



ASPC Project








END CUSTOMER	: Arya Sasol Polymer Company
CONTRACTOR	: DYPNF Co., Ltd.
VENDOR NAME	: Airpack Netherlands BV
EQUIPMENT DESCRIPTION	: Screw Compressor & Roots Blower
PURCHASE ORDER NUMBER	: PO-PC2312-08






Customer Document : 3944-VD-0171-DYP-RE-400-DSH-0019
Number

Airpack Document Number : 23383-11B

Document Title : Compressor data sheets

Review Code and Status		Contractor Initials/Signature	Date signed
	Code 1 REJECTED - Vendor to revise and Resubmit. Work cannot proceed		28 Apr 2025
	Code 2 Comments As Noted - Work May proceed, subject to compliance with and incorporation of comments		
	Code 3 No Comments - Work may proceed.		
	Code 4 Information only - Review not required.		

00	Issued for Approval	18-03-2025	SC	KP	JJ
Rev. No.	Description	Date	Prepared by	Checked by	Approved by

CONTRACTOR:  	300 KT POLYETHYLENE PLANT ARYA SASOL POLYMER COMPANY (ASPC)	OWNER:  شرکت پلیمیر آریا ساسول ARYA SASOL POLYMER COMPANY آریا ساسول پلیمر																				
VENDOR LOGO: 	EQUIPMENT DATA SHEET OF CONVEYING NITROGEN COMPRESSOR (44C-40001A,B)	MC:  شرکت مهندسی و مشاوره ISED CO گروه تخصصی مهندسی و مشاوره																				
Owner Document Number :	<table border="1"> <thead> <tr> <th>OWNER Project No.</th> <th>Vendor DOC.</th> <th>MR No.</th> <th>Vendor Code</th> <th>Discipline</th> <th>Unit</th> <th>Type</th> <th>Seq. No</th> <th>Rev.:</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td>3944</td> <td>VD</td> <td>0171</td> <td>DYP</td> <td>RE</td> <td>400</td> <td>DSH</td> <td>0019</td> <td>03</td> <td>1 of 7</td> </tr> </tbody> </table>	OWNER Project No.	Vendor DOC.	MR No.	Vendor Code	Discipline	Unit	Type	Seq. No	Rev.:	Page	3944	VD	0171	DYP	RE	400	DSH	0019	03	1 of 7	
OWNER Project No.	Vendor DOC.	MR No.	Vendor Code	Discipline	Unit	Type	Seq. No	Rev.:	Page													
3944	VD	0171	DYP	RE	400	DSH	0019	03	1 of 7													

General Note:

- 1- Purple comments are those to be reflected to Airpack and corrected in document
- 2- those comments as Hint to Dypnf are in yellow boxes.
- 3- all comments confirmed for one tag (44C-40001) is applicable for all if not changed to purple
- 4-Number of compressor (44C-80005 A/B/C) to be corrected.

EQUIPMENT DATA SHEET OF CONVEYING NITROGEN COMPRESSOR (44C-40001A,B)

ASPC general comment:

Due to document title in VPIS, Auxiliaries data sheet and performance curve shall be added.

P.O. No.:	SHAU23-006-DYPNF-ASS	RESULT CODE : <input type="checkbox"/> AP <input type="checkbox"/> AN <input type="checkbox"/> CO <input checked="" type="checkbox"/> RE
MR. No.:	3944-SZP-RE-400-MRQ-0171	NEXT STATUS : <input type="checkbox"/> IFI <input checked="" type="checkbox"/> IFA <input type="checkbox"/> AFC <input type="checkbox"/> ASB or FIN
Item No. (Equipment No.):	Common	RESUBMISSION DATE :
Vendor Job No.:	PC2312	Approval or review hereunder shall not be considered to relieve Vendor/ Subcontractor of his responsibilities and liability under the Contract.

M.Shakiba

21-Apr-2025

Rev.	Date	Purpose of Issue	Prepared	Checked	Approved	AC Code
00	19-Apr-2025	Issue for Approval	S.Y Lee <i>S.Y Lee</i>	H.G Lee <i>H.G Lee</i>	M.H Yim <i>M.H Yim</i>	

Sazeh RED:
General Comments on page 1 & 2 are applicable for all other pages.

