

Compression solutions for hydrogen mobility and energy



Liquefaction, pipeline injection and storage

Oil-free compressors for large capacity

Our hydrogen (H₂) solutions are designed to meet your unique demands for hydrogen mobility and energy applications, ensuring efficiency, reliability, and sustainability.

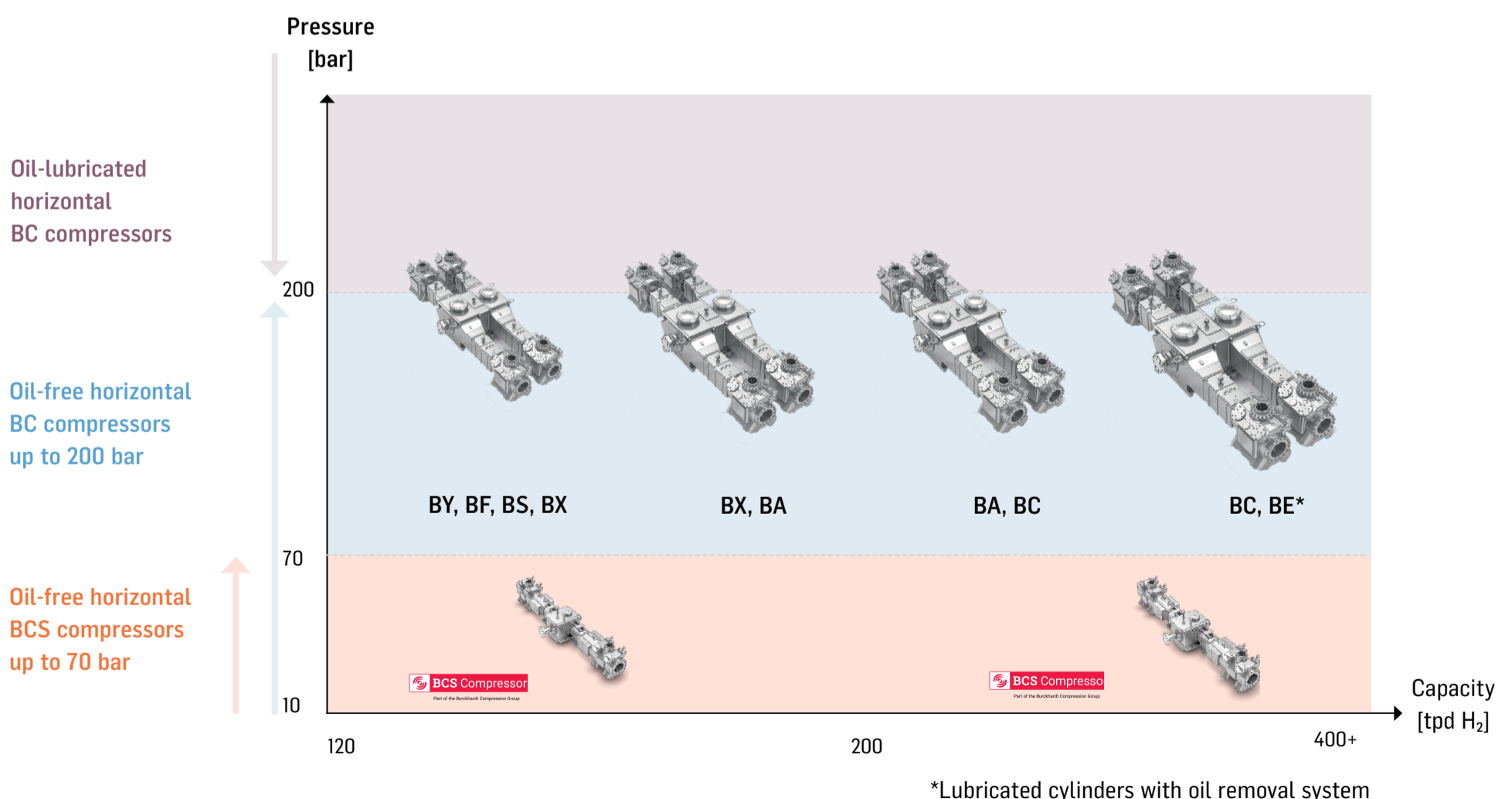
- Energy-efficient turn-down operation
- High availability and reliability: condition monitoring of compressor and wear parts allows planned overhaul
- Hydrogen references in operation for ammonia production, hydrogen liquefaction and pipeline injection
- Superior compressor Mean Time Between Overhaul (MTBO) due to unrivaled Redura® non-lube sealing technology (up to 27'000 h MTBO)



H₂ pipeline injection, Type: 6B2AC, Botlek Netherlands

Oil-free compressor solutions for medium pressure applications

We have a comprehensive portfolio of horizontal piston ring compressors available to cover discharge pressures up to 200 bar with an oil-free piston design, serving industrial applications as well as H₂ liquefaction, pipeline and storage. The below chart is an indication of capacity and discharge pressures that we can cover with our products. Depending on the required capacity and pressure ratio, these compressors will be customized to your requirements.



