

AIR TREATMENT & CONDENSATE TECHNOLOGY

CONDENSATE DRAIN

ECO-DRAIN electronic condensate drain.



Zero compressed air losses

Condensate drains remove condensate separated in centrifugal separators, air receivers, refrigeration dryers and filters from the compressed air system. They are therefore indispensable components for efficient compressed air treatment and disruption-free compressed air supply.

ECO-DRAIN electronic condensate drains from Kaeser are highly cost-effective and reliable. This is attributable to a control concept that works independently of condensate volume, dirt-resistant valve mechanics and a network-capable alarm contact (from model 31 and higher).

ECO-DRAIN condensate drains are available for compressor flow rates up to 1700 m³/min. Kaeser also offers suitable product versions for special applications, such as aggressive condensate, working pressures up to 63 bar, as well as in vacuums or frost regions.

Advantages

Zero compressed air loss:

- When the ECO-DRAIN's capacitive level sensor reports attainment of the maximum condensate level, its intelligent control electronics open and close the valve diaphragm at precisely the right times – discharging collected condensate with zero compressed air loss – which, of course, saves energy.

Reliable drainage – even in soiled conditions:

- The capacitive level sensor detects condensate fill level without failure-prone mechanical parts. The pilot lines to the valves always remain free of dirt. Furthermore, the use of an upstream diaphragm valve provides a remarkably large diameter. All of these features combine to deliver reliable drainage even in highly soiled conditions or with pure oil.

Straightforward maintenance – no specialist required:

- The service unit for models 30, 31 and 32 supplies all maintenance parts in a single assembly. It can be locked in position and docked to the control unit with a "click", preventing seal replacement errors. The service unit is 100% functionally tested before delivery, provides significantly longer use intervals and can be replaced without an electronics specialist.

Design

- Condensate inlet
- Collection chamber
- Level sensor
- Solenoid valve
- Valve diaphragm
- Balance line
- Valve seat
- Discharge line

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