



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)**

Code 2  
M.Dalakeh

REV.	DATE	DESCRIPTION	DRAWN	CHECKED	APPROVED
02	12-06-2024	Issued for Approval	S.K.	S.K.	J.J.
01	03-04-2024	Issued for Approval	S.K.	S.K.	J.J.

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VENDOR				Inter		DCO-PO-NEC-278-6019		
CONTRACTOR / END USER		 		In		17735-11B		
				Plan		3		
				PROJECT		Rev.02		
				Service		Instrument air booster compressor		
<b>INTER COOLER</b>								
1	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 OPER			OUTLET S	
6	SHELL DESIGN TEMP.	°C	175	TUBE DESIG			WATER I	
7	SHELL DIFF PRESSURE	mbar	1.249	TUBE DIFF P			WATER O	
8	DISCHARGE TEMP.	°C	60	DISCHARG			CORRO	
9	AIR FLOW	Nm3/hr	35	WATER FLO			DIM. LxV	
10	SHELL MATERIAL		TP316 - SA-312	TUBE MATE		SA-312	WEIGHT	
11							DESIGN	
21	SHELL SIDE (HUMID AIR)		TUBE SIDE (WATER)		GENERAL			
22	SHELL OPERATING PRESS.	bar(g)	30	TUBE OPERATING PRESS.	bar(g)	4,5	MANUFACTURER	IWS Monje
	SHELL DESIGN PRESS.	bar(g)	39	TUBE DESIGN PRESS.	bar(g)	7	INLET SIZE	3/4" 600# WNRF
	SHELL OPERATING TEMP.	°C	116	TUBE OPERATING TEMP.	°C	46	OUTLET SIZE	3/4" 600# WNRF
	SHELL DESIGN TEMP.	°C	135	TUBE DESIGN TEMP.	°C	75	WATER INLET	G 3/4"
	SHELL DIFF PRESSURE	mbar	0,9397	TUBE DIFF PRESSURE	mbar	0,3826	WATER OUTLET	G 3/4"
	DISCHARGE TEMP.	°C	60	DISCHARGE TEMP.	°C	46	CORROSION ALL.	0 mm
	AIR FLOW	Nm3/hr	35	WATER FLOW	m3/hr	0,14	DIM. WxHxL	482.4x300x115
	SHELL MATERIAL		TP316 - SA-312	TUBE MATERIAL		TP316L - SA-312	WEIGHT	ca. 15kg
31							DESIGN CODE	TEMA C, ASME VIII Div. 1
52	NOTES :							
53								
54								
55								

1- For design pressures please write from -1 bar(g) or vacuum to ... bar(g).  
 For design temperature also mention the lower bound.  
 2- All discrepancy with approved drawing to be revised.  
 3- add volume and hydrostatic test pressure of shell and tube side.

-1 to 39 bar(g) as per approved drawing.  
 For design temperature -10/175 C.

-1 to 10 bar(g) as per approved drawing.  
 for design temperature -10/100 C.

please recheck by approved drawing and revise. material seems to be SA-240.

Add operating weight as well.