



LIDCO, Pars SEE Zone, Assaluyeh,
Integrated Methanol and Ammonia
Plant 3000 MTPD MeOH / 900 MTPD NH3 PROJECT



General Arrangement Drawing (incl foundation load details)

Document No. 17735-04

Project No.	Vendor Doc.	P.O. No.	Department	Document Type	Serial No	Revision	Page
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**Airpack B.V. - Air Compressor –
Integrated Methanol and Ammonia Plant
17735-COM General Arrangement Drawing (incl foundation load
details) (K020)**

code-2
M. Vakili

REV.	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED
01	02-01-2024	Issued for Approval	F.T.	S.K.	J.J.

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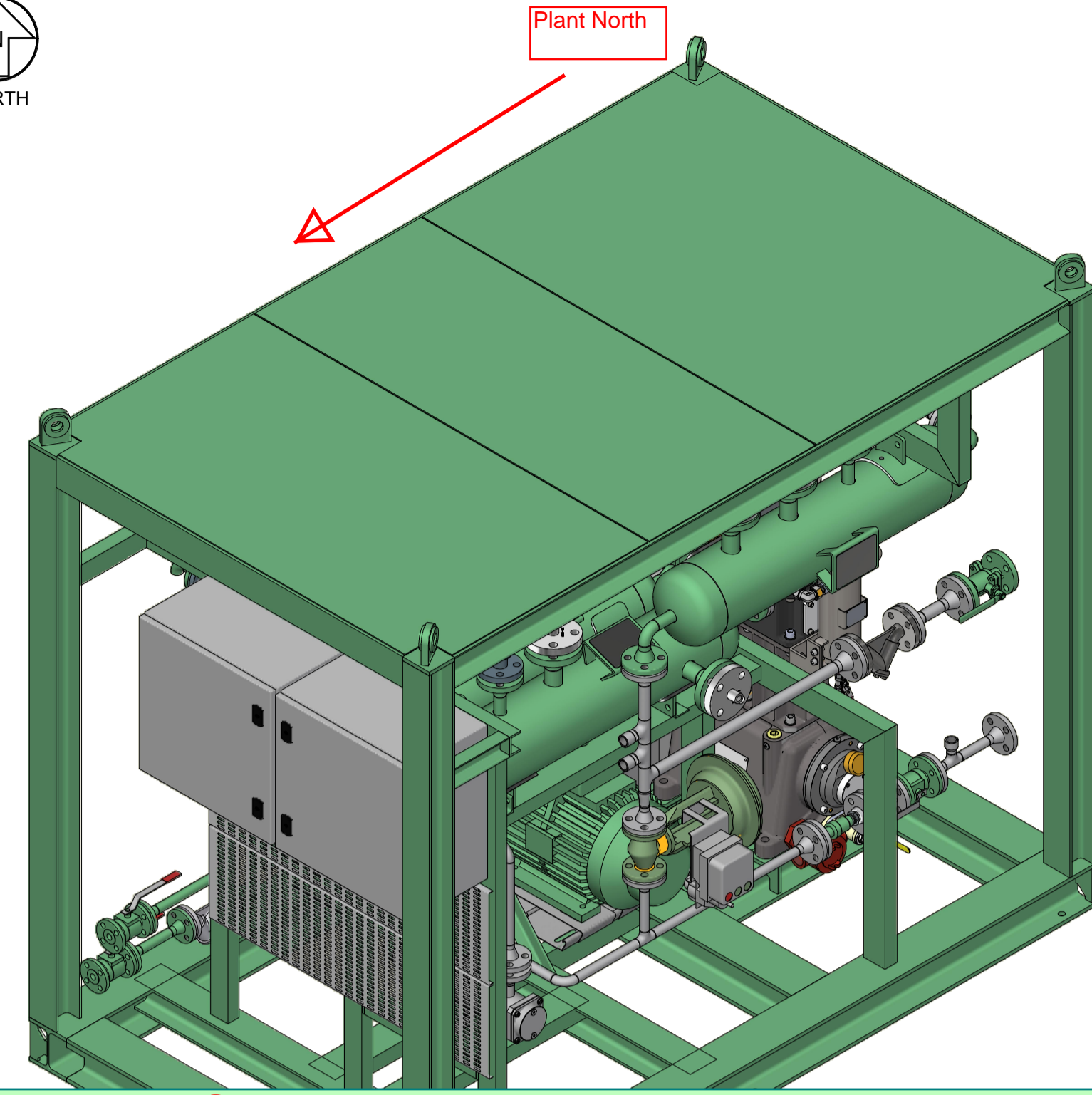
General Arrangement Drawing (incl foundation load details)