General Comment:
DYPNF declared that all pressure in compressor data sheet & PFD will be presented with unit of measurement (Barg).

General Comment: ASPC Rotary/ Sazeh: Please add MANUFACTURER: AERZEN Model shall be also defined.		KT polyethylene plant project (ASPC)		DYPNF 다워이피엔에프(주)	
General Comment: ASPC Rotary: This is compressor tag No. shall be mentioned. Item No. (Tag No) / Model No.		DOC NO.: 23383-11B COMPRESSOR DATA SHEET		PAGE: 2 of 6	
Sazeh RED: below items to be added to "INLET CONDITIONS":		ASPC process: Arrangement shall be corrected; for example for here: 2 (1+1)		Sazeh RED: below items to be added as vendor scope of work: - BASEPLATE - FIRST OIL FILLING	
OPERATING DENSITY RELATIVE MOLECULAR MASS Cp/Cv(avg.) COMPRESSIBILITY (Z _{avg}) VISCOSITY		OPERATING CONDITIONS		PACKAGE SCOPE OF SUPPLY	
Sazeh RED: below items to be added to "COMP. PERFORMANCE": MAX. ALLOW WORKING PRESS. TEST PRESSURE		ASPC process: DYPNF stated that PFD value (1.05 bara) is correct and datasheet will be modified accordingly.		COMPRESSION RATIO VOL. EFFICIENCY SHAFT-ABSORBED POWER	
Sazeh RED: below items to be added to "Drive. PERFORMANCE":		ASPC process: 1-Inlet connection is 14" based on P&ID. discrepancy to be removed. 2-Size change may affect pressure drop with should be considered in suction pressure.		DRIVER PERFORMANCE	
Sazeh RED: below items to be added to "Drive. PERFORMANCE":		General Comment: ASPC COMMENT: 400 V IS CORRECT, VOLTAGE SHALL BE CORRECTED.		UTILITY SUPPLIES	
Sazeh RED: below items to be added to "Drive. PERFORMANCE":		General Comment: ASPC Rotary: compressor weight shall be added in next revision.		ELECTRICAL SUPPLY:	
Sazeh RED: below items to be added to "Drive. PERFORMANCE":		General Comment: ASPC Rotary: Noise level @1m of equipment shall be considered.		TEMPERATURE: PRESSURE:	
Sazeh RED: below items to be added to "Drive. PERFORMANCE":		General Comment: ASPC Rotary: Oil capacity shall be added in next revision.		WEIGHTS AND DIMENSIONS	
Sazeh RED: below items to be added to "Drive. PERFORMANCE":		General Comment: ASPC Rotary: Oil capacity shall be added in next revision.		BEARING HOUSING	
Sazeh RED: below items to be added to "Drive. PERFORMANCE":		General Comment: ASPC Rotary: Oil capacity shall be added in next revision.		LUBRICATION	
Sazeh RED: below items to be added to "Drive. PERFORMANCE":		General Comment: ASPC Rotary: Oil capacity shall be added in next revision.		STANDARDS AND SPECIFICATIONS	
Sazeh RED: below items to be added to "Drive. PERFORMANCE":		General Comment: ASPC Rotary: Oil capacity shall be added in next revision.		INSTRUMENTATION	
Sazeh RED: below items to be added to "Drive. PERFORMANCE":		General Comment: ASPC Rotary: Oil capacity shall be added in next revision.		SKID/ COMPRESSOR CONNECTIONS	
Sazeh RED: below items to be added to "Drive. PERFORMANCE":		General Comment: ASPC Rotary: Oil capacity shall be added in next revision.		NOTES:	

General Comment:
DYPNF declared that all pressure in compressor data sheet & PFD will be presented with unit of measurement (Barg).

ASPC/MC/FSD Process: (Hint to DYPNF)
Since DYPNF has not considered design air humidity in the Air compressor network design according to the site condition — which is assumed to be 80% — and this may affect the performance capacity of the compressors, it is essential that DYPNF evaluate the impact of Air humidity design changes on the air compressor capacity prior to the meeting with Airpack. If any changes are observed, DYPNF should inform Airpack accordingly.
This comment is applicable for all Air compressor unit 800.

