LNT80E – 80 000 m³ VLEC

LNT80E is an 80,000m3 very large ethane carrier (VLEC) designed by LNG New Technologies. The design is based on the LNT A-BOX® containment system, which gives excellent volume utilization and allows for design of an efficient hull form.

LNT80E is a building friendly and energy effective VLEC for world wide trade. The LNT A-BOX® containment system enables fully refrigerated carriage of ethane in prismatic tanks offering excellent volume utilization and reasonable weight. At the same time the self-supporting independent tanks are robust and have internal structure, mitigating any sloshing issues and will thus not have any loading restrictions. The design may be made as a combination carrier capable of carrying both ethane and ethylene, LPG or LNG.

Main Dimensions

Length o.a.:	229.0 m
Length b.p.:	220.0 m
Beam moulded:	36.0 m
Depth moulded:	22.5 m
Design draught (ethane):	10.6 m
Scantling draught:	11.2 m

Deadweight & Tonnage

Deadweight (scantling):	approx. 50,000 ton
Gross tonnage:	approx. 50,400 -

Speed & Range

Service speed:	16.5 knot
Range:	approx. 12,500 nm

Machinery & Propulsion

The propulsion system shall feature one dual fuel main engine mechanically connected to a single shaft and propeller. The auxiliary generator sets shall be able to burn natural gas.

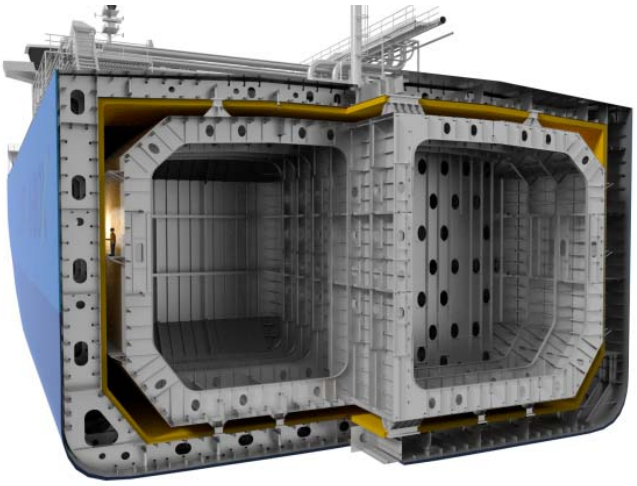
Dual fuel main engine:	approx. 13,400 kW
Auxiliary engines:	approx. 3,000 kW

Cargo System

No. of cargo tanks:	4 -
Total capacity:	80,000 m3
MARVS:	0.4 bar g
Design density:	0.6 ton/m3
Boil-off rate:	approx. 0.09% per day
Min.temp.:	- 104°C

LNT A-BOX®

The unique LNT A-BOX® containment system has been developed by LNG New Technologies. The LNT A-BOX® system consists of an IMO independent tank type A placed in an insulated hold space. The system combines proven technologies in a safe and cost effective configuration. The idea was to develop and commercialize a simple and efficient cargo containment system that could enable more shipyards to build the LNG carriers. LNT A-BOX® offers a number of advantages compared to other containment systems for LNG/LEG.



Building capacity and costs

- Enabling more yards to build LNG carriers
- Independent tank construction
- Simple and cost-effective design

Safety

- Easy inspection and maintenance
- No filling restrictions
- Robust tank design
- Independent barriers

Efficiency

- Excellent volume utilization
- Excellent thermal insulation
- Hull form flexibility

LNG New Technologies

LNG New Technologies is a company involved in technology development and ship design within the gas carrier segment. LNT has strong focus on innovation and provides building friendly, as well as cost- and energy efficient technologies and ship designs.

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