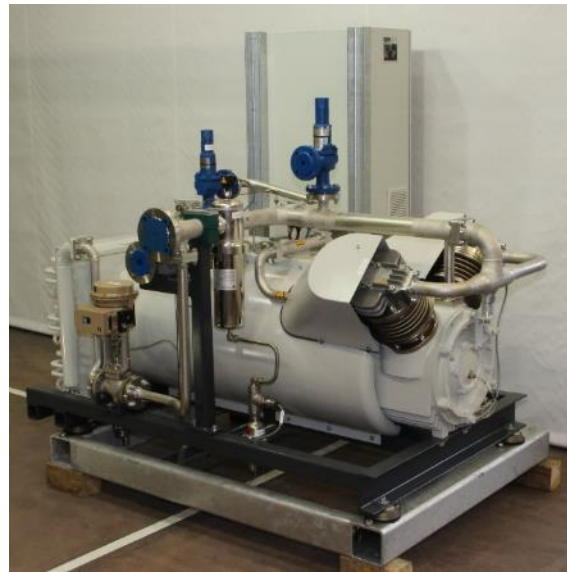


Oil-less and gastight piston compressors for power-to-gas plants

In a power-to-gas plant, surplus electricity from wind and solar plants is converted into renewable natural gas and is fed into the natural gas grid. In a first step, the electric current splits the water through electrolysis into its constituents, hydrogen (H₂) and oxygen (O₂). In a second step, the hydrogen extracted from the water is catalytically converted together with carbon dioxide (CO₂) to methane (CH₄); this process is called methanation. Biogas plants are used amongst others as a source of CO₂. The produced methane gas (CH₄) can be directly fed into and stored in the natural gas grid as a synthetic gas, without any restrictions. Cogeneration plants, cars and the industry can use the renewable gas. In collaboration with the Audi plant by the Stuttgart-based company Etogas, oil-less compressors by HAUG Kompressoren AG help to ensure that highly fluctuating energy sources such as wind and sun power can be reliably integrated into the existing energy infrastructure. HAUG compressors play an important role in the CO₂ compression of biomethane obtained through biogas scrubbing. Thus, renewable electricity becomes permanently storable and obtainable everywhere.



Picture 1: Operating side of the CO₂ compressor



Picture 2: Control valve side of the CO₂ compressor

Pictures 1+2: oil-free and gastight gas compressor, type TOG with two cylinders, single-stage, air-cooled, to compress filtered CO₂ carbon dioxide.

If you have any questions, Mr Beat Frefel will kindly give detailed information at +41 71 313 99 55 or sales@haug.ch

For more information on the TOG series, please visit the following link: www.haug.ch/TOG