



Intelligent Air Dryer



Intelligent Air Dryer is a new generation of efficient air dryers that combines compact size with intelligent control and monitoring features: The intelligent control system varies desiccant regeneration according to requirements, saving air – and therefore also energy.

CUSTOMER BENEFITS

- Compact, lightweight modular design
- Diagnosis with continuous monitoring of air dryer condition
- Optimized closed-loop regeneration minimizes air losses and provides energy savings
- Low noise emission
- Wide operating temperature range
- Designed for oil-free compressors as well as for oil-lubricated conventional compressor technology

APPLICATIONS

- High-speed trains
- Locomotives
- Metros
- Passenger cars
- Regional & Commuter Trains
- Special Vehicles

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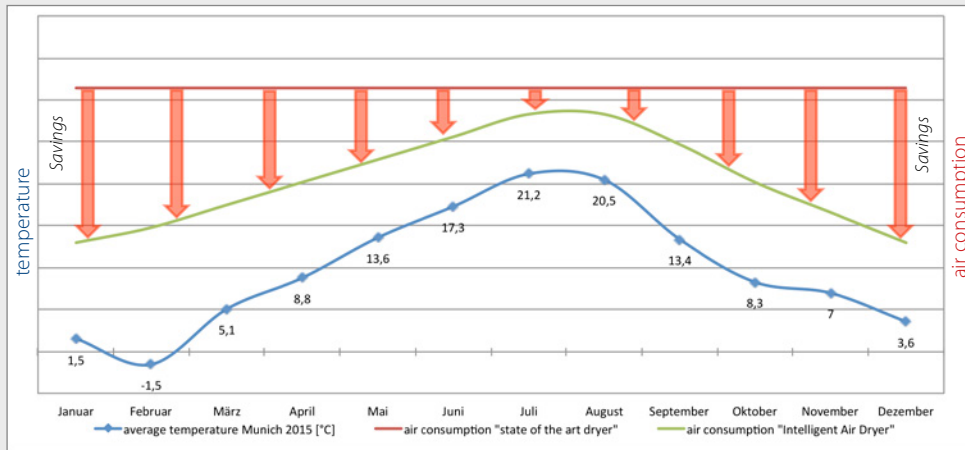
STATE OF THE ART AIR DRYER WITH CONTINUOUS REGENERATION

- Air's ability to hold water increases exponentially with the temperature
- State of the art air dryers are designed to handle maximum water loading at all inlet conditions

INTELLIGENT AIR DRYER WITH WATER LOADING AND TEMPERATURE DEPENDENT REGENERATION

- Ambient temperature and thus the water loading varies over the day, year and with the situation
- Intelligent control of regeneration will ensure regeneration air losses are proportional to the water loading present and not the dryers maximum rated capacity
- Saving air – and therefore energy

ENERGY SAVING WITH INTELLIGENT AIR DRYER



INLET AIR

Pressure 0-12 bar
 Temperature -40 °C – +70 °C
 Air flow from 400l/min–3500l/min*

OUTLET AIR

Air quality ISO8573-1: 2010
 Particles: Class 2
 Water: Class 2, Oil: Class 2,
 up to -60 °C dew point suppression at 10 bar and 35 °C

KEY FEATURES

- High efficiency air treatment system with pre-filtration for bulk water, oil and particles
- Minimized air losses as well as longer component life due to fewer valve operation cycles, both as a result of intelligent regeneration control
- Two stage (standard) and three stage (option) pre-filtration possible
- Significant reduced height as precursor dryer range (e.g. for VV90-T with LTZ015.0, 24% height reduction)
- Advanced diagnostics optional available
- Withstands compressor pulsations

*different sizes

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