

News of July 29, 2021

Burckhardt Compression to Deliver H2 Diaphragm Compressor Unit for Hungarian Green Hydrogen Project

The Hungarian government has announced to support different projects for converting surplus electricity into gas energy. One of the winning tenders is the “Aquamarine” project, which includes a hydrogen plant in an underground gas storage facility owned by Hungarian Gas Storage Ltd. The produced hydrogen is mixed into natural gas and utilized in their own gas engines and furnaces, therefore reducing CO₂ emissions. In addition, the aim is to conduct an industrial-scale experiment for the long-term storage of hydrogen in underground gas storage at pressures above 100 bar to reduce storage volume. A Diaphragm Compressor system by Burckhardt Compression is used to compress the hydrogen from 30 to 250 – 300 bar.

The Diaphragm Compressor is being manufactured at Burckhardt Compression in Shenyang, China, and will be shipped as a skidded compression unit to GanzAir Compressortechnics LLC in Hungary. The compressor skid includes lube oil system, motor, gas cooler, instrumentation and control system and a closed cooling water loop with air cooler. The MD10-L compressor system is specifically designed for hydrogen applications and capable of compressing hydrogen at a high pressure while ensuring high purity.

GanzAir is a Hungarian company and one of the leading domestic manufacturers and system integrators in the field of compressor technology, with over 30 years of experience. GanzAir produces standard industrial and special units as well, for example gas compressors for upstream and CNG, brake compressors for locomotives and other vehicles, starter compressors for ship diesels and for emergency gensets. GanzAir has been specialized in not only compressors but all related products on the field of compression, purification and distribution of air and industrial gases.

Further information:

Saskia Rusch, Head of Corporate Communications & Branding

Tel.: +41 52 261 55 00

saskia.rusch@burckhardtcompression.com

About Burckhardt Compression

Burckhardt Compression is the worldwide market leader for reciprocating compressor systems and the only manufacturer and service provider that covers a full range of reciprocating compressor technologies and services. Its customized compressor systems are used in the gas gathering and processing, gas transport and storage, refinery, chemical, petrochemical as well as in the hydrogen mobility and energy and industrial gas sectors. Burckhardt Compression's leading technology, broad portfolio of compressor components and the full range of services help customers around the world to find the optimized solution for their reciprocating compressor systems. Since 1844, its highly skilled workforce has crafted superior solutions and set the benchmark in the gas compression industry.

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For further information please visit www.burckhardtcompression.com
