



COMPRESSOR SOLUTIONS FOR LARGE HYDROGEN FUEL STATIONS

OIL-FREE HIGH-PRESSURE PISTON COMPRESSOR 3C4SC

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.

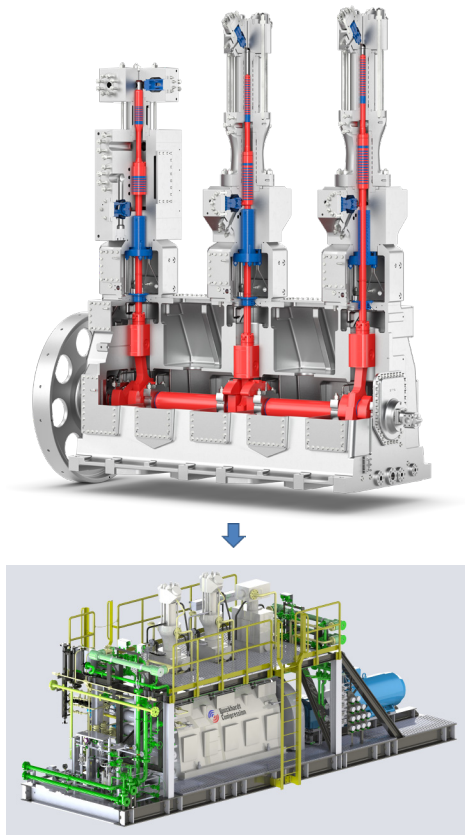
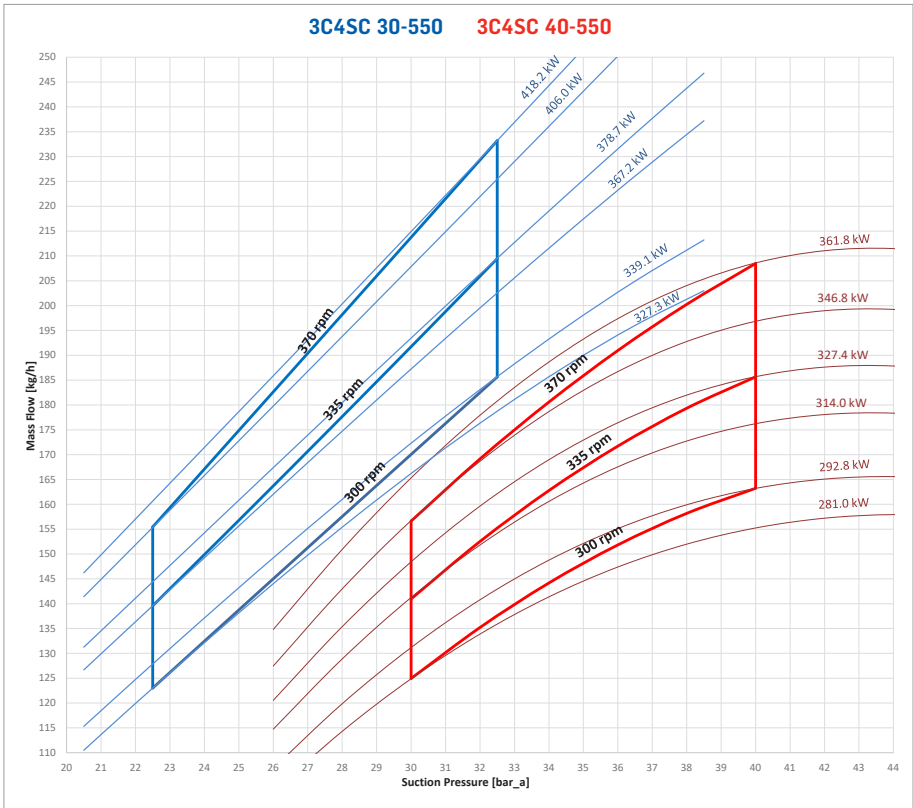
CUSTOMER BENEFITS

- 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 8'000 – 12'000 hours)
- Small footprint
- Lowest TCO (Total Cost of Ownership)
- Bare compressors and skidded compression solutions
- Full range of after-sales services
- Global network of local service centers

Compressors for a Lifetime™

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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