Sazeh RED:
For Sazeh RED Comments on this page, refer to page No. 3/7.

General Comment
ASPC Rotary:
This is compressor tag No.
Below items shall be mentioned.
Item No. (Tag No) / Model No.

General Comment:
ASPC Rotary/ Sazeh:Please add
MANUFACTURER: AERZEN
Model shall be also defined.

ASPC process:
Please also add
arrangement (1+1).

When do you submit 3-6 page?
This sheet is not enough for compressor data.
We/customer should know what kind of data are included in the data sheet.
If the data is not fixed yet, TBD is acceptable.

1		VENDOR (COMPRESSOR)		Airpack Netherlands B.V.		REFERENCE :		23383-COM	
2		TYPE / MODEL :		44C-80001A/B		ASPC process:		Air intake pressure (ambient before filter) to be revised to 1000 mbara according to PFD. This comment is applicable for all Air compressor unit 800.	
3		SERVICE :		Air compressor		DRIVER TYPE :		MV motor	
4		QUANTITY :		2		COUPLING / GUARD :		Flexible / Non-sparking ?	
5		OPERATING CONDITIONS				RCU AND SAFETY SWITCHES FOR MOTORS :		N/A	
6		GAS HANDLED :		Ambient Air		INTAKE FILTER / SILENCER :		Included	
7						INTERCOOLING :		N/A	
8						AFTERCOOLER :		N/A	
9		INLET CONDITIONS				LUBE-OIL COOLER :		Air-cooled	
10		PRESSURE		bar(a) 1.013		LUBE-OIL FILTER :		Included	
11		TEMPERATURE		°C 5-48		CONDENSATE TRAP :		N/A	
12		REL. HUMIDITY		% 65-100		AIR DRYER :		N/A	
13		CONNECTION		N/A (Inlet filter)		GEN GENERATOR :		N/A	
14		INLET FILTER DIFF. PRESS.		mbar 10 (Max. 15)		BLOW-OFF SILENCER :		N/A	
15						CONTROL PANEL :		LPS and Junction box	
16		DISCHARGE CONDITIONS				VIBRATION MONITOR :		N/A	
17		PRESSURE		bar(a) 2.473		WORK & VALVES :		N/A	
18		FLOW RATE		Nm³/h 4247		ELECTRIC ENCLOSURE :		Included	
19		TEMPERATURE		°C 167		FOUNDATION BOLTS :		Included	
20		CONNECTION		ANSI 10" 150# RF		RECEIVER VESSELS :		N/A	
21						COMPRESSOR PERFORMANCE			
22		SPEED		rpm 6253		SPEED		rpm 2980	
23		POWER AT COUPLING		kW 195		RATING		kW 250	
24		TYPE		Oil free screw		MANUFACTURER		WEG	
25		DESIGN TEMP/PRESS		°C/bar(g) -10-230 3.2		NO. OF POLES		2	
26						DRIVE		D	
27		DRIVER PERFORMANCE				COOLING MEDIUM :		AIR	
28		OPERATING SPEED		rpm 2980		TEMPERATURE :		AMBIENT	
29		RATING		kW 250		PRESSURE :		AMBIENT	
30		MANUFACTURER		WEG		ELECTRICAL SUPPLY :			
31		NO. OF POLES		2		V		6000	
32		DRIVE		D		PH		3	
33						V		380	
34						PH		3	
35						V		230	
36						PH		1	
37						Hz		50	
38		SITE CONDITIONS				TEMPERATURE :		AMBIENT	
39		ELEVATION		m <1000		PRESSURE :		AMBIENT	
40		AMB. TEMPERATURE		°C 5-48		WEIGHTS AND DIMENSIONS			
41		AMB. PRESSURE		bar(a) 1.013		COMPRESSOR		kg TBD	
42		REL. HUMIDITY		% 65-100		DRIVER		kg 2141	
43						MISCELLANEOUS		kg TBD	
44						TOTAL		kg TBD	
45		Safe area		85					
46		BEARING HOUSING							
47		CASING							
48		MATERIAL		EN-GJL-250		TYPE		N/A Anti-friction	
49		COOLING		AIR-COOLED		BALL / ROLLER		ROLLER	
50		DRIVE DIRECTION		CW		LUBRICATION			
51						LUBE SYSTEM :		FORCED	
52						LUBE OIL PUMP DRIVE :		DRIVEN BY GEARBOX	
53		ROTOR				SYSTEM OIL CAPACITY		L TBD	
54		NO. OF LOBES MALE		3		LUBE OIL COOLER		AIR-COOLED	
55		NO. OF LOBES FEMALE		4		LUBE OIL FILTER		INCLUDED	
56		MATERIAL		C45N		THERMOSTATIC VALVE		YES	
57		TIMING GEARS				STANDARDS AND SPECIFICATIONS			
58		MATERIAL		16 Mn Cr5		COMPRESSOR		Vendor Standard	
59		TYPE		HELICAL, TEETH HARDENED		OTHER PARTS		shall be added such as Gear, PSV, coupling, pressure part, electric part,	
60		SHAFT SEALING				INSTRUMENTATION			
61		TYPE		LABYRINTH SEAL		FUNCTION			
62						COMPRESSOR INLET PRESSURE		GAUGE & TRANSMITTER	
63						COMPRESSOR INLET FILTER DIFF. PRESSURE		TRANSMITTER	
64		SKID / COMPRESSOR CONNECTIONS				COMPRESSOR DISCHARGE TEMPERATURE		TRANSMITTER	
65		NOZZLE		SIZE RATING FACING POSITION		COMPRESSOR DISCHARGE PRESSURE		GAUGE & TRANSMITTER	
66		AIR DISCHARGE		10" 150# RF TOP		COMPRESSOR OIL TEMPERATURE		TRANSMITTER	
67		Oil mist outlet		? ? ? ?		COMPRESSOR OIL PRESSURE		GAUGE & TRANSMITTER	
68						MAIN MOTOR TEMPERATURE (BEARINGS AND WINDINGS)		RTD	
69						NOTES :			
70						Final Paint Color :			
71						1) Compressor : RAL 7038 (Grey)			
72						2) Motor : RAL 5010 (Blue)			

