



Vendor	<b>ABT 360 KT/Y PP PLANT Project</b>			Owner
	Equipment data sheet			
	Vendor's Doc. No.: 23249-11	Rev.: 02		
	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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02	18-07-2025	Issue for Engineering	O.G.C	S.K.	J.J.	
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 	<b>ABT 360 KT/Y PP PLANT</b>		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.: 02		

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	X				
2		X	X	X				
3		X	X	X				
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VENDOR 		<b>EQUIPMENT DATA SHEET</b>		P.O. No.		1402-SGE-088 Rev 01		
				Document No.		L03-RE037-ME-DSH-002		
				Sheet No.		3 of 6		
				Rev.No		02		
CONTRACTOR / END USER  Seraj Gostaran Rejal Petro Palayesh Engineering Company		<b>ABT 360 KT/Y PP PLANT Project</b>		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								

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 02	
		Item Tag No. PK6801			
		Service Gas booster compressor package			
<h2>CONSTRUCTION</h2>					
<b>SPEEDS</b>			<b>BEARING HOUSING</b>		
3	MAXIMUM ALLOWABLE	RPM	700	TYPE	NA
4	ROTATION VIEWED FROM DRIVEN END	Right		BALL / ROLLER	NA
<b>CASING</b>			<b>MATERIALS</b>		
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
<b>LUBRICATION</b>					
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					
<b>SHAFT</b>					
24	DIAMETER AT COMPRESSOR	mm	TBD		
25	DIAMETER AT MOTOR	mm	TBD		
26					
27					
<b>STANDARDS AND SPECIFICATIONS</b>					
28					
29					
30					
<b>SHAFT SEALING</b>			<b>INSTRUMENTATION</b>		
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	<b>SKID / COMPRESSOR CONNECTIONS</b>				
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"	300#	RF	TP-003
40	CW RETURN	1 1/2"	300#	RF	TP-004
41					
42					
43					
44					
45					
46					
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
NOTES : 1. Compressor lube oil level can be checked at sight glass					

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CONTRACTOR / END USER  Seraj Gostaran Rejal Petro Palayesh Engineering Company		<b>ABT 360 KT/Y PP PLANT Project</b>		Sheet No. 5 of 6	Rev.No 02
				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
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					

<b>VENDOR</b> 		<h1>EQUIPMENT DATA SHEET</h1>				P.O. No.		1402-SGE-088 Rev 01			
<b>CONTRACTOR / END USER</b>  Seraj Gostaran Rejal Petro Palayesh Engineering Company						Document No.		L03-RE037-ME-DSH-002			
						Sheet No.		6 of 6			
						Rev.No		02			
		<b>ABT 360 KT/Y PP PLANT Project</b>				Item Tag No.		PK6801			
						Service		Gas booster compressor package			
<b>1 OIL SUMP</b>											
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									
<b>6 OIL PUMP P-PK6801-01</b>											
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.			
<b>11 OIL FILTER F-PK6801-03</b>											
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							
<b>17 COOLER E-PK6801-01</b>											
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		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					
<b>25 NOTES :</b>											
<b>26</b>											
<b>27</b>											