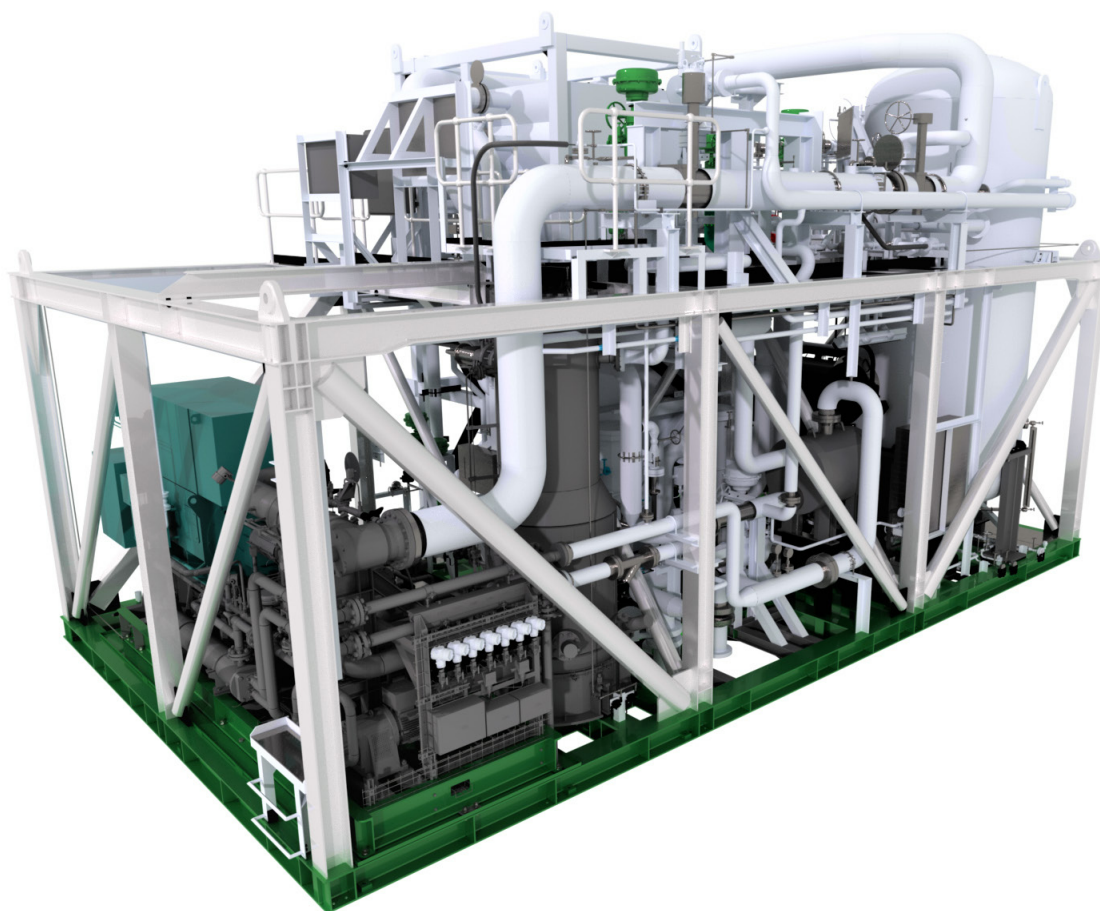




ecoSMRT®

Higher reliquefaction efficiency. Lower power. Greater flexibility.

Babcock LGE is a world-leading provider of cargo handling and fuel gas supply systems for the liquefied gas markets. Our environmentally focused technologies improve efficiency and enhance performance, delivering value to customers throughout the vessel's lifetime.

ecoSMRT® is Babcock LGE's Single Mixed Refrigerant (SMR) boil-off gas (BOG) reliquefaction technology. Its single-circuit, single compressor architecture returns excess BOG to the cargo tanks as liquid while delivering high reliquefaction performance with low specific power.

Lower power demand:

Highly efficient single mixed refrigerant architecture reduces electrical energy required for reliquefaction.

High reliquefaction capacity:

Standard ecoSMRT® guarantees 1.9tph natural boil-off gas (NBOG), with next generation ecoSMRT® extending guaranteed capacity to 2.5tph NBOG.

Lower maintenance demand:

Fewer rotating components reduce maintenance interfaces and spares requirements.

Operating flexibility:

Reliquefaction capacity is available independently of vessel speed, supporting changing operating and trading profiles.

Compact architecture:

A single refrigerant circuit and one refrigerant compressor reduce machinery requirements and the installed footprint.

Newbuild and retrofit capability:

