KrinnAir NITROX membrane systems

Art.Nr.: HA100018

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The fully automatic, internally piped and wired Nitrox compact system has a defined operating mode which was not technically possible until now. In particular, the combination of the compressed air heating with the associated control and the prior drying by means of a cold dryer can, on the one hand, enable extremely reliable drying of the compressed air and, on the other hand, the operating point with regard to pressure and temperature can be optimized for the oxygen membrane.

The compressed air is filtered using 4 high-performance filters. Super-large filter surfaces as well as an activated carbon filter with active charcoal filter and integrated particle filter allow a service life of 500 operating hours. The filter elements are validated and certified according to quality standards ISO 12.500-1: 2007.

The use of this KrinnAir Nitrox system is universal. Virtually complete independence from ambient conditions such as temperature and humidity. In addition, a defined state of the compressed air entering the diaphragm can be ensured, despite severe fluctuations of the ambient conditions. This results in an increase in the overall efficiency of the device in relation to the nitrox supply quantity and simultaneously increases the service life of the compact system.

A novel control system ensures that a loading and unloading operation as well as compressed air fluctuations of the connected screw compressor are avoided. This increases the life of the screw compressor and reduces the wear to a minimum. An additional compressed air tank is not required. Furthermore, the new design allows the production of the guaranteed compressed air quality according to ISO 8573-1 1.4.1. For the reliable operation of the diaphragm system. The operating conditions with respect to air quality, temperature and pressure at the inlet of the diaphragm are applied exactly and

independently of the ambient conditions.

Technical specifications

Terms of Reference:

Suction pressure: 1 bar
Ambient temperature: 30 ° C
Relative humidity: 60%

NITROX 32%
Volume flow approx. 150 - 900 liters / min
Compressed air requirement approx. 490 - 2000 liters / min

NITROX 36%
Volume flow approx. 150 - 900 liters / min
Compressed air requirement approx. 490 - 3300 liters / min

NITROX 40%
Volume flow approx. 150 - 600 liters / min
Compressed air requirement approx. 490 - 3300 liters / min

Available membrane systems:

MODEL BLUELINE

Delivery:
- Functional and modern housing for basic installation
- Powder coated steel housing
- Connections of compressed air, nitrox line in hose design
- Volume flow control with overflow valve and compensating tank
- 4-stage filtration with automatic steam trap
- Integrated cold dryer with electronic steam trap
- Compressed air heating with automatic temperature control and monitoring
- oxygen membrane for nitrox gas generation
- Operating pressure and nitrox regulator with pressure gauge
- Oxygen controller with sensor
- Maintenance-friendly housing with detachable doors
- Integrated electrical cabinet complete wired IP54
- Operation and fault message,

- Optional: condensate preparation with additional connection for compressor condensate
- Optional: remote ON / OFF and compressor control

MODEL BASIC

Delivery:
- Functional and modern housing for basic installation
- Stainless steel version
- Piping of the compressed air, nitrox pipe in galvanized steel
- Volume flow control with overflow valve and compensating tank
- 4-stage filtration with automatic steam trap
- Integrated cold dryer with electronic steam trap
- Compressed air heating with automatic temperature control and monitoring
- oxygen membrane for nitrox gas generation
- Operating pressure and nitrox regulator with pres

Specification

Volume: cc

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