



LIDCO, Pars SEE Zone, Assaluyeh,
Integrated Methanol and Ammonia
Plant 3000 MTPD MeOH / 900 MTPD NH3 PROJECT



Equipment Data Sheet

Document No. 17735-11A

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**Airpack B.V. - Air Compressor –
Integrated Methanol and Ammonia Plant
17735-COM Equipment Data Sheet (K020)**

REV.	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED
02	10-06-2024	Issued for Approval	S.K.	S.K.	J.J.
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				Document No.		N-278-VD-6019-ME-DS-0011-01	
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				Rev.No		2	
CONTRACTOR / END USER		Integrated Methanol and Ammonia Plant		Item Tag No.		K-020	
				Service		Compressed Instrument Air	
1	VENDOR (COMPRESSOR) :	Airpack Netherlands B.V.		REFERENCE :	17735-COM		
2	TYPE / MODEL :	High Pressure Air Compressor		SERIAL NO. :	3000 MTPD MeOH/900 MTPD NH3 PROJECT		
3	SERVICE :	Compressed Air		OPERATION :	Duty		
4	QUANTITY :	1					
OPERATING CONDITIONS				PACKAGE SCOPE OF SUPPLY			
6	GAS HANDLED :	Instrument air		COMPRESSOR TYPE :	non lubricated, single acting, vertical piston		
7				DRIVER TYPE :	V-belt		
8				COUPLING / GUARD :	N/A		
INLET CONDITIONS				CONFIGURATION:	1x100%		
10	PRESSURE OP	bar(g)	9.5	INTERCOOLING	Water cooled shell/tube KE-020-001		
11	PRESSURE DP	bar(g)	12.5	AFTERCOOLER	Water cooled shell/tube KE-020-002		
12	TEMPERATURE OT	°C	46	LUBE-OIL HEATER	Included, KH-020-001		
13	TEMPERATURE DT	°C	75	LUBE-OIL PUMP	Shaft driven		
14	FLOW RATE	Nm³/h	35	AIR COOLER	Motor driven fan KM-020-001		
15				CONTROL PANEL	Not included		
16				PANEL ON PACKAGE:	JB and pushbutton station on package		
DISCHARGE CONDITIONS				INTERCONNECTING PIPEWORK & VALVES :	No piping and valves provided for outside package.		
18	PRESSURE OP	bar(g)	30	ACOUSTIC ENCLOSURE	Not included		
19	PRESSURE DP	bar(g)	39				
20	TEMPERATURE OT	°C	60 max.	RECEIVER VESSELS	Not included		
21	TEMPERATURE DT	°C	75				
22	FLOW RATE	Nm³/h	35				
				UTILITY SUPPLIES			
COMP. PERFORMANCE				ELECTRICAL SUPPLY :			
25	SPEED	rpm	410	V	400	Hz	50
26	POWER AT COUPLING	kW	11	V	230	Hz	50
27	TYPE	non lubricated, single acting, vertical piston				ph	3
28						ph	1
				COOLING MEDIUM :	Water		
DRIVER PERFORMANCE				TEMPERATURE INTER COOLER	°C	36	
30	OPERATING SPEED	rpm	1467	TEMPERATURE AFTER COOLER	°C	46	
31	RATING	kW	15	PRESSURE	bar(g)	4.50	
32	MANUFACTURER	SIEMENS		PRESSURE	bar(g)	2.50	
				WEIGHTS AND DIMENSIONS			
34				SKID DRY WEIGHT	kg	2700	
35				SKID OPERATIONAL WEIGHT	kg	2750	
36				SIZE	mm	L X W X H	
36						2500X1500X2110	
SITE CONDITIONS							
38	ELEVATION	m	0				
39	AMB. TEMPERATURE	°C	0 / 49				
40	AMB. PRESSURE	bar(g)	0				
41	AMBIENT AIR HUMIDITY	%	65 / 100				
42	LOCATION :	Iran, onshore					
43	AREA CLASSIFICATION	Safe area					
44	NOISE LIMITATION	dBA	< 85 dB(A) at 1m distance from skid				
45							
46	NOTES :						
47							
48							

