



Vendor	ABT 360 KT/Y PP PLANT Project			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 	ABT 360 KT/Y PP PLANT		Contractor (DEC)	Owner  سراج گستران رجال SERAJ GOSTARAN REJAL (سهامی خاص)
	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 		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 02	
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 :
2	SERVICE :		Gas booster compressor PK6801		SERIAL NO. :
3	QUANTITY :		1		OPERATION :
4	OPERATING CONDITIONS		PACKAGE SCOPE OF SUPPLY		
5	GAS HANDLED :		Case 1: 77% propylene & 23% propane		COMPRESSOR TYPE :
6			Case 2: 70,2% propylene, 26,2% propane, 3,3% ethylene, 0,3% ethane		DRIVER TYPE :
7					COUPLING / GUARD :
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 :		
34			TEMPERATURE °C 42		
35			PRESSURE bar(g) 8		
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					

ZONE 2, GAS GROUP IIC, TEMP. CLASS T3
Please consider and confirm

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	
		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"	300#			RF	TP-003
40	CW RETURN	1 1/2"	300#			RF	TP-004
41							
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58	NOTES : 1. Compressor lube oil level can be checked at sight glass						
59							
60							

VENDOR 		EQUIPMENT DATA SHEET		P.O. No. 1402-SGE-088 Rev 01 Document No. L03-RE037-ME-DSH-002 Sheet No. 5 of 6 Rev.No 02	
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	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					

VENDOR 		EQUIPMENT DATA SHEET		P.O. No. 1402-SGE-088 Rev 01 Document No. L03-RE037-ME-DSH-002 Sheet No. 6 of 6 Rev.No 02	
CONTRACTOR / END USER Seraj Gostaran Rejal Petro Palayesh Engineering Company		ABT 360 KT/Y PP PLANT Project		Item Tag No. PK6801 Please add tag number like bellow items	
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	
19 FLUID NAME		water		Gas	
20 FLUID QUANTITY, TOTAL kg/h		3922,76		1536,69	
21 TEMPERATURE (IN/OUT) °C		42 51,8		96,4 47	
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					