

# 7.500 cbm LNG/LPG/ Ethylene/ Ammonia/ VCM-Carrier "Coral Methane" for ANTHONY VEDER, Netherlands

**Project Data:**

**Shipyard:**

Remontowa, Gdansk, Poland

**Year of completion:** 2009

**Classification:** BV

**TGE's scope:**

EPCS-contract, gas handling system & cargo tanks, ship design development

**Vessel:**

7.500 m<sup>3</sup> semi ref. LNG carrier, type 2G  
 Length o.a. 117,80 m  
 Beam: 18,60 m  
 Draught (LPG): 6,80 m  
 Speed: 15,5 kn



**Characteristics of gas plant:**

Capacity:	7.500 m <sup>3</sup>
Number of cargo tanks:	2
Material:	AISI 304L
Cargoes:	LNG/LPG/Ethylene/Ammonia/VCM
Design temperature / pressure:	-163°C/ 3,2 bar g acc. to IMO at sea
Maximum cargo density:	650 kg/m <sup>3</sup>
Number of segregations:	2
Cargo manifolds:	3 liquid lines, 6", 8", 8" ANSI 300 lbs flanges 3 vapour lines, 4", 6", 6" » ANSI 300 lbs flanges
Loading-/Unloading-rate:	900 m <sup>3</sup> /h (with vapour return)
Deepwell pump:	2 x 450 m <sup>3</sup> /h/at 120 m LC for LEG/LPG 2 x 450 m <sup>3</sup> /h at 210 m LC for LNG
Booster pump:	1 x 450 m <sup>3</sup> /h at 120 m LC
Cargo heating / vaporising equipment:	1 indirect ethylene vaporiser 900 m <sup>3</sup> /h at 15°C sea water temp. 1 direct sea water heated LPG-heater / vaporiser 174 t/h propane - 42°C to 0°C at 15°C sea water, vapour 3 t/h 1 indirect LNG Vaporiser, vapour 1t/h

**Reliquefaction system:**

Cascade / direct cycle (not including LNG)  
 2 x refrigerant compressors (refrigerant R 404 A)  
 2 x cargo compressors  
 1 suction gas heater for fuelgas  
 Stainless steel,

**Cargo piping system:**

**Nitrogen generation plant:**

Pressure swing adsorption  
 750 Nm<sup>3</sup>/h at 0,5 vol. % O<sub>2</sub>

**Deck Tanks:**

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 Capacity: 80 m<sup>3</sup>  
 Design Pressure / Temperature: 18 bar g/ -163°C