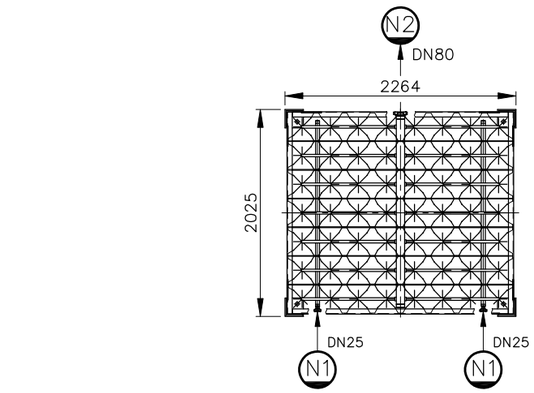
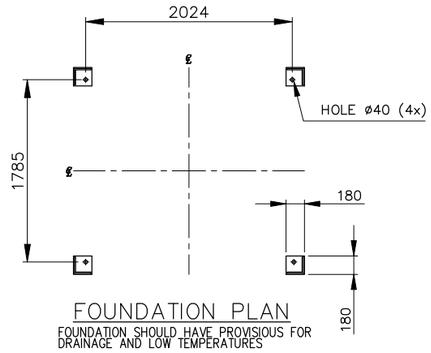
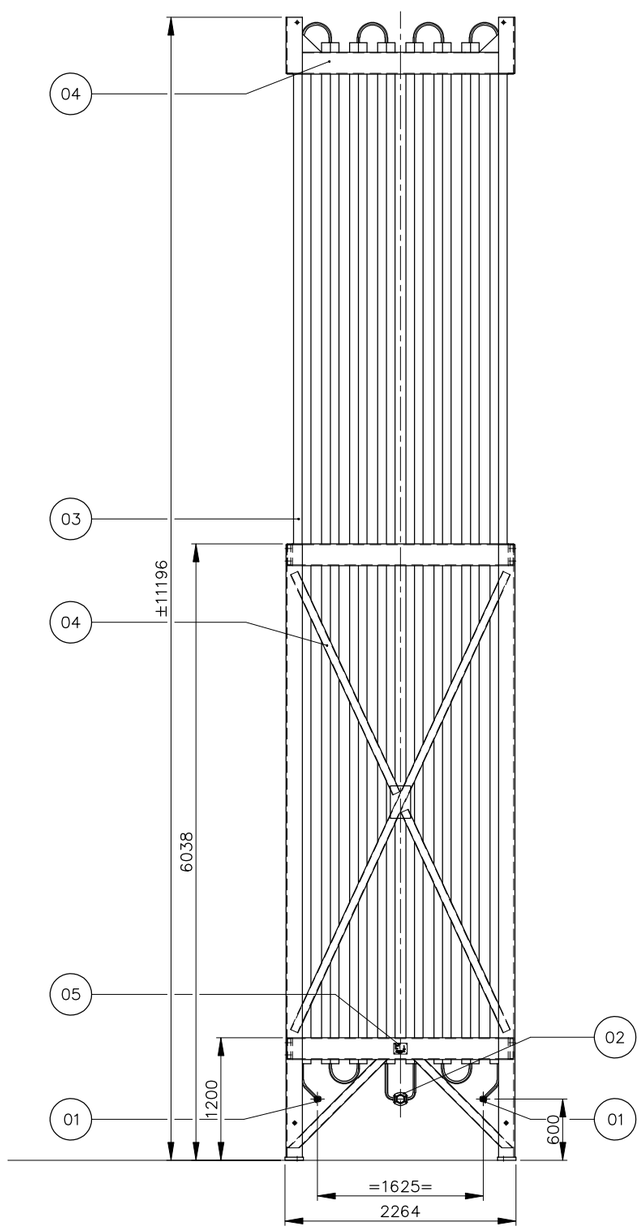
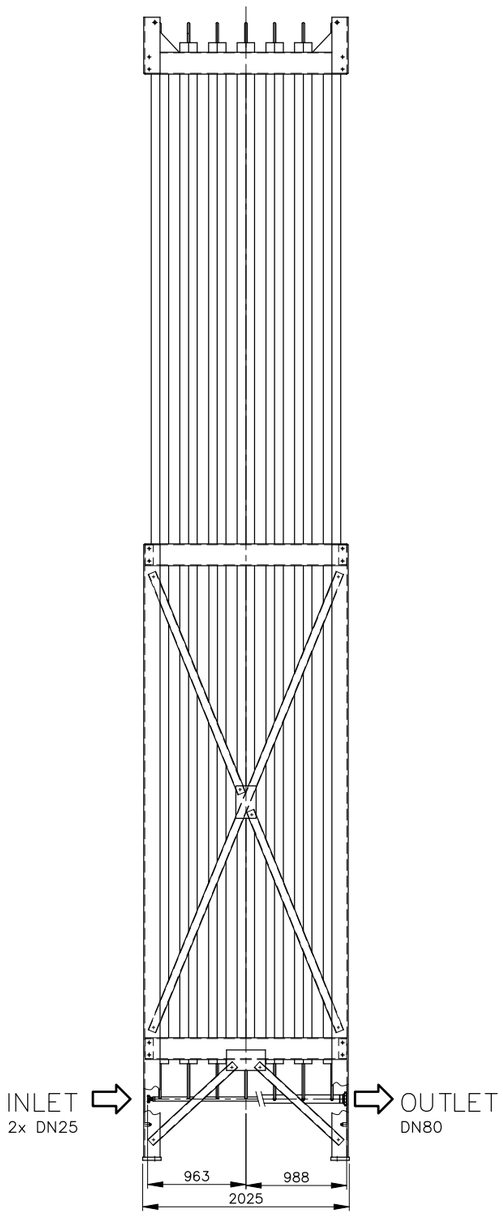




