



LABY® COMPRESSORS FOR LNG BOG MANAGEMENT

AUXILIARY ENGINES AND WIND X-DF FUEL-GAS SUPPLY ON MERCHANT SHIPS

LNG AS A MARINE FUEL ALTERNATIVE

Upcoming IMO regulations will cut the sulfur content of marine diesel to 0.5% by the year 2020. LNG will consequently become a competitive alternative fuel for merchant ships. Occuring boil-off gas (BOG) must be managed to protect the structural integrity of the onboard gas tanks. The most efficient way of managing boil-off gas (BOG) is to use it as fuel.

Burckhardt Compression offers a variety of compressor solutions for BOG handling that have been specifically designed for marine applications. Our oil-free Laby® Compressors can compress the BOG for injection into auxiliary engines and/or WinGD X-DF engines.

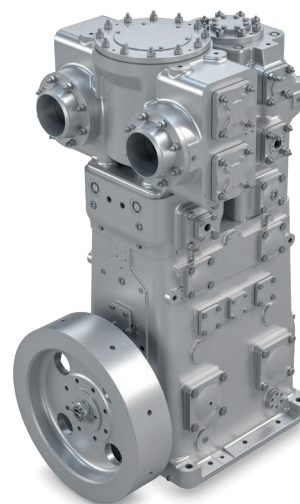
CUSTOMER BENEFITS OF LABY® COMPRESSORS

- Gas-tight crankcase for greater safety and zero gas loss
- Cryogenic operation without BOG pre-warming
- Low power consumption leads to minimized operational costs (OPEX)
- Low maintenance costs due to labyrinth sealing technology
- Low system complexity for easy integration
- Ship's crew can perform onboard maintenance
- Simple parallel operation with pump vaporizer
- Full range of after-sales services available

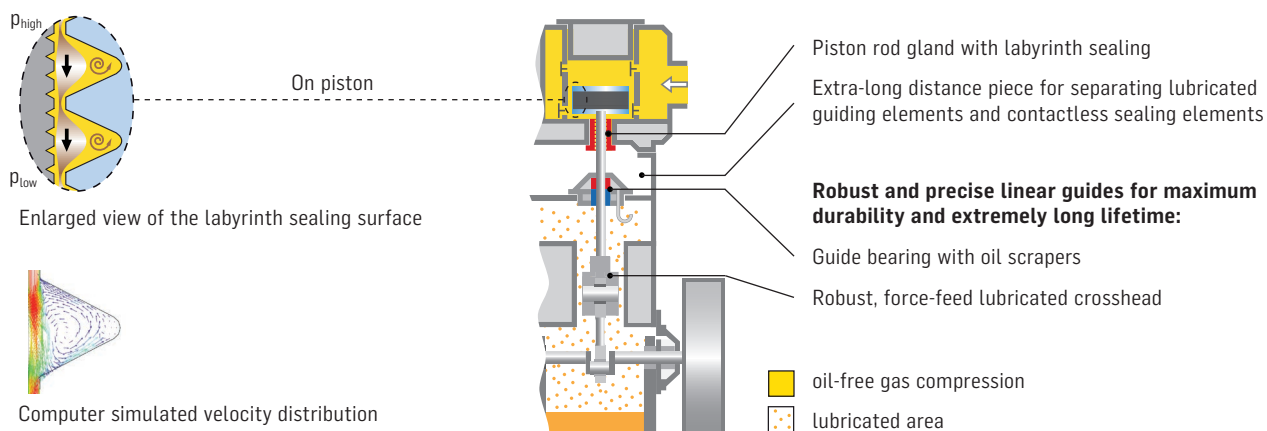
OIL-FREE MARINE LABY[®] COMPRESSION

DESIGN FEATURES

- Robust design compliant with marine standards
- Contactless oil-free gas compression
- Unique wear-free labyrinth piston sealing technology
- Directly driven by an electric motor
- Water-cooled cylinders and gas coolers
- Integrated crankshaft-driven lube oil system
- Minimized vibrations for improved integration in marine applications
- Compliant with IMO, IGF and IGC codes



CONTACTLESS LABYRINTH SEALINGS



TECHNICAL DATA

Type	Max. Speed rpm*	Rated Power kW / hp	Max. Volume Flow m ³ /h** / scfm**	Min. Gas Temperature °C / °F
2KL90	880	101 / 135	400 / 20	-140 / -220
2KL140	580	242 / 325	1'200 / 60	-140 / -220

*60 Hz supply frequency **Depending on gas composition, gas temperature and compressor suction pressure

Burckhardt Compression

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