

Offshore Facilities Gas Carrier

PROJECT

Project name:

Ethylene Gas Tanker

Country:

Germany

Client:

Reederei Hartmann
for GASCHEM

Year:

2003

GOC project:

7015/7017/7020



Source: Hartmann Reederei

PROJECT DESCRIPTION

Reliquefaction system for 8,600 m³ semi-pressurized gas tanker

Cargoes:

Ethylene, Propylene, Propane/Butane Mixtures, Commercial Propane, Ammonia including:

Two open-cycle reliquefaction systems with three oil-free labyrinth reciprocating compressors (Cargo compressor)

Two closed refrigerant cycles with two screw compressors (refrigerant compressor) Refrigerant R 404 A

Process equipment, condenser, vaporizer, flash drum, surge drum

R404 screw compressors with unique VFD start up and control device

PROJECT PHASES

Consultancy

Design

Engineering

GOC DISCIPLINES

Process

Mechanical & rotating equipment

Instrumentation & control

GOC WORK SCOPE

Pre-design and selection of reliquefaction system

Process simulation

Process design basis

Process data sheets

Control function description

PFD/PID

Specification of mechanical & rotating process equipment

Procurement assistance

Specification-process & utility instrumentation