










OWNER:  شرکت سست و سویی توهم ایرلیان (سهامی عامه)	BUSHEHR PETROCHEMICAL COMPANY MEG PLANT						EPC CONTRACTOR:  Chagalesh-Enerchimi-Steam Joint Venture BUPC-MEG PLANT PROJECT		
	AFTER COOLER MECHANICAL DATA SHEET FOR NITROGEN GAS BOOSTER						 Netherlands		
MC :   شرکت سست و سویی توهم ایرلیان (سهامی عامه)	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445	
Owner Document Number: 17811-11B	BU	20	VD	303	ME	DSH	0017	Rev.:	Page
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AFTER COOLER MECHANICAL DATA SHEET FOR NITROGEN GAS BOOSTER

01	14/09/2021	For approval			KP	PW	JR	
00	11/12/2020	For approval			KP	PW	JR	
Rev.	Date	Purpose of Issue			Prepared	Checked	Approved	AC Code
							Class: 1	Phase: P

VENDOR		Aftercooler mechanical datasheet		P.O. No.	52-98/445		
				Document No.	17811-11B		
				Sheet No.	3		
				Rev.No	01		
CONTRACTOR / END USER		BUSHEHR PETROCHEMICAL COMPANY MEG PLANT					
  				Service	instrument air compressor 20-C-7080		
AFTER COOLER (20-AEC-7080-1)							
SHELL SIDE (HUMID AIR)		TUBE SIDE (WATER)			GENERAL		
3 SHELL OPERATING PRESS.	bar(a)	21	TUBE OPERATING PRESS.	bar(g)	4,5	MANUFACTURER	Monje
4 SHELL DESIGN PRESS.	bar(g)	25	TUBE DESIGN PRESS.	bar(g)	10	INLET SIZE	2" 300#
5 SHELL OPERATING TEMP.	°C	195	TUBE OPERATING TEMP.	°C	35	OUTLET SIZE	2" 300#
6 SHELL DESIGN TEMP.	°C	210	TUBE DESIGN TEMP.	°C	95	WATER INLET	1 1/2" SAE
7 SHELL DIFF PRESSURE	mbar	0,4195	TUBE DIFF PRESSURE	mbar	11,12	WATER OUTLER	1 1/2" SAE
8 DISCHARGE TEMP.	°C	40	DISCHARGE TEMP.	°C	45	CORROSION ALL.	0
9 AIR FLOW	Nm3/hr	173	WATER FLOW	m3/hr	1,699	DIM. LxWxH	1500 X 140 X 140
10 SHELL MATERIAL		SS316	TUBE MATERIAL		SS316	WEIGHT	TBC
11 DESIGN CODE		TEMA C, ASME VIII	DESIGN CODE		TEMA C, ASME VIII		
12 SHELL ID		133,3	TUBE SHEET TYPE		STRAIGHT TUBES WITH FIXED TUBESHEETS		
13 SHELL OD		139,7	TUBE NO.		72		
14 FLOATING HEAD COVER MAT.		SS316	TOBE OD.	mm	8		
15 GASKET SHELL SIDE TYPE		Viton	TUBE LENGTH	mm	1200		
16 HEAT EXCHANGER TYPE		Shell and Tube/fin	TUBE THICKNESS (AVG)	mm	0,5		
17 SHELL THICKNESS		3,2	TUBE PITCH	mm	11,5		
18 SURF/UNIT (EFF)		11,29	TUBESHEET FLOATING MATERIAL		N/A		
19 SURF/SHELL (EFF)		N/A	TUBESHEET FIXED MATERIAL		SS304		
20							
21							
22							
23	NOTES :						
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