ASPC Rotary :
Seal Type should be recheck whether it is labyrinth type or seal ring.

General Comment:
ASPC Rotary:
Noise level @1m of equipment shall be considered.

General Comment:
ASPC Process:
Amb pressure = 0 barg

ASPC Rotary:
Roller & Ball

ASPC Rotary:
Compressor weight shall be added in next revision

ASPC Rotary:
Oil capacity shall be added in next revision

General Comment:
RED:Also Noise Hood.

DYPNF declared that all pressure in compressor data sheet & PFD will be presented with unit of measurement (Barg).

Sazeh RED:
For Sazeh RED Comments on this page, refer to page No. 3/7.

General Comment
ASPC Rotary:
This is Blower tag No.
Below items shall be mentioned.
Item No. (Tag No) / Model No.

300 KT polyethylene plant project



General Comment:
ASPC Rotary/ Sazeh: Please add
MANUFACTURER: AERZEN
Model shall be also defined.

ASPC process:
Please also add arrangement (1+1).

When do you submit 3-6 page?
This sheet is not enough for blower data.
We/customer should know what kind of data are included in the data sheet.
If the data is not fixed yet, TBD is acceptable.

DOC NO.: 23383-1TB COMPRESSOR DATA SHEET				REV. 00	PAGE: 2 of 6	
1	VENDOR (COMPRESSOR)		Atpack Netherlands B.V.		REFERENCE :	23383-COM
2	TYPE / MODEL :		44C-40001A/B / 44C-80002A/B		SERIAL NO. :	T-2025-00808/00809
3	SERVICE :		Roots Blower		OPERATION :	Continuous
4	QUANTITY :		2			
5	OPERATING CONDITIONS			PACKAGE SCOPE OF SUPPLY		
6	GAS HANDLED			Ambient Air		
7				COMPRESSOR TYPE :		
8				Positive Displacement		
9				DRIVER TYPE :		
10				MV motor		
11				COUPLING / GUARD :		
12				Flexible V-belt / Non-sparking ?		
13	INLET CONDITIONS			RCU AND SAFETY SWITCHES FOR MOTORS:		
14				N/A		
15	PRESSURE			bar(a)		
16	1,013			CER: Included		
17	TEMPERATURE			°C		
18	5-48			JNG: N/A		
19	REL. HUMIDITY			%		
20	65-100			DLR: N/A		
21	CONNECTION			N/A (Inlet filter)		
22	INLET FILTER DIFF. PRESS.			mbar		
23	10 (Max. 15)			LUBE-OIL COOLER:		
24				Air-cooled		
25	DISCHARGE CONDITIONS			LUBE-OIL FILTER:		
26				Included		
27	PRESSURE			bar(a)		
28	1,283			AUTO CONDENSATE TRAP:		
29	FLOW RATE			Nm³/h		
30	6416 / 4266			N/A		
31	TEMPERATURE			°C		
32	189 / 154			AIR DRYER:		
33	CONNECTION			ANSI 10" 150# RF		
34				N/A		
