

**YOUR LOGO  
HERE!**

Notes

1 Contract	XXXX	Preffered Configuration		Process Data				Mechanical Design Data			
2 Unit	XXXX	Front Head	by cae			Hot Stream	Cold Stream			Hot Stream	Cold Stream
3 Tag Number	XXXX	Shell	by cae	Inlet Temp	° C	117	50	Design Press.	bar (g)	7,7	10
4 Service	XXXX	Rear Head	by cae	Outlet Temp	° C	28	38	Design Vacuum	bar (g)	-	-
5		Hot Stream	by cae	Oper Press.	bar	1,93	6,1	Design Temp.	° C	147	60
6				Heat Duty	kcal	by cae					
7		Design Constraints		Allow. Press Drop	bar	0,102	0,51				
8		Max. ID	by cae	mm	Fouling	m².h.C/kcal	0,0006	0,0004			
9		Max.Length	by cae	mm	Inlet Size	inch	6	6			
10		Max Units	by cae		Mass Flow	kg/h	120000	2198			

		Stream description																							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
		<b>Hot Stream Data</b>																							
<b>Regenarator Overhead</b>																									
Temperature	° C	117,00	112,00	104,00	96,00	88,00	80,00	72,00	64,00	56,00	48,00	40,00													
Pressure	bar (abs)	1,90	1,9	1,9	1,9	1,9	1,9	1,9	1,9	1,9	1,9	1,9													
<b>Liquid Phase:</b>																									
Liquid Density	kg/m³		949,00	955,00	961,00	967,00	972,00	977,00	981,00	985,00	989,00	992,00													
Liquid Specific Heat	kcal/kg.C		1,10	1,09	1,08	1,07	1,06	1,05	1,04	1,02	1,01	1,00													
Liquid Viscosity	cp		0,26	0,28	0,30	0,32	0,35	0,39	0,43	0,49	0,56	0,65													
Liquid Thermal Cond.	kcal/h.m.C		0,59	0,59	0,59	0,59	0,58	0,58	0,57	0,56	0,56	0,55													
Liquid Surface Tension	dyne/cm		56,00	57,30	58,60	60,00	61,30	62,60	63,90	65,20	66,60	67,90													
Liquid Molecular Weight																									
Specific Enthalpy	kcal/kg	165,00	-205,00	-285,00	-313,00	-330,00	-343,00	-354,00	-364,00	-373,00	-381,00	-389,00													
<b>Vapor Phase:</b>																									
Vapor Mass Fraction		1,00	0,31	0,17	0,13	0,12	0,11	0,10	0,10	0,09	0,09	0,09													
Vapor Density	kg/m³	1,12	1,26	1,47	1,64	1,79	1,92	2,03	2,13	2,21	2,29	2,36													
Vapor Specific Heat	kcal/kg.C	1,85	1,66	1,45	1,31	1,22	1,15	1,11	1,08	1,05	1,04	1,03													
Vapor Viscosity	cp	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01	0,01													
Vaport Thermal Cond	kcal/h.m.C	0,03	0,03	0,03	0,03	0,02	0,02	0,02	0,02	0,02	0,02	0,02													
Vapor Molecular Weight		18,80	21,00	24,00	26,50	28,40	29,90	31,10	32,00	32,60	33,10	33,40													

		Stream description																							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
		<b>Cold Stream Data</b>																							
<b>Cooling Water</b>																									
Temperature	° C	28,00	30,00	32,00	34,00	36,00	38,00																		
Pressure	bar (abs)	6,00	6,00	6,00	6,00	6,00	6,00																		
<b>Liquid Phase:</b>																									
Liquid Density	kg/m³	997,75	997,34	996,88	996,37	995,81	995,19																		
Liquid Specific Heat	kcal/kg.C	1,00	1,00	1,00	1,00	1,00	1,00																		
Liquid Viscosity	cp	0,84	0,80	0,77	0,73	0,71	0,68																		
Liquid Thermal Cond.	kcal/h.m.C	0,52	0,52	0,53	0,53	0,53	0,53																		
Liquid Surface Tension	dyne/cm	71,60	71,30	70,90	70,60	70,30	70,00																		
Liquid Molecular Weight		18,01	18,01	18,01	18,01	18,01	18,01																		
Specific Enthalpy	kcal/kg		2,00	4,00	6,00	8,01	10,01																		
<b>Vapor Phase:</b>																									
Vapor Mass Fraction																									
Vapor Density	kg/m³																								
Vapor Specific Heat	kcal/kg.C																								
Vapor Viscosity	cp																								
Vaport Thermal Cond	kcal/h.m.C																								
Vapor Molecular Weight																									

<b>REMARKS</b>	Made by:	Date:	Rev. Letter:	XXXX	XXXX	XXXX
	XXXX	XXXX	Date:	XXXX	XXXX	XXXX
	Checked by:	Date:	PLANT:	XXXX	XXXX	XXXX
	XXXX	XXXX	XXXX	Sheet No. Continued on sheet No.		
Approved by:	Date:	CONSIGNEE:				
XXXX	XXXX					