

OWNER:



شرکت سست و سویی توهم ایرانیان
(سهامی عامه)

**BUSHEHR PETROCHEMICAL COMPANY
MEG PLANT**

EPC CONTRACTOR:



Chagalesh-Enerchimi-Steam
Joint Venture
BUPC-MEG PLANT PROJECT

MC :



شرکت سست و سویی توهم ایرانیان
(سهامی عامه)

**MECHANICAL DATA SHEET FOR
NITROGEN GAS BOOSTER**



Owner Document Number: 17811-11A	Project	Area	Phase	Unit	Dis.	Doc.	Seq.	Contract No : 52-98/445	
	Rev.:	Page							
BU	20	VD	303	ME	DSH	0022	00	1 of 3	

**MECHANICAL DATA SHEET FOR NITROGEN GAS
BOOSTER**

00	14/09/2021	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.	17811-11A		
				Sheet No.	3		
				Rev.No	00		
CONTRACTOR / END USER			BUSHEHR PETROCHEMICAL COMPANY MEG PLANT			Service	instrument air compressor 20-C-1002
  							
INTER COOLER (20-AEC-1002-1)							
SHELL SIDE (HUMID AIR)			TUBE SIDE (WATER)			GENERAL	
3 SHELL OPERATING PRESS.	bar(a)	14,5	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	134	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	3,645	TUBE DIFF PRESSURE	mbar	96,66	WATER OUTLER 1 1/2"SAE	
8 DISCHARGE TEMP.	°C	40	DISCHARGE TEMP.	°C	45	CORROSION ALL. 0	
9 AIR FLOW	Nm3/hr	565	WATER FLOW	m3/hr	4,3	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	1500		
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)		27,49	TUBESHEET FLOATING MATERIAL		N/A		
19 SURF/SHELL (EFF)		N/A	TUBESHEET FIXED MATERIAL		SS304		
AFTER COOLER (20-AEC-1002-2)							
SHELL SIDE (HUMID AIR)			TUBE SIDE (WATER)			GENERAL	
3 SHELL OPERATING PRESS.	bar(a)	23,5	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	64	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	3,489	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	565	WATER FLOW	m3/hr	1,399	DIM. LxWxH 800 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	800		
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)		15,7	TUBESHEET FLOATING MATERIAL		N/A		
19 SURF/SHELL (EFF)		N/A	TUBESHEET FIXED MATERIAL		SS304		
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23	NOTES :						
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