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		Rev.No	2	Item Tag No.	K-020	
		Service	Compressed Instrument Air			
1 CONSTRUCTION						
2 SPEEDS						
3	MAXIMUM ALLOWABLE	RPM	410			
4	ROTATION VIEWED FROM DRIVEN END		CW			
5						
6 INSTRUMENTATION						
7 CASING						
7	MODEL		TRZ 400			
8	WORKING PRESSURE 1ST/2ND STAGE	bar(g)	23.3/30			
9	DESIGN PRESSURE	bar(g)	30.5/39			
10	MAXIMUM OPERATING TEMP 1ST/2ND	°C	157/116			
11	NO. OF CYLINDERS		2			
12	CYLINDER BORE 1ST/2ND STAGE	M	0.055/0.035			
13	CYLINDER STROKE 1ST/2ND STAGE	M	0.13/0.13			
14	COOLING MEDIUM BLOCK/CYLINDERS		AIR-COOLED			
15	MATERIAL PISTON/VALVES		STAINLESS STEEL			
16						
17						
18						
19						
20						
21 BEARING HOUSING						
22	TYPE	Anti friction				
23	BALL / ROLLER	Roller				
24						
25 LUBRICATION						
26	LUBE SYSTEM :	Oil sump				
27	LUBE OIL PUMP DRIVE :	Shaft driven				
28	SYSTEM OIL CAPACITY	Liter	18			
29	LUBE OIL HEATER		80 W			
30 CONTROLS						
31	CAPACITY CONTROL METHOD :	Compressor PCV				
32	STOP/START ON PRESSURE SIGNALS	Yes from 300LP-820				
33						
34						
35 SKID CONNECTIONS						
36	NOZZLE	SIZE	RATING	FACING	POSITION	
37	PACKAGE INLET	1"	#300	RF	TP-8201	
38	PACKAGE OUTLET	3/4"	#300	RF	TP-8202	
39	WATER INLET	3/4"	#150	RF	TP-8203	
40	WATER OUTLET	3/4"	#150	RF	TP-8204	
41						
42						
43						

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		Service	Compressed Instrument Air

PULSTATION DAMPER INLET

EQUIPMENT NO.	KV-020-001		LOCATION :	INLET		LIQUID / AIR COOLED	AIR
NO. REQD	1		MFR / SUPPLIED BY:	Locati Impianti			
CAPACITY	Nm3/hr	35					
MATERIAL :	CS						
MAIN IN/OUTLET	1" 300#						
CONNECTIONS	TG	1 1/2" 300#	TT	1 1/2" 300#	PSV	1" 300#	DRAIN
COMPRESSED AIR	O	D	Bar(g)	9.5	12.5	TEMP	O
				°C	46	75	

PULSTATION DAMPER 1ST STAGE DISCHARGE

EQUIPMENT NO.	KV-020-002		LOCATION :	1ST STAGE DISCHARGE		LIQUID / AIR COOLED	AIR
NO. REQD	1		MFR / SUPPLIED BY:	Locati Impianti			
CAPACITY	Nm3/hr	35					
MATERIAL :	CS						
MAIN IN/OUTLET	3/4" 600#						
CONNECTIONS	TG	1 1/2" 600#	TT	1 1/2" 600#	PSV	1" 600#	DRAIN
COMPRESSED AIR	O	D	Bar(g)	23.3	30.5	TEMP	O
				°C	157	175	

PULSTATION DAMPER 2nd STAGE SUCTION

EQUIPMENT NO.	KV-020-003		LOCATION :	2nd STAGE SUCTION		LIQUID / AIR COOLED	AIR
NO. REQD	1		MFR / SUPPLIED BY:	Locati Impianti			
CAPACITY	Nm3/hr	35					
MATERIAL :	CS						
MAIN IN/OUTLET	3/4" 600#						
CONNECTIONS	TG	N/A	TT	1 1/2" 600#	PSV	N/A	DRAIN
COMPRESSED AIR	O	D	Bar(g)	22.1	39.0	TEMP	O
				°C	60	157	

PULSTATION DAMPER 2nd STAGE DISCHARGE

EQUIPMENT NO.	KV-020-004		LOCATION :	2nd STAGE DISCHARGE		LIQUID / AIR COOLED	AIR
NO. REQD	1		MFR / SUPPLIED BY:	Locati Impianti			
CAPACITY	Nm3/hr	35					
MATERIAL :	CS						
MAIN IN/OUTLET	3/4" 600#						
CONNECTIONS	TG	1 1/2" 600#	TT	1 1/2" 600#	PSV	1" 600#	DRAIN
COMPRESSED AIR	O	D	Bar(g)	30.0	39.0	TEMP	O
				°C	116	135	

48 NOTES :

49 Paint system is specified in document: N-278-VD-6019-GN-PRC-0019-01

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