



AXH air-coolers
air-x-limited

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Proposal / Job No. 64487
Date 9/11/2006
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1	Purchaser	ENERFLEX 3520B-JGK4 CBM		Ultimate User	
2	Inquiry / PO#			Destination CBM STOCK	
3	# Units	1	Model	168ZF	Reference QUICKSILVER
4	Assembly	PACKAGED	Draft	FORCED	Overall Size (WxL), Ft 15'W x 27'L x 13'H Est Wt 27400 LBS

THERMAL & MECHANICAL DESIGN

5	Service	EJW	AUX-W	IC-1	IC-2	IC-3
6	Flow	450GPM	230GPM	5.73MMSCFD	6.02MMSCFD	6.37MMSCFD
7	Fluid	50%GLY	50%GLY	.5754SPGR	.5754SPGR	.5754SPGR
8	Temp. In / Out, °F	173.0 / 159.3	128.1 / 121.0	267.0 / 119.5	282.0 / 121.5	274.0 / 119.6
9	Pressure, PSI			62PSIG	186PSIG	390PSIG
10	Pressure Drop, PSI	7.9	7.2	1.4	1.1	9.0
11	Heat Load, BTU/HR	2855815	724678	919707	1070258	1110306
12	True LMTD	36.1	16.8	52.7	53.1	51.3
13	Overall Rate, U	170.7	166.5	42.9	52.4	89.2
14	Fouling Factor	.0005	.0005	.0020	.0020	.0020
15	Surface, Tube / Total, Sq Ft	479 / 10261	266 / 5685	408 / 7634	389 / 7698	243 / 3620
16	Sections, #	(1) - COMBINED	(1) - COMBINED	(1)	(1)	(1)
17	Design Temp, °F Max / Min	300 / -20	300 / -20	350 / -20	350 / -20	350 / -20
18	MWP / Test Press, PSIG	* 14 / 75	* 14 / 75	215 / 280	215 / 280	645 / 839
19	Pass Arrangement	CROSSFLOW	CROSSFLOW	CROSSFLOW	CROSSFLOW	CROSSFLOW
20	# Tube Rows	4	3	4	5	4
21	# Tube Passes	2	2 **	2	2	2
22	Tubes, OD x BWG	1X16	1X16	1-1/2X16	1-1/4X16	3/4X16
23	Material	SA214 STEEL	SA214 STEEL	SA214 STEEL	SA214 STEEL	SA214 STEEL
24	# Per Section / Length, Ft	74 / 25	41 / 25	42 / 25	48 / 25	50 / 25
25	Turbulators					
26	Accelerators					
27	Fins, Type	HI-EFF	HI-EFF	HI-EFF	HI-EFF	HI-EFF
28	Material	AL	AL	AL	AL	AL
29	Nozzles, Rating / Type	STUB	STUB	150RF	150RF	300RF
30	Material			SA105	SA105	SA105
31	#-Inlets / Size In	(1) 6	(1) 4	(1) 6	(1) 4	(1) 4
32	#-Outlets / Size In	(1) 6	(1) 4	(1) 6	(1) 4	(1) 4
33	Headers, Type	REC TUBE	REC TUBE	BOX	BOX	BOX
34	Material	A500	A500	SA516-70	SA516-70	SA516-70
35	Corrosion Allow, In			.0625	.0625	.0625
36	Grooved Tubesheet	SGL	SGL	DBL	DBL	DBL
37	Plugs, Type	SHOULDER	SHOULDER	SHOULDER	SHOULDER	SHOULDER
38	Plugs Material	STEEL	STEEL	A105 STEEL	A105 STEEL	A105 STEEL
39	PWHT					
40	ASME Code & Nat'l Board			YES	YES	YES
41	CRN			AB	AB	AB
42	Add'l Specs & Options					
43	API					
44	Louvers / Hail Screen	MAN / INT	MAN / INT	AUTO / INT	AUTO / INT	AUTO / INT
45	Inspection / NDT			SX	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			
47	Elevation, Ft			
48	Air Flow, SCFM			
49	Outlet Air Temp, °F			
50	Min Air Temp, °F			
51				
52				
53				
54				
55				
56				
57				
58				