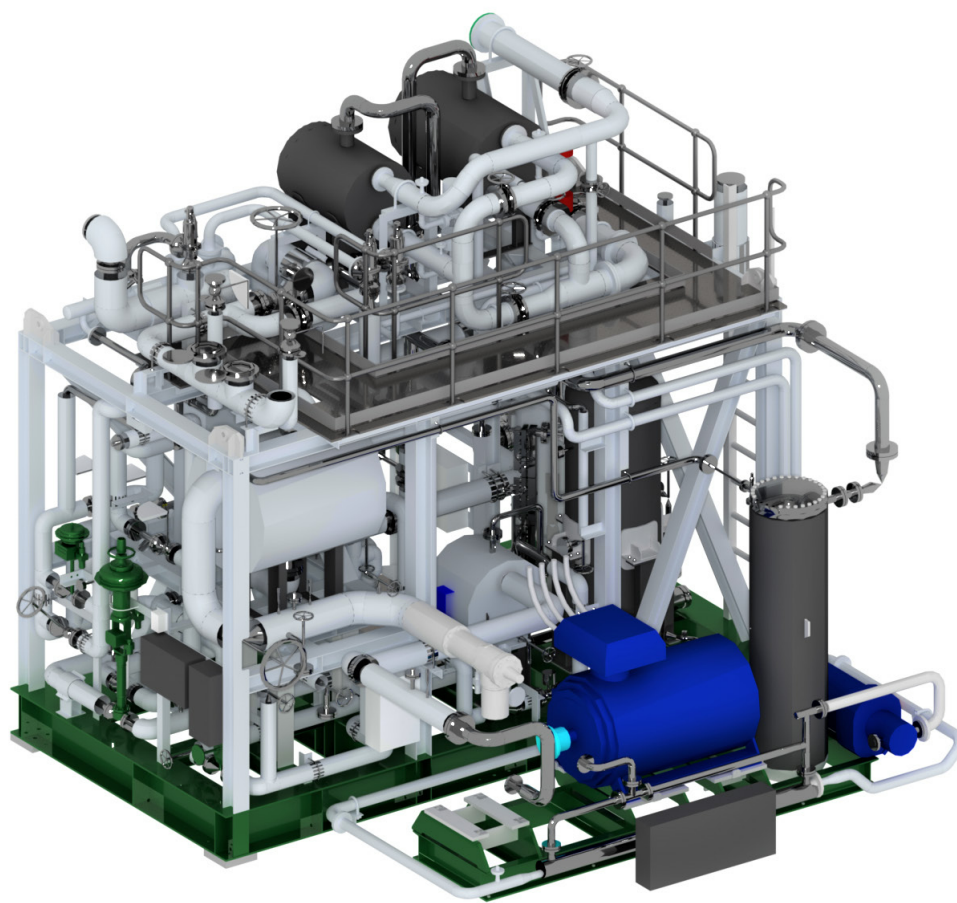




ecoETHN®

**Improved efficiency. Lower operating cost.
Smarter use of BOG.**

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.

ecoETHN® is Babcock LGE's patented integrated cargo and fuel gas solution for Ethane Carriers. It selectively manages methane-rich boil-off gas (BOG), using it as vessel fuel while reducing the duty placed on the cargo reliquefaction system.

Increased refrigeration capacity:

Provides additional refrigeration capacity, improving reliquefaction performance and helping maintain cargo-system throughput.

Lower operating cost:

Reduces reliquefaction demand and makes productive use of methane-rich BOG as fuel.

Greater cargo flexibility:

Enables transport of ethane with higher methane content, increasing sourcing and trading flexibility.

Improved energy efficiency:

Reduces energy consumption, lowering the operating burden on the cargo system.

Reduced operating time:

Improved capacity reduces loading and cooldown times.

