

FULLY STANDARDIZED COMPRESSION SOLUTION FOR HYDROGEN TRAILER FILLING

CONTAINERIZED DIAPHRAGM COMPRESSOR UNIT MD10-L

APPLICATION DESCRIPTION

Hydrogen fuel stations for light and heavy-duty vehicles demand a large amount of hydrogen. Shipped in GH2 trailers, the increased amount of hydrogen requires compressor systems with a sufficiently high flow. Diaphragm compressors is a proven solution for H2 trailer filling application.

Burckhardt Compression is the global market leader in the field of reciprocating compressors. Its compressor solutions are used in the chemical, petrochemical, gas transport and storage, hydrogen mobility and energy, industrial gas, refinery and gas gathering and processing markets.

CUSTOMER BENEFITS

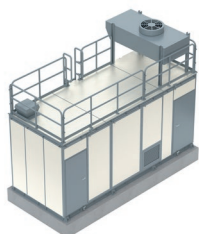
- Fully standardized unit including PLC
- Optimized for 2.5 MW electrolyzer capacity
- Skidded and container-installed compression solutions
- Pre-tested plug & play
- Highest hydrogen purity due to oil-free high-pressure compression according to SAE J-2719
- Leakage-free hydrogen compression
- Full range of after-sales services
- Explosion-proof certification
- Global network of local service centers

MD10-L DIAPHRAGM COMPRESSOR

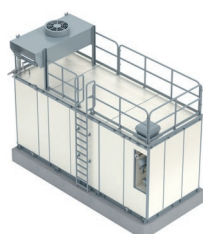
FOR HYDROGEN TRAILER FILLING & FUEL STATIONS

CONTAINERIZED COMPRESSION UNIT

Front side



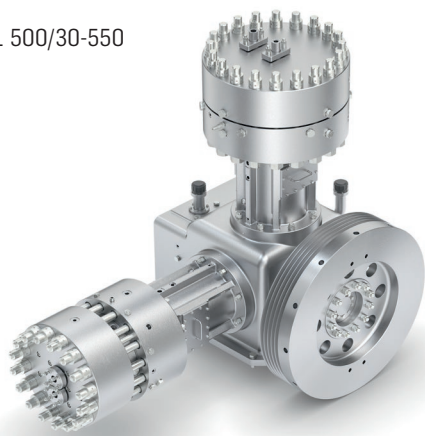
Back side



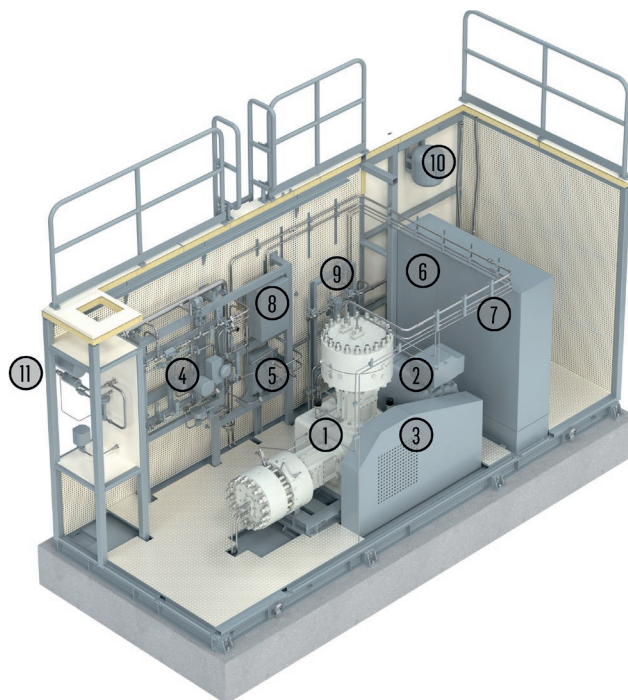
The standard containerized unit can optionally be equipped with additional air cooler and railing.

COMPRESSOR

MD10-L 500/30-550



COMPLETE COMPRESSION & CONTROL SYSTEM INSTALLED IN CONTAINER



Legend:

- | | |
|----------------------------------|--|
| 1) Diaphragm compressor | 7) MCC |
| 2) Electrical main drive (motor) | 8) Remote IOs |
| 3) Transmission | 9) Lube oil system |
| 4) Process gas system | 10) Cooling water system |
| 5) Process gas heat exchanger | 11) Main system interfaces on back side of container |
| 6) Control system | |

TECHNICAL DATA

Type	Ps barg	Power motor kW / hp	Massflow nom Nm ³ /h / kg/h	Pd barg	Motor (V-Belt) drive V / Hz / rpm	Dimensions l x w x h mm / in	Weight t
MD10-L 500/30-550	25-30	81 / 110	500 / 45	300-550	400 / 50 / 1450(498)	6050 x 2430 x 3250	25
MD10-L 500/40-550	34-40	78 / 110	500 / 45	300-550	400 / 50 / 1450(498)	6050 x 2430 x 3250	25

This technical data don't fit your needs? BC offers a full range of compression solutions for H₂. Please contact your local sales representative to discuss your solution.

Burckhardt Compression

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