

4,000 - 8,000m <sup>3</sup> LNG carrier (propeller)	
Length	107.78m
Breadth	28.00m
Depth	4.50m
Design draft	2.00m
LNG cargo tank capacity	4,000 - 8,000m <sup>3</sup> at 95%

4,000 - 8,000m <sup>3</sup> LNG carrier (thruster IMO DPS 2)	
Length	102.90m
Breadth	24.60m
Depth	6.00m
Design draft	2.00m
Air draft	21.13m
LNG cargo tank capacity	4,000 - 8,000m <sup>3</sup> at 95%



## Ultra-Shallow Draft LNG Carrier

### Features:

Designed with the forward and aft lines configured into a V-form to reduce the waterline entrance angle and vessel resistance in waves

Can be ballasted in open water to improve both stability and speed

Deck stiffness and strengthening to suit final operational envelope and desired class notation

### Yard:

Batangas Heavy Fabrication, Yard 1 San Roque, Bauan, Batangas 4201

## Company Overview

AG&P is a 118-year-old industrial infrastructure company with world-leading credentials across our three lines of business: Gas Logistics (LNG supply chain design, development and marketing), Modular Construction and FieldCOM (manpower services and site works). We have a long, established heritage of successfully serving blue-chip clients on some of the world's most demanding projects in the mining, utilities and oil and gas sectors.

**Gas Logistics:** AG&P delivers gas logistics solutions for new, growing markets through a unique and fully integrated platform with LNG engineering, technology, manufacturing, project management, local marketing, commercial and operational skills for LNG or natural gas delivery. Our innovative, customer-centric approach allows project owners the flexibility to choose the infrastructure they need according to the site and current demand. We simplify LNG logistics and make it affordable for our customers to switch energy sources.

**Modular Construction:** AG&P builds the world's infrastructure in Lego-like pieces in our highly controlled, world-class manufacturing facilities in the Philippines. We have a strong track record of providing award-winning modular construction solutions for LNG plants, refineries, petrochemical facilities, mining operations and utilities plants around the world. Our dense, high-value modules significantly improve project capex and schedule, while maintaining world-class quality and safety.

**FieldCOM:** AG&P's onsite construction team (Field Construction, Commissioning, Operations and Maintenance) provides clients with highly trained, experienced professionals and craftsmen who are deployed to project sites across the world. These dedicated teams of professionals take responsibility for functions at project sites from installation of AG&P's own modules and their subsequent commissioning, operation and maintenance (O&M) to full onsite construction.

## Unique Design of the LNG Carrier

AG&P's full Azimuth Electric Drive IMO DP2 vessel is a workhorse designed specifically to meet the LNG delivery challenges presented by shallow rivers and restricted harbors. With a two-meter draft, the workhorse vessel is designed for both seagoing and riverine environments and is able to transfer LNG cargos near shore and offshore. Flexible and economical, the vessel has a speed of eight knots and does not need handling tugs. Its full Dynamic Positioning DP2 designation means versatile operation in any harbor.

### Vessel propulsion and controls

- Vessel propulsion is provided by 2 x DF 9L20DF engines rated 1665kW
- Standby generator set of 1 x DF 6L20EF 1065kW
- Moored vessel can provide 3500kW shore power through shore interface
- Retractable azimuth thrusters

### Cargo containment system

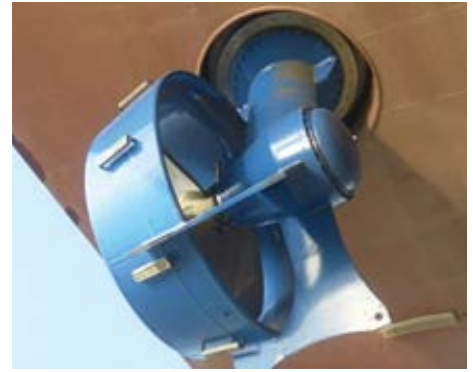
- Cargo containment system is GTT MKIII membrane
- BOG 0.45V% / d: 347kg/hr
- Single tank with chamfered corners can withstand sloshing loads up to Beaufort Sea State 4/5 without reinforced foam
- Can discharge LNG into Type C tanks
- Capable of partial loading

### Cargo handling system

- BOG handling has an optimized configuration
- Two liquid lines and single vapor return
- LNG cargo pumps rated at 600m<sup>3</sup>/hr
- CCS cooled down using spray pump
- CAM system fitted

### Ordering and delivery

- The ultra-shallow draft LNGC has a delivery time of approximately 14-16 months from order placement based on existing design specifications
- The standardized design features save money in engineering, procurement and build
- Capex is significantly optimized
- To discuss your specific requirements, please contact [bd@agp.ph](mailto:bd@agp.ph)



Retractable bow thruster



GTT's unique MKIII membrane



BOG design



For more information, visit [www.agp.ph](http://www.agp.ph)

Published June 2018