



AXH air-coolers
air-x-limited

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Proposal / Job No. 115435
Date 3/30/2012
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1	Purchaser		ENERFLEX LTD		Ultimate User											
2	Inquiry / PO#		31967		Destination											
3	# Units		1		Model		96AEF-R		Reference		F18GL - JGJ/2					
4	Assembly		PACKAGED		Draft		FORCED		Overall Size (WxL), Ft				Est Wt		11500 LBS	

THERMAL & MECHANICAL DESIGN

5	Service	EJW	AUX-W	IC	AC
6	Flow	124GPM	35GPM	5.03MMSCFD	5.03MMSCFD
7	Fluid	50%GLY	50%GLY	AIR	AIR
8	Temp. In / Out, °F	180.0 / 165.0	156.8 / 130.0	235.0 / 115.7	249.0 / 122.0
9	Pressure, PSI			322PSIG	518PSIG
10	Pressure Drop, PSI	2.1	5.0	4.0	4.0
11	Heat Load, BTU/HR	864800	425735	475155	512019
12	True LMTD	48.5	28.8	39.5	47.6
13	Overall Rate, U	161.7	152.1	57.6	65.0
14	Fouling Factor	.0005	.0005	.0020	.0020
15	Surface, Tube / Total, Sq Ft	112 / 1789	99 / 1574	209 / 4468	166 / 3544
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	645 / 839	1287 / 1674
19	Pass Arrangement	CROSSFLOW	CROSSFLOW	CROSSFLOW	CROSSFLOW
20	# Tube Rows	3	3	4	4
21	# Tube Passes	1	3	3	3
22	Tubes, OD x BWG	5/8X16	5/8X16	1X16	1X16
23	Material	SA214 STEEL	SA214 STEEL	SA214 STEEL	SA214 STEEL
24	# Per Section / Length, Ft	50 / 14	44 / 14	58 / 14	46 / 14
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	300RF	600RF
30	Material	SA105	SA105	SA350LF2	SA350LF2
31	#-Inlets / Size In	(1) 3	(1) 2	(1) 4	(1) 3
32	#-Outlets / Size In	(1) 3	(1) 2	(1) 4	(1) 3
33	Headers, Type	REC TUBE	REC TUBE	BOX	BOX
34	Material	A500	A500	SA516-70N	SA516-70N
35	Corrosion Allow, In			.0625	.0625
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, SK	AB, BC, SK
42	Add'l Specs & Options				
43	API				
44	Louvers / Hail Screen	MAN /	MAN /	MAN /	MAN /
45	Inspection / NDT			SX	SX

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	104	Fan(s) (1) MOORE-10K-30VT	Type	Guards FAN
47	Elevation, Ft	1900	Blade Material ALUMINUM	V-BELT BY OTHERS	DISCHARGE GUARD
48	Air Flow, SCFM	82,740	HP / Fan 21.3		SOFT BUG SCREENS
49	Outlet Air Temp, °F	128.9	Dia, In / # Blades 96 / 6		AUTOMATIC WARM AIR
50	Min Air Temp, °F	-20	RPM 418		RECIRCULATION SYSTEM
51			Tipspeed, FPM 10505		
52	Est. Noise Data:	85 dBA @1m, 64 dBA @ 15m	Pitch, Deg 19		

53 **Additional Info.** *-BUILT TO STANDARD 150# DESIGN BUT DESIGNATED 14# TO AVOID THE NEED FOR PROVINCIAL REGISTRATION

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