

ecoVGC® can be switched between two modes of operation to optimise performance, depending on the cargo and voyage demands:

- › Coefficient of Performance mode - where ecoVGC® functions as a second economiser to maximise reliquefaction capacity, thereby increasing efficiency and reducing operating hours on the system for loading cool down and pressure maintenance.

› Volatile cargo mode - where ecoVGC® functions as a second economiser to maximise reliquefaction capacity, thereby increasing efficiency and reducing operating hours on the system for loading cool down and pressure maintenance. This mode is designed to ensure that all cargo content is fully condensed, and minimises cargo losses to the atmosphere during grade changing operations.

Both modes of operation have been granted a number of international patents.

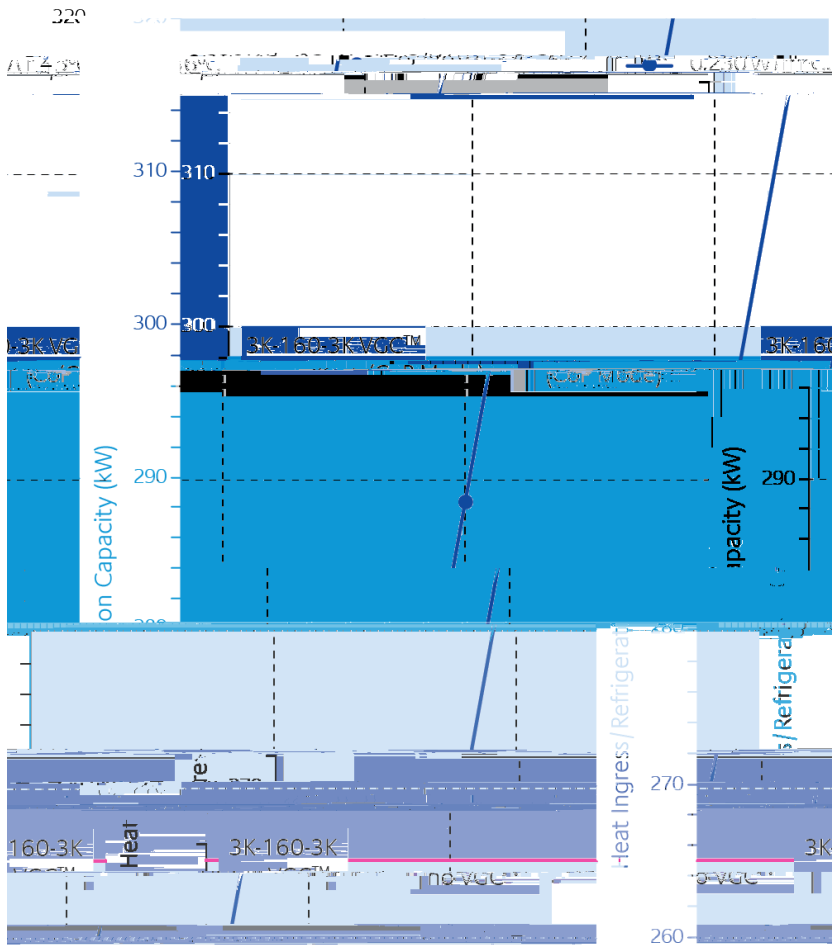
ecoVGC

VGC™ Feature	Benefit
Replace traditional four compressor reliquefaction plant to three compressor solution.	25% reduction in reliquefaction plant maintenance (reduced OPEX and 2nV8.45 4 (e)-13.5 (d)-5.2 (u)- 4Lar
	Increased efficiency with lower power consumption of up to 15%, with reduced generator fuel consumption.
Increased refrigeration capacity.	Reduced loading times up to 20% and up to 15% reducing running hours.
Capable of operating with high nitrogen levels.	Reduced cargo loss during purging - economic and environmental benefits.

allows cargoes such as

## ecoVGC® refrigeration capacity

Carriage of 8 mol% commercial propane



- › The refrigeration capacity required for fully refrigerated carriage of a 3 tank segregation of Commercial Propane (8 mol% ethane) is **288 kW**.
- › The refrigeration capacity of a Single BCA 3K-160-3K compressor (32 barg) at these conditions is **265 kW**, which rules out this selection.
- › Utilisation of the ecoVGC® increases this refrigeration capacity value to **299 kW** which is sufficient for carriage of a 3 tank segregation of Commercial Propane (8 mol% ethane).

ecoVGC® can provide a significantly higher refrigeration capacity during the carriage of 8 mol% Commercial Propane, compared to the cargo handling system alone.

Now more than ever, what we do matters: creating a safe and secure world, together.

### Get in touch

Babcock International Group, Rosyth Business Park, Rosyth, Dunfermline, Fife, KY11 2YD  
E: [lge.sales@babcockinternational.com](mailto:lge.sales@babcockinternational.com)  
W: [www.babcockinternational.com/lge](http://www.babcockinternational.com/lge)