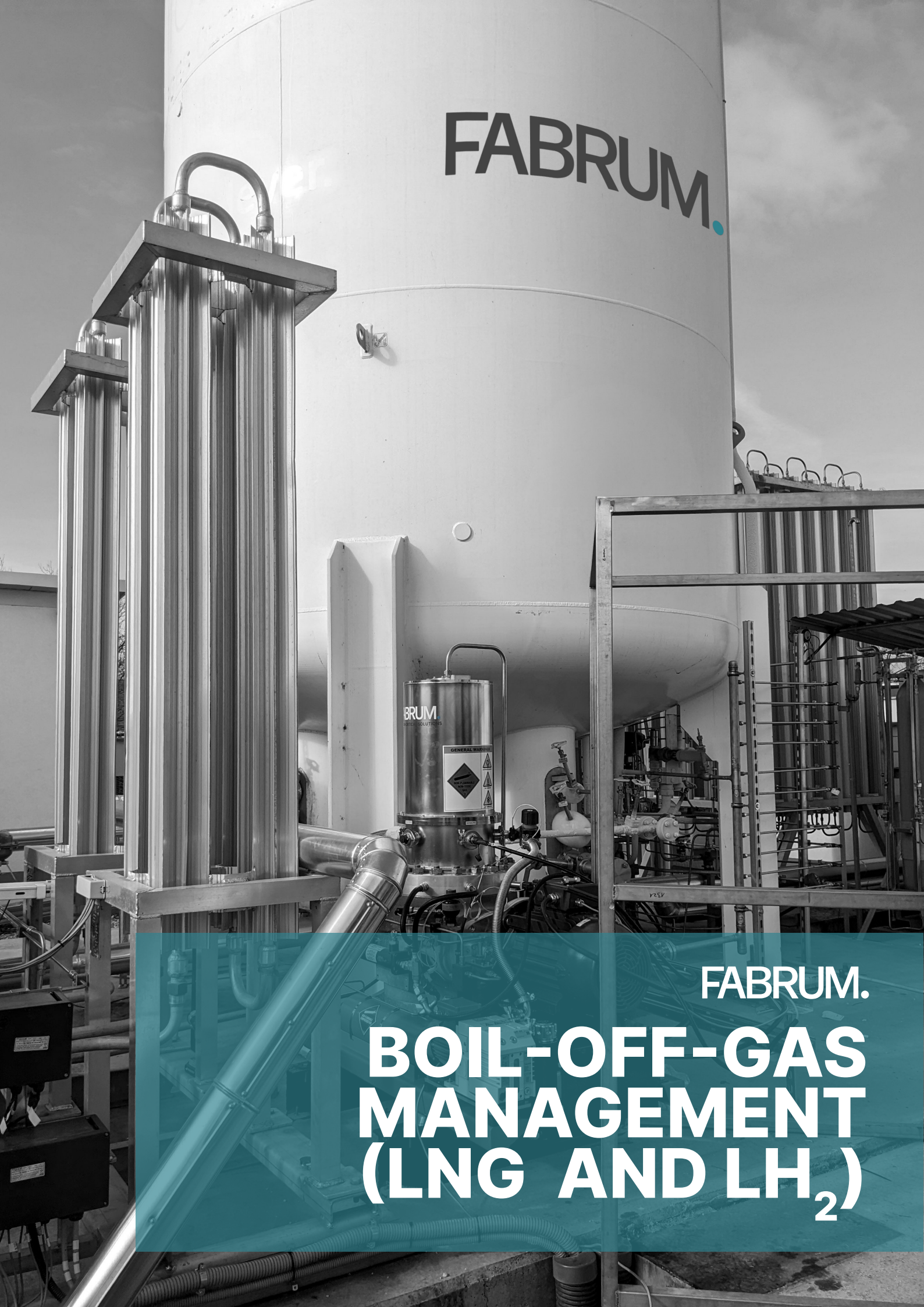


FABRUM.

