



COMPRESSOR SOLUTIONS FOR OFFSHORE H2 PRODUCTION

FULLY BALANCED OIL-FREE PISTON COMPRESSORS FOR LARGE HYDROGEN FLOW

APPLICATION DESCRIPTION

The energy transformation requires a large amount of green hydrogen. The power produced at offshore wind parks can be converted into hydrogen. Hydrogen produced on offshore platforms can be compressed for storage or injected into pipelines.

Burckhardt Compression is one of the global market leaders in the field of reciprocating compressors. Its compressor systems are used in various applications and markets, such as offshore and marine as well as hydrogen mobility and energy. We offer oil-free compressor systems maintaining highest hydrogen purity.

CUSTOMER BENEFITS

- Pipeline compressors up to 100 bar
- Operational flexibility for high efficiency
- Oil-free compression for highest hydrogen purity
- Long service intervals (MTBO > 27'000 h)
- Fully balanced compressor design protecting the platform structure and installed equipment
- Vertical compressor design for smaller footprint
- Skidded solutions for easy installation
- Remote monitoring for unmanned operation
- Qualified offshore service capabilities

FULLY BALANCED OIL-FREE PISTON COMPRESSORS FOR LARGE HYDROGEN FLOW

DESIGN FEATURES

- Gas-tight crankcase for greater safety and zero gas loss
- No vibrations due to elimination of unbalanced forces and moments
- Highly efficient and flexible part load operation due to innovative flow control concept
- Designed according to marine and offshore standards
- Available as storage compressor (up to 550 bar)

COMPRESSOR SKIDS FOR OFFSHORE APPLICATIONS



TECHNICAL DATA

| Type | Mass Flow kg/h / lbs/h | Rated Power kW / hp | Width mm / in | Height mm / in | Length mm / in |
|--------|---------------------------|------------------------|------------------|-------------------|-------------------|
| 3LP250 | 2'000 / 4'410 | 1'250 / 1'675 | 7'000 / 276 | 5'500 / 217 | 13'000 / 512 |
| 6LP250 | 4'000 / 8'820 | 2'500 / 3'350 | 7'000 / 276 | 5'500 / 217 | 13'000 / 512 |

Numbers based on calculation example compressor skid for offshore pipeline injection. Gas suction pressure: 30 bar a / 435 psi a, discharge pressure: 90 bar a / 1'305 psi a, temperature: 20 °C (68 °F)

Burckhardt Compression

24-hour emergency tel.: +41 52 261 53 53

info@burckhardtcompression.com

www.burckhardtcompression.com