions and Instructions

Compliance with breathing air quality and thus dryness of the air is essential for the safety of the diver or the fire-fighter.

However, air quality will only be as good as the maintenance of the filter systems and the timely exchange of cartridges.

In all breathing-air Compressors, the useful life of the cartridges is specified as operating hours of the compressor or as the number of the breathing-air bottles to be filled or as the treatable maximum quantity of air.

**However, all specifications are related to a standard ambient air temperature of 20°C. With higher temperatures, the useful life of the filter cartridges is reduced considerably.**

E.g., if a filter has a useful life of the cartridge of 25 operating hours at 20°C ambient temperature, this will be only half in case of an increase of 10°C, that means 14,25 operating hours.

The useful life changes depending on the ambient air temperature as set forth in the table below:

C	F	Correction Factor
50	122	0.2
40	104	0.34
30	86	0.57
20	68	1
10	50	1.85
5	41	2.6
0	32	3.8

Since it is nearly impossible to measure these different temperatures and exactly determine the precise useful life or the saturation period of the cartridge

COMP -TRADE has developed an automatic monitoring system of the degree of saturation of the cartridge i.e. the **PRESEC SYSTEM**.

This system is used to automatically check the condition of the cartridge, its approaching of the saturated condition, and in the event of saturation the compressor will be turned off. This helps ensure that only properly dry air may get into the breathing-air bottles.

The PRESEC SYSTEMS may be mounted directly on the COMP - TRADE Compressor in the factory, or be mounted on a console and connected at the downstream end of each compressor system.

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