Integrated by design:

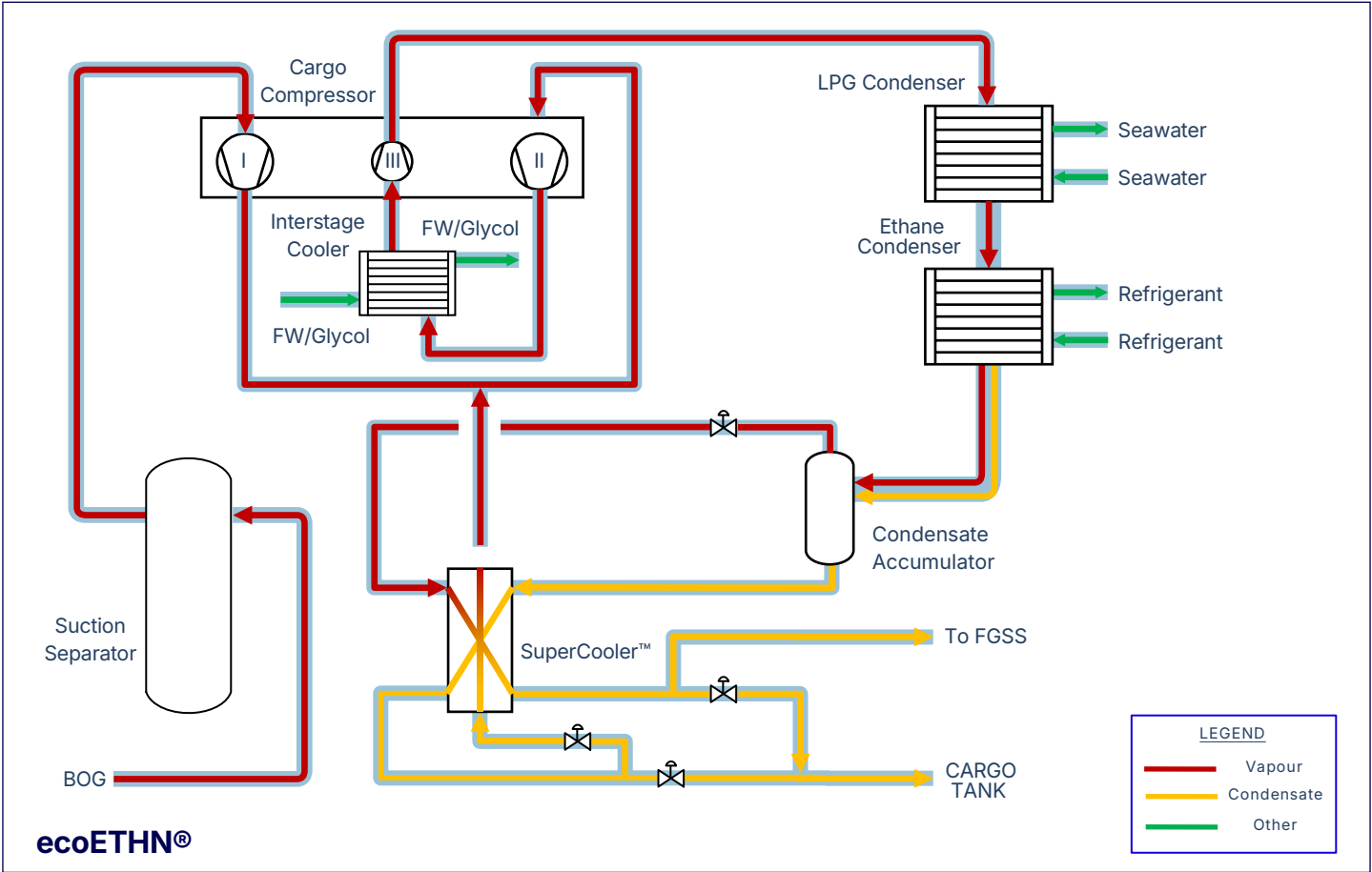
Combines cargo handling and fuel gas supply within one engineered system.

How it works

ecoETHN® connects the vessel's cargo reliquefaction and fuel-gas systems. A methane-rich side stream is directed from the cargo process to the fuel gas system, where it can be conditioned for use by the vessel's engines.

Removing methane in this way reduces its accumulation in the cargo and leaves the reliquefaction system to handle a more ethane-rich vapour stream.

Remove the constraint, use it as fuel and release cargo system capacity.



ecoETHN® consists of the following key sub-systems:

ecoETHN® Sub-system	Features
SuperCooler™	Improves reliquefaction-plant efficiency by increasing available refrigeration capacity while reducing energy consumption.
Liquid Fuel Injection	Routes a proportion of recondensed BOG into the ethane fuel stream to manage methane within the cargo.

Delivering value

Babcock LGE's ecoETHN® optimises voyage performance by reducing operating costs and enabling greater flexibility in ethane transport. By improving cargo system performance and making productive use of methane-rich BOG, it creates long term value across ethane transport operations.

Less cargo handling burden. Better use of energy already onboard.

Contact us:

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