

Heat Exchanger Specification Sheet

1 Prepared By: THE HUFFMAN COMPANY									
2 Company:				Ref No.					
3 Address:				Proposal No.					
4 Plant:				Date:					
5 Service of Unit:				Item No.					
6 Size	-	in	Type	Hor	Connected in		parallel		series
7 Surf/unit(eff.)		ft ²	Shells/unit		Surf/shell (eff.)				ft ²
8 PERFORMANCE OF ONE UNIT									
9 Fluid allocation			Shell Side			Tube Side			
10 FluidName									
11 Fluid quantity, Total			lb/h	*			*		
12 Vapor (In/Out)			lb/h	*	*	*	*		
13 Liquid			lb/h	*	*	*	*		
14 Noncondensable			lb/h						
15									
16 Temperature (In/Out)			°F	*	*	*	*		
17 Dew / Bubble point			°F						
18 Density (Vap / Liq)			lb/ft ³	*	/	*	*	/	*
19 Viscosity			cp	*	/	*	*	/	*
20 Molecular wt, Vap									
21 Molecular wt, NC									
22 Specific heat			BTU/(lb-F)	*	/	*	*	/	*
23 Thermal conductivity			BTU/(ft-h-F)	*	/	*	*	/	*
24 Latent heat			BTU/lb						
25 Pressure (abs)			psia	*				*	
26 Velocity (Mean/Max)			ft/s	/			/		
27 Pressure drop, allow./calc.			psi	*				*	
28 Fouling resistance (min)			ft ² -h-F/BTU	*			* Ao based		
29 Heat exchanged			BTU/h				MTD corrected °F		
30 Transfer rate, Service			Dirty	Clean			BTU/(h-ft ² -F)		
31 CONSTRUCTION OF ONE SHELL									
			Shell Side			Tube Side			Sketch
33 Design/vac/test pressure:g			psi	*	/	*	/		
34 Design temperature			°F	*			*		
35 Number passes per shell									
36 Corrosion allowance			in	*			*		
37 Connections			In in	/			/		
38 Size/rating			Out	/			/		
39 Nominal			Intermediate	/			/		
40 Tube No.			OD	Tks- Min	in	Length	ft	Pitch	in
41 Tubetype			Plain	#/in	Material	Tube pattern			
42 Shell			ID	OD	in	Shell cover			
43 Channel or bonnet						Channel cover			
44 Tubesheet-stationary						Tubesheet-floating			
45 Floating head cover						Impingement protection None			
46 Baffle-cross			Type	Single segme	Cut(%d)	H	Spacing: c/c	in	
47 Baffle-long			-	Seal type				Inlet in	
48 Supportstube			UBend			Type			
49 Bypass seal			Tube-tubesheet joint			Exp. 2 grv			
50 Expansion joint			-	Type	None				
51 RhoV2-Inlet nozzle			Bundle entrance			Bundle exit lb/(ft-s ²)			
52 Gaskets - Shell side			Tube Side						
53 Floating head									
54 Code requirements			ASME Code Sec VIII Div 1			TEMA class			
55 Weight/Shell			Filled with water			Bundle lb			
56 Remarks			* = Information Required						
57			* = Information Required if stream composition is not provided						
58			Please provide materials of construction if other than carbon steel						
59			PLEASE PROVIDE ANY AND ALL INFORMATION AVAILABLE - THE MORE THE BETTER						

Air-Cooled Heat Exchanger Specification Sheet

1	Prepared By:	Job No.	
2	Company:	Ref No.	
3	Address:	Proposal No.	
4	Plant:	Date:	Rev No. 0
5	Service of Unit:		
6	Size & Type	/	ft
7	Surf/Unit-Finned Tube	ft2	Type
8	Heat exchanged	BTU/h	MTD, Eff
9	Transfer rate	Bare, Service	Clean
			F
			BTU/(h*ft2°F)
10	PERFORMANCE DATA - TUBE SIDE		
11	Fluid Circulated		In/Out
12	Total Fluid Entering	lb/h	Density, Liq
13			lb/ft3
14		In/Out	Density, Vap
15	Temperature	F	lb/ft3
16	Liquid	lb/h	Specific Heat, Liq
17	Vapor	lb/h	BTU/(lb°F)
18	Noncondensable	lb/h	Specific Heat, Vap
19	Steam	lb/h	BTU/(lb°F)
20	Water	lb/h	Therm. Cond, Liq
21	Molecular wt, Vap		BTU/(ft*h°F)
22	Molecular wt, NC		Therm. Cond, Vap
23	Viscosity, Liq	cp	BTU/(ft*h°F)
24	Viscosity, Vap		Freeze Point
25			F
26			Bubble / Dew point
27			F
28			Latent heat
29			BTU/lb
30			Inlet pressure (abs)
31			psi
32			Pres Drop, Allow/Calc
33			
34			Fouling resistance
35			ft2*h°F/BTU
36	PERFORMANCE DATA - AIR SIDE		
37	Air Quantity, Total	lb/h	Altitude
38	Air Quantity/Fan	ft3/min	ft
39	Static Pressure	inH2O	Temperature In
40	Face Velocity	ft/s	F
41		Bundle velocity	Temperature Out
42		lb/h/ft2	F
43			Design Ambient
44			F
45	DESIGN-MATERIALS-CONSTRUCTION		
46	Design pressure	psi	Test Pressure
47			Design temperature
48			F
49	TUBE BUNDLE	Header	Tube
50	Size	ft	Type
51	Number/bay		Material
52	Tube Rows		Specifications
53	Arrangement		OD
54	Bundles	par	Min Thk.
55	Bays	par	in
56			Plug Mat.
57			No./Bur
58			Lng
59			ft
60			Pitch
61			/
62			deg
63			Gasket Mat.
64			Pitch
65			/
66			deg
67			Corr. Allow.
68			in
69			Fin
70			Bundle frame
71			Inlet Nozzle
72			in
73			Type
74			Outlet nozzle
75			in
76			Material
77			Struct. Mount.
78			Special Nozzles
79			OD
80			Tks
81			in
82			Surf.Pre
83			Rating
84			No.
85			#/in
86			DesTemp
87			F
88			Louvers
89			TI
90			PI
91			Code
92			Vibration Switches
93			Chem Cleaning
94			Stamp
95			Specs
96	MECHANICAL EQUIPMENT		
97	Fan,Mfr., Model	Driver, Type	Speed Reducer, Type
98	No./Bay	RPM	Mfr.
99			Mfr.&Model
100	Dia.	ft	Blade(s)
101			No./Bay
102			No./Bay
103			Angle
104			RPM
105			Rating
106			Blade(s)
107			Hub
108			Enclosure
109			Ratio
110			Support
111			hp/Fan
112			hp
113			MinAmb
114			V/Phase/Hz
115			Control Action on Air Failure-
116			Louvers
117			Degree Control of Outlet Process Temperature
118			Recirculation
119			Steam Coil
120			Plot Area
121			ft2
122			Drawing No.
123			Wt.Bundle
124			Wt. Unit
125			lb
126			Notes:
127			
128			
129			
130			