



Vendor	ABT 360 KT/Y PP PLANT Project			Owner
	Equipment data sheet			
	Vendor's Doc. No.: 23249-11	Rev.: 01		
	PPEC Doc. No.: L03-RE037-ME-DSH-002			

PPEC REQ. NO. : L03-RE037-ME-DSH-002

ITEM NO. :

TOTAL PAGES : 06

- **NO COMMENTS** : Documents/Drawings Were Checked By PPEC And Further Step Can Be Followed.
- **COMMENTED AS MARKED:** Documents/Drawings Were Checked By PPEC And Marked Comments Must Be Considered By Vendor. Vendor Shall Revise Documents/Drawing As Per Comments And The New Revision Of Documents/Drawings Must Be Revised Prior To Fabrication.
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01	27-05-2025	Issue for Engineering	S.K.	S.K.	J.J.	
00	18-04-2025	Issue for Engineering	S.K.	S.K.	J.J.	
REV.	DATE	Description	Prepared by	Checked by	Approved by	Authorized by

Vendor 	ABT 360 KT/Y PP PLANT		Contractor (DEC)	Owner  سراج گستران رجال SERAJ GOSTARAN REJAL (سهایی خانی)
	Equipment data sheet			
	Vendor's Doc. No.: 2 3 2 4 9 - 1 1 PPEC Doc. No.: L03-RE037-ME-DSH-002	Rev.: 01		

PAGE NO.		CHANGE INDEX DURING FORMAL ISSUE						REASON OF LATEST CHANGE
		FIRST ISSUE	SECOND ISSUE	THIRTH ISSUE	FOURTH ISSUE	FIFTH ISSUE	SIXTH ISSUE	
		REV.00	REV.01	REV.02	REV.03	REV.04	REV.05	
1		X	X					
2		X	X					
3		X	X					
4		X	X					
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VENDOR 		EQUIPMENT DATA SHEET		P.O. No.		1402-SGE-088 Rev 01				
				Document No.		L03-RE037-ME-DSH-002				
				Sheet No.		3 of 6				
				Rev.No		01				
CONTRACTOR / END USER Seraj Gostaran Rejal Petro Palayesh Engineering Company		ABT 360 KT/Y PP PLANT Project		Item Tag No.		PK6801				
				Service		Gas booster compressor package				
1	VENDOR (COMPRESSOR) :		Airpack Netherlands B.V.		REFERENCE :		23249-COM			
2	SERVICE :		Gas booster compressor PK6801		SERIAL NO. :		T-2025-00821			
3	QUANTITY :		1		OPERATION :		1 X 100%			
4	OPERATING CONDITIONS				PACKAGE SCOPE OF SUPPLY					
5	GAS HANDLED :		Case 1: 77% propylene & 23% propane		COMPRESSOR TYPE :		Horizontal piston booster			
6			Case 2: 70,2% propylene, 26,2% propane, 3,3% ethylene, 0,3% ethane		DRIVER TYPE :		Fixed speed, including electric motor			
7					COUPLING / GUARD :		Direct via coupling			
8	INLET CONDITIONS				CONFIGURATION:					
9	PRESSURE	bar(g)	2,8-3,5		INTAKE FILTER / SILENCER:				N/A	
10	TEMPERATURE	°C	0-60		INTERCOOLING :				Water cooled	
11	CAPACITY	kg/h	1100-1200		AFTERCOOLER :				N/A	
12					LUBE-OIL COOLER:				N/A	
13	DISCHARGE CONDITIONS				LUBE-OIL FILTER:					
14	INLET PRESSURE STAGE 1	bar(g)	2,8-3,5		OIL REMOVAL FILTER :				Yes (cartridge type)	
15	OUTLET PRESSURE STAGE 1	bar(g)	10,5		AUTO CONDENSATE TRAP:				No	
16	INLET PRESSURE STAGE 2	bar(g)	10,5		Unit Control Panel (UCP)				Yes, one (1) UCP with PLC	
17	OUTLET PRESSURE STAGE 2	bar(g)	21		Local control panel (LCP)				Yes, one (1) on skid	
18	FLOW RATE	kg/h	1100-1200		Junction boxes				Yes, on skid	
19	TEMPERATURE STAGE 1	°C	45-99		RCU AND SAFETY SWITCHES FOR MOTORS:				N/A	
20	TEMPERATURE STAGE 2	°C	85-97		VIBRATION MONITOR :				No	
21	AVERAGE COMPRESSION RATIO		2,4027		INTERCONNECTING PIPEWORK & VALVES :				No	
22					ACOUSTIC ENCLOSURE :				No	
23	COMP. PERFORMANCE				FOUNDATION BOLTS :					
24	SPEED	rpm	495		RECEIVER VESSELS:				N/A	
25	POWER AT COUPLING	kW	75		LIGHTING:				N/A	
26	TYPE		Horizontal piston booster							
27	stages		2							
28	DRIVER PERFORMANCE				UTILITY SUPPLIES					
29	OPERATING SPEED	rpm	495		ELECTRICAL SUPPLY :					
30	RATING	kW	75		V	400	PH	3	Hz	50
31	MANUFACTURER		WEG		V	110	PH	1	Hz	50
32										
33					COOLING MEDIUM :				Water	
34					TEMPERATURE				°C	42
35					PRESSURE				bar(g)	TBD
36	SITE CONDITIONS				WEIGHTS AND DIMENSIONS					
37	ELEVATION	m	<1000		COMPRESSOR	kg	2954			
38	AMB. TEMPERATURE	°C	1 / 55		DRIVER	kg	1491			
39	AMB. PRESSURE	bar(a)	1,03		MISCELLANEOUS	kg	TBD			
40	REL. HUMIDITY	%	5 / 100		TOTAL	kg	TBD			
41	LOCATION :		Onshore							
42	AREA CLASSIFICATION		Zone 2							
43	NOISE LIMITATION	dBA	85 at 1 meter distance		SIZE	mm	L X W X H		3950 x 3200 x 2410	
44										
45	NOTES :									
46										
47										


