

Press Release

Fresh air for thermal power plant

Large fan motor weighing 25 tons gets identical replica

Berlin – Providing a spare for the exceptionally large fan motor at EUGENIO MONTALE, a 600 MWe thermal power plant in Italy, special motor manufacturer Menzel Elektromotoren recently built an exact replica. The 8-pole squirrel cage motor features a D5 design with a base frame and pillow blocks. At 3500 kW, 6000 V and about 25 tons of weight, the extremely large specimen is also exposed to ambient temperatures of up to 60 °C. Menzel, a family-owned company from Berlin, received the commission because they were the only provider able to implement all of customer *ENEL Produzione SPA*'s technical requirements, despite the motor's enormous size. This included in particular a completely identical efficiency.



Illustration: Proving their technical expertise by exactly matching all the requirements to a tee, Menzel Elektromotoren came out on top against other motor manufacturers for the construction of a fan motor for a thermal power plant.

The original motor manufactured by ASGEN ITALY in 1973 has special design features such as external sleeve bearings, custom external dimensions and a dedicated base frame. It also features a very large inertia moment of $J=11250 \text{ kg/m}^2$. Taking into account all these factors, Menzel constructed the spare machine with identical mounting and shaft dimensions and the exact same axis

height. The sleeve bearing and terminal boxes as well as the oil and water connections were positioned in accordance with the original motor. Menzel also fulfilled the special request by the customer for a tangent-delta check and partial discharge measurement.

Illustrations: ventilator_italien Char.s: 1,341
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About Menzel Elektromotoren

Based in Berlin, Menzel Elektromotoren GmbH has been manufacturing and distributing electric motors for more than 85 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, and Sweden, and cooperates with numerous partners worldwide.

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