



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
01	08-04-2024	Issued for Approval	S.K.	S.K.	J.J.

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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 :	Direct		
INLET CONDITIONS				CONFIGURATION:			
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 :			
18	PRESSURE OP	bar(g)	30	ACOUSTIC ENCLOSURE	Not included		
19	PRESSURE DP	bar(g)	39	FOUNDATION BOLTS :	T.EN/ISO 8.8 19 MnB4.16.80.305		
20	TEMPERATURE OT	°C	60 max.	RECEIVER VESSELS	Not included		
21	TEMPERATURE DT	°C	75				
22	FLOW RATE	Nm³/h	35				
23				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			
29				°C	36		
30	OPERATING SPEED	rpm	410	TEMPERATURE AFTER COOLER	°C 36		
31	RATING	kW	11	PRESSURE	bar(g)	4.50	
32	MANUFACTURER	MEHRER		PRESSURE	bar(g)	4.50	
33				WEIGHTS AND DIMENSIONS			
34				SKID DRY WEIGHT	kg	2700	
35				SKID OPERATIONAL WEIGHT	kg	2750	
36				SIZE	mm	L X W X H	
						2500X1500X2110	
SITE CONDITIONS							
38	ELEVATION	m	<1000				
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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		Service	Compressed Instrument Air			
CONSTRUCTION						
SPEEDS						
3	MAXIMUM ALLOWABLE	RPM	410			
4	ROTATION VIEWED FROM DRIVEN END		CW			
INSTRUMENTATION						
CASING						
6	REFER TO:					
7	MODEL		TRZ 400			
8	MAXIMUM WORKING PRESSURE	bar(g)	30			
9	MAXIMUM DESIGN PRESSURE	bar(g)	39			
10	MAXIMUM OPERATING TEMP	°C	157			
11	MINIMUM OPERATING TEMP	°C	46			
12						
13						
14						
BEARING HOUSING						
16	TYPE	Anti friction				
17	BALL / ROLLER	Roller				
18						
LUBRICATION						
20	LUBE SYSTEM :		Oil sump			
21	LUBE OIL PUMP DRIVE :	w	80			
22	SYSTEM OIL CAPACITY	Liter	18			
23	LUBE OIL HEATER		Heated			
24						
25						
26						
27						
28						
29						
CONTROLS						
31	CAPACITY CONTROL METHOD :	Compressor PCV				
32	STOP/START ON PRESSURE SIGNALS	Yes from 300LP-820				
33						
34						
SKID / COMPRESSOR CONNECTIONS						
36	NOZZLE	SIZE	RATING	FACING	POSITION	
37	INLET	1"	#300	RF	TP-8201	
38	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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CONTRACTOR / END USER		Integrated Methanol and Ammonia Plant				Item Tag No.	K-020	
						Service	Compressed Instrument Air	
INTERCOOLER								
37	EQUIPMENT NO.	KE-020-001	LOCATION :		1st stage discharge	LIQUID / AIR COOLED	LIQUID	
38	NO. REQD	1	MFR / SUPPLIED BY:		IWS MONJE			
39	CAPACITY	Nm3/hr 0.5						
40	SHELL MATERIAL :	SS				DESIGN CODE / SPEC	AD2000	
41	TUBES MATERIAL :	1.4404 AD-W2 (3.1)						
42	COOLING MEDIUM	WATER	TEMP	°C	36	PRESSURE	Bar(g) 4,5	
43	NOZZLE SIZE (TUBE)	INLET G3/4"	OUTLET		G3/4"	VENT/DRAIN SLEEVE	2x G1/2"	
44	COMPRESSED AIR	Bar(g) 23,3	TEMP	°C	157			
46	NOZZLE SIZE (SHELL)	INLET 3/4" 600RF	OUTLET		3/4" 600RF	VENT/DRAIN SLEEVE	G1/2"	
AFTERCOOLER								
37	EQUIPMENT NO.	KE-020-002	LOCATION :		2nd stage discharge	LIQUID / AIR COOLED	LIQUID	
38	NO. REQD	1	MFR / SUPPLIED BY:		IWS MONJE			
39	CAPACITY	Nm3/hr 0.5						
40	SHELL MATERIAL :	SS				DESIGN CODE / SPEC	AD2000	
41	TUBES MATERIAL :	1.4404 AD-W2 (3.1)						
42	COOLING MEDIUM	WATER	TEMP	°C	36	PRESSURE	Bar(g) 4,5	
43	NOZZLE SIZE (TUBE)	INLET G3/4"	OUTLET		G3/4"	VENT/DRAIN SLEEVE	2x G1/2"	
44	COMPRESSED AIR	Bar(g) 30,0	TEMP	°C	116			
45	NOZZLE SIZE (SHELL)	INLET 3/4" 600RF	OUTLET		3/4" 600RF		G1/2"	
48	NOTES :							
49								
50								

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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			PAINT SYSTEM	1 (COLD)
MAIN IN/OUTLET	1" 300#				
CONNECTIONS	TG 1 1/2" 300#	IT 1 1/2" 300#	PSV 1" 300#	DRAIN	1/2" NPT
COMPRESSED AIR	Bar(g) 9.5	TEMP	°C 46		

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			PAINT SYSTEM	3 (HOT)
MAIN IN/OUTLET	3/4" 600#				
CONNECTIONS	TG 1 1/2" 600#	IT 1 1/2" 600#	PSV 1" 600#	DRAIN	1/2" NPT
COMPRESSED AIR	Bar(g) 23.3	TEMP	°C 157		

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			PAINT SYSTEM	1 (COLD)
MAIN IN/OUTLET	3/4" 600#				
CONNECTIONS	TG N/A	IT 1 1/2" 600#	PSV N/A	DRAIN	1/2" NPT
COMPRESSED AIR	Bar(g) 22.1	TEMP	°C 60		

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			PAINT SYSTEM	1 (HOT)
MAIN IN/OUTLET	3/4" 600#				
CONNECTIONS	TG 1 1/2" 600#	IT 1 1/2" 600#	PSV 1" 600#	DRAIN	1/2" NPT
COMPRESSED AIR	Bar(g) 30.0	TEMP	°C 116		

48 NOTES :

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

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