FOUNDATION PLAN

FOUNDATION SHOULD HAVE PROVISIOUS FOR DRAINAGE AND LOW TEMPERATURES





DESIGN DATA/GENERAL NOTES

MEDIA	: CO_2–O_2–N_2–LNG–Ar
CAPACITY (O_2)	: 2800 Nm^3/hr
OUTER HEAT SURFACE	: 834,4 m^2
CONTENTS	: 217,9 LTR.
WEIGHT	: ±3900 KGS.
DESIGN PRESSURE	: 0–40 BAR (G)
TEST PRESSURE	: 57.2 BAR (G)
MIN./MAX. WORKING TEMP.	: –196°/+50°C

TOLERANCE ON DIMENSIONS ±3MM
CLEANED FOR OXYGEN USE
STAINLESS STEEL FLANGES ON REQUEST.
DESIGN CODE ACC. TO AD–2000 / PED 97/23/EC.

ANCHOR BOLT CALCULATIONS

COMPRESSION LOAD	: 81,5 kN MAX. (PER ANCHOR)
TENSILE LOAD	: 60,3 kN MAX. (PER ANCHOR)
SHEAR FORCE	: 17,3 kN MAX. (PER ANCHOR)
PRESSURE ON CONCRETE	: 3,14 N/mm^2
RECOMMENDED ANCHORBOLTS:	
* SIZE AND MIN. QUALITY	: M24 QUALITY 4.6
* UNITY CHECK	: 0,049

GENERAL INFORMATION ANCHOR BOLT CALCULATIONS:
* STRENGTH ANALYSIS ACC. TO UBC–1997/AISC–1999.
* NORMAL OPERATING AND WINDLOAD CONDITIONS, INCLUDING ICE–LOAD.
* WINDLOAD AS PER BS6399 / CP3 / UBC–1997 / DIN1055–4, DESIGN WIND VELOCITY 36m/s (130km/hr), SHAPE FACTOR 1,3.
* SEISMIC LOAD Z=0,3 (SEISMIC ZONE 3), SOIL PROFILE TYPE: Sb.
* HORIZONTAL ACCELERATION LOAD: S=0,30g.
* VERTICAL ACCELERATION LOAD S=0,30g.
* ICE–LOAD: UNDER NORMAL OPERATION THE BOILINGSECTION WILL BE COVERED WITH ICE. UNIT LOAD IS 250N/m FOR EACH BOILING PIPE.

NOTES:
* CIVIL ENGINEER TO USE THESE VALUES FOR CONSTRUCTION OF FOUNDATION/PILES.
* VALUES CALCULATED WITH MAXIMUM WIND–, ICE AND SEISMIC LOADS ACCORDING TO GENERAL INFORMATION AS STATED ABOVE.

NOZZLE CONNECTIONS

POS.	REQ.	DESCRIPTION	SIZE	REMARKS
N1	2	INLET	DN25x28	SAE
N2	1	OUTLET	DN80x76	SAE

POS	QTY	DESCRIPTION	DRWG	MATERIAL	CERT	REMARK
05	1	NAME PLATE	CN4193–4	ALUMINIUM	–	–
04	1	FRAME	2140001–98	ALUMINIUM	–	–
03	1	VAPORISER BLOCK	2140001–102	ALUMINIUM	3.1	–
02	1	OUTLET FLANGE WITH MATING FLANGE DN80	CN4199–1 ITEM F	ALUM./AISI 316L	3.1	–
01	2	INLET FLANGE WITH MATING FLANGE DN25	CN4199–1 ITEM B	ALUM./AISI 316L	3.1	–

REV	DESCRIPTION	BY	CH'D	DATE
1	CHANGED DESIGN AND LAYOUT	OA	RH	09–10–'15

cryonorm
KOPERWEG 3
2401 LH ALPHEN A/D RIJN
THE NETHERLANDS
PHONE: +31 (0) 172 - 41 80 80
FAX: +31 (0) 172 - 43 88 19
WEB: WWW.CRYONORM.NL
E-MAIL: SALES@CRYONORM.NL

TITLE / DESCRIPTION

CNLP 7x8x10.000 S
GENERAL ARRANGEMENT
STANDARDIZED VAPORISER BOOK

DRAWN: TD	DATE: 16–06–'10	SCALE: 1:30
CHECKED: JB	DATE: 17–06–'15	STATUS: 3

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WN NUMBER	DRAWING NUMBER	SIZE	REV
–	2140001–101	A1	1