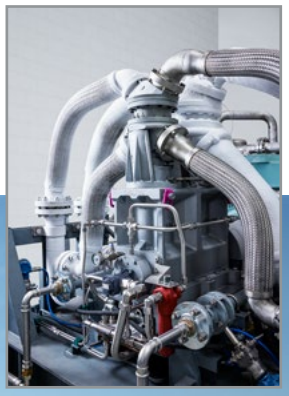
Burckhardt Compression



COMPRESSION SOLUTION FOR BOG HANDLING ON MERCHANT SHIPPING

A SUSTAINABLE SOLUTION WITH PROVEN RELIABILITY

APPLICATION DESCRIPTION

As the cryogenic LNG evaporates when it warms up within the vessel tanks, the occurring boil-off gas needs to be compressed. Subsequently, the compressed gas can be used as fuel for the WinGD X-DF 2-stroke propulsion engines on board or Genera Sets. Burckhardt Compression's unique 2K70 Laby® BOG compressor system handles relatively small mass flows at cryogenic gas temperatures, without the need for BOG pre-heating. It is specifically designed for marine applications, offering high efficiency, compact design, low complexity, and easy maintenance.

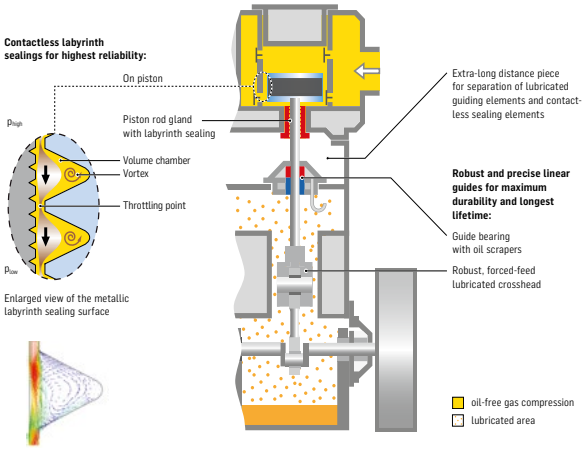
CUSTOMER BENEFITS

- Sustainable - No loss of cargo, no need for purge/buffer gas - Gas-tight design
- No BOG pre-heater required - Cryogenic design
- Higher efficiency, lower shaft power consumption
- Cost efficient standardized product
- No oil carry-over due to Oil-free Laby® design
- Applicable for all common cargo tank solutions
- IMO type C (pressurized) & IMO type B
- Reduced vibration through vibration isolation
- Higher efficiency through flow optimization
- Compact arrangement – small footprint
- Easy Operation and Maintenance onboard enabled
- Low system complexity – sofisticated design
- AVM mounted, flexible hoses – no rigid connections to ship foundation and piping system

Compressors for a Lifetime™

LABY®, LABYRINTH COMPRESSOR TECHNOLOGY MAKING THE DIFFERENCE

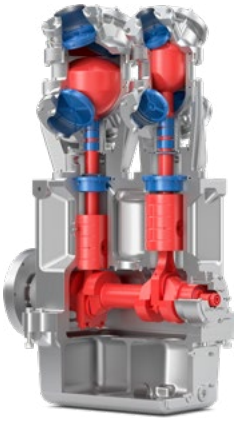
LABYRINTH SEALING TECHNOLOGY

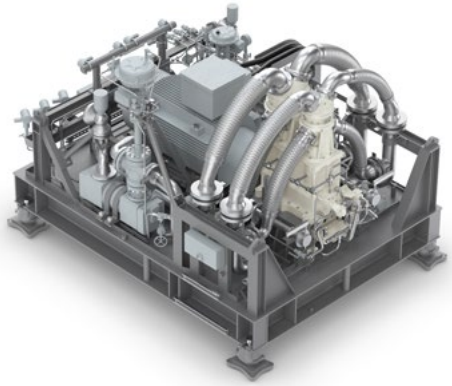


Computer simulated velocity distribution

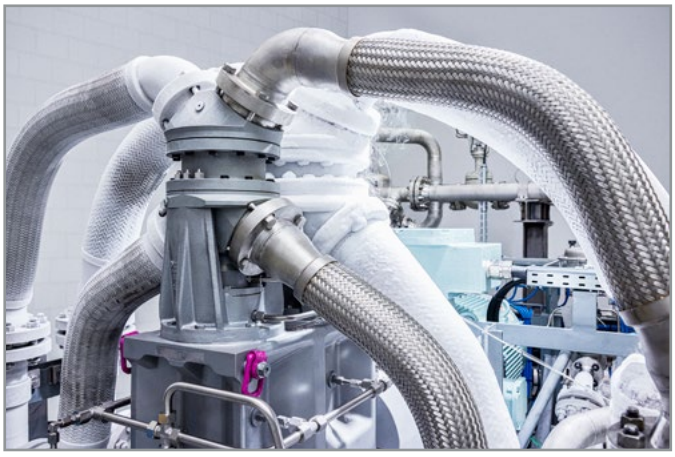
Cross section of a Laby® Compressor

LABY® COMPRESSOR









TECHNICAL DATA

Compressor Type	Tank technology	Gas type	Capacity kg/h	Suction pressure barg	Discharge pressure barg	speed rpm
2K70-2A	Membrane	LNG	max 1'000*	0.0 - 0.5	8.0 - 16.0	900 - 1800
2K70-2B	IMO Type C IMO Type B	LNG	max 2'500*	0.5 - 4.0	8.0 - 16.0	900 - 1800

*at nmax, psmax, pdmax, MWT 17.2

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BC Laby 2k70 – 09/2023 – All content is subject to change without notice.