

# Press Release

## Water-cooled 600-kW compressor motor

Menzel Elektromotoren has supplied a specifically configured modular slipring motor from its MEBSSW range to drive a reciprocating compressor operating in a dusty atmosphere at high ambient temperatures. In addition to implementing IP55 ingress protection and cooling type IC 81W (air-to-water heat exchanger), Menzel mounted two oil coolers directly on the motor housing for re-cooling of the sleeve bearings. The German motor manufacturer worked closely with a longstanding customer to understand existing site issues. The 600-kW motor is intended to replace an air-cooled motor featuring a lower protection class, IP23. Due to the new totally enclosed air circuit (CACW), there will be no more problems with small particle dust or dirt inside the motor, ensuring higher operational availability at ambient temperatures well over 40 °C. The new motor has an operating voltage of 3000 V and a rated speed of 491 rpm. It offers superior reliability, higher efficiency, low noise emissions along with lower operating and maintenance costs at a compact frame size and low weight. Menzel's range of modular slipring motors enables quick application-specific adaptation of cooling and protection types and flexible fitting of various extras, as required. The company has also configured this motor to match the electrical and mechanical interfaces of the existing motor to ensure speedy installation without modifications on site. The customer is one of the leading Italian chemical companies producing a full range of industrial gases. Menzel builds industrial motors up to 20 MW in a wide range of designs. More information about customized motors is available at <https://www.menzel-motors.com/modification/>.



**Caption:** The water-cooled motor for driving a reciprocating compressor withstands high ambient temperatures

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#### **About Menzel Elektromotoren**

Based in Berlin, Menzel Elektromotoren GmbH has been manufacturing and distributing electric motors for more than 90 years. The medium-sized company specializes in the delivery of large electric motors, including special models, within the shortest possible time. The product range comprises high and low voltage motors, DC motors, transformers, and frequency inverters. Services include motor production and short-term adaptation of stocked motors to application-specific requirements. In order to ensure fast deliveries to the customer at all times, the company maintains a very extensive inventory including more than 20,000 motors with a maximum performance of up to 15,000 kW. Qualified engineering, experienced staff, and state-of-the-art production and testing facilities help Menzel provide excellent reliability. Menzel operates subsidiaries in the UK, France, Italy, Spain, and Sweden, and cooperates with numerous partners worldwide.

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