BOIL-OFF-GAS MANAGEMENT (LNG AND LH_2)

BOIL-OFF-GAS MANAGEMENT

Harnessing a rich history of delivering cryogenic solutions globally, Fabrum presents cutting-edge boil-off-gas management (BOGM) systems for liquid natural gas (LNG) and liquid hydrogen (LH_2), tailored for diverse applications across industries that include aviation, mining, marine, and heavy vehicle road transport.

At the heart of these groundbreaking systems are high-efficiency reliquefiers, ensuring zero-loss storage of both liquid hydrogen and liquid natural gas. Our innovative approach facilitates seamless fuel storage, transportation, and trans-filling operations.

With unmatched reliability and performance our advanced liquid transfer and fuelling systems pave the way for sustainable energy solutions.

APPLICATIONS

Fuel storage

Vehicle fuelling stations

Fuel transportation and trans-filling

INDUSTRIES

Aviation

Mining

Marine

Heavy vehicle road transport

Alternative fuels

KEY BENEFITS

Reliquefiers for zero-loss storage of liquid hydrogen and liquid natural gas.

High-efficiency liquid transfer and fuelling systems.

Elimination of environmentally harmful emissions.

Preconditioning of receiver tanks for zero-loss fuel transfer.

Fabrum's BOGM systems deliver these attributes:

01 Utilisation of pulse-tube and Joule-Thomson technologies for high efficiency reliquefaction systems.

02 Retrofittable to existing storage to eliminate boil-off losses.

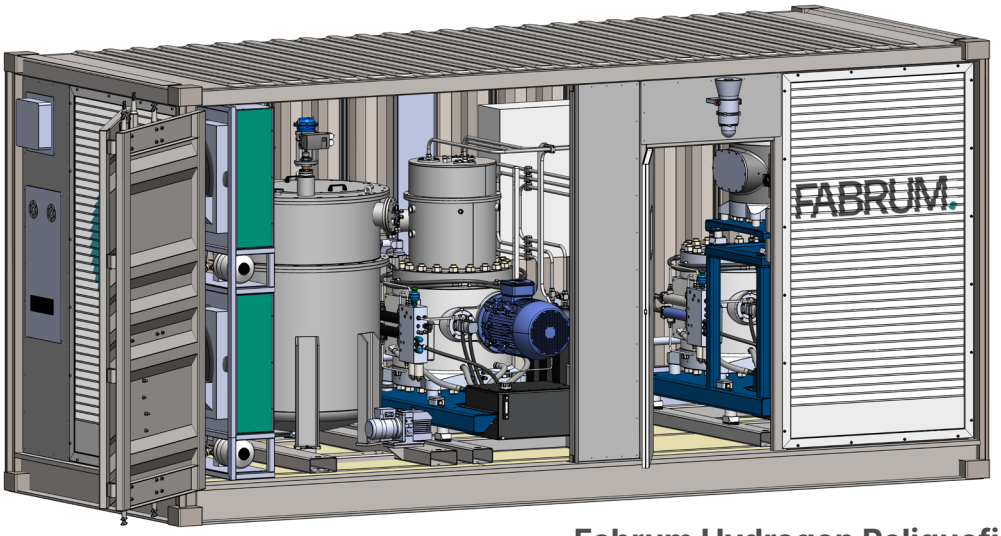
03 Design of end-to-end fuelling systems for maximum overall efficiency.

04 Pressure-management systems for optimised liquid transfer and storage.

05 Patented pressure-wave-generator pulse-tube cryocooler technology.

Revolutionising Cryogenic Solutions: Fabrum's LNG and LH_2 Boil-Off-Gas Management Systems.

Fabrum PTC330-LNG



Fabrum Hydrogen Reliquefier

PRODUCT SPECIFICATIONS	FABRUM HRL100	FABRUM PTC330-LNG
Applications	Liquid Hydrogen	Liquid Natural Gas
Daily reliquefier capacity (kg)	100	230
Reliquefaction pressure (barg)	2-7	8
Turn-down available	Yes	Yes
Minimum output (% of FS)	0	-
Footprint	1 x 20’ ISO container	1.3 x 0.8 x 1.7 m
Nominal power consumption (kW)	65	12
SEC for entire system (kWh/kg)	15	1.5
Start up time	<1 hr	<10 min

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