



DRAGON

LNG Semi-Trailer Equipment



EQUIPMENT SPECIFICATIONS:	
PRODUCT SERVICE:	LNG
MAWP:	70 PSIG (4.83 BAR))
WARM WATER CAPACITY:	12,570 gal (47,582 liters)
VOLUME AT 70 PSI FILL DENSITY	11,216 gal (42,457 liters)
TARE WEIGHT:	25,100 lbs. (11,385 kg)
LENGTH:	47 ft. 8 in (14.53 m)
WIDTH:	102in (2.59 m)
HEIGHT:	11 ft. 11-.75" (6.65 m)
DESIGN CODES:	ASME SEC VIII, DIV 1 USDOT SPECIFICATION MC-338 COMPRESSED GAS ASSOCIATION (CGA) 341 ASME/ANSI B31.3
DESIGN TEMPERATURE	-320° F / +100° F
NORMAL EVAPORATION RATE (NER):	0.4% LN2

DESIGNED TO PERFORM

Dragon's LNG Transport Trailers are vacuum-insulated cryogenic pressure transfer semi-trailers designed for performance, ease of operation, and safety.

Dragon builds products to high standards, ready to excel in harsh environments. And, as always, Dragon backs every product it manufactures with the support you need.

The Dragon model ACT-LNG-1370 is optimized specifically for transporting Liquefied Natural Gas (LNG) over US highways. This vacuum-insulated, cryogenic pressure transfer semi-trailer is designed for performance, ease of operation and safety.

The Model ACT-LNG-1370 offers one of most competitive payloads in the industry and meets or exceeds all design code requirements.



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LNG Semi-Trailer Equipment

INNER VESSEL

- Designed, tested and stamped in accordance with ASME Section VIII Division 1
- Stainless Steel
- RT-2 Radiography (RT-1 available upon request)
- 3 Transverse Baffles
- Cleaned for oxygen service per CGA 4.1
- Manway: welded (non-access)

OUTER VESSEL

- Designed to withstand 30 psig external pressure per CGA 341
- Two Jacket Safeties (REAR) to prevent rupture in the event of inner vessel leak or interconnecting piping leak
- A1011-50 Carbon Steel
- 304 SS Rear Course (72" width)
- 304 SS Rear Piping Head
- Lift Eyes (for lifting empty trailer only)

INSULATION AND ANNULUS

- SI Super Insulation System: Designed to work under high vacuum, increasing thermal performance and minimizing product loss due to heat transfer.
- DV-6 Rugged Thermocouple Tube
- 1-1/2" Vacuum Valve

RUNNING GEAR

- 102" wide, Corten A588 carbon steel
- Intraax Air Ride suspension
- Meritor Anti-Lock Brake System (ABS)
- RSS (Roll Stability System)
- Tire Inflation System
- Anti-Tow-system
- Tires (295\75R22.5 Low Profile)
- Wheels (22.5-8.25, 10 Hole, hub-piloted aluminum)
- Unpainted aluminum front & rear fenders

PIPING

- Designed and tested in accordance to ASME B31.3
- Pressure transfer delivery
- Stainless lined Pressure Building Coil (transfer rates up to 205 GPM) with rock guard

PIPING CONTINUED

- Optional Equipment: Pressure Building Regulator (for maintaining head pressure while discharging)
- Piping arrangement allows for ground level access for filling and discharging operations and easy accessibility to control valves
- Piping components cleaned and certified for oxygen service
- Stainless steel valves
- Stainless steel valve identification labels

PIPING CONTROL CABINET

- Aluminum control cabinet
- Stainless drip pan
- Etched liquid level chart and piping schematic secured to cabinet door
- Stainless steel instrument panel
- Cabinet louvers (roadside and curbside)

ELECTRICAL

- LED long life electrical system
- Explosion proof super bright interior light (cabinet interior)

KING PIN AND LANDING GEAR

- Holland high capacity landing gear
- 2" King Pin (industry standard) weld on
- 3/8" adjustable King Pin plate
Paint and Decals
- ACT white, 3-Coat Paint System
- Trailer marking and labeling in accordance with DOT requirements for transporting LNG by highway (49CFR)

ADDITIONAL ITEMS

- DOT 20 lb Fire Extinguisher
- 10" x 18' Transfer Hose Tube
- 3" x 17' Cryogenic Transfer hose
- LNG Specific: Static ground reel, Scully ground bolt secured to bumper, Static ground strap.
- Safety cones and cone holder
- Chock Blocks

