

# AIR TREATMENT & CONDENSATE TECHNOLOGY DRYER

## Energy Saving Refrigeration Dryers

37.5 - 90.0 m<sup>3</sup>/min



### High-flow units designed for continuous operation – and cost reduction

Kaeser TH - TI series refrigeration dryers are designed for continuous operation and allow operators of larger compressed air stations to take advantage of unimaginable energy savings. The dryer system not only features extremely low differential pressure, it also employs an innovative refrigerant compressor that continuously adjusts its power consumption: when air flow falls, so does power consumption!

- Reliably dry compressed air from 0.35 to 4.5 m<sup>3</sup>/min.
- Reliably dry compressed air from 37.5 to 90 m<sup>3</sup>/min.
- For working pressures up to 16 bar.
- Air-cooling or water-cooling.
- Optional FE microfilter for extremely high air purity.

### Advantages

#### Huge savings in partial-load operation:

- Depending on the temperature to which compressed air is cooled, a cycled solenoid valve varies the size of the compression chamber of the refrigeration compressor, which consumes correspondingly less power in partial-load operation.

#### Extremely low differential pressure:

- Generously dimensioned stainless steel plate-type heat exchangers ensure optimal differential pressure values, thereby further enhancing the energy efficiency of the system.

#### Industrial quality control cabinet:

- Kaeser energy-saving refrigeration dryers are produced to EN 60204-1 and tested for electromagnetic compatibility according to the German EMC Act (EMVG). In contrast to equipment that is only tested to VDE 0700, they are designed to meet the high-test requirements of industrial processes.

### Product details

#### Design:

- Tower design with removable side panels.
- Powder-coated enclosure panels.
- All materials are CFC-free.
- All cold unit parts are insulated.
- Integrated control cabinet with electronic controller.
- Air/air and air/refrigerant stainless steel plate-type heat exchangers.
- Internal compressed air pipework made of copper.
- Condensate drainage system.
- Electronic condensate drain.
- Compressed air connections on top.
- Delivered filled with refrigerant and oil.

#### Control panel:

- Energy savings are displayed
- Current compressed air flow rate and pressure dew point
- Two-line clear text display
- Three LED status indicators
- Ten selectable languages
- ON/OFF button
- Test button for electronic condensate drain
- Three programming keys for timer
- Reset key
- Main switch

#### Refrigerant circuit:

- Hermetically sealed refrigerant circuit
- Scroll refrigerant compressor with refrigerant compression only as needed

#### Stainless steel heat exchanger:

- The air/air and air/refrigerant heat exchangers are manufactured from premium quality stainless steel to ensure long service life and minimal maintenance requirements.

#### Options:

- Integrated FE microfilter in stainless steel housing arranged downstream from the separator at the coldest point
- Version with water-cooled refrigerant condenser
- Further language modules
- Profibus converter
- Pressure dew point monitoring