



HIGH-PRESSURE COMPRESSORS FOR LNG BOG MANAGEMENT

MAN ME-GI 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. Occurring 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 Marine High-Pressure Compressors can compress the BOG for injection into high-pressure ME-GI engines.

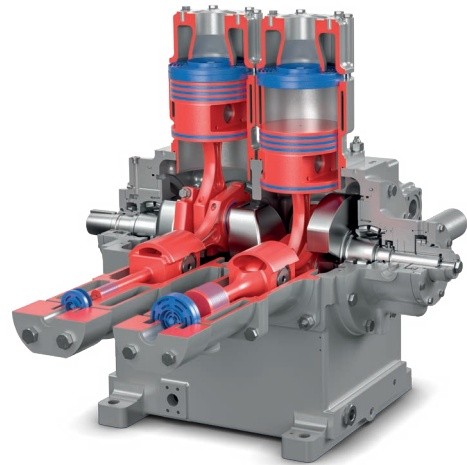
CUSTOMER BENEFITS OF MARINE HIGH-PRESSURE COMPRESSORS

- Low investment cost for Marine High-Pressure Compressor system required (attractive CAPEX)
- Gas-tight crankcase for greater safety and zero gas loss
- Possibility of installing redundant BOG-handling compressors
- Low power consumption leads to minimized operational costs (OPEX)
- Small footprint and minimum weight
- 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

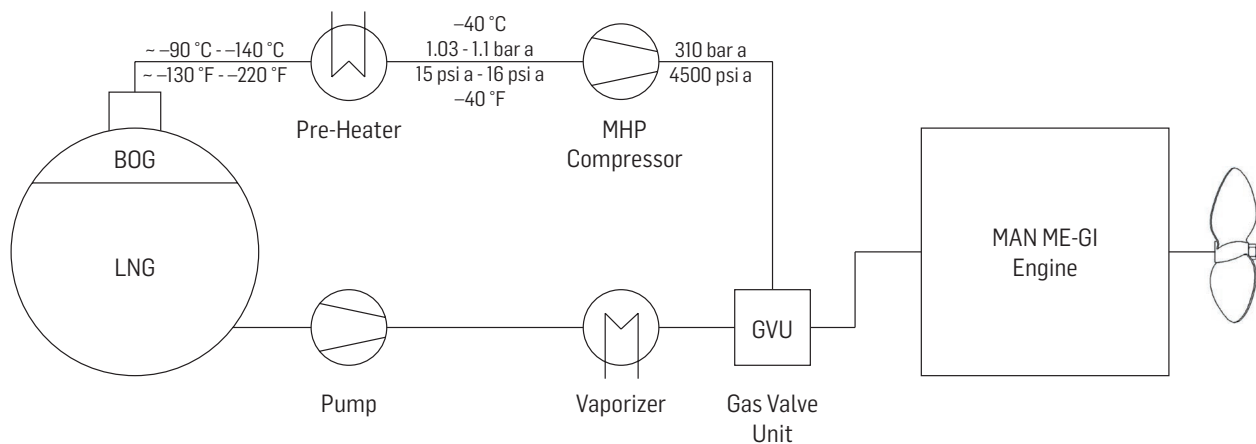
MARINE HIGH-PRESSURE COMPRESSOR – MINIMIZED NOISE AND VIBRATION

DESIGN FEATURES

- Robust marine design
- Directly driven by an electric motor
- Installed on anti-vibration mounts
- Water-cooled cylinders and gas coolers
- Integrated crankshaft-driven lube oil system
- Compliant with IMO, IGF and IGC codes
- Designed according to marine standards



PROCESS LAYOUT



TECHNICAL DATA

Type	Max. Speed rpm	Rated Power kW / hp	Mass Flow* kg/h / lbs/h	Width mm / in	Height mm / in	Length mm / in	Weight kg / lbs
MHP-A-310	1'180	168 / 225	450 / 990	3'200 / 126	3'650 / 144	5'200 / 205	14'000 / 30'870

*Gas composition: CH₄/N₂-85/15%. Suction pressure: 1.03 - 1.1 bar a (14.9 - 16 psi a). Gas suction temperature (pre-heated): -40 °C (-40 °F)

Burckhardt Compression

24-hour emergency tel.: +41 52 262 53 53
 info@burckhardtcompression.com
 www.burckhardtcompression.com