2. DESIGN SPECIFICATION

2.1. Technical Data of Transport Vessel

General data

Service	:	LNG
UN-Class package	:	T75
Geometric volume	:	54.500 L (theoretical)
Operating volume (96,5%)	:	52.592 L
Operating volume (77%)	:	41.495 L
Holding time	:	see annex 5

Design data

Design regulations	:	ADR / RID / IMDG / TIR / CSC / TPED
Design code inner vessel	:	EN13530 / AD-2000
Design temp. vessel min/max	:	-196/+20 °C
Service temperature	:	-40/+50 °C
Max. Allowed Working Pressure (M.A.W.P.)	:	10 barg (145 psig)
Test pressure	:	14.3 barg (207 psig)
Set pressure safety valves	:	10 barg (145 psig)
Design temp. valves min/max	:	-196/+60 °C

Unit dimensions

Tare weight	: ±	16.000 kg
Max. Gross Weight	:	36.000 kg
Payload max.	:	20.000 kg

Outer vessel data

Material	:	S235JR / EN 10025 being carbon steel
Outside diameter	:	2530 mm
Wall thickness	:	5/6 mm

Inner vessel data

Material	:	1.4311 / EN 10028-7 being stainless steel
Outside diameter	:	2330 mm
Baffles	:	7 pieces, fixed, ≥70% area
Radiography	:	100% longitudinal welds 100% circumferial welds
Wall thickness	:	6.6 mm (nom.)

2.2. Technical Data of Pressure build-up vaporiser

General data

Profile type	:	83-683 with stainless steel liner
Material	:	AlMgSi0, 5F22
Length	:	3x5 m
Capacity	:	220 Nm³/h, at 2 bara and ambient temperature of 20˚C and good ventilation during 2 manhours