Document No. 17735-04

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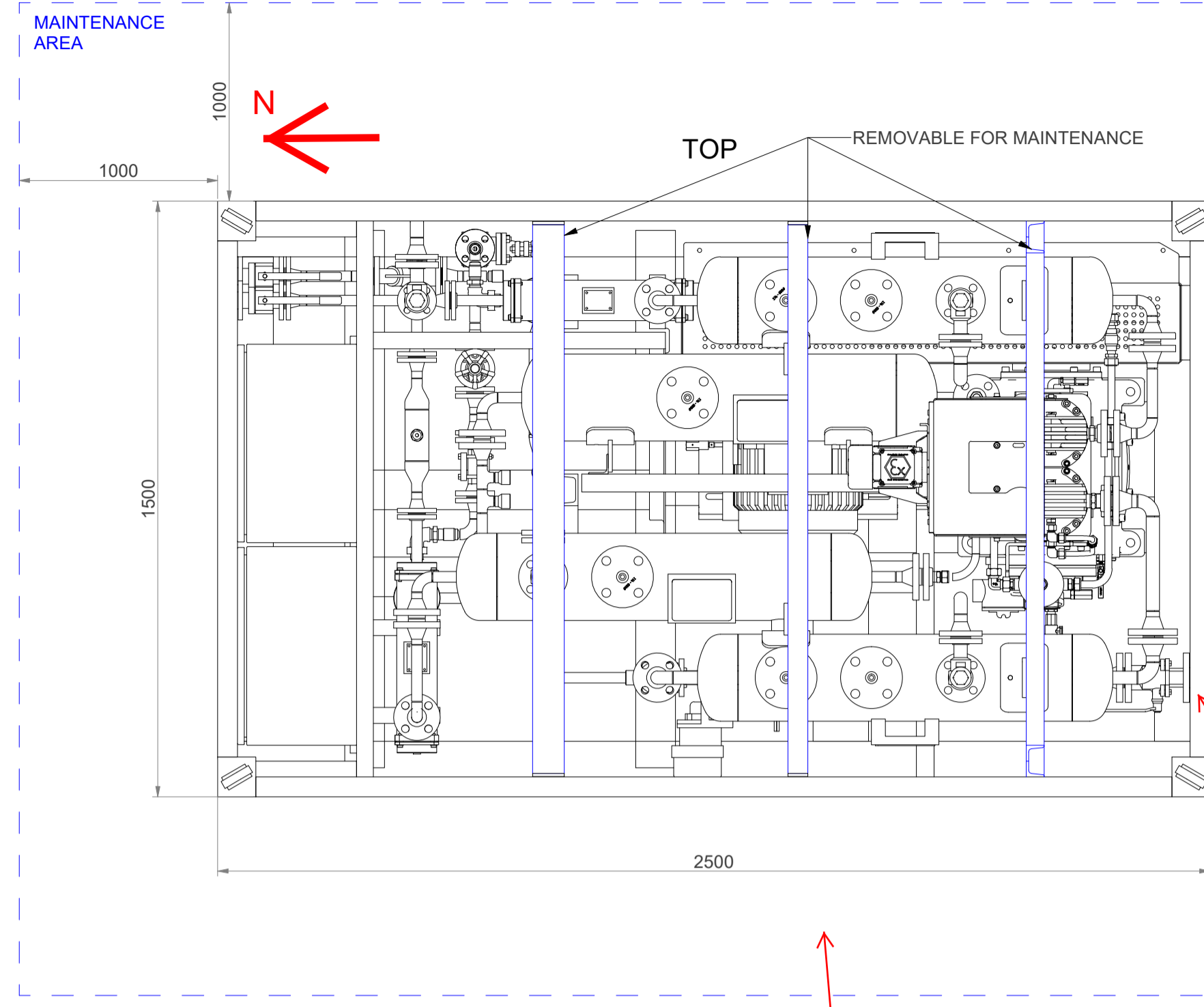
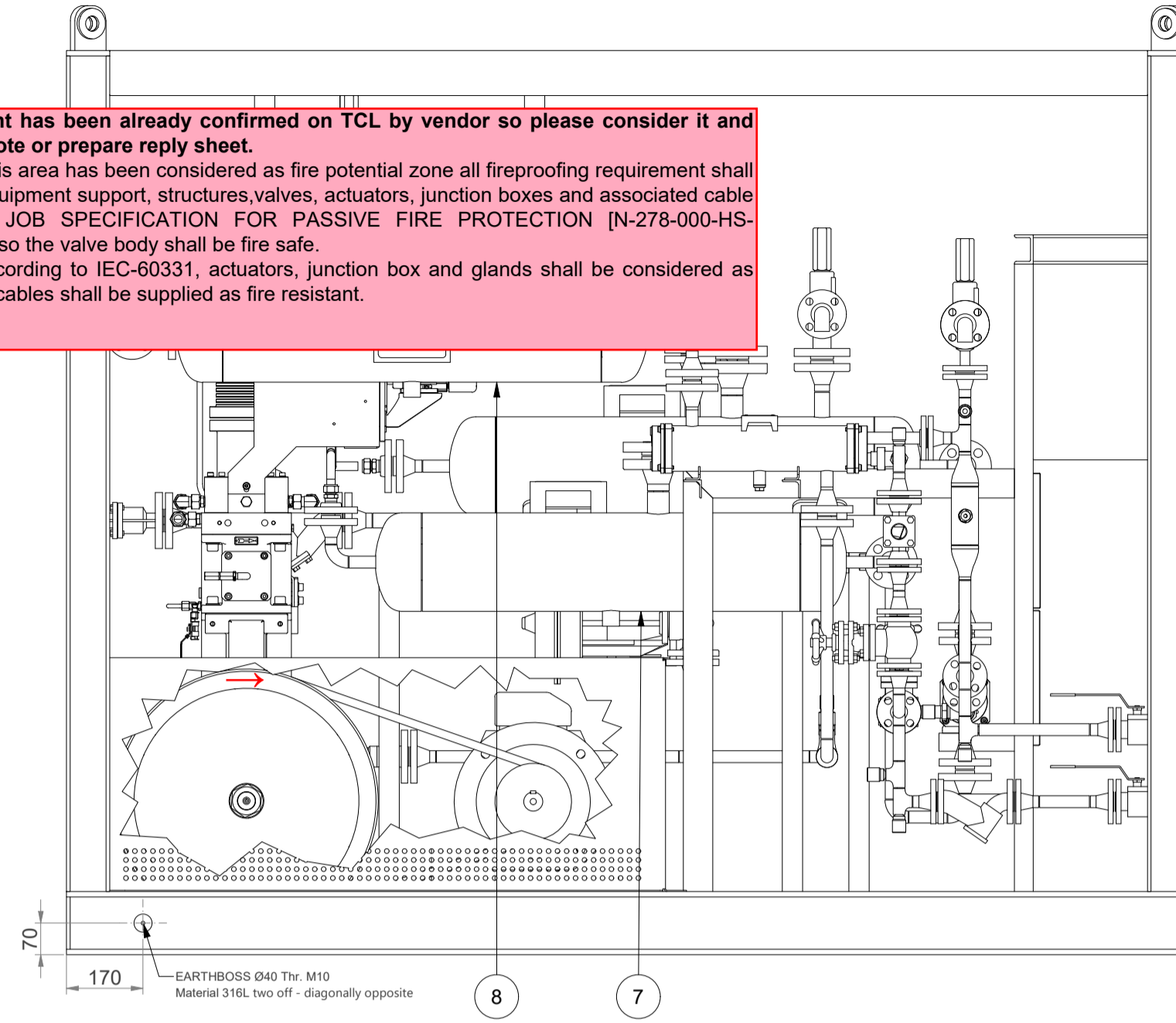
LIST OF REVISED PAGES

