



COMPRESSOR SOLUTIONS FOR HYDROGEN TRAILER FILLING

OIL-FREE HIGH-PRESSURE PISTON COMPRESSOR 3C4SC

APPLICATION DESCRIPTION

Hydrogen fuel stations for heavy-duty vehicles demand a large amount of hydrogen. Shipped by GH_2 trailers, the increased amount of hydrogen requires compressor systems with a sufficiently high flow. Piston compressors are the preferred solution for this application.

Burckhardt Compression is the global market leader in the field of reciprocating compressors. Our compression solutions 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.

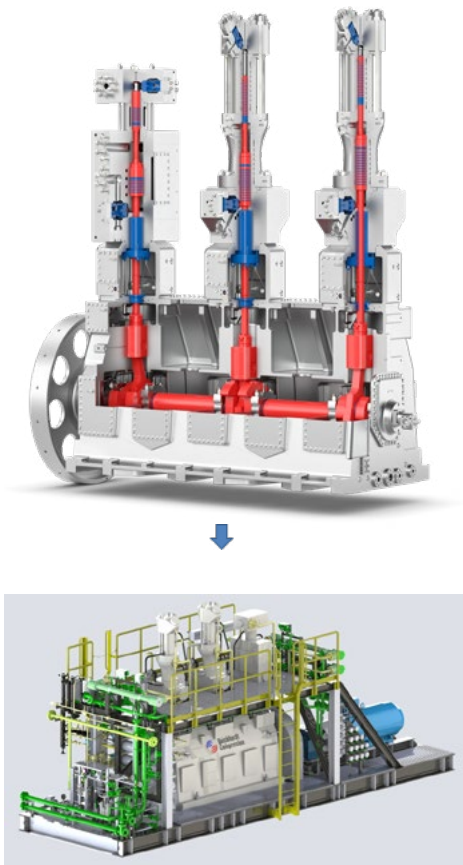
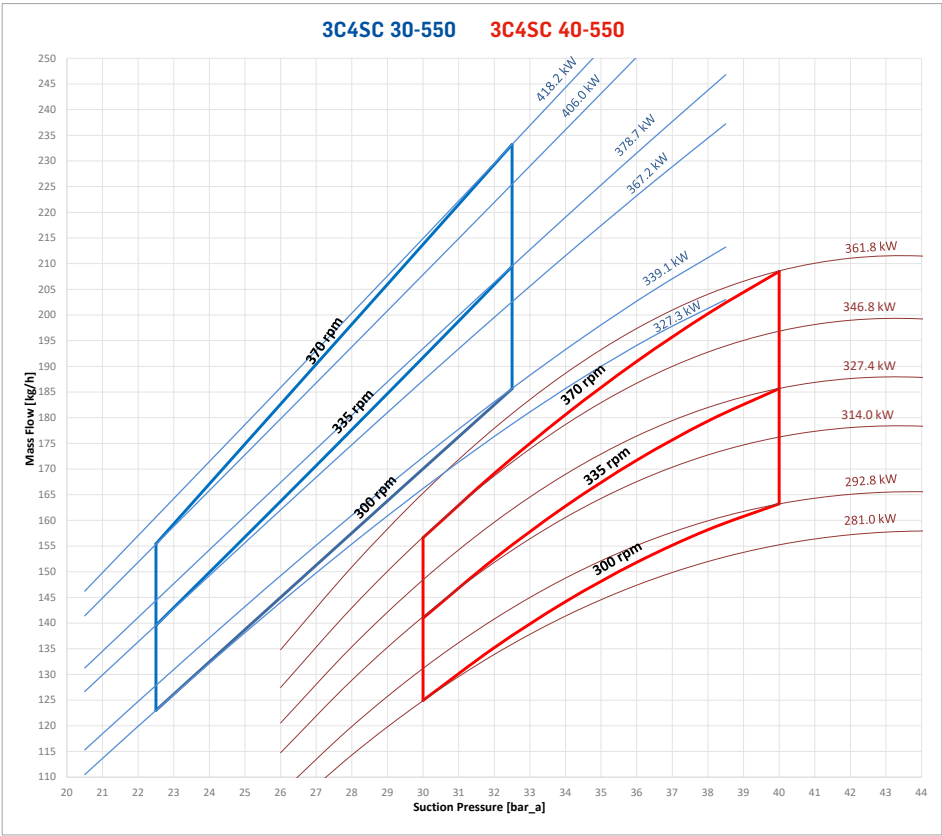
CUSTOMER BENEFITS

- Designed for 10MW pressurized electrolyzer
- Low energy cost due to high compression efficiency adapting to changing operation conditions
- Oil-free high-pressure compression to meet highest hydrogen purity
- Available up to 550 bar
- Longest mean time between overhauls (MTBO 8'000 – 12'000 hours)
- Standardized solution for a wide application range
- Lowest TCO (Total Cost of Ownership)
- Rapid installation due to single skid compression solutions
- Full range of after-sales services
- Global network of local service centers

Compressors for a Lifetime™

OIL-FREE HIGH-PRESSURE PISTON COMPRESSOR 3C4SC

COMPRESSOR PERFORMANCE AT DIFFERENT SUCTION PRESSURE AND COMPRESSOR SPEED



TECHNICAL DATA

Type	Ps bara	Pd barg	Rated Power kW / hp	Mass flow Nm3/h kg/h	Width mm / in	Height mm / in	Length mm / in
3C4SC 30-550	22.5 ... 27.5-32.5	300-550	395 / 537	1'200 ... 2'000 110 ... 180	4'100 / 160	4'250 / 170	8'050 / 315
3C4SC 40-550	30 ... 37.5-40	300-550	347 / 471	1'390 ... 2'000 125 ... 180	4'100 / 160	4'250 / 170	8'050 / 315

Burckhardt Compression
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