35	COMP. PERFORMANCE			NITROGEN GENERATOR:		
36				N/A		
37	SPEED			rpm		
38	2244			BLOW-OFF SILENCER:		
39	POWER AT COUPLING			kW		
40	193			CONTROL PANEL:		
41	TYPE			Positive Displacement		
42	DESIGN TEMP/PRESS			°C/bar(g)		
43	-10-155 / 2.1			VIBRATION MONITOR:		
44	DRIVER PERFORMANCE			N/A		
45	OPERATING SPEED			rpm		
46	1488			WORK & VALVES:		
47	RATING			kW		
48	250			N/A		
49	MANUFACTURER			WEG		
50	NO. OF POLES			4		
51	DRIVE			V-BELT		
52	GENERAL COMMENT: ASPC Process: Amb pressure = 0 barg			TEMPERATURE:		
53				AMBIENT		
54	SITE CONDITION			PRESSURE:		
55				AMBIENT		
56	ELEVATION			m		
57	<1000			WEIGHTS AND DIMENSIONS		
58	AMB. TEMPERATURE			°C		
59	5-48			Blower		
60	AMB. PRESSURE			bar(a)		
61	1,013			DRIVER		
62	REL. HUMIDITY			%		
63	65-100			kg		
64	AREA CLASSIFICATION			Safe area		
65	85			kg		
66	GENERAL COMMENT: ASPC Rotary: Noise level @ 1m of equipment shall be considered.			MISCELLANEOUS		
67				kg		
68				TBD		
69				TOTAL		
70				kg		
71				TBD		
72				SIZE		
73				mm		
74				L X W X H		
75				TBD		
76	BEARING HOUSING			TYPE		
77				N/A		
78	CASING			MATERIAL		
79				EN-GJL-200		
80				COOLING		
81				AIR-COOLED		
82				DRIVE DIRECTION		
83				CCW		
84				LUBE SYSTEM :		
85				OIL SPLASH LUBRICATION		
86				LUBE OIL PUMP DRIVE :		
87				kW		
88				SYSTEM OIL CAPACITY		
89				L		
90	ROTOR/SHAFT			LUBE OIL COOLER		
91				AIR-COOLED		
92	NO. OF LOBES MALE			3		
93	NO. OF LOBES FEMALE			3		
94	MATERIAL ROTORS/SHAFT			EN-GJS-500-7		
95				THERMOSTATIC VALVE		
96				N/A		
97	TIMING GEARS			MATERIAL		
98				16 Mn Cr5		
99				TYPE		
100				HELICAL, TEETH HARDENED		
101	SHAFT SEALING			TYPE		
102				RADIAL SEALING RING		
103				FUNCTION		
104				BLOWER INLET PRESSURE		
105				GAUGE & TRANSMITTER		
106				BLOWER INLET FILTER DIFF. PRESSURE		
107				TRANSMITTER		
108				BLOWER DISCHARGE TEMPERATURE		
109				TRANSMITTER		
110				BLOWER DISCHARGE PRESSURE		
111				GAUGE & TRANSMITTER		
112				AIR DISCHARGE		
113				10"		
114				150#		
115				RF		
116				SIDE		
117				MAIN MOTOR TEMPERATURE (BEARINGS AND WINDINGS)		
118				RTD		
119	NOTES :			Final Paint Color :		
120				1) Blower: RAL 7038 (Grey)		
121				2) Motor : RAL 5010 (Blue)		
122				GENERAL COMMENT: RED:Also Noise Hood.		

