

**GOFA gas tank semi-trailer
for the transport of refrigerated liquefied
carbon dioxide UN 2187****Approvals:**

- approval for traffic
- StVo / ADR

Design:

tank code	R30BN
test pressure	30,00 bars
working pressure	23,00 bars
calculating temperature	-40 °C - +50 °C

Weights and construction guidelines:

max. gross weight of the combination	34000 kg
presumed weight of the truck	7000 kg
axle load	24000 kg
max. axle load of the trailer	27000 kg
fifth wheel load	10000 kg
tare weight	10100 kg
tolerance weight	+/- 2%
payload	22900 kg
fifth wheel height	1400 mm

Vessel:

shape	self-supporting pressure vessel cylindrical
approval	ADR / GGVSEB
capacity	22500 l
baffles (aluminium)	2
material tank	ESTE 460
x-ray of the vessel	100%
manhole	DN 500 in the front bottom

Insulation:

type	two-ply PIR solid insulation with vapour barrier
thickness	150 mm
insulation cover shell	1 mm thick aluminium sheets
insulation bottoms	GRP

Instrument cabinet:

position	middle cabinet and small rear cabinet
----------	---------------------------------------



material	aluminium
operation	2 flap doors on each side
lighting	1 working lamp

P&ID:

main valves	
- liquid phase	bottom valve DN 80 operated hydraulically
- gas phase	ball cock DN 40 make Mecafrance
pipelines	all pipelines made of stainless steel
filling line	in DN 65 - filling line can be used for discharge without pump and metering system - filling line connected to the spray line DN 40
discharge line	in DN 40
gas phase line	in DN 40
main safety valves vessel	2 units in the gas phase line
safety valves pipelines	all pipelines secured via safety valves with a response pressure of 72.5 bar
pressure gauge 1	tank pressure
pressure gauge 2	pump 1 output pressure
pressure gauge 3	pump 2 output pressure
pressure gauge 4	discharge pressure
silencer	with

Connections and couplings:

filling connection	1 unit driving direction right flange DN 65 PN 40
discharge connection	1 unit driving direction right, 1 unit at the rear flange DN 40 PN 100
discharge coupling	without
discharge hose	without
gas phase connection	1 unit driving direction right, 1 unit at the rear flange DN 40 PN 100
silencer connection	trapezoidal thread

Level indicator:

without

Try cock:

quantity	4
set to	max. filling level at 11 bars and 15 bars

Connection sampling:

Swagelock no. SS-QC4-B1-6MO with cap



Pump and measuring module:	2 hydraulically driven pumps: pump type: SIHI ASHE 4108 pumps can be operated in series or parallel (high - low pressure operation) max. flow rate 20 t/h max. discharge pressure 65 bar Flowcom 2000 including MID, printer and gas exchange return measurement
Substructure:	
King pin:	2" with EC accreditation
Support unit:	mechanical support unit with single-sided operation steel detach in laden condition possible
material	
carrying capacity	
Axles:	3 axles à 9000 kg with air suspension
axle distance	1310 mm + 1310 mm
size of disc brake	377 mm
steering axle	without
lift axle	without
Rims:	aluminium rims
Spare wheel:	without
Brake:	
make	Wabco or similar
type	EBS-Generation E RSS activated
brake system	4S 2M
air connections	standard connections red and yellow connecting cable to the truck is not part of our scope of delivery
Underride guard:	
material	made of anodized aluminium
Wheel cover:	- separate PE mudguards with rubber wheel flaps according to CE regulations - anti-spray mats for each last mudguard - fender bracket made of stainless steel pipe



Spare wheel holder:	without
Electrical installation:	according to CE standard
rear lights	7-chamber lights in the underride guard
triangles reflectors	2 units integrated in 7-chamber lights
license plate lamps	2 units
side marker lights	in LED design, yellow sides, white front
outline marker lights	standard, according to EC regulations
electrical connection to truck	15-pin AMP socket
Equipment	
hose storage pipes	4 units stainless steel length ca. 6000 mm
tools	tool holder in the cabinet
tool cabinet	without
drag shoes	2 units incl. holder
Dangerous goods equipment:	
fire extinguisher	2 units, 6 kg with bracket and bonnet
dangerous goods signs	3 units
number table	1 unit with 22/2187
Safety device:	
emergency-off button	1 unit on each side
Lettering:	
contour marking	- white on each side left and right - circular red marking on the rear bottom
Paintwork:	
- vessel:	white
- substructure:	black
Sample photo:	
P&ID:	