

Innovative, intelligent, integrated - the new i.HOC compressed air dryer as an integrated component of a DSG series dry-running rotary screw compressor.

The new integrated rotation dryer for Kaeser dry-running rotary screw compressors reliably delivers compressed air with pressure dew points down to -30 °C, all while saving energy. This compressed air dryer was specially developed for integration into Kaeser dry-running rotary screw compressors.

urated with moisture, the i.HOC rotation dryer uses all hot compressed air ing only a partial stream. The advantag-

To regenerate the desiccant when sat- of the cooling medium start rising. The compressed air flows axially through the silica gel used as the desiccant. Kaeser produced by the second compression rotation dryers achieve outstanding drystage, which is more effective than us- ing results, without further heating the regeneration air using electricity. In the es of full-flow regeneration become evi- i.HOC process ("integrated heat of comdent above all when the temperatures pression") the necessary heat is avail-

able free of charge. The patented Kaeser process also ensures pressure dew point stability, even with variable free air deliveries and compressors running at partial load. During commissioning, the required pressure dew point is reached and remains stable after only one drum revolution. The speed of rotation is automatically adjusted to the current operating situation of the compressor in order to ensure optimal desiccant regeneration – the basis for reliable maintenance of low pressure dew points down to -30 °C. Dryer efficiency always depends on differential pressure: pressure losses in the dryer must usually be countered by increasing pressure in the compressor, which requires a great deal of

energy. Not so for the i.HOC dryer: the radial blower in the base of the rotation dryer equalises any pressure losses incurred during the drying process, as needed. This guarantees maximum quality and stability of the pressure dew point.

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