Rev. Page	01	02	03	04	05	Rev. Page	01	02	03	04	05	Rev. Page	01	02	03	04	05	Rev. Page	01	02	03	04	05	
1	X					26						51						76						
2	X					27						52						77						
3	X					28						53						78						
4						29						54						79						
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6						31						56						81						
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15						40						65						90						
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18						43						68						ATTACHMENT						
19						44						69						1						
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22						47						72						4						
23						48						73						5						
24						49						74						6						
25						50						75						7						



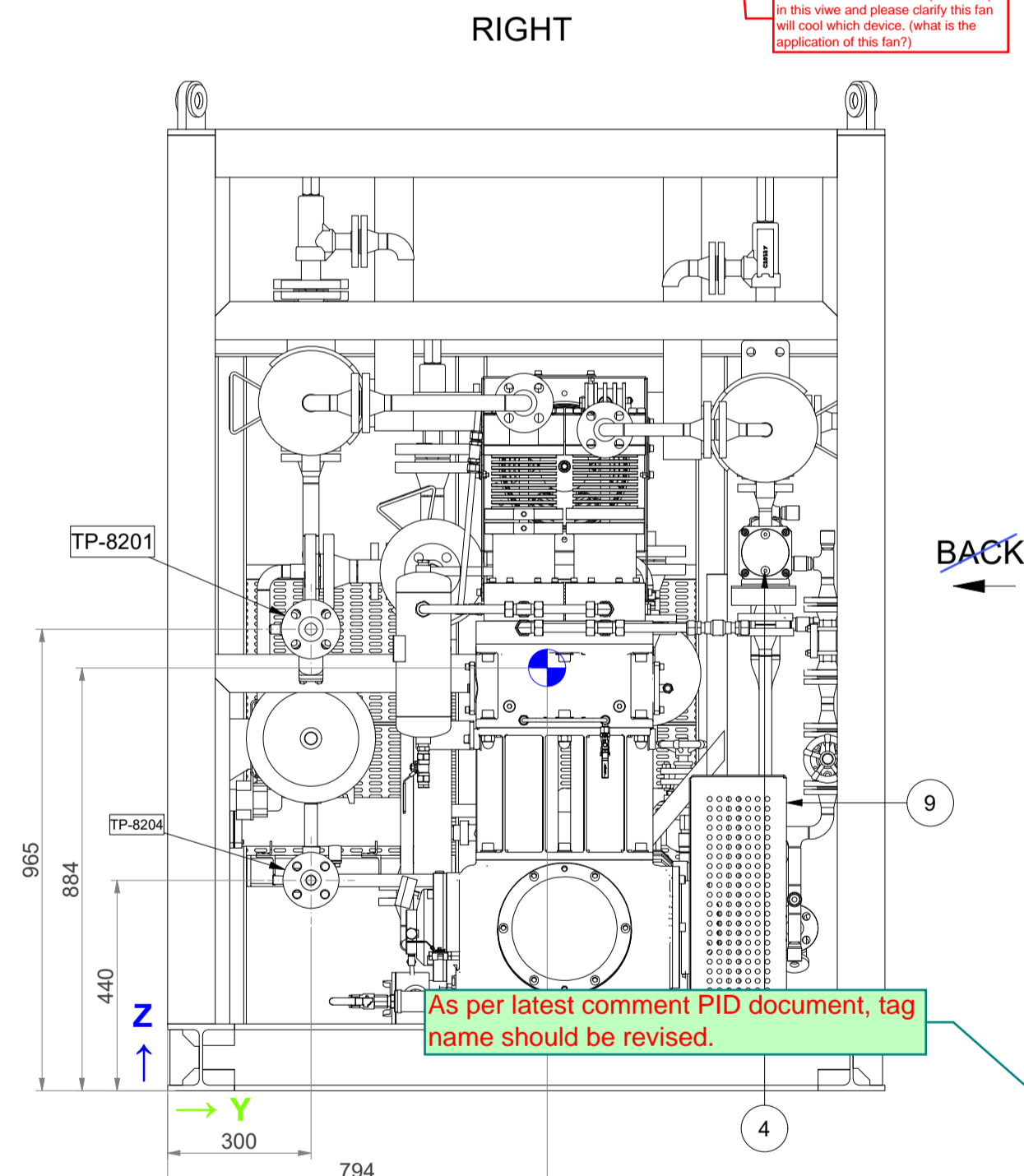
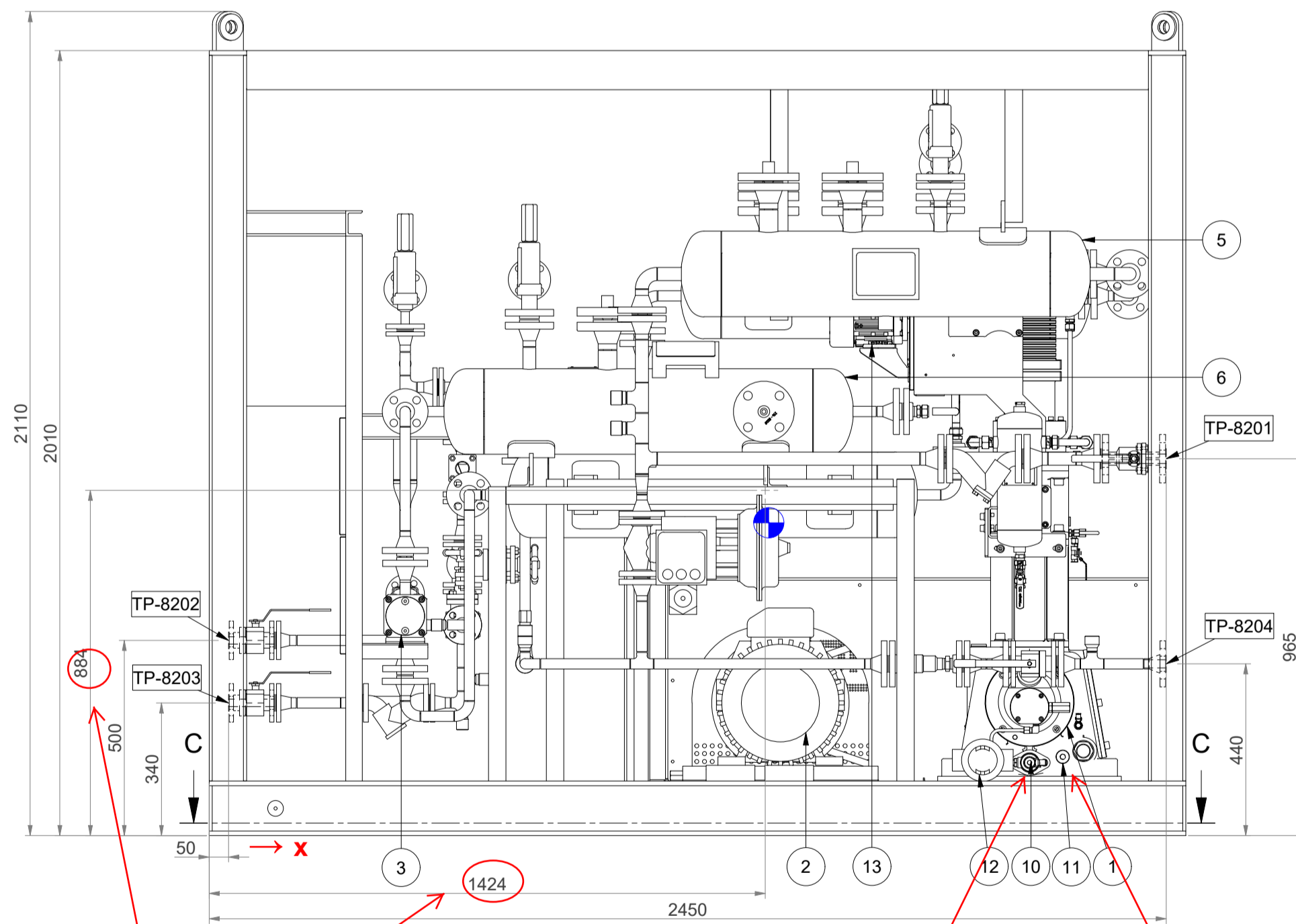
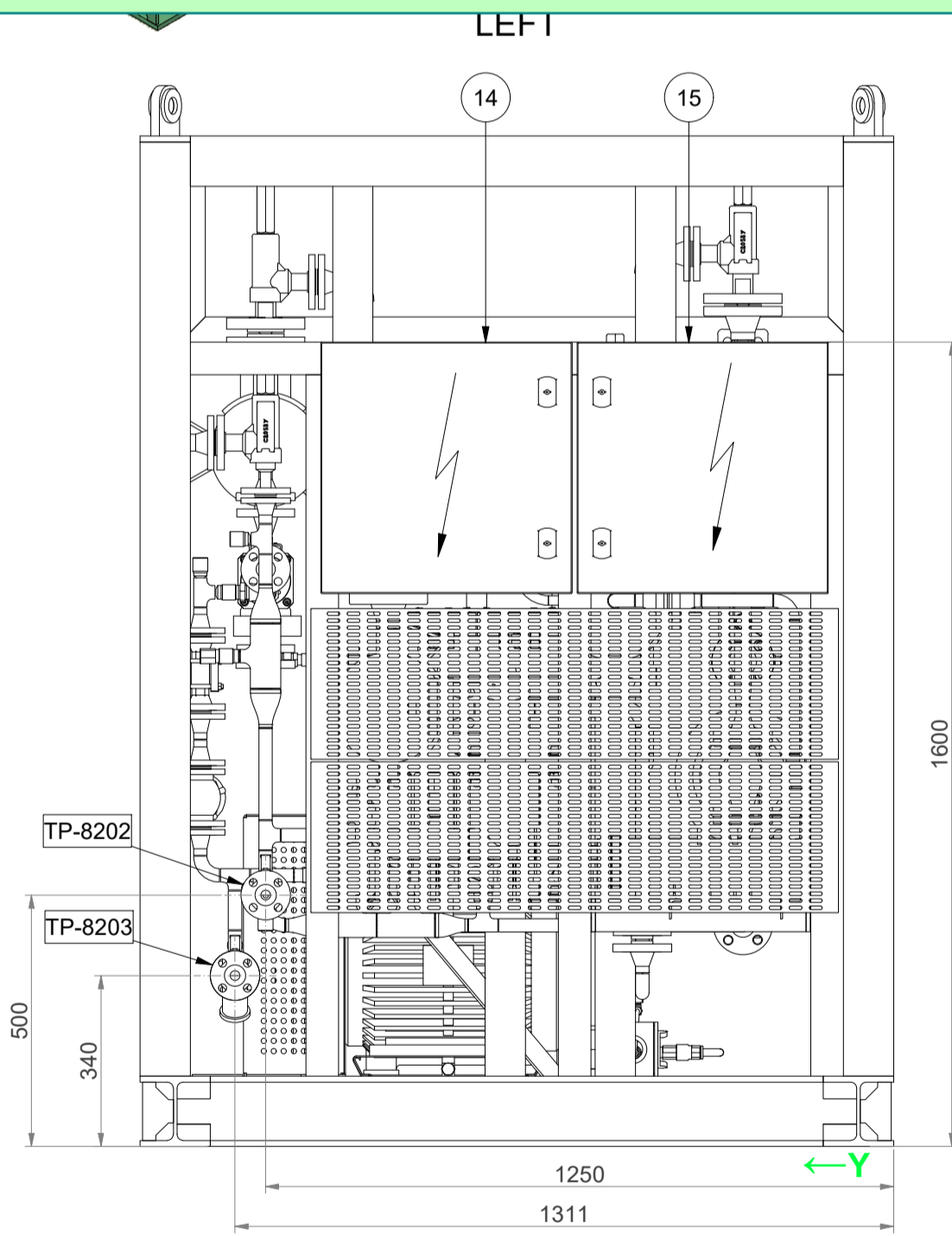
The below comment has been already confirmed on TCL by vendor so please consider it and implement it as a note or prepare reply sheet.
 - With considering this area has been considered as fire potential zone all fireproofing requirement shall be considered for equipment support, structures, valves, actuators, junction boxes and associated cable trays according to JOB SPECIFICATION FOR PASSIVE FIRE PROTECTION (N-278-000-HS-JSD-1740-00, and also the valve body shall be fire safe.
 also please note according to IEC-60331, actuators, junction box and glands shall be considered as explosion proof and cables shall be supplied as fire resistant.