Please refer to NOTE3 of datasheet

VENDOR 		<h1>EQUIPMENT DATA SHEET</h1>			P.O. No. 1402-SGE-088 Rev 01	
CONTRACTOR / END USER Seraj Gostaran Rejal Petro Palayesh Engineering Company					Document No. L03-RE037-ME-DSH-002	
					Sheet No. 4 of 6	
					Rev.No 01	
		ABT 360 KT/Y PP PLANT Project			Item Tag No. PK6801	
					Service Gas booster compressor package	

1	CONSTRUCTION					
2	SPEEDS			BEARING HOUSING		
3	MAXIMUM ALLOWABLE	RPM	700	TYPE	NA	
4	ROTATION VIEWED FROM DRIVEN END	Right		BALL / ROLLER	NA	
5	CASING			MATERIALS		
6	MODEL	2EHA-2-L-GT		CYLINDERS	CI / DI	
7	MAXIMUM WORKING PRESSURE	bar(g)	21	PRESSURE PACKING	PTFE	
8	MAXIMUM DESIGN PRESSURE	bar(g)	30	PISTONS	ALUM	
9	MAXIMUM OPERATING TEMP	°C	97	PISTON RINGS	PTFE	
10	MINIMUM OPERATING TEMP	°C	0	PISTON RODS	SS	
11				VALVE SEAT	SS	
12				LUBRICATION		
13				LUBE SYSTEM :		SHAFT DRIVEN
14				SYSTEM OIL CAPACITY	Liter	TBD
15				LUBE OIL COOLER		OIL COOLER E-02
16				LUBE OIL FILTER		1-12 UNF connection
17				LUBRICATION CHANGE	hour	8.000
18				LUBRICANT TYPE		Water cooled
19						
20						
21						
22						
23	SHAFT					
24	DIAMETER AT COMPRESSOR	mm	TBD			
25	DIAMETER AT MOTOR	mm	TBD			
26						
27						
28	STANDARDS AND SPECIFICATIONS					
29						
30						
31	SHAFT SEALING			INSTRUMENTATION		
32	TYPE		TBD	REFER TO: - P&ID (L03-RE037-PR-PID-001) - INSTR. DATASHEET (L03-RE037-IN-DSH-003)		
33	MATERIAL		TBD			
34	SIZE	mm	TBD			
35	SKID / COMPRESSOR CONNECTIONS					
36	NOZZLE	SIZE	RATING	FACING	POSITION	
37	PACKAGE INLET	3"	150#	RF	TP-001	
38	PACKAGE OUTLET	2"	300#	RF	TP-002	
39	CW SUPPLY	1 1/2"	150#	RF	TP-003	
40	CW RETURN	1 1/2"	150#	RF	TP-004	
41						
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58	NOTES : 1. Compressor lube oil level can be checked at sight glass					
59						
60						

