



LPB-41612

12K LNG BUNKER BARGE

This unrestricted ocean service 12,000m³ LNG Bunker has been designed with process-based LNG handling systems capable of loading and bunkering LNG at full flow vapor return while managing boil off gas pressure through insulation performance pressure accumulation, sub-cooling, and gas combustion unit. The systems are specifically designed to condition cargo to deep cryogenic temperatures, provide N2 inerting plus gas up (NG) and cool down specialty services to C-type and membrane (atmospheric pressure) LNG tanks.

Much more than an LNG bunker barge, this proven LNG system design provides all the services of an LNG terminal on an efficient and economical mobile platform.

Overall Dimensions

Length Overall..... 416'
 Light Draft 11'-10"
 Breadth 68'
 Liquefied Natural Gas .. 12,000 m³
 Deep Draft..... 19'
 Regulatory: ABS A1 LNG Gas Tank Barge, ATB, SOLAS, IGC Code, OCIMF, SIGTTO, AMS, UWILD, IHM, IEC, USCG Policy Letters, CPS, CRC, LNG Bunkering, Unrestricted Ocean Service

Specialized Equipment

LNG Storage Tanks..... 2 x 6000 m³ Class C-Type Bi-Lobe LNG Tanks – 4 bar max pressure
 Transfer Pumps 4 x Svanehoj DW250 LNG cargo pumps (750 m³ / hr)
 Gas Combustion Unit.. SAAKE horizontal GCU (1.0 tons / hr)
 Sub-Cooler Air Liquide TBF-700 (1.0 tons / hr)
 Atmospheric Vaporizer ...Cryoquip - 1,000 kg/hr up to 1 bar

Specialty Services

- NG- Gas up Service with Vaporizer & GCU
- Cool Down Service @ full flow 1500m³/hr Vapor Return (Type C & Atmospheric Tanks)
- N2 Inerting Service up to 750m³/hr with a high-volume PSA N2 generator

Barge Specification Highlights

- LNG Bunker/Loading Rate -1500 m³ per hour @ full flow vapor return
- Designed to B/5 for operational safety.
- Insulation Performance – BOG rate of 0.19% /24 hrs
- Process Based Automation – Siemens & Flemming Automation
- ABS Classed / USCG approved and proven “sister ship” design.
- ABS Approved – Remote Control & Monitoring System (RCMS Notation)
- Static & Dynamic Custody Transfer System with Ramen analyzer
- Trelleborg Universal Safety Link + Ship to Shore Link with SIL2 rating
- PSA & Membrane Nitrogen Generation Systems with dedicated compressors

