



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



Inter / After Cooler Data Sheet

Document No. 17735-12

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

REV.	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED
01	03-04-2024	Issued for Approval	S.K.	S.K.	J.J.

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						Document No.		17735-11B		
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						Rev.No		Rev.01		
CONTRACTOR / END USER			 			LIDCO, Pars SEE Zone, Assaluyeh, Integrated Methanol and Ammonia Plant 3000 MTPD MeOH / 900 MTPD NH3 PROJECT				
									Service	
INTER COOLER										
21										
		SHELL SIDE (HUMID AIR)			TUBE SIDE (WATER)			GENERAL		
3	SHELL OPERATING PRESS.	bar(g)	23,3	TUBE OPERATING PRESS.	bar(g)	4,5	MANUFACTURER	IWS Monje		
4	SHELL DESIGN PRESS.	bar(g)	30,5	TUBE DESIGN PRESS.	bar(g)	7	INLET SIZE	3/4" 600# WNRF		
5	SHELL OPERATING TEMP.	°C	157	TUBE OPERATING TEMP.	°C	46	OUTLET SIZE	3/4" 600# WNRF		
6	SHELL DESIGN TEMP.	°C	175	TUBE DESIGN TEMP.	°C	75	WATER INLET	G 3/4"		
7	SHELL DIFF PRESSURE	mbar	1.249	TUBE DIFF PRESSURE	mbar	1,08	WATER OUTLER	G 3/4"		
8	DISCHARGE TEMP.	°C	60	DISCHARGE TEMP.	°C	46	CORROSION ALL.	0 mm		
9	AIR FLOW	Nm3/hr	35	WATER FLOW	m3/hr	0,3	DIM. LxWxH	482,4x300x115		
10	SHELL MATERIAL		SS316	TUBE MATERIAL		SS316	WEIGHT	ca. 15kg		
11							DESIGN CODE	TEMA C, ASME VIII Div. 1		
21										
AFTER COOLER										
22										
		SHELL SIDE (HUMID AIR)			TUBE SIDE (WATER)			GENERAL		
23	SHELL OPERATING PRESS.	bar(g)	30	TUBE OPERATING PRESS.	bar(g)	4,5	MANUFACTURER	IWS Monje		
24	SHELL DESIGN PRESS.	bar(g)	39	TUBE DESIGN PRESS.	bar(g)	7	INLET SIZE	3/4" 600# WNRF		
25	SHELL OPERATING TEMP.	°C	116	TUBE OPERATING TEMP.	°C	46	OUTLET SIZE	3/4" 600# WNRF		
26	SHELL DESIGN TEMP.	°C	135	TUBE DESIGN TEMP.	°C	75	WATER INLET	G 3/4"		
27	DIFF PRESSURE	mbar	0,9397	TUBE DIFF PRESSURE	mbar	0,3826	WATER OUTLER	G 3/4"		
28	DISCHARGE TEMP.	°C	60	DISCHARGE TEMP.		46	CORROSION ALL.	0 mm		
29	AIR FLOW	Nm3/hr	35	WATER FLOW	m3/hr	0,14	DIM. WxHxL	482,4x300x115		
30	SHELL MATERIAL		SS316	TUBE MATERIAL		SS316	WEIGHT	ca. 15kg		
31							DESIGN CODE	TEMA C, ASME VIII Div. 1		
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