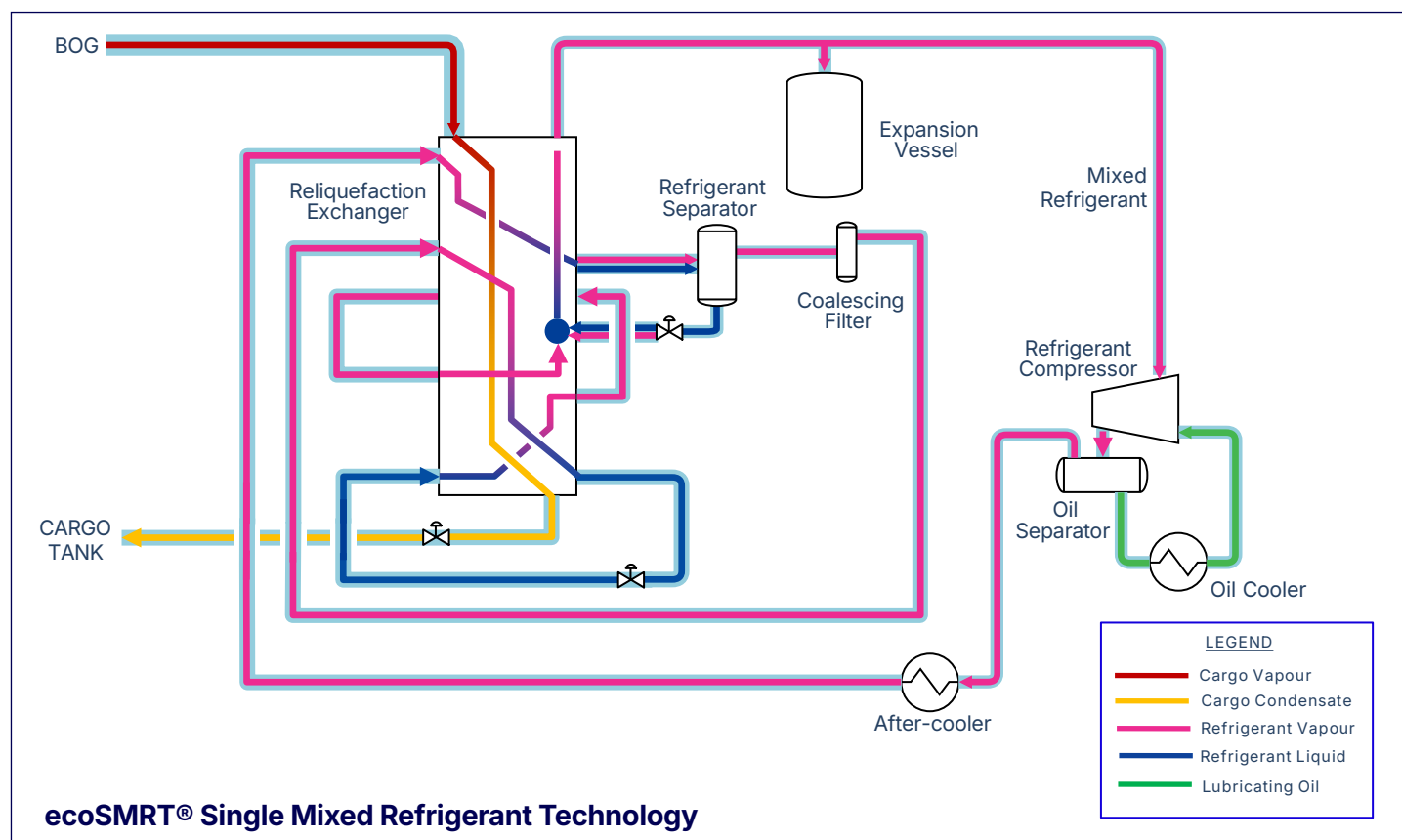
Modular architecture supports integration into new vessels and suitable liquefied natural gas (LNG) carriers already in service.

How it works

ecoSMRT® uses an SMR process to condense excess LNG BOG. BOG enters the reliquefaction exchanger, where the mixed-refrigerant circuit removes heat and condenses the vapour before it is returned to the cargo tanks.

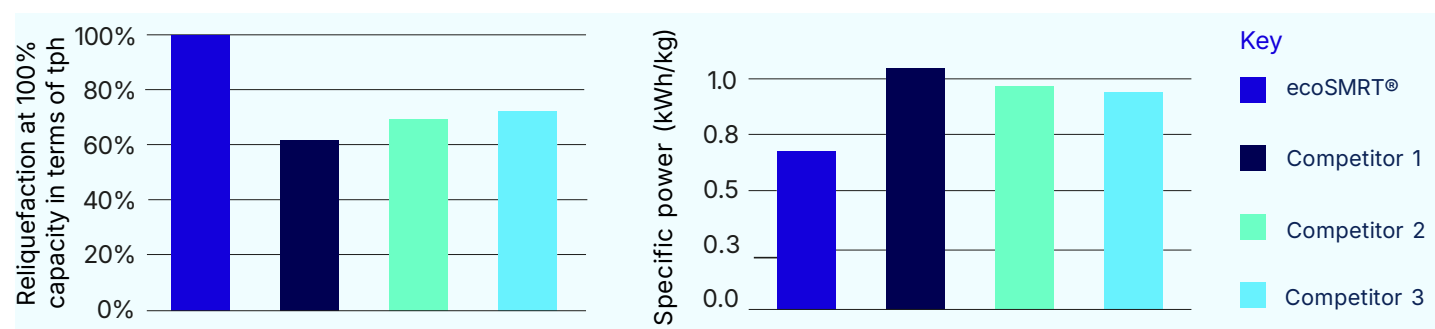
The process uses one refrigerant circuit and one refrigerant compressor, without external pre-cooling required by some alternative systems. The result is a compact architecture with fewer rotating components.

Less machinery. Less power. More cargo returned to the tank.



Proven efficiency at 1.9tph

ecoSMRT® delivers more reliquefaction from every unit of power:



Delivering value

By returning excess boil-off to the cargo tanks using less electrical energy, ecoSMRT® protects cargo value while reducing the operating cost of reliquefaction across the life of the vessel.

Protect the cargo. Protect the charter. Protect the value.

Contact us:

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