



AT-12840 B-24464

5000 M³ LNG BUNKER ATB

The 5000m³ LNG Bunker Articulated Tug/Barge Unit (ATB) has been designed with process-based LNG handling systems capable of loading and bunkering to and from ship or shore at full flow vapor return and manage boil off gas pressure through pressure accumulation, sub-cooling, and gas combustion unit. The system is 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 LNG tanks.

Overall Dimensions

Length - Tug & Barge..... 372'
 Draft (Max Loaded)..... 16'
 Breadth 64'
 Liquefied Natural Gas...5000 m³
 Design Draft 13'4"
 Regulatory:..... ABS LNG Tank
 Barge, IMO, SOLAS
 IGC Code, OCIMF,
 SIGTTOI, AMS, UWILD,
 IHM, USCG Policy Letters

Specialized Equipment

LNG Storage Tanks..... 2 x 2550 m³ Class C Type Cylindrical
 LNG Tanks – 4 bar max pressure
 Transfer Pumps 4 x LNG cargo pumps (500 m³ / hr)
 Gas Combustion Unit... SAAKE horizontal GCU (0.5 tons / hr)
 Sub-Cooler Air Liquide TBF-350 (0.5 tons / hr)

Specialty Services

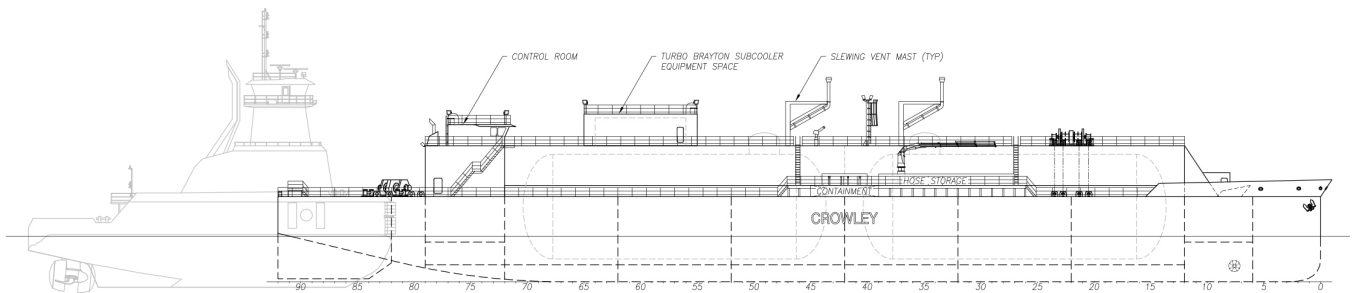
- Gas- up Services (Vaporizer & GCU)
- Cool Down Service @ full flow Vapor Return (Type C & Atmospheric Tanks)
- N₂ Inerting Service (750m³/hr)

Tug Specification Highlights

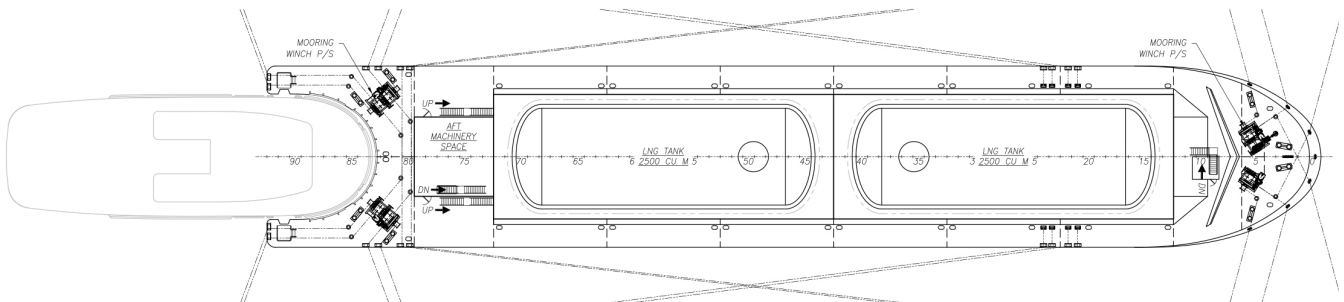
Length Overall.....	128'
Beam	40'
Design Draft	16'
Air Draft	81'
Displacement	984 tons
Gross Tonnage (IRC)	<1000 tons
US Reg. Tonnage (GRT)	<300
Fuel Oil (98%).....	122,050 gal.
Lube Oil (98%)	5,190 gal.
Potable Water	11,320 gal.
Ballast Water.....	78,300 gal.
Main Engines	2 x GE Tier IV (no after treatment) rated at 3350 hp each.
Thrusters	2 x Schottel (4 blade / fixed pitch) Azimuthing Thrusters
Aux. Generators	3 x Diesel, EPA Tier III (no after treatment) - 99 kW / 480V
EDG	1 x Diesel, EPA Tier III (no after treatment) - 88 kW / 480V

Barge Specification Highlights

- LNG Bunker/Loading Rate -1000 m³ per hour @ full flow vapor return
- Designed to B/5 for operational safety.
- Insulation Performance – BOG rate of 0.20% /24 hrs
- Process Based Automation
- Slewing Vent Mast for adjustable Hazardous Zones
- Designed for cruise ship and cargo vessel compatibility.



ELEVATION 2-A
OUTBOARD PROFILE
SCALE: 1/32"=1'-0"



PLAN 2-B
MAIN DECK
SCALE: 1/32"=1'-0"