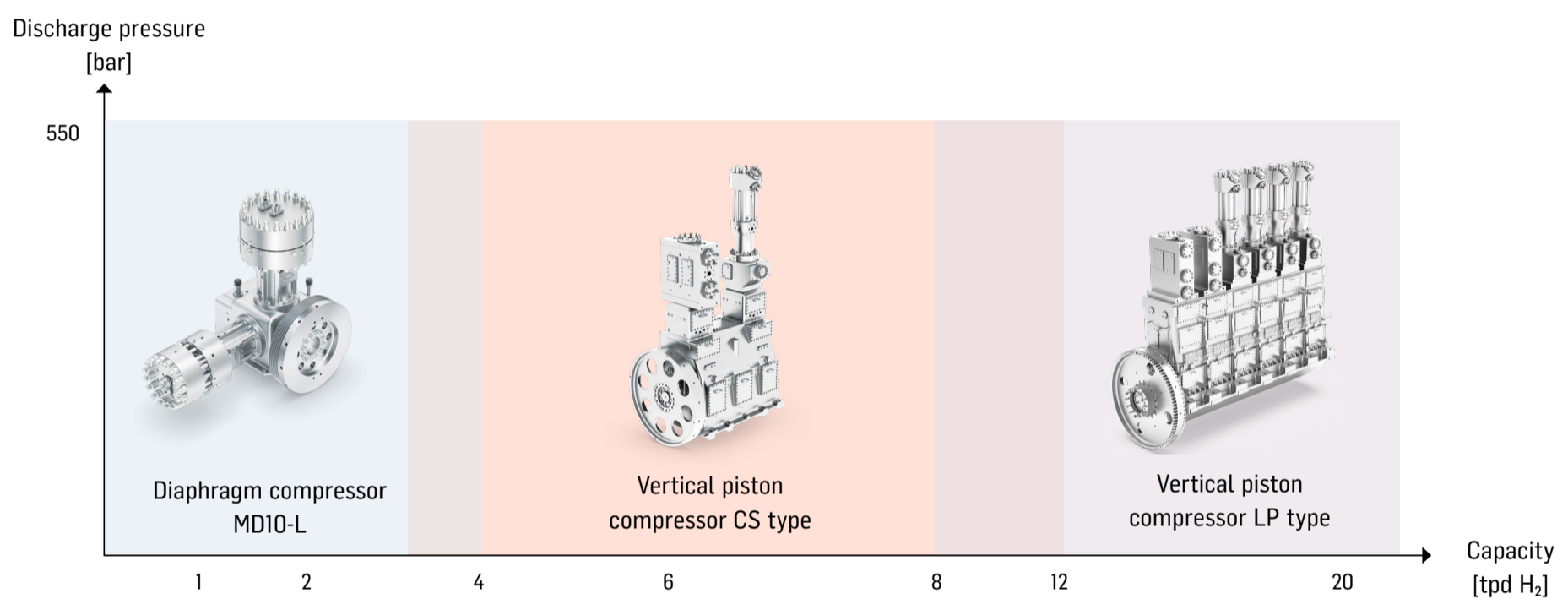
Trailer filling and fuel stations

Oil-free, high-pressure compressors

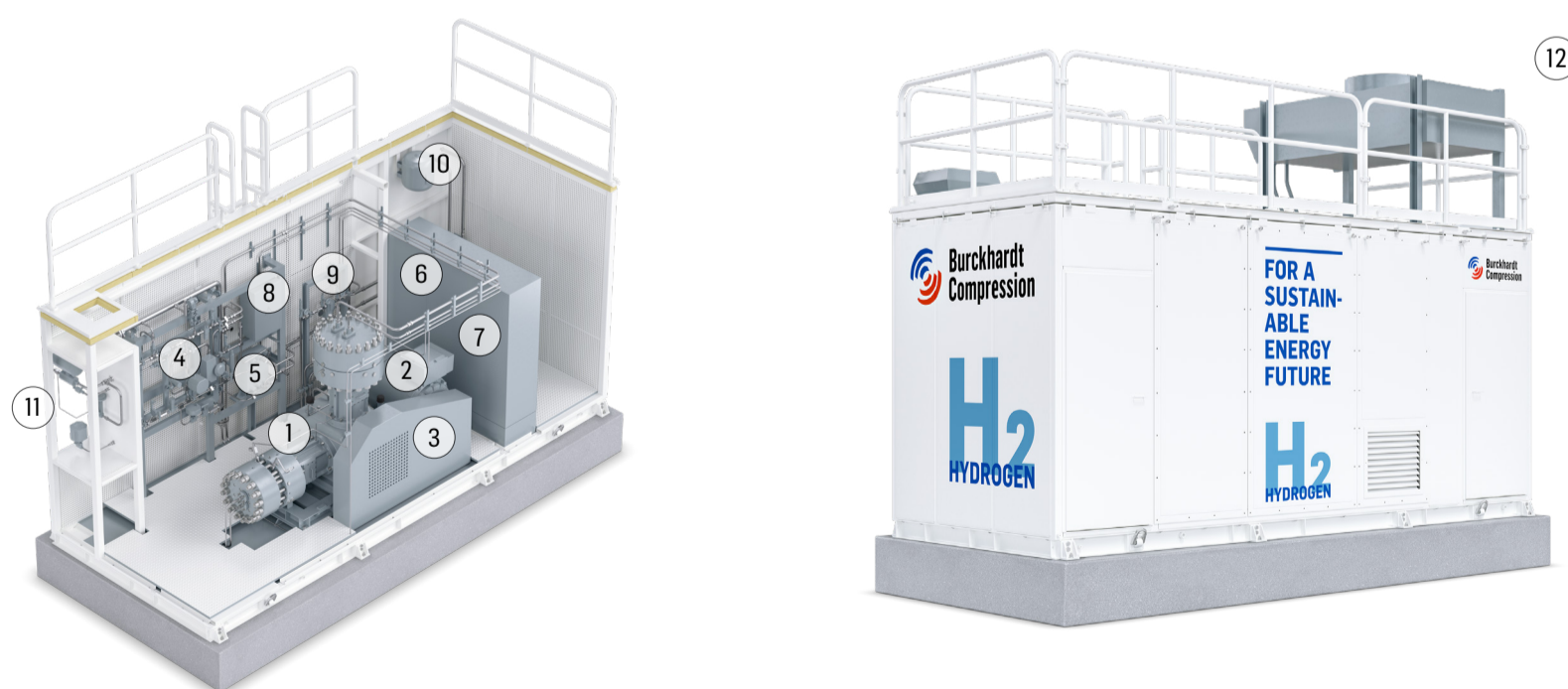
Designed to meet the demands of your trailer filling and refueling operations, our standardized compressor modules, equipped with all accessories, provide a seamless, efficient and scalable setup.

Customer benefits

- Highest gas compression efficiency
- Oil-free, high-pressure compression to meet highest hydrogen purity
- Available up to 550 bar
- Longest mean time between overhauls (MTBO 8000-12000 hours)
- Small footprint
- Robust technology for highest reliability
- Skid-mounted and containerized units
- Full range of after-sales services
- Global service center network



For hydrogen trailer filling and refueling applications ranging from 30 to 550 bar, we offer a capacity range from 1 to 21 tpd (max. capacity of a 6-crank LP250V compressor unit).



Legends

- | | | |
|----------------------------------|--------------------------------------|--|
| 1. Diaphragm compressor | 6. Control system (safe area) | 11. Main system interfaces on back side of container |
| 2. Electrical main drive (motor) | 7. MCC (safe area) | 12. Air cooler, ladder and railing (optional) |
| 3. Transmission | 8. Remote IOs | |
| 4. Process gas system | 9. Lube oil system | |
| 5. Process gas heat exchanger | 10. Cooling water system (safe area) | |

Compression solutions for hydrogen mobility and energy

Burckhardt Compression is a worldwide market leader for reciprocating compressor systems and the only manufacturer and service provider that covers a full range of reciprocating compressor technologies and services. We offer reliable, high-performance compression solutions developed in true partnership with our clients, combining our advanced engineering expertise with the strongest product portfolio in the industry. As a solutions provider, we execute projects in a collaborative manner, with competence, efficiency and speed.

Our comprehensive H₂ compressor portfolio includes diaphragm compressors for lower flows and reliable oil-free, high-pressure piston compressors for higher flows. This allows us to meet the needs of various H₂ applications such as trailer filling and fuel stations. Equally important, Burckhardt Compression's aftermarket and service capabilities are supported by an extensive network of service hubs around the world.

