

4,200 m³ Ethylene-Carrier MT "Max Planck" for HARTMANN SCHIFFAHRTSGESELLSCHAFT, Germany

Project Data:

Shipyard:

JIANGNAN SHIPYARD, China

Year of completion: 1992

Classification: GL

TGE scope:

Turn-key contract,
gas handling system & cargo tanks

Vessel:

4,200 m³ semi ref. Ethylene-carrier,
type 2G

Length o.a.	99.9 m
Beam:	16.2 m
Depth (main deck):	9.0 m
Draught (LPG):	5.9 m
Speed:	13.3 kn



Characteristics of gas plant:

- Capacity: 4,200 m³
- Number of cargo tanks: 2 (1 bilobe + 1 cylindrical – type)
- Material: 12 Ni 19.5 % Ni-steel, DIN Mat.-No.: 1.5680
- Cargoes: Ethylene/LPG/NH₃/VCM/Chemicals
- Design temperature / pressure: -104°C / 4.7 bar g acc. to IMO
3,1 bar g acc. to USCG
- Maximum cargo density: 972 kg/m³
- Number of segregations: 2
- Cargo manifolds: 2 liquid lines, 2 x 6", ANSI 300 lbs flanges
2 vapour lines, 2 x 4" ANSI 300 lbs flanges
- Loading-/ Unloading rate: 450 m³/h / 450 m³/h
- Deepwell pumps: 3 x 150 m³/h at 120 m LC
- Booster pumps: 1 x 260 m³/h at 120 m LC
- Number of cargo heater: 2 direct sea water heated type
- Capacity: 260 m³/h Propane from -42°C to -2°C at 15°C
Sea-water temperature

Reliquefaction system:

Cascade cycle, refrigerant R22
3 x SULZER compressor

Inertgas plant:

- Capacity: Combustion-Generator
500/325 Nm³/h at 85/99.4 vol. % purity