MUST BE 300#

VENDOR 		EQUIPMENT DATA SHEET		P.O. No. 1402-SGE-088 Rev 01 Document No. L03-RE037-ME-DSH-002 Sheet No. 1 of 1 Rev.No. 1.0	
CONTRACTOR / END USER Seraj Gostaran Rejal Petro Palayesh Engineering Company		ABT 360 KT/Y PP PLANT Project		Please implement this tag numbers to P&ID Item Tag: Service: Gas booster compressor package	
1 PULSATION DAMPER INLET D-PK6801-1					
2	OPERATING PRESSURE	Bar(g)	2.8-3.5	WEIGHT EMPTY	kg
3	DESIGN PRESSURE	Bar(g)	5	CAPACITY	L
4	HYDROTEST PRESSURE	Bar(g)	7.5	PSV SETTING	Bar(g)
5	OPERATING TEMPERATURE	°C	0-60	MIN. / MAX. DIAMETER	mm
6	DESIGN TEMPERATURE	°C	75	NOZZLE SIZE IN/OUT	3" 150#
7	DESIGN CODE	Mfr. Std.		NOZZLE SIZE PSV	1" 150"
8	MATERIAL OF CONSTRUCTION	Carbon steel			
9 PULSATION DAMPER 1st stage D-PK6801-2					
10	OPERATING PRESSURE	Bar(g)	10.5	WEIGHT EMPTY	kg
11	DESIGN PRESSURE	Bar(g)	16	CAPACITY	L
12	HYDROTEST PRESSURE	Bar(g)	24	PSV SETTING	Bar(g)
13	OPERATING TEMPERATURE	°C	45-99	MIN. / MAX. DIAMETER	mm
14	DESIGN TEMPERATURE	°C	120	NOZZLE SIZE IN/OUT	Mfr. Std.
15	DESIGN CODE	Mfr. Std.		NOZZLE SIZE PSV	1" 300#
16	MATERIAL OF CONSTRUCTION	Carbon steel			
17 PULSATION DAMPER 2nd stage D-PK6801-3					
18	OPERATING PRESSURE	Bar(g)	10.5	WEIGHT EMPTY	kg
19	DESIGN PRESSURE	Bar(g)	16	CAPACITY	L
20	HYDROTEST PRESSURE	Bar(g)	24	PSV SETTING	Bar(g)
21	OPERATING TEMPERATURE	°C	52	MIN. / MAX. DIAMETER	mm
22	DESIGN TEMPERATURE	°C	75	NOZZLE SIZE IN/OUT	Mfr. Std.
23	DESIGN CODE	Mfr. Std.			
24	MATERIAL OF CONSTRUCTION	Carbon steel			
17 PULSATION DAMPER 2nd stage D-PK6801-4					
18	OPERATING PRESSURE	Bar(g)	21	WEIGHT EMPTY	kg
19	DESIGN PRESSURE	Bar(g)	30	CAPACITY	L
20	HYDROTEST PRESSURE	Bar(g)	45	PSV SETTING	Bar(g)
21	OPERATING TEMPERATURE	°C	45-99	MIN. / MAX. DIAMETER	mm
22	DESIGN TEMPERATURE	°C	120	NOZZLE SIZE IN/OUT	2" 600#
23	DESIGN CODE	Mfr. Std.		NOZZLE SIZE PSV	1" 600#
24	MATERIAL OF CONSTRUCTION	Carbon steel			
39	NOTES :				
40					
41					

VENDOR 		EQUIPMENT DATA SHEET				P.O. No. 1402-SGE-088 Rev 01	P.O. No. 1402-SGE-088 Rev 01
CONTRACTOR / END USER Seraj Gostaran Rejal Petro Palayesh Engineering Company		ABT 360 KT/Y PP PLANT Project				Document No. L03-RE037-ME-DSH-002	Document No. L03-RE037-ME-DSH-002
						Sheet No. 6 of 6	Sheet No. 6 of 6
						Rev.No 01	Rev.No 01
						PK6801	PK6801
						as booster compressor package	as booster compressor package
1 OIL SUMP							
2 NO. REQUIRED		1		OPERATING FLUID (MODEL)		CEPSA SUPER SERIE 3 SAE30	
3 MFR SUPPLIER		COMPRESSOR MFR		VOLUME		L	
4 OPERATING PRESSURE		2		DESIGN PRESSURE		Bar(g)	
5 LOCATION		Oil system					
6 OIL PUMP P-PK6801-01							
7 OPERATING PRESSURE		2		TYPE		Shaft driven	
8 DESIGN PRESSURE		5,5		OPERATING FLUID		OIL	
9 OPERATING TEMPERATURE		15 - 68		OPERATING FLOW RATE		m3/h	
10 DESIGN TEMPERATURE		70		MFR SUPPLIER		Compressor mfr.	
11 OIL FILTER F-PK6801-03							
12 NO. REQUIRED		1		MAXIMUM ALLOWABLE DP		Bar	
13 MFR SUPPLIER		Compressor mfr.		FLOW RATE		m3/h	
14 OPERATING PRESSURE		2		FILTER EFFICIENCY		µm	
15 DESIGN PRESSURE		14		DESIGN TEMPERATURE		°C	
16 OPERATING TEMPERATURE		15 - 68					
17 COOLER E-PK6801-01							
18 FLUID ALLOCATION		SHELL SIDE		TUBE SIDE		MATERIAL	
19 FLUID NAME		water		Gas		Carbon steel/ AISI316	
20 FLUID QUANTITY, TOTAL		3922,76		1536,69		DESIGN/TEST PRESSURE	
21 TEMPERATURE (IN/OUT)		42 51,8		96,4 47		Bar(g)	
22 DENSITY GAS CASE 1		991,8		17,6		°C	
23 DENSITY GAS CASE 2		991,8		17,4			
24 INLET PRESSURE		8		10,5			
25 NOTES :							
26							
27							

Please implement this tag numbers to P&ID

Where is the oil cooler?