

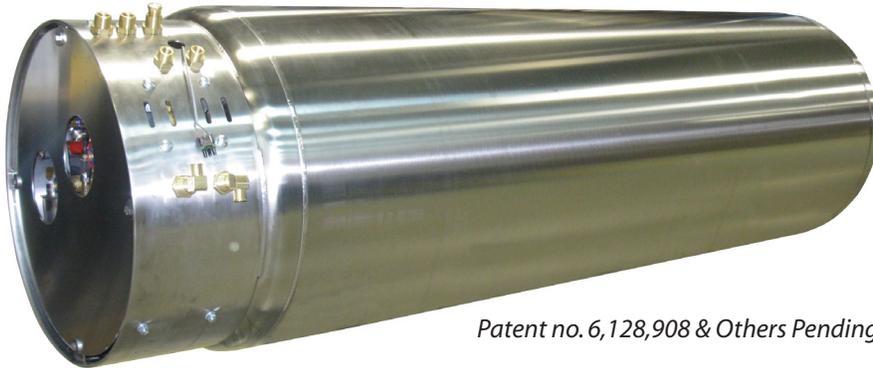
# HLNG VEHICLE TANKS



[www.ChartLNG.com](http://www.ChartLNG.com)

## LNG Vehicle Tank Systems

Chart is the world's leading producer of cryogenic cylinder tanks. The ISO 9001 and ISO 14001 certified facility in Canton, GA has produced over 1,000,000 stainless steel cylinders. That experience results in a high quality, safe, reliable LNG vehicle tank that will absorb the on-the-road abuse in heavy-duty vehicles.



*Patent no. 6,128,908 & Others Pending*



## PRODUCT HIGHLIGHTS

- Requires approximately less space and weighs significantly less than comparable DGE capacity CNG tanks
- Longest hold times in the industry at 7 to 10 days – even with saturated fuel
- Designed, constructed and tested to all applicable standards:
  - o US Specifications: SAE J2343, NFPA 52, CA Title 13, TRRC
  - o Available Specifications: R110, TPED, RDW, AS1210, PESO, GOST, KGA, KHK
  - o System drop and fire tested, components tested per R110
- Ullage system – maximizes hold times
- Auto refrigeration circuit – resets hold-time clock
- 2<sup>nd</sup> generation cryogenic super insulation – proven to be durable in service
- “Integrated” system includes vaporizer and necessary components in an easy to install package
- Both inner and outer vessels constructed from austenitic stainless steel
- Operating Pressure Range between 50 – 150 psi
  - o Maximum Allowable Working Pressure – 230 psi
- Standard, bonus and lite designs – Chart's engineering team can customize a tank for any application and provide world class project support from initial design through product launch

## DEBUNKED MYTHS OF LNG TANKS

- Lighter and more compact than even the most modern CNG systems
- Zero losses for 1 week +
- Auto refrigeration system resets hold-time clock while the vehicle is driven
- Cryogenic super insulation remains durable for many years without maintenance
- No annual inspection or maximum service life

# HLNG VEHICLE TANKS

LNG VEHICLE TANK SYSTEMS

INTEGRATED TANK SPECIFICATIONS								
MODEL*	HLNG-150 'Lite'		HLNG-150		HLNG-158 'Bonus'		HLNG-206	
Dimensions	in	mm	in	mm	in	mm	in	mm
Diameter	26	660	26	660	26	660	26	660
Length	86	2184	90	2286	90	2286	120	3048
Capacity	gal	ltr	gal	ltr	gal	ltr	gal	ltr
Gross	150	561	150	568	158	600	206	776
Net	135	511	135	511	142	538	185	700
DGE/DLE***	69	261	69	261	72	273	94	356
Weight	lbs	kg	lbs	kg	lbs	kg	lbs	kg
Empty	625	283	635	290	675	306	830	376
Full**	1041	471	1051	476	1112	504	1400	634

\* Available in custom sizes from 13" to 34" diameter up to 280 gross gallon capacity.

\*\* Full weight calculations are based on 3.08 lb/gal (.37 kg/ltr) density LNG.

## \*\*\*DGE CALCULATION DETAILS

- CVEF recommends **6.06 lbs/DGE**
- Density of LNG at 100 psi (common operation pressure) = **3.08 lbs/gallon**
- DGE calculation:
  - o DGE capacity = Net capacity x (3.08 lbs/gal ÷ 6.06 lbs/DGE)
- HLNG-158 DGE calculation:
  - o Net capacity = 142 gal
  - o DGE capacity = 142 gal x (3.08 lbs/gal ÷ 6.06 lbs/DGE) = **72 DGE**

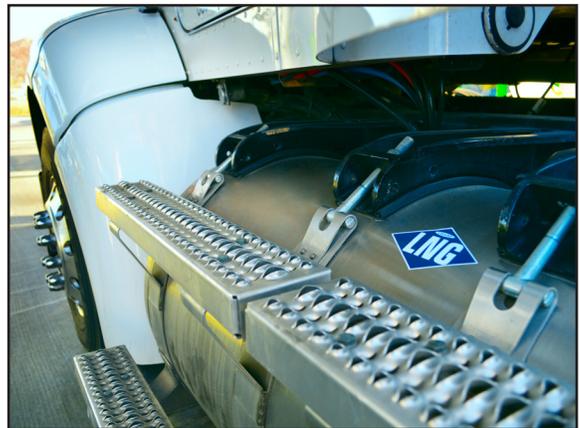


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