ASPC process:
Discrepancy with PFD (1.895 bara)
to be removed.

ASPC/MC/FSD Process:
With considering set pressure of
outlet psv equal to 4.3 barg, please
review Design pressure.

General Comment:
ASPC COMMENT: 400 V IS
CORRECT, VOLTAGE SHALL BE
CORRECTED.

General Comment:
ASPC Process:
Amb pressure = 0 barg

ASPC Rotary : Roller & Ball

ASPC Rotary:
Oil capacity shall be added.

ASPC Rotary:
It should be included.

Blower: Vendor Standard

Other parts shall be added such as Gear, PSV, V-belt, pressure part, electric part,

General Comment
See comment on 44C-80001A/B data sheet

General Comment:
DYPNF declared that all pressure in compressor data sheet & PFD will be presented with unit of measurement (Barg).

General Comment
ASPC Rotary:
This is compressor tag No.
Below items shall be mentioned.
Item No. (Tag No) / Model No.



300 KT polyethylene plant project



Sazeh RED:
For Sazeh RED Comments on this page, refer to page No. 3/7.

ASPC process:
Please also add arrangement (1+1).

General Comment:
ASPC Rotary/ Sazeh: Please add MANUFACTURER: AERZEN Model shall be also defined.

1	VENDOR (COMPRESSOR) : Airpack Netherlands B.V.				REFERENCE :	23383-COM		
2	TYPE / MODEL : 44C-8000A/B				SERIAL NO. :	T-2025-00810/00811		
3	SERVICE : Air compressor				OPERATION :	Continuous		
4	QUANTITY : 2							
5	OPERATING CONDITIONS				PACKAGE SCOPE OF SUPPLY			
6	GAS HANDLED : Ambient Air				COMPRESSOR TYPE : Oil free screw			
7					DRIVER TYPE : MV motor			
8					COUPLING / GUARD : Flexible			
9	INLET CONDITIONS				RCU AND SAFETY SWITCHES FOR MOTORS : N/A			
10	PRESSURE	bar(a)	1,013		INTAKE FILTER / SILENCER : Included			
11	TEMPERATURE	°C	5-48		INTERCOOLING : N/A			
12	REL. HUMIDITY	%	65-100		AFTERCOOLER : N/A			
13	CONNECTION	N/A (Inlet filter)			LUBE-OIL COOLER : Air-cooled			
14	INLET FILTER DIFF. PRESS.	MBAR	10		LUBE-OIL FILTER : Included			
16					AUTO CONDENSATE TRAP : N/A			
17	DISCHARGE CONDITIONS				AIR DRYER : N/A			
18	PRESSURE	bar(a)	3,213		NITROGEN GENERATOR : N/A			
19	FLOW RATE	Nm³/h	7339		BLOW-OFF SILENCER : N/A			
20	TEMPERATURE	°C	205		CONTROL PANEL : LPS and Junction box			
21	CONNECTION	ANSI 10" 150# RF			VIBRATION MONITOR : N/A			
