



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

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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:			
10	TEMPERATURE	°C	0-60		INTERCOOLING :			
11	CAPACITY	kg/h	1100-1200		AFTERCOOLER :			
12					LUBE-OIL COOLER:			
13	DISCHARGE CONDITIONS				LUBE-OIL FILTER:			
14	INLET PRESSURE STAGE 1	bar(g)	2,8-3,5		OIL REMOVAL FILTER :			
15	OUTLET PRESSURE STAGE 1	bar(g)	10,5		AUTO CONDENSATE TRAP:			
16	INLET PRESSURE STAGE 2	bar(g)	10,5		Unit Control Panel (UCP)			
17	OUTLET PRESSURE STAGE 2	bar(g)	21		Local control panel (LCP)			
18	FLOW RATE	kg/h	1100-1200		Junction boxes			
19	TEMPERATURE STAGE 1	°C	45-99		RCU AND SAFETY SWITCHES FOR MOTORS:			
20	TEMPERATURE STAGE 2	°C	85-97		VIBRATION MONITOR :			
21	AVERAGE COMPRESSION RATIO		2,4027		INTERCONNECTING PIPEWORK & VALVES :			
22					ACOUSTIC ENCLOSURE :			
23	COMP. PERFORMANCE				FOUNDATION BOLTS :			
24	SPEED	rpm	495		RECEIVER VESSELS:			
25	POWER AT COUPLING	kW	75		LIGHTING:			
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
31	MANUFACTURER		WEG		V	110	PH	1
32								
33					COOLING MEDIUM :			
34					TEMPERATURE °C			
35					PRESSURE bar(g)			
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								

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		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							
42							
43							
44							
45							
46							
47							
48							
49							
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51							
52							
53							
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56							
57							
58	NOTES : 1. Compressor lube oil level can be checked at sight glass						
59							
60							

VENDOR 		<h1>EQUIPMENT DATA SHEET</h1>		P.O. No.		1402-SGE-088 Rev 01	
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		ABT 360 KT/Y PP PLANT Project		Item Tag No.		PK6801	
				Service		Gas booster compressor package	
1 PULSATION DAMPER INLET D-PK6801-1							
2	OPERATING PRESSURE	Bar(g)	2.8-3.5	WEIGHT EMPTY	kg	Included in compressor weight	
3	DESIGN PRESSURE	Bar(g)	5	CAPACITY	L	95,24	
4	HYDROTEST PRESSURE	Bar(g)	7,5	PSV SETTING	Bar(g)	5	
5	OPERATING TEMPERATURE	°C	0-60	MIN. / MAX. DIAMETER	mm	210 / 1284.8	
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	Included in compressor weight	
11	DESIGN PRESSURE	Bar(g)	16	CAPACITY	L	69,84	
12	HYDROTEST PRESSURE	Bar(g)	24	PSV SETTING	Bar(g)	16	
13	OPERATING TEMPERATURE	°C	45-99	MIN. / MAX. DIAMETER	mm	210 / 1463.1	
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	Included in compressor weight	
19	DESIGN PRESSURE	Bar(g)	16	CAPACITY	L	34,7	
20	HYDROTEST PRESSURE	Bar(g)	24	PSV SETTING	Bar(g)	16	
21	OPERATING TEMPERATURE	°C	52	MIN. / MAX. DIAMETER	mm	130 / 1395.1	
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	Included in compressor weight	
19	DESIGN PRESSURE	Bar(g)	30	CAPACITY	L	30	
20	HYDROTEST PRESSURE	Bar(g)	45	PSV SETTING	Bar(g)	30	
21	OPERATING TEMPERATURE	°C	45-99	MIN. / MAX. DIAMETER	mm	339.4 / 631.6	
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							

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						Item Tag No. PK6801	Service Gas 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	TBD
4	OPERATING PRESSURE	Bar(g)	2		DESIGN PRESSURE	Bar(g)	4
5	LOCATION		Oil system				
6	OIL PUMP P-PK6801-01						
7	OPERATING PRESSURE	Bar(g)	2		TYPE		Shaft driven
8	DESIGN PRESSURE	Bar(g)	5,5		OPERATING FLUID		OIL
9	OPERATING TEMPERATURE	°C	15 - 68		OPERATING FLOW RATE	m3/h	1
10	DESIGN TEMPERATURE	°C	70		MFR SUPPLIER		Compressor mfr.
11	OIL FILTER F-PK6801-03						
12	NO. REQUIRED		1		MAXIMUM ALLOWABLE DP		Bar TBD
13	MFR SUPPLIER		Compressor mfr.		FLOW RATE		m3/h 1
14	OPERATING PRESSURE	Bar(g)	2		FILTER EFFICIENCY		µm TBD
15	DESIGN PRESSURE	Bar(g)	14		DESIGN TEMPERATURE		°C 70
16	OPERATING TEMPERATURE	°C	15 - 68				
17	COOLER E-PK6801-01						
18	FLUID ALLOCATION		SHELL SIDE		TUBE SIDE		MATERIAL Carbon steel/ AISI316
19	FLUID NAME		water		Gas		DESIGN/TEST PRESSURE Bar(g) 16
20	FLUID QUANTITY, TOTAL	kg/h	3922,76		1536,69		DESIGN TEMPERATURE °C 120
21	TEMPERATURE (IN/OUT)	°C	42	51,8	96,4	47	CONNECT. SIZE & RATING (IN/OUT) Mrf. Std
22	DENSITY GAS CASE 1	kg/m3	991,8		17,6		
23	DENSITY GAS CASE 2	kg/m3	991,8		17,4		
24	INLET PRESSURE	Bar(g)	8		10,5		
25	NOTES :						
26							
27							