



COMPRESSOR SOLUTIONS FOR HYDROGEN FUEL STATIONS

OIL-FREE HIGH-PRESSURE DIAPHRAGM 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.

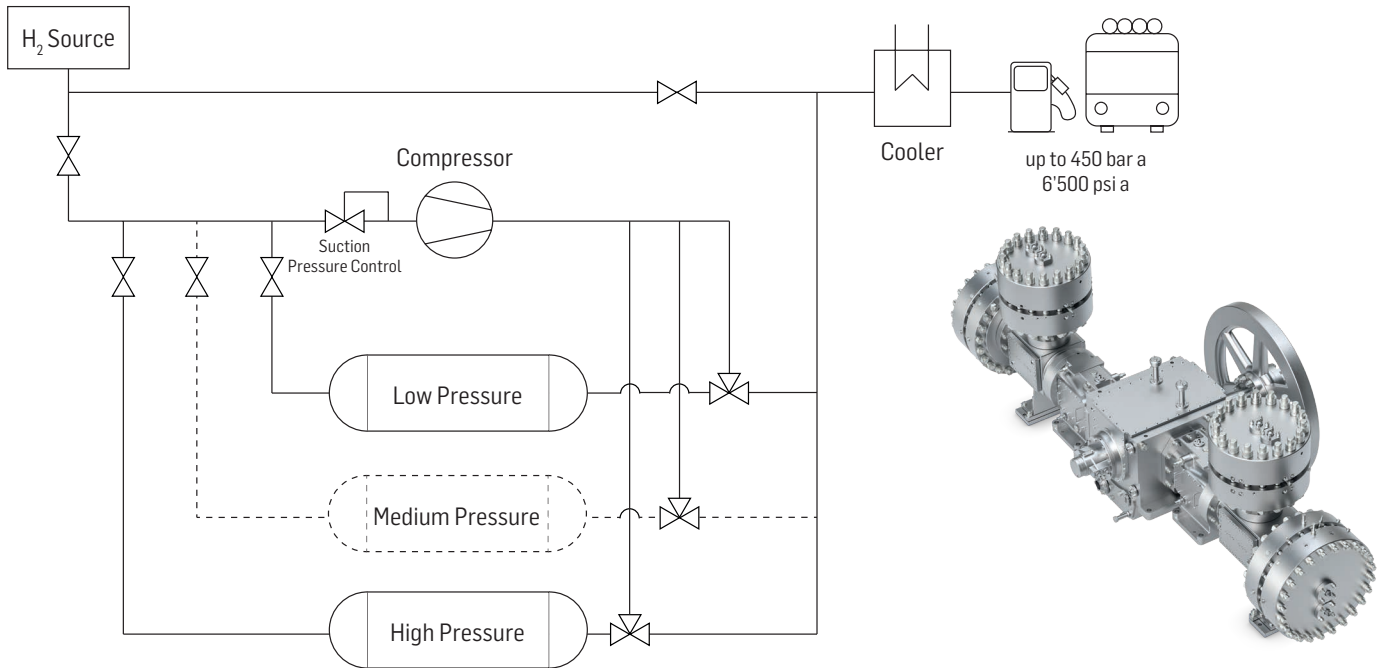
Burckhardt Compression is one of the global market leaders in the field of reciprocating compressors. Its compressor systems are used in the upstream oil & gas, gas transport and storage, refinery, chemical, petrochemical and industrial gas sectors. We offer oil-free high-pressure compressor systems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

CUSTOMER BENEFITS

- Cost-efficient compressor solution
- Oil-free high-pressure compression to meet highest hydrogen purity
- Leakage-free hydrogen compression
- Bare compressors, skidded and container-installed compression solutions
- Full range of after-sales services
- Global network of local service centers

OIL-FREE HIGH-PRESSURE DIAPHRAGM COMPRESSORS

PROCESS LAYOUT



TECHNICAL DATA

Type	Mass Flow kg/h / lbs/h	Rated Power kW / hp	Width mm / in	Height mm / in	Length mm / in
MD2.5-V	3.4 / 7.5	12 / 16	2'100 / 85	1'500 / 60	1'400 / 55
MD5-V	8.4 / 18.5	29 / 39	2'400 / 95	1'700 / 70	1'600 / 65
MD6.5-D	15 / 33	51 / 38	5'500 / 217	4'000 / 157	2'500 / 98
MD6.5-M	62 / 137	168 / 225	7'400 / 290	4'500 / 180	3'000 / 120
MD10-D	28 / 62	89 / 66	6'000 / 236	4'000 / 157	2'500 / 98
MD10-M	101 / 223	261 / 350	7'600 / 300	5'000 / 200	3'000 / 120
MD12-D	34 / 75	107 / 80	6'000 / 236	4'000 / 157	2'500 / 98
MD12-M	125 / 275	316 / 424	7'600 / 300	5'000 / 200	3'000 / 120

Numbers based on calculation example compressor skid for bus/train/truck fuel station. Gas suction pressure: 15 bar a / 215 psi a, discharge pressure: 450 bar a / 6'500 psi a, temperature: 20 °C (68 °F)

Burckhardt Compression

24-hour emergency tel.: +41 52 262 53 53

info@burckhardtcompression.com

www.burckhardtcompression.com