



AXH air-coolers
air-x-limited

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Proposal / Job No. 95502
Date 11/30/2009
Page 1 OF 1

1	Purchaser	TOROMONT ENERGY SYSTEMS		Ultimate User			
2	Inquiry / PO#	Q190495		Destination	MONTEREY EXPLORATION		
3	# Units	1	Model	156EF-112-22	Reference	5774LT-JGK4	
4	Assembly	PACKAGED	Draft	FORCED	Overall Size (WxL), Ft	Est Wt	24615 LBS
THERMAL & MECHANICAL DESIGN							
5	Service	EJW **	AUX-W **	IC	AC		
6	Flow	422GPM	100GPM	17.9MMSCFD	25.7MMSCFD		
7	Fluid	50%GLY	50%GLY	.69SPGR	.6756SPGR		
8	Temp. In / Out, °F	170.0 / 155.0	145.1 / 120.0	146.0 / 120.0	189.0 / 120.0		
9	Pressure, PSI			455PSIG	950PSIG		
10	Pressure Drop, PSI	4.6	4.6	5.8	6.9		
11	Heat Load, BTU/HR	2915250	1112268	573660	2355379		
12	True LMTD	41.4	24.7	25.9	36.1		
13	Overall Rate, U	165.4	141.2	97.4	108.1		
14	Fouling Factor	.0005	.0005	.0020	.0020		
15	Surface, Tube / Total, Sq Ft	434 / 6903	320 / 5093	231 / 3436	604 / 12917		
16	Sections, #	(1) - COMBINED	(1) - COMBINED	(1)	(1)		
17	Design Temp, °F Max / Min	300 / -20	300 / -20	350 / -49	350 / -49		
18	MWP / Test Press, PSIG	* 14 / 75	* 14 / 75	1287 / 1674	1287 / 1674		
19	Pass Arrangement	CROSSFLOW	CROSSFLOW	CROSSFLOW	CROSSFLOW		
20	# Tube Rows	4	4	4	4		
21	# Tube Passes	1	2	1	3		
22	Tubes, OD x BWG	5/8X16	5/8X16	3/4X16	1X16		
23	Material	SA214 STEEL	SA214 STEEL	SA179 STEEL	SA179 STEEL		
24	# Per Section / Length, Ft	122 / 22	90 / 22	54 / 22	106 / 22		
25	Turbulators						
26	Accelerators						
27	Fins, Type	HI-EFF	HI-EFF	HI-EFF	HI-EFF		
28	Material	AL	AL	AL	AL		
29	Nozzles, Rating / Type	150RF	150RF	600RF	600RF		
30	Material	SA105	SA105	SA350LF2	SA350LF2		
31	#-Inlets / Size In	(1) 6	(1) 3	(1) 6	(1) 6		
32	#-Outlets / Size In	(1) 6	(1) 3	(1) 6	(1) 6		
33	Headers, Type	REC TUBE	REC TUBE	BOX	BOX		
34	Material	A500	A500	SA516-70N	SA516-70N		
35	Corrosion Allow, In			.1250	.1250		
36	Grooved Tubesheet	SGL	SGL	DBL	DBL		
37	Plugs, Type	TAPER	TAPER	SHOULDER	SHOULDER		
38	Plugs Material	STEEL	STEEL	SA350LF2	SA350LF2		
39	PWHT			YES	YES		
40	ASME Code & Nat'l Board			YES	YES		
41	CRN			AB, BC	AB, BC		
42	Add'l Specs & Options						
43	API						
44	Louvers / Hail Screen	MAN /	MAN /	AUTO /	AUTO /		
45	Inspection / NDT			BX, UT	BX, UT		
FX= 100% X-Ray of all header seam, attachment & nozzle butt welds. SX= Spot X-Ray of 1 long seam & 1 end closure, per header BX= 100% X-Ray of all nozzle butt welds. UT = 100% UT of all header seam, attachment & nozzle butt welds. H = Hardness testing.							
AIR-SIDE PERFORMANCE		FAN DATA		DRIVER DATA	STRUCTURAL		
46	Ambient Air Temp, In °F	95	Fan(s)	(1) MOORE-10K-48VT	Type	Guards	FAN
47	Elevation, Ft	2000	Blade Material	ALUMINUM	V-BELT BY OTHERS	DISCHARGE GUARD	
48	Air Flow, SCFM	188,367	HP / Fan	44.9		HARD PANEL BUGSCREEN	
49	Outlet Air Temp, °F	128.5	Dia, In / # Blades	156 / 10			
50	Min Air Temp, °F	-49	RPM	250			
51			Tipspeed, FPM	10210			
52	Est. Noise Data:	85 dBA @1m, 68 dBA @ 15m	Pitch, Deg	14			
53	Additional Info.	*-BUILT TO STANDARD 150# DESIGN BUT DESIGNATED 14# TO AVOID THE NEED FOR PROVINCIAL REGISTRATION					
54		** - WATER SECTIONS RATED FOR 105°F AMBIENT OPERATION					
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