Heat Exchanger Specification Sheet

	.1		TICAL EXCITA							
_1	Funke Heat Exchangers USA, Inc 10/1/15									
2										
3										
4	Job: 1815									
5	Item: CO2 Cooler									
6	6 Size 16168 in Type BEU Hor Connected in							1 parallel	1 series	
7	Surf/unit(eff.) 526.1 ft² Shells/unit 1 Surf/shell (eff.) 526.1 ft²									
8	PERFORMANCE OF ONE UNIT									
9	Fluid allocation Shell Side Tube Side								Side	
10	Fluid name				C	02		Wa	iter	
11	Fluid quantity, Total		lb/h	1303		320		381557		
12	Vapor (In/Out) lb/h			0 0			0	0		
13	Liquid		lb/h	b/h 130320		130320		381557	381557	
14	Noncondensable	lb/h	0		0		0	0		
15										
16	Temperature (In/Ou	t)	°F	98	3	68		45	55	
17	Dew / Bubble point °F				·					
18			/ 32.951		/	45.282	/ 62.333	/ 62.367		
-	Viscosity		ср	/	/ 0.0544		0.072	/ 1.4483	/ 1.2337	
20	Molecular wt, Vap					<u> </u>				
21	Molecular wt, Vap									
22	Specific heat		BTU/(lb F)	/	1.072	/	0.7977	/ 1.0029	/ 1.0023	
23	Thermal conductivity	1	BTU/(ft h F)		0.036	/	0.046	/ 0.333	/ 0.337	
24	Latent heat		BTU/lb		0.000	· · · · ·	0.010	7 0.000	7 0.007	
25	Pressure (abs)			1232	7	1226.4	12	14.7	7.05	
26	Pressure (abs) psi Velocity ft/s			6.06		12	8.6			
27	5 , , , ,			15 6.28				10	7.65	
-	Pressure drop, allow./calc. psi Fouling resist. (min) ft² h F/BTU			0.001				0.0005	0.0006 Ao based	
29	Heat exchanged	3825457	BTU/h		0.00) I	MTD	corrected	31.14 °F	
30		220.42								
-	Transfer rate, Service 233.54 Dirty 239.43 Clean 388.86 BTÚ/(h ft² F									
31	CONSTRUCTION OF ONE SHELL Sketch								icn	
\vdash	Shell Si Design/vac/test pressure:g psi 1360/ /									
33	Design/vac/test pressure:g psi				150/ /					
34	Design temperature °F		200		200					
	Number passes per shell		1		2					
36	Corrosion allowance in		0.0625		0.0625					
37	Connections	ln in		-	1	8/ -				
38	Size/rating	Out	1 4/	-	1	8/				
	Nominal Intermediate / - / -							2 2075		
	g g									
_										
	Shell Carbon Steel ID 16.124 OD 18 in Shell cover Carbon Steel								el	
1	Channel or bonnet Carbon Steel Channel cover -									
-	Tubesheet-stationary Carbon Steel - Tubesheet-floating -									
-	Floating head cover - Impingement protection None									
-	Baffle-crossing Carbon Steel Type Single segmental Cut(%d) 24.82 H Spacing: c/c 6 in									
	7,12) in	
-	Supports-tube		U-bend	0		Туре				
	Bypass seal Tube-tubesheet joint Exp.									
-	Expansion joint - Type None									
-							lb/(ft s²)			
-	Gaskets - Shell side Flat Metal Jacket Fibe Tube Side Flat Metal Jacket Fibe									
53	Floating head -									
								eral service		
-									lb	
	Remarks Rev.	1 change glycol to	water							
57										
58	***									
									•	