

# AIR TREATMENT & CONDENSATE TECHNOLOGY DRYER

## COMPACT KRYOSEC Refrigeration Dryers

up to 4.5 m<sup>3</sup>/min



### Sturdy space-savers for optimal moisture protection in all load phases

KRYOSEC compact refrigeration dryers\* deliver outstanding performance with "Made in Germany" industrial quality and reliable moisture protection in ambient temperatures up to +50 °C. Lower pressure loss thanks to the stainless steel heat exchanger system and low-maintenance design ensures economical operation. Thanks to their compact design, they're always a great fit directly where they're needed – under machine stages, work platforms or even mounted on the wall (TAH series).

- Reliably dry compressed air from 0.35 to 4.5 m<sup>3</sup>/min.
- Working pressure up to 16 bar.
- Options: ECO-DRAIN electronic condensate drain and/or electronic thermostat for pressure dew point warnings – both with floating alarm contacts.

### Advantages

#### Reliable moisture protection:

- KRYOSEC dryers use a high quality heat exchanger system with stainless steel plates to dry the moist compressed air. Accumulating condensate is efficiently separated at all operating phases via the integrated separator, whilst the ECO DRAIN electronic condensate drain ensures reliable condensate removal without pressure loss.

#### Excellent performance in high ambient temperatures:

- KRYOSEC dryers ensure reliable drying even under the most demanding of operating conditions. Together with defined cooling air flow, the combination of generously dimensioned heat exchanger and refrigerant condenser surfaces further helps to enhance performance..

#### Standard-compliant industrial quality:

- KRYOSEC dryers meet machine safety requirements in accordance with EN 60204-1. Safety features include a lockable ON/OFF switch as well as a mains isolation device. High-quality manufacturing and compact design make them ideal for use within a rational decentralised installation strategy – such as adjacent to production and processing machines that require compressed air treated to high purity classes.

### Product details

#### Refrigerant circuit:

- Refrigerant circuit consisting of reciprocating compressor.
- Fan-condenser assembly.
- Filter / dryer.
- Capillary tubes.
- Insulated air/air and air/refrigerant heat exchangers with integrated stainless steel (copper soldered) condensate separators.
- Hot gas bypass controller.

#### Condensate drainage:

- ECO-DRAIN 30 electronically-controlled condensate drain with tap on the condensate inlet, incl. cold surface insulation

#### Electrical equipment and displays:

- Mechanical dew point trend display
- Electric equipment to EN 60204-1: lockable main switch with integrated mains isolation device

#### Enclosure:

- Powder-coated unit enclosure with removable hood and machine mounts
- Prepared for wall mounting (only TAH series)

#### Connections:

- Design includes strain-relieved main connector cable (without plug)
- Internally wired
- Bulkhead pipe fitting for external condensate drain connection

#### Documentation:

- Includes operating manual and CE marking (EU version)

#### Optional: "Pressure dew point warning" floating contact:

- Electronic thermostat with floating output terminal
- Mounted inside the unit, ready for operation
- Signal can be picked up on-site directly at the output
- Associated upper and lower switching thresholds configurable

#### Optional: Condensate drain, incl. floating contact:

- Alternatively equipped with ECO-DRAIN 31 electronic condensate drain with floating alarm contact
- Signal can be picked up directly on the drain