

FUEL EFFICIENCY, LLC
HEAT EXCHANGER SPECIFICATIONS

1	CUSTOMER	REFERENCE NO.			
2	ADDRESS				
3	PLANT LOCATION	DATE	REV. NO.	DATE	
4	SERVICE OF UNIT				
5	ITEM NO.				
6	SIZE	TEMA TYPE	BEM	BEU	BES BEP BEW
7	SURFACE PER UNIT	SHELLS PER UNIT	SURFACE PER SHELL		
8	NO. OF UNITS	SHELL ARRANGEMENT	POSITION: HORIZ. VERT.		
9	PERFORMANCE OF ONE UNIT				
10		SHELL SIDE		TUBE SIDE	
11	FLUID CIRCULATED				
12	TOTAL FLUID ENTERING	LB/HR			
13	VAPOR	LB/HR			
14	LIQUID	LB/HR			
15	STEAM	LB/HR			
16	NON-CONDENSABLES	LB/HR			
17	FLUID VAPORIZED OR CONDENSED	LB/HR			
18	TEMP. RANGE (Condensing) (Vaporizing) °F				
19	STEAM CONDENSED	LB/HR			
20	Liquid	S.G. 60°F/60°F	°API@60°F		
21		VISCOSITY	Centipoises		
22		SPECIFIC HEAT	BTU/[LB] [°F]		
23		TH. COND.	BTU/ [HR] [°F] [FT ²] /FT		
24	N.C. GAS OR VAPOR	MOLECULAR WEIGHT	N.C. GAS	VAPOR	N.C. GAS VAPOR
25		VISCOSITY	Centipoises		
26		SPECIFIC HEAT	BTU/[LB] [°F]		
27		TH. COND.	BTU/ [HR] [°F] [FT ²] /FT		
28	LATENT HEAT OF VAPORIZATION	BTU/LB			
29	TEMPERATURE-IN	°F			
30	TEMPERATURE-OUT	°F			
31	OPERATING PRESSURE	PSIA PSIG			
32	NUMBER OF PASSES	PER SHELL			
33	VELOCITY	FT/SEC.			
34	PRESSURE DROP PER UNIT	PSI	MAX.	CALC.	MAX. CALC.
35	FOULING RESIST. [FT ²] [HR] [°F]/BTU				
36	HEAT EXCHANGED - BTU/[HR]	MTD [CORRECTED] - °F			
37	TRANSFER RATE - SERVICE - BTU/ [HR] [FT ²] [°F]	CALC.	h _{io} =	h _{tw} =	h _o =
38	CONSTRUCTION OF EACH SHELL				
39	DESIGN PRESSURE	PSIG			
40	DESIGN TEMPERATURE	°F			
41	TEST PRESSURE	PSIG			
42	TUBES	WELDED SEAMLESS	NO.	O.D.	BWG. ^{aw} / _{mw} LENGTH PITCH
43	TUBE ATTACHMENT:	ROLLED	WELDED	GROOVED AND ROLLED	
44	SHELL	OD	SHELL COVER	FLOATING HEAD	
45	BONNETS	CHANNEL AND COVER			
46	TUBE SHEETS:	STATIONARY		FLOATING	
47	EXPANSION JOINT: YES NO	FLANGE FACING:	NONE	ALLOY	VANSTONE WELDED ALLOY/CS
48	BAFFLES - SEGMENTAL	PITCH	%CUT		FLOW
49	BAFFLES - LONG	TYPE	TUBE SUPPORTS		
50	GASKETS				
51	SHELL CONNECTIONS - IN	OUT	ASA	TYPE	
52	CHANNEL CONNECTIONS - IN	OUT	ASA	TYPE	
53	CORROSION ALLOWANCE - SHELL SIDE	TUBE SIDE		except tubes	
54	IMPINGEMENT PLATE:	YES NO	TYPE		
55	CODE REQUIREMENTS	TEMA CLASS			
56	WEIGHTS - EACH SHELL	BUNDLE	FULL OF WATER		
57	REMARKS: SR = STRESS RELIEVED	XR = X-RAYED			
58					
59					
60					