

ecoSMRT[®]

The market leading LNG reliquefaction solution

Babcock's LGE business 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[®], a Single Mixed Refrigerant (SMR) technology, has a proven track record in delivering unparalleled efficiency and operational flexibility to the LNG market.

Low CAPEX:

Compact, single, 'plug and play' module for ease of installation.

Low OPEX:

Single piece of rotating machinery and rigorous vibration analysis in design means low through-life maintenance requirement.

Efficiency:

30% increased efficiency, delivering higher reliquefaction capacity for lower power consumption, independent of ship speed.

Capacity:

Supports partial or full reliquefaction, with capacities up to 3.8 tonnes per hour in a single module.

Flexible in design; suitable for new-build and retrofit applications and all ship engine types.

Flexible in operation: delivering capacity independent of ship operating profiles.

Operability:

Fully automated operations. Fully integrated within ship-wide control platform.

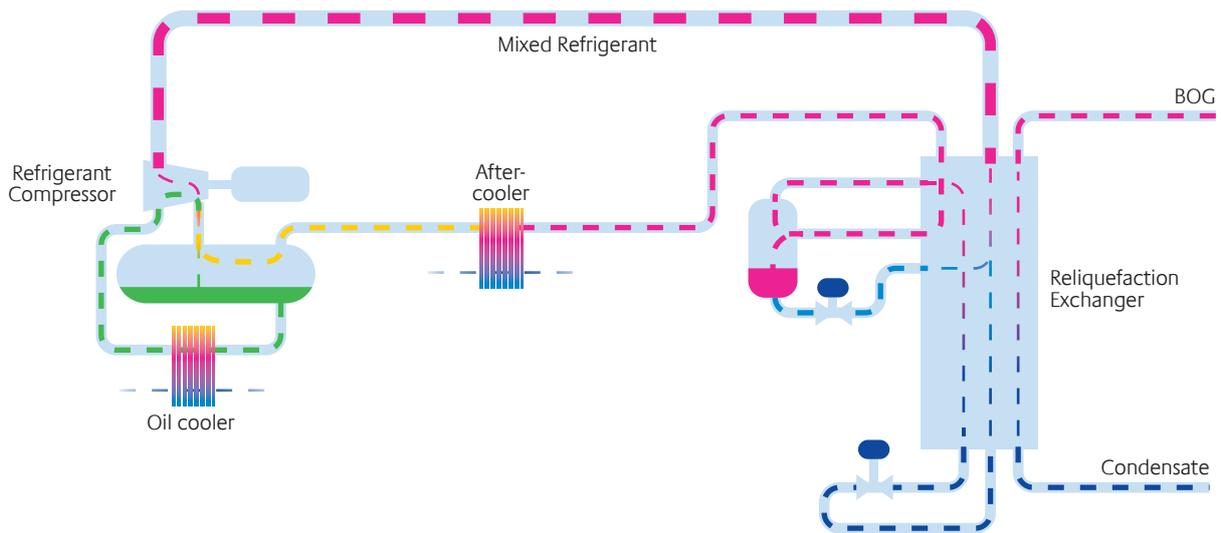


How it works

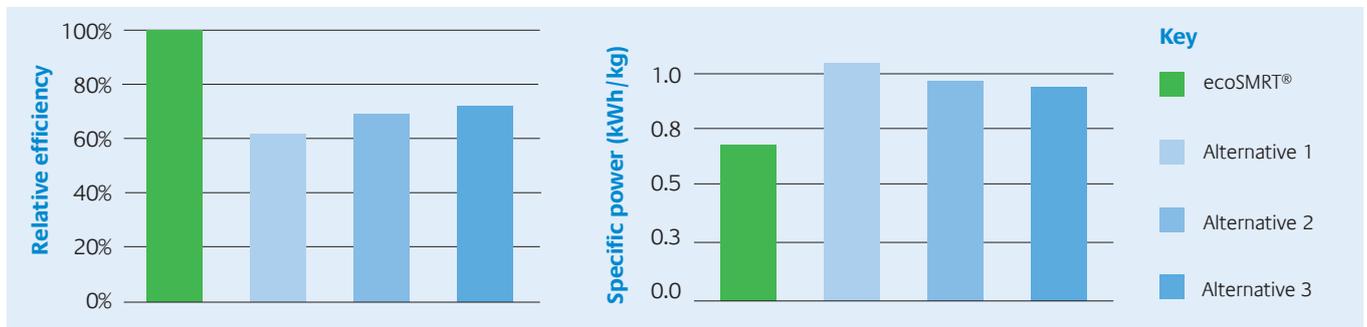
The fuel gas compressor supplies excess boil-off gas (BOG) to ecoSMRT®. This gas passes through the reliquefaction exchanger, in which the cold temperature required to reliquefy the BOG is provided by the SMR system.

The BOG condenses in the reliquefaction exchanger and is returned to the cargo tanks as condensate.

ecoSMRT® Single Mixed Refrigerant (SMR) system



ecoSMRT® delivers higher reliquefaction capacity for lower power consumption



Delivering value

ecoSMRT® requires lower power and fuel consumption whilst delivering more cargo to customers than competing systems – a considerable through-life saving.



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