



Heat-regenerating adsorption dryer CALOSEC

Versatile, efficient and intelligent. The CALOSEC series adsorption dryers from KAESER Kompressoren impress with their versatile system design, which provides the most efficient solution for every application. CALOSEC CONTROL, an intelligent controller, ensures reliable operation through comprehensive system monitoring. This makes the CALOSEC dryers ideal system components for compressed air supplies that require low pressure dew points. Even in highly demanding compressed air applications, such as in the optics, electronics and pharmaceutical industries, they enable extremely reliable and energy-saving overall solutions.

Versatile

With the **Blower Purge (CSP)**, **Zero Purge (CSA)** and **Closed Loop (CSL)** drying processes, the CALOSEC dryers offer the ideal solution for a wide range of requirements in terms of energy requirements, ambient climate and pressure dew point.

The CSP series achieves **stable pressure dew points** down to **-40°C** through compressed air cooling, while the premium CSA series achieves this even in temperate climates without the need for compressed air. The water-cooled **CSL series** does not require compressed air even in tropical climates and can even dry at **pressure dew points down to -70°C**.

Efficient in every respect

CALOSEC dryers are characterized by **high-quality basic equipment**, including a separate electrical and pneumatic control cabinet, end position-monitored flaps at the compressed air inlet and high-temperature galvanized compressed air piping. Individual flaps minimize pressure loss and enable smooth parallel operation, reducing pressure dew point and temperature peaks when switching vessels to a minimum. The two-part housing simplifies maintenance, and the **CSA and CSL series** use the particularly **energy-efficient desiccant SILICAGEL ECO**.

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Intelligently controlled

As standard, the CALOSEC dryers have a **loaded-dependent pressure dew point control**, which is implemented by a high-quality pressure dew sensor. The CALOSEC CONTROL with 7" touch color display ensures a smooth process flow and offers comprehensive system monitoring. It is equipped with a TCP (Ethernet) mode interface for connection to higher-level controls or future integration into the KAESER SIGMA NETWORK.

Drying process for tailor-made solutions

The CALOSEC dryers offer a variety of drying processes to ensure the most efficient solution for every application. The proven process technology in conjunction with the most modern control technology characterizes the **three flexible basic concepts** of the CSP, CSA and CSL series, which can be used in all climate zones worldwide. The standard series are available in 17 performances levels, with higher volume flows also being upon customer request.

SERIES CSP

Universally applicable with compressed air cooling. In this series, desorption occurs in the **opposite direction to adsorption** using heated ambient air. Cooling is carried out by a relaxed partial flow from the dried compressed air stream.

SERIES CSA(-V)

In the high-quality CALOSEC CSA(-V) Premium series, desorption takes place **in countercurrent to the adsorption direction using heated ambient air**. Cooling, on the other hand, takes place parallel to the adsorption direction through ambient air. This configuration results in no pressure loss during regeneration (zero purge). The use of the zero purge process depends on the dew point of the environment and can be used up to a maximum value. In contrast to conventional zero-purge dryers, the CALOSEC CSA(-V) series with AMBIENT CONTROL can be used reliably even in phases with higher ambient dew points.

SERIES CSL(-V)

In the water-cooled CALOSEC CSL(-V) series, desorption occurs **in countercurrent to the adsorption direction using heated forced air**. Cooling, on the other hand, takes place parallel to the adsorption direction using forced air in a closed cooling circuit (loop). This configuration allows for an independent cooling phase that is not affected by ambient conditions. This means that stable pressure dew points down to -70°C can be achieved. The CALOSEC CSL(-V) series can be used in all climate zones worldwide, and no compressed air is required for the cooling phase (zero purge).



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Picture source: KAESER Kompressoren SE

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