



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



Inter / After Cooler Data Sheet

Document No. 17735-11B

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

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VENDOR		<b>Inter- after cooler data sheet</b>		P.O. No.	LIDCO-PO-NEC-278-6019		
				Document No.	17735-11B		
				Sheet No.	3		
				Rev.No	Rev.04		
CONTRACTOR / END USER		LIDCO, Pars SEE Zone, Assaluyeh, Integrated Methanol and Ammonia Plant 3000 MTPD MeOH / 900 MTPD NH3 PROJECT		Service	Instrument air booster compressor		
 							
<b>INTER COOLER</b>							
<b>SHELL SIDE (HUMID AIR)</b>			<b>TUBE SIDE (WATER)</b>			<b>GENERAL</b>	
3 SHELL OPERATING PRESS.	bar(g)	<b>23,3</b>	TUBE OPERATING PRESS.	bar(g)	<b>4,5</b>	MANUFACTURER	<b>IWS Monje</b>
4 LINE DESIGN PRESS.	bar(g)	<b>30,5</b>	LINE DESIGN PRESS.	bar(g)	<b>7</b>	INLET SIZE	<b>3/4" 600# WNRF</b>
5 SHELL DESIGN PRESS.	bar(g)	<b>-1 TO 39</b>	TUBE DESIGN PRESS.	bar(g)	<b>-1 TO 10</b>	OUTLET SIZE	<b>3/4" 600# WNRF</b>
6 SHELL OPERATING TEMP.	°C	<b>157</b>	TUBE OPERATING TEMP.	°C	<b>46</b>	WATER INLET	<b>G 3/4"</b>
7 LINE DESIGN TEMP.	°C	<b>175</b>	LINE DESIGN TEMP.	°C	<b>75</b>	WATER OUTLET	<b>G 3/4"</b>
8 SHELL DESIGN TEMP.	°C	<b>-10 TO 175</b>	TUBE DESIGN TEMP.	°C	<b>-10 TO 100</b>	CORROSION ALL.	<b>0 mm</b>
9 SHELL DIFF PRESSURE	mbar	<b>1.249</b>	TUBE DIFF PRESSURE	mbar	<b>1,08</b>	DIM. LxWxH	<b>482,4x300x115</b>
10 DISCHARGE TEMP.	°C	<b>60</b>	DISCHARGE TEMP.	°C	<b>46</b>	WEIGHT	<b>15 kg</b>
11 AIR FLOW	Nm3/hr	<b>35</b>	WATER FLOW	m3/hr	<b>0,3</b>	OPERATING WEIGHT	<b>15,8 kg</b>
12 SHELL MATERIAL		<b>TP316 - SA-312</b>	TUBE MATERIAL		<b>TP316L - SA-312</b>	DESIGN CODE	<b>TEMA C, ASME VIII Div. 1</b>
13 TEST PRESSURE	bar(g)	<b>64,35</b>	TEST PRESSURE	bar(g)	<b>15</b>		
14 VOLUME	L	<b>1,7</b>	VOLUME	L	<b>0,8</b>		
<b>AFTER COOLER</b>							
<b>SHELL SIDE (HUMID AIR)</b>			<b>TUBE SIDE (WATER)</b>			<b>GENERAL</b>	
17 SHELL OPERATING PRESS.	bar(g)	<b>30</b>	TUBE OPERATING PRESS.	bar(g)	<b>4,5</b>	MANUFACTURER	<b>IWS Monje</b>
18 LINE DESIGN PRESS.	bar(g)	<b>39</b>	LINE DESIGN PRESS.	bar(g)	<b>7</b>	INLET SIZE	<b>3/4" 600# WNRF</b>
19 SHELL DESIGN PRESS.	bar(g)	<b>-1 TO 39</b>	TUBE DESIGN PRESS.	bar(g)	<b>-1 TO 10</b>	OUTLET SIZE	<b>3/4" 600# WNRF</b>
20 SHELL OPERATING TEMP.	°C	<b>116</b>	TUBE OPERATING TEMP.	°C	<b>46</b>	WATER INLET	<b>G 3/4"</b>
21 LINE DESIGN TEMP.	°C	<b>135</b>	LINE DESIGN TEMP.	°C	<b>75</b>	WATER OUTLET	<b>G 3/4"</b>
22 SHELL DESIGN TEMP.	°C	<b>-10 TO 175</b>	TUBE DESIGN TEMP.	°C	<b>-10 TO 100</b>	CORROSION ALL.	<b>0 mm</b>
23 DIFF PRESSURE	mbar	<b>0,9397</b>	TUBE DIFF PRESSURE	mbar	<b>0,3826</b>	DIM. WxHxL	<b>482,4x300x115</b>
24 DISCHARGE TEMP.	°C	<b>60</b>	DISCHARGE TEMP.		<b>46</b>	WEIGHT	<b>15 kg</b>
25 AIR FLOW	Nm3/hr	<b>35</b>	WATER FLOW	m3/hr	<b>0,14</b>	OPERATING WEIGHT	<b>15,8 kg</b>
26 SHELL MATERIAL		<b>TP316 - SA-312</b>	TUBE MATERIAL		<b>TP316L - SA-312</b>	DESIGN CODE	<b>TEMA C, ASME VIII Div. 1</b>
27 TEST PRESSURE	bar(g)	<b>64,35</b>	TEST PRESSURE	bar(g)	<b>15</b>		
28 VOLUME	L	<b>1,7</b>	VOLUME	L	<b>0,8</b>		
<b>NOTES :</b>							