22					INTERCONNECTING PIPEWORK & VALVES : N/A			
23					ACOUSTIC ENCLOSURE : Included			
24	COMP. PERFORMANCE				FOUNDATION BOLTS : Included			
25	SPEED	rpm	5860					
26	POWER AT COUPLING	kW	479		General Comment: ASPC COMMENT: 400 V IS CORRECT, VOLTAGE SHALL BE CORRECTED.			
27	TYPE	Oil free screw						
28	DESIGN TEMP/PRESS	°C/bar(g)	-10-280 / 5					
29	DRIVER PERFORMANCE				UTILITY SUPPLIES			
30	OPERATING SPEED	rpm	2985		ELECTRICAL SUPPLY :			
31	RATING	kW	590		V	PH	Hz	50
32	MANUFACTURER	WEG			V	PH	Hz	50
33	NO. OF POLES	2			V	PH	Hz	50
34	DRIVE	DIRECT			COOLING MEDIUM : AIR			
35					TEMPERATURE : AMBIENT			
36					TEMPERATURE : AMBIENT			
37	SITE CONDITIONS				WEIGHTS AND DIMENSIONS			
38	ELEVATION	m	<1000		COMPRESSOR	kg	TBD	
39	AMB. TEMPERATURE	°C	5-48		DRIVER	kg	4002	
40	AMB. PRESSURE	bar(a)	1,013		MISCELLANEOUS	kg	TBD	
41	REL. HUMIDITY	%	65-100		TOTAL	kg	TBD	
42	AREA CLASSIFICATION	Safe area						
43	NOISE LIMITATION	dB(A)	85		SIZE	mm	L X W X H	TBD
44								
45								
46					BEARING HOUSING			
47					TYPE : N/A			
48	MATERIAL	EN-GJL-250			BALL / ROLLER : ROLLER			
49	COOLING	AIR-COOLED			ASPC Rotary: Bearing's code shall be mention for DE & NDE side			
50	DRIVE DIRECTION	CW			LUBRICATION			
51					LUBE SYSTEM : FORCED			
52					LUBE OIL PUMP DRIVE : kW			
53					SYSTEM OIL CAPACITY : L			
54	NO. OF LOBES MALE	4			LUBE OIL COOLER : AIR-COOLED			
55	NO. OF LOBES FEMALE	6			LUBE OIL FILTER : INCLUDED			
56	MATERIAL	C45N			THERMOSTATIC VALVE : YES			
57								
58	TIMING GEARS				STANDARDS AND SPECIFICATIONS			
59	MATERIAL	16 Mn Cr5						
60	TYPE	HELICAL, TEETH HARDENED						
61	SHAFT SEALING				INSTRUMENTATION			
62	TYPE	LABYRINTH SEAL			FUNCTION		TYPE(S)	
63					COMPRESSOR INLET PRESSURE		GAUGE & TRANSMITTER	
64					COMPRESSOR INLET FILTER DIFF. PRESSURE		TRANSMITTER	
65	SKID / COMPRESSOR CONNECTIONS				COMPRESSOR DISCHARGE TEMPERATURE		TRANSMITTER	
66	NOZZLE	SIZE	RATING	FACING	POSITION	COMPRESSOR DISCHARGE PRESSURE	GAUGE & TRANSMITTER	
67					COMPRESSOR OIL TEMPERATURE		TRANSMITTER	
68	AIR DISCHARGE	10"	150#	RF	TOP	COMPRESSOR OIL PRESSURE	GAUGE & TRANSMITTER	
69					MAIN MOTOR TEMPERATURE (BEARINGS AND WINDINGS)		RTD	
70								
71	NOTES :							
72								

