



# COMPRESSOR SOLUTIONS FOR HYDROGEN TRAILER FILLING

## OIL-FREE HIGH-PRESSURE DIAPHRAGM 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. Diaphragm compressors are the preferred solution for this application.

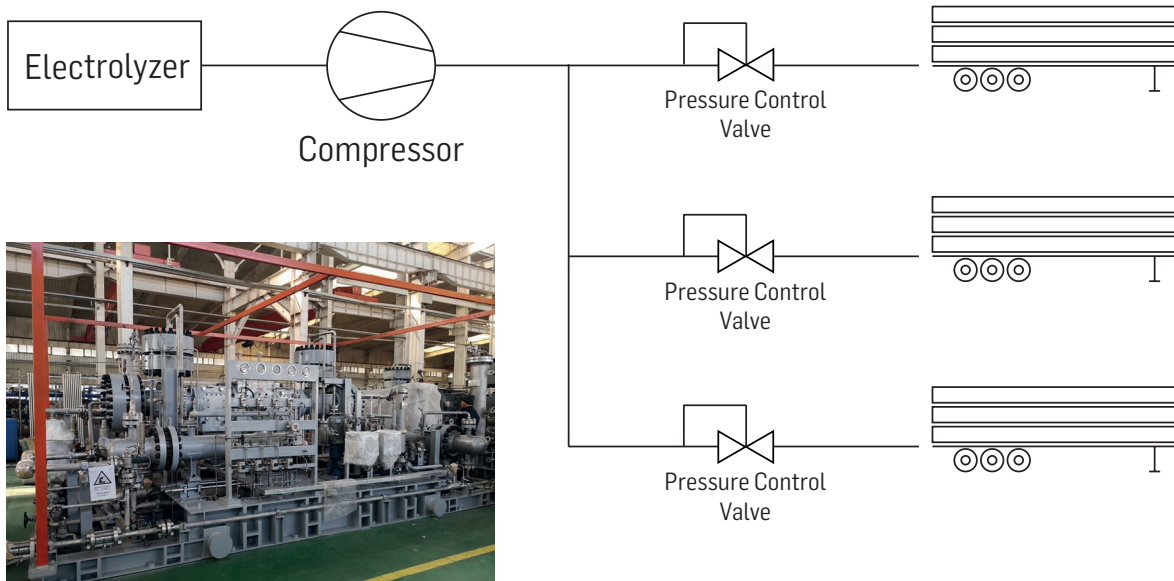
Burckhardt Compression is one of the global market leaders in the field of reciprocating compressors. Its compressor systems are used in the upstream oil & gas, gas transport and storage, refinery, chemical, petrochemical and industrial gas sectors. We offer oil-free high-pressure compressor systems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

### CUSTOMER BENEFITS

- 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

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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>MD2.5-V</b>	3.4 / 7.5	12 / 16	2'100 / 85	1'500 / 60	1'400 / 55
<b>MD5-V</b>	8.4 / 18.5	29 / 39	2'400 / 95	1'700 / 70	1'600 / 65
<b>MD6.5-D</b>	15 / 33	51 / 38	5'500 / 217	4'000 / 157	2'500 / 98
<b>MD6.5-M</b>	62 / 137	168 / 225	7'400 / 290	4'500 / 180	3'000 / 120
<b>MD10-D</b>	28 / 62	89 / 66	6'000 / 236	4'000 / 157	2'500 / 98
<b>MD10-M</b>	101 / 223	261 / 350	7'600 / 300	5'000 / 200	3'000 / 120
<b>MD12-D</b>	34 / 75	107 / 80	6'000 / 236	4'000 / 157	2'500 / 98
<b>MD12-M</b>	125 / 275	316 / 424	7'600 / 300	5'000 / 200	3'000 / 120

Numbers based on calculation example compressor skid for trailer filling 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