



COMPRESSOR SOLUTIONS FOR LARGE HYDROGEN FUEL STATIONS

OIL-FREE HIGH-PRESSURE PISTON COMPRESSORS

APPLICATION DESCRIPTION

Hydrogen is increasingly used as a fuel in transportation because of its high energy density and environmental sustainability. Hydrogen delivery to fuel stations and vehicle fueling require a variety of different compression solutions.

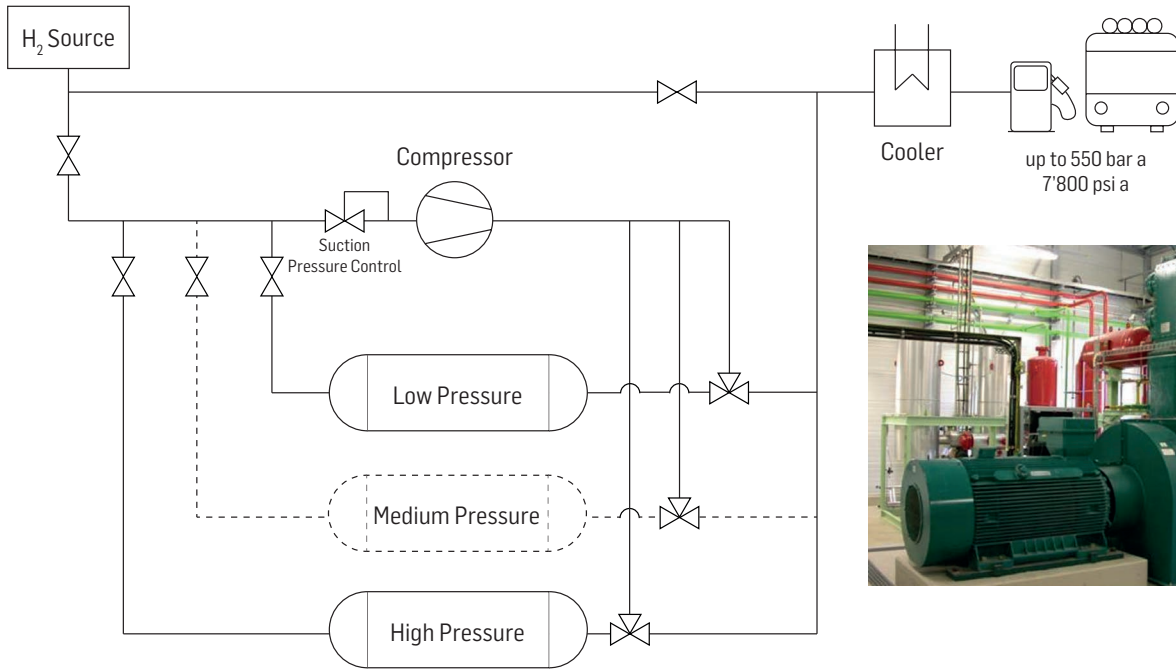
Burckhardt Compression is one of the global market leaders in the field of reciprocating compressors. Its compressor systems are used in the upstream oil & gas, gas transport and storage, refinery, chemical, petrochemical and industrial gas sectors. We offer oil-free high-pressure compressor systems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

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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
3C4S	190 / 420	320 / 430	4'100 / 160	4'250 / 170	8'050 / 315
3LP250	550 / 1213	698 / 936	6'000 / 236	5'000 / 197	11'000 / 433

Numbers based on calculation example compressor skid for bus/train/truck fuel 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