General Comment:
RED: Also Noise Hood.

General Comment
See comment on 44C-80001A/B data sheet

General Comment:
DYPNF declared that all pressure in compressor data sheet & PFD will be presented with unit of measurement (Barg).

Sazeh RED:
For Sazeh RED Comments on this page, refer to page No. 3/7.

DATE: 18-03-2025		DOC NO.: 23383-11B COMPRESSOR DATA SHEET		PAGE: 2 of 6	
VENDOR (COMPRESSOR)		Airpack Netherlands B.V.		REFERENCE :	23383
TYPE / MODEL :		MC-80005A/B/C		SERIAL NO. :	T-2025-00812/00813/00814
SERVICE :		Nitrogen compressor		OPERATION :	2 Continuous, 1 Standby
QUANTITY :		2 B			
OPERATING CONDITIONS			PACKAGE SCOPE OF SUPPLY		
GAS HANDLED :			Ambient Air		
			COMPRESSOR TYPE :		
			Oil free screw		
			DRIVER TYPE :		
			IMV motor		
			COUPLING / GUARD :		
			Flexible		
INLET CONDITIONS			RCU AND SAFETY SWITCHES FOR MOTORS:		
			N/A		
10	PRESSURE	bar(a)	1,013	INTAKE FILTER / SILENCER:	Included
11	TEMPERATURE	°C	5-48	INTERCOOLING:	N/A
12	REL. HUMIDITY	%	65-100	AFTERCOOLER:	N/A
13	CONNECTION		N/A (Inlet filter)	LUBE-OIL COOLER:	Air-cooled
14	INLET FILTER DIFF. PRESS.	MBar	10	LUBE-OIL FILTER:	Included
16				AUTO CONDENSATE TRAP:	N/A
17				AIR DRYER:	N/A
DISCHARGE CONDITIONS			NITROGEN GENERATOR:		
18	PRESSURE	bar(a)	2,423	BLOW-OFF SILENCER:	N/A
19	FLOW RATE	Nm³/h	4226	CONTROL PANEL:	LPS and Junction box
20	TEMPERATURE	°C	164	STATUS MONITOR:	N/A
21	CONNECTION		ANSI 10" 150# RF	WORK & VALVES :	N/A
22				ACOUSTIC ENCLOSURE:	Included
24	COMP. PERFORMANCE		FOUNDATION BOLTS:		
25	SPEED	rpm	6253	Compressor	
26	POWER AT COUPLING	kW	189	General Comment: ASPC COMMENT: 400 V IS CORRECT, VOLTAGE SHALL BE CORRECTED.	
27	TYPE		Oil free screw		
28	DESIGN TEMP/PRESS	°C/bar(g)	-10-230 / 3.2		
DRIVER PERFORMANCE			UTILITY SUPPLIES		
29	OPERATING SPEED	rpm	2980	ELECTRICAL SUPPLY :	
31	RATING	kW	250	V	6000
32	MANUFACTURER		WEG	V	380
33	NO. OF POLES		2	V	230
34	DRIVE		DIRECT	PH	3
35				Hz	50
36				PH	3
36				Hz	50
36				PH	1
36				Hz	50
SITE CONDITIONS			WEIGHTS AND DIMENSIONS		
38	ELEVATION	m	<1000	COMPRESSOR	kg
39	AMB. TEMPERATURE	°C	5-48	DRIVER	kg
40	AMB. PRESSURE	bar(a)	1,013	MISCELLANEOUS	kg
41	REL. HUMIDITY	%	65-100	TOTAL	kg
42	AREA CLASSIFICATION		Safe area		TBD
43	NOISE LIMITATION	dBA	85	SIZE	mm L X W X H
44	General Comment: ASPC Rotary: Noise level @1m of equipment shall be considered.				
46					
BEARING HOUSING			ASPC Rotary: Blower weight shall be added.		
TYPE			N/A		
BALL / ROLLER			ROLLER		
MATERIAL			EN-GJL-250		
COOLING			AIR-COOLED		
DRIVE DIRECTION			CW		
LUBRICATION					
LUBE SYSTEM :			FORCED, GEAR PUMP		
LUBE OIL PUMP DRIVE :			kW		
SYSTEM OIL CAPACITY			L		
LUBE OIL COOLER			AIR-COOLED		
LUBE OIL FILTER			INCLUDED		
THERMOSTATIC VALVE			YES		
TIMING GEARS			STANDARDS AND SPECIFICATIONS		
MATERIAL			16 Mn Cr5		
TYPE			HELICAL, TEETH HARDENED		
SHAFT SEALING			INSTRUMENTATION		
TYPE			LABYRINTH SEAL		
			FUNCTION		
			TYPE(S)		
			COMPRESSOR INLET PRESSURE		
			GAUGE & TRANSMITTER		
			COMPRESSOR INLET FILTER DIFF. PRESSURE		
			TRANSMITTER		
			COMPRESSOR DISCHARGE TEMPERATURE		
			TRANSMITTER		
			COMPRESSOR DISCHARGE PRESSURE		
			GAUGE & TRANSMITTER		
			COMPRESSOR OIL TEMPERATURE		
			TRANSMITTER		
			COMPRESSOR OIL PRESSURE		
			GAUGE & TRANSMITTER		
			MAIN MOTOR TEMPERATURE (BEARINGS AND WINDINGS)		
			RTD		
NOTES :					
General Comment: RED:Also Noise Hood.					

ASPC process:
Discrepancy with PFD (P:2.305 bara,T:163 C) to be removed.

ASPC/MC/FSD Process:
With considering set pressure of outlet psv equal to 4.3 barg, please review Design pressure.

General Comment:
ASPC Process:
Amb pressure = 0 barg

ASPC Rotary:
Oil capacity shall be added.