foundation loading data is not complete. loading data should be completed (seismic&wind)



-Please specify Tie-in Tag No. and Nozzle dimension at this view.
 -Pipe support of lines at the edge of package where located in vendor area is by vendor

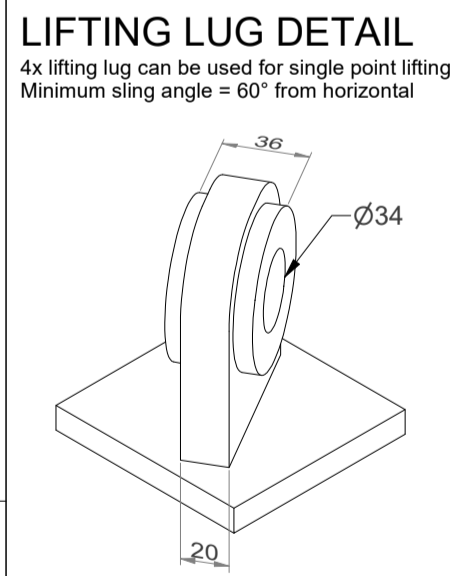
Instrument Comment:
 - Instrument Nozzle details table, Cable Tray to be indicated on this document, otherwise, this document cannot be reviewed by instrument Dept.



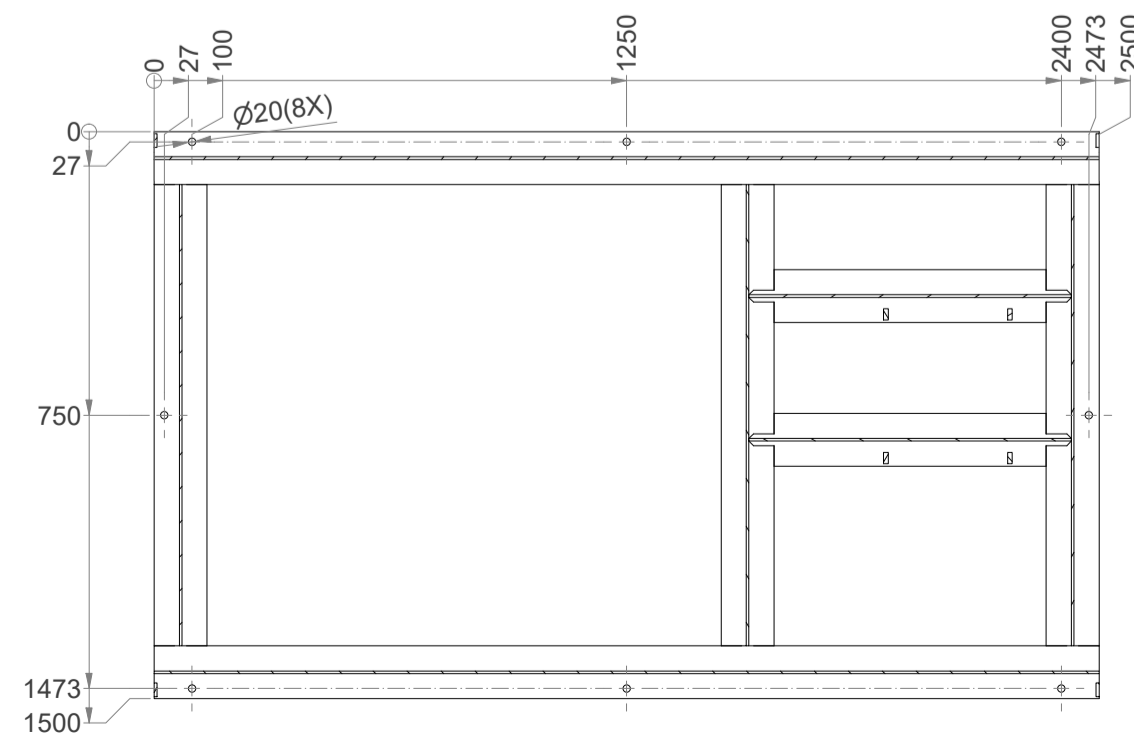
Please also mark item 13 (fan motor) in this view and please clarify the fan will cool which device (refer to the application of this fan?)

