



# COMPRESSOR SOLUTIONS FOR HYDROGEN TRAILER FILLING

## OIL-FREE HIGH-PRESSURE PISTON COMPRESSORS

### APPLICATION DESCRIPTION

Hydrogen fuel stations for heavy-duty vehicles demand a large amount of hydrogen. Shipped by GH<sub>2</sub> trailers, the increased amount of hydrogen requires compressor systems with a sufficiently high flow. Piston compressors are the preferred solution for this application.

Burckhardt Compression is one of the global market leaders in the field of reciprocating compressors. Its compressor systems are used in the upstream oil & gas, gas transport and storage, refinery, chemical, petrochemical and industrial gas sectors. We offer oil-free high-pressure compressor systems maintaining hydrogen quality according to SAE J-2719.

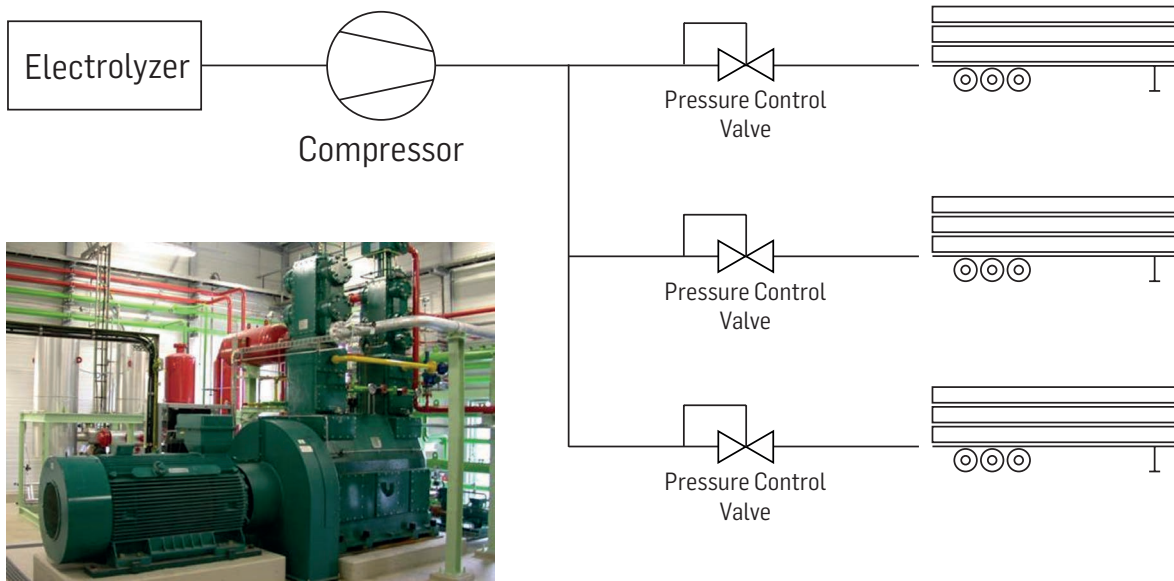
### CUSTOMER BENEFITS

- Highest gas compression efficiency
- Oil-free high-pressure compression to meet highest hydrogen purity
- Now available up to 550 bar
- Longest mean time between overhauls (MTBO 8'000 – 12'000 hours)
- Small footprint
- Lowest TCO (Total Cost of Ownership)
- Bare compressors and skidded compression solutions
- Full range of after-sales services
- Global network of local service centers

Compressors for a Lifetime™

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## PROCESS LAYOUT



## TECHNICAL DATA

Type	Mass Flow kg/h / lbs/h	Rated Power kW / hp	Width mm / in	Height mm / in	Length mm / in
<b>3C4S</b>	190 / 420	320 / 430	4'100 / 160	4'250 / 170	8'050 / 315
<b>3LP250</b>	550 / 1213	698 / 936	6'000 / 236	5'000 / 197	11'000 / 433

Numbers based on calculation example compressor skid for trailer filling station. Gas suction pressure: 30 bar a / 435 psi a, discharge pressure: 550 bar a / 7'800 psi a, temperature: 20 °C (68 °F)

### Burckhardt Compression

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

info@burckhardtcompression.com

www.burckhardtcompression.com