

FSG with i.HOC:

Efficient drying – oil-free

The Kaeser i.HOC is the epitome of efficiency and reliability. The integrated rotary dryer for screw compressors provides a reliable, steady supply of oil-free compressed air, with pressure dew points of up to minus 30 °C, even under unfavourable conditions. It even saves energy for good measure. Combined with the largest range of oil-free rotary screw compressors, the FSG series, the product line is now complete.

With its patented i.HOC (integrated heat of compression dryer), Kaeser has succeeded in launching a desiccant dryer that utilises 100% of the available hot compressed air from the second compression stage to directly regenerate its desiccant. The advantages of this full-flow regeneration make the i.HOC particularly efficient and streets ahead of the competition. This guarantees stable pressure dew points, even in unfavourable conditions, such as low final discharge pressure, high ambient temperatures or reduced utilisation. The integrated Sigma Control 2 controller also adjusts the i.HOC to any change in operating conditions, for example variations in compressed air flow, working pressure or ambient temperature.

Dew point regulation ensures stable pressure dew points

For particularly sensitive compressed air applications, Kaeser offers optional pressure dew point regulation for all FSG series, oil-free rotary screw compressors with an integrated i.HOC. Should the cooling conditions deteriorate, perhaps due to rising ambient temperatures, the dew point regulation registers the resulting pressure dew point increase and boosts the dryer's regeneration potential accordingly. This ensures that the pressure dew point is optimised. Thus, the dew point regulation is ideal for air cooled compressors. It offsets the daily and seasonal fluctuations in the cooling air temperature, thereby achieving constant pressure dew points.

Three in one – compressor, compressed air dryer and heater

Apart from the i.HOC, the water-cooled FSG boasts a highly efficient, integrated heat recovery system, which helps to use the available compression heat twice: once in the i.HOC to dry the compressed air and again via the integrated heat recovery to heat process or hot water up to 90°C. An automatic, fail-safe cooling system protects the compressor – and thus the compressed air supply – from excessively high water temperatures.

Savings have never been easier

The highly integrated design of the FSG i.HOC saves both space und costs for an external dryer pipework, without compromising on access for service technicians. Saving money has never been easier.

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2,618 keystrokes - Free for publication, copy appreciated

Caption:



The dry-running, FSG series screw compressor with the new, integrated i.HOC rotary dryer provides a reliable, stable supply of compressed air and achieves pressure dew points of up to minus 30° C, while saving both energy and space.