It seems instruments are not displayed in GAD

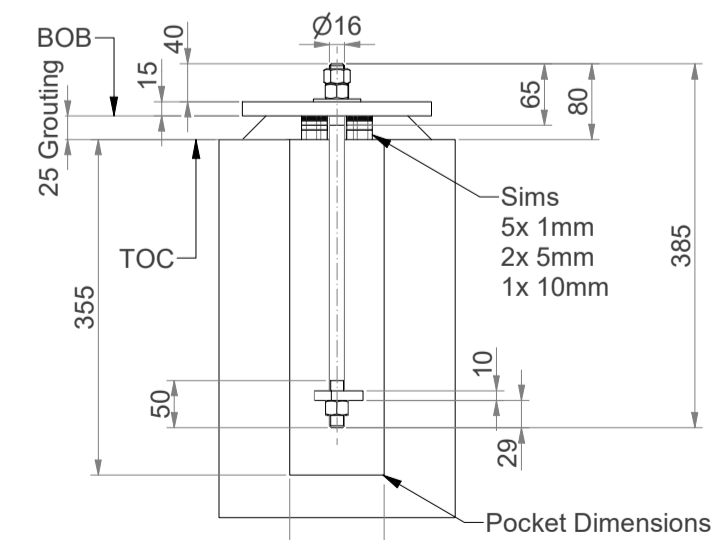
Please add a section for reference documents and please refer to compressor datasheet, P&ID and other major docs



C-C / FOUNDATION LAYOUT



- Notes on foundation details:
 1. 8x T.EN/ISO 8.8 19 MnB4.16.80.305 Anchor bolts acc.: N278-000-ST-JSC-1700-003-REV-03
 2. Skid will be supported on 25mm thk non-shrink cementitious grout
 3. No dynamic forces is envisaged on foundation or dynamic forces are negligible
 4. No filling of concrete inside the skid is required



According to vendor reply on VPIS, Sketch of lifting/transport arrangement will be provided as additional page on GA.

What do these dimensions refer to? (Are they related to COG?)

Please clarify if this oil pump has any PSV (positive displacement pumps require PSV for protection)

Please display oil drain of sump on GAD

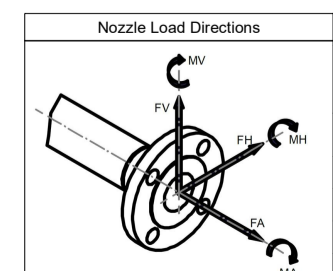
Please mention/mark the port for filling the oil sump

Please also add weight of compressor, dampers, and coolers as well.

to be clarified there is V-belt

Please mention "maximum maintenance weight"

Please correct the name (there is no nitrogen)



TP	Size	Nozzle Data	FH (+/-)	FV (+/-)	FA (+/-)	MH (+/-)	MA (+/-)	MV (+/-)	Pos. X (mm)	Pos. Y (mm)	Pos. Z (mm)
TP-8201	1" 300# RF B16.5	Nitrogen Inlet	1	1	1	0.3	1	0.3	2450	300	965
TP-8204	3/4" 300# RF B16.5	Nitrogen Outlet	1	1	1	0.3	1	0.3	2450	300	440
TP-8203	3/4" 150# RF B16.5	Cooling water inlet	1	1	1	0.3	1	0.3	50	1311	340
TP-8202	3/4" 150# RF B16.5	Cooling water outlet	1	1	1	0.3	1	0.3	50	1250	500

As per latest comment PID document, tag name should be revised.

Nr.	Item	Tag nr.	Remarks
1.	Compressor	K-020	Model: RBV-130
2.	Main Motor	K-020	11 kW/1485rpm
3.	Inter Cooler	KE-020-001	
4.	After Cooler	KE-020-002	
5.	Pulsation Damper Inlet	KV-020-001	Suction side
6.	Pulsation Damper 1st	KV-020-002	Discharge side
7.	Pulsation Damper 2nd	KV-020-003	Suction side
8.	Pulsation Damper 2nd	KV-020-003	Discharge side
9.	Coupling / Guard		
10.	Lube Oil Pump		
11.	Sump		
12.	Oil space heater	KH-020-001	
13.	Fan Motor	KM-020-001	11 kW
14.	Local Pushbutton Station	320-LPS-8201	
15.	Junction Box	320-JB-8201	

CALCULATED WEIGHT DATA (kg)	
Skid dry weight	: 2700
Skid operational weight	: 2750
Maintenance weight	: 320 (main e-motor)

High Pressure Air Compressor

Client	Lavan Industry Development Company (LIDCO)	Tolerances acc. to:	ISO-2768-1 (v1)
Client Ref.	K-020 Integrated Methanol and Ammonia Plant	Date	28-12-2023
Client Doc. No.	N-278-VD-6019-PR-GAD-0003-01	Drawn by	FVT
		Checked by	SK
		Plant Location	Onshore
		Scale	
		Airpack Ref.	17735-COM
		Drawing No.	17735-04 GAD

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