



Vendor	<b>ABT 360 KT/Y PP PLANT Project</b>		Owner
	Equipment data sheet		
	Vendor's Doc. No.: 23249-11	Rev.: 00	
	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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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 گستاران رجال SERAJ GOSTARAN REJAL (سهامی خاص)
	Equipment data sheet			
	Vendor's Doc. No.: 2 3 2 4 9 - 1 1	Rev.: 00		
PPEC Doc. No.: L03-RE037-ME-DSH-002				


PAGE NO.	CHANGE INDEX DURING FORMAL ISSUE							REASON OF LATEST CHANGE
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	REV.00	REV.01	REV.02	REV.03	REV.04	REV.05		
1	X							
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VENDOR		 <h2 style="text-align: center;">EQUIPMENT DATA SHEET</h2>		P.O. No.		1402-SGE-088 Rev 01			
				Document No.		L03-RE037-ME-DSH-002			
				Sheet No.		3 of 6			
				Rev.No		00			
CONTRACTOR / END USER		<h3 style="text-align: center;">ABT 360 KT/Y PP PLANT Project</h3>		Item Tag No.		PK-6801			
Seraj Gostaran Rejal Petro Palayesh Engineering Company				Service		Gas booster compressor package			
1	VENDOR (COMPRESSOR) :	Airpack Netherlands B.V.		REFERENCE :	23249-COM				
2	SERVICE :	Gas booster compressor		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:	1x100%				
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:	Single				
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 :	Yes				
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	TBD			
38	AMB. TEMPERATURE	°C	1 / 55	DRIVER	kg	TBD			
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	... x ... x ... (filled in after GAD)		
44									
45	NOTES :								
46									
47									

VENDOR 	<b>EQUIPMENT DATA SHEET</b>	P.O. No.	1402-SGE-088 Rev 01
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CONTRACTOR / END USER  Seraj Gostaran Rejal Petro Palayesh Engineering Company	<b>ABT 360 KT/Y PP PLANT Project</b>	Item Tag No.	PK-6801
		Service	Gas booster compressor package

1	<b>CONSTRUCTION</b>			
2	<b>SPEEDS</b>		<b>BEARING HOUSING</b>	
3	MAXIMUM ALLOWABLE	RPM	700	TYPE
4	ROTATION VIEWED FROM DRIVEN END		Right	BALL / ROLLER
5	<b>CASING</b>		<b>MATERIALS</b>	
6	MODEL		TBD	CASING
7	MAXIMUM WORKING PRESSURE	bar(g)	21	
8	MAXIMUM DESIGN PRESSURE	bar(g)	30	SEALS
9	MAXIMUM OPERATING TEMP	°C	97	
10	MINIMUM OPERATING TEMP	°C	0	
11				
12				<b>LUBRICATION</b>
13				LUBE SYSTEM :
14				SYSTEM OIL CAPACITY
15				LITER
16				LUBE OIL COOLER
17				LUBE OIL FILTER
18				LUBRICATION CHANGE
19				hour
20				LUBRICANT TYPE
21				
22				
23	<b>SHAFT</b>			
24	DIAMETER AT COMPRESSOR	mm	TBD	
25	DIAMETER AT MOTOR	mm	TBD	
26				
27				
28				<b>STANDARDS AND SPECIFICATIONS</b>
29				
30				
31	<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
37	PACKAGE INLET	3"	150#	RF
38	PACKAGE OUTLET	2"	300#	RF
39	CW SUPPLY	1 1/2"	150#	RF
40	CW RETURN	1 1/2"	150#	RF
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58	NOTES : 1. Compressor lube oil level can be checked at sight glass			
59				
60				

VENDOR		 <h2 style="text-align: center;">EQUIPMENT DATA SHEET</h2>		P.O. No.	1402-SGE-088 Rev 01	
				Document No.	L03-RE037-ME-DSH-002	
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CONTRACTOR / END USER		<h3 style="text-align: center;">ABT 360 KT/Y PP PLANT Project</h3>		Item Tag No.	PK-6801	
Seraj Gostaran Rejal Petro Palayesh Engineering Company				Service	Gas booster compressor package	
<b>1 PULSATION DAMPER INLET D-PK-6003-1</b>						
2	OPERATING PRESSURE	Bar(g)	<b>2.8-3.5</b>	WEIGHT EMPTY	kg	<b>TBD</b>
3	DESIGN PRESSURE	Bar(g)	<b>5</b>	CAPACITY	m3	<b>To be calculated</b>
4	HYDROTEST PRESSURE	Bar(g)	<b>7,5</b>	PSV SETTING	Bar(g)	<b>5</b>
5	OPERATING TEMPERATURE	°C	<b>0-60</b>	DIMENSIONS	DIAXIT	<b>TBD</b>
6	DESIGN TEMPERATURE	°C	<b>75</b>	NOZZLE SIZE IN/OUT		<b>TBD</b>
7	DESIGN CODE		<b>Mfr. Std.</b>	NOZZLE SIZE PSV		<b>TBD</b>
8	MATERIAL OF CONSTRUCTION		<b>Carbon steel</b>			
<b>9 PULSATION DAMPER 1st stage D-PK-6003-2</b>						
10	OPERATING PRESSURE	Bar(g)	<b>10.5</b>	WEIGHT EMPTY	kg	<b>TBD</b>
11	DESIGN PRESSURE	Bar(g)	<b>16</b>	CAPACITY	m3	<b>To be calculated</b>
12	HYDROTEST PRESSURE	Bar(g)	<b>24</b>	PSV SETTING	Bar(g)	<b>16</b>
13	OPERATING TEMPERATURE	°C	<b>45-99</b>	DIMENSIONS	DIAXIT	<b>TBD</b>
14	DESIGN TEMPERATURE	°C	<b>120</b>	NOZZLE SIZE IN/OUT		<b>TBD</b>
15	DESIGN CODE		<b>Mfr. Std.</b>	NOZZLE SIZE PSV		<b>TBD</b>
16	MATERIAL OF CONSTRUCTION		<b>Carbon steel</b>			
<b>17 PULSATION DAMPER 2nd stage D-PK-6003-3</b>						
18	OPERATING PRESSURE	Bar(g)	<b>10.5</b>	WEIGHT EMPTY	kg	<b>TBD</b>
19	DESIGN PRESSURE	Bar(g)	<b>16</b>	CAPACITY	m3	<b>To be calculated</b>
20	HYDROTEST PRESSURE	Bar(g)	<b>24</b>	PSV SETTING	Bar(g)	<b>16</b>
21	OPERATING TEMPERATURE	°C	<b>52</b>	DIMENSIONS	DIAXIT	<b>TBD</b>
22	DESIGN TEMPERATURE	°C	<b>75</b>	NOZZLE SIZE IN/OUT		<b>TBD</b>
23	DESIGN CODE		<b>Mfr. Std.</b>	NOZZLE SIZE PSV		<b>TBD</b>
24	MATERIAL OF CONSTRUCTION		<b>Carbon steel</b>			
<b>17 PULSATION DAMPER 2nd stage D-PK-6003-4</b>						
18	OPERATING PRESSURE	Bar(g)	<b>21</b>	WEIGHT EMPTY	kg	<b>TBD</b>
19	DESIGN PRESSURE	Bar(g)	<b>30</b>	CAPACITY	m3	<b>To be calculated</b>
20	HYDROTEST PRESSURE	Bar(g)	<b>45</b>	PSV SETTING	Bar(g)	<b>30</b>
21	OPERATING TEMPERATURE	°C	<b>45-99</b>	DIMENSIONS	DIAXIT	<b>TBD</b>
22	DESIGN TEMPERATURE	°C	<b>120</b>	NOZZLE SIZE IN/OUT		<b>TBD</b>
23	DESIGN CODE		<b>Mfr. Std.</b>	NOZZLE SIZE PSV		<b>TBD</b>
24	MATERIAL OF CONSTRUCTION		<b>Carbon steel</b>			
39	<b>NOTES :</b>					
40						
41						

<b>VENDOR</b> 		<h1 style="text-align: center;">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	
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<b>ABT 360 KT/Y PP PLANT Project</b>		Item Tag No. PK-6801		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		EQUIPMENT NO.		NA
<b>6 OIL PUMP P-PK-6801-1</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		L/min TBD
10 DESIGN TEMPERATURE		°C 70		MFR SUPPLIER		Compressor mfr.
<b>11 OIL FILTER F-PK-6801-3</b>						
12 NO. REQUIRED		1		MAXIMUM ALLOWABLE DP		Bar TBD
13 MFR SUPPLIER		TBD		FLOW RATE		L/min TBD
14 OPERATING PRESSURE		Bar(g) 2		FILTER EFFICIENCY		µm TBD
15 DESIGN PRESSURE		Bar(g) 14		DESIGN TEMPERATURE		°C TBD
16 OPERATING TEMPERATURE		°C TBD				
<b>17 COOLER E-PK-6801-1</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 TBD		1100-1200		DESIGN TEMPERATURE °C 120
21 TEMPERATURE (IN/OUT)		°C		45-99 Max. 52		CONNECT. SIZE & RATING (IN/OUT) TBD
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 <b>NOTES :</b>						
26						
27						