



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	AC
6	Flow	6.17MMSCFD
7	Fluid	.5754SPGR
8	Temp. In / Out, °F	266.0 / 110.5
9	Pressure, PSI	900PSIG
10	Pressure Drop, PSI	8.6
11	Heat Load, BTU/HR	1139461
12	True LMTD	47.6
13	Overall Rate, U	105.8
14	Fouling Factor	.0020
15	Surface, Tube / Total, Sq Ft	227 / 3606
16	Sections, #	(1)
17	Design Temp, °F Max / Min	350 / -20
18	MWP / Test Press, PSIG	1292 / 1680
19	Pass Arrangement	CROSSFLOW
20	# Tube Rows	3
21	# Tube Passes	2
22	Tubes, OD x BWG	5/8X16
23	Material	SA214 STEEL
24	# Per Section / Length, Ft	56 / 25
25	Turbulators	
26	Accelerators	
27	Fins, Type	HI-EFF
28	Material	AL
29	Nozzles, Rating / Type	600RF
30	Material	SA105
31	#-Inlets / Size In	(1) 3
32	#-Outlets / Size In	(1) 3
33	Headers, Type	BOX
34	Material	SA516-70
35	Corrosion Allow, In	.0625
36	Grooved Tubesheet	DBL
37	Plugs, Type	SHOULDER
38	Plugs Material	A105 STEEL
39	PWHT	
40	ASME Code & Nat'l Board	YES
41	CRN	AB
42	Add'l Specs & Options	
43	API	
44	Louvers / Hail Screen	AUTO / INT
45	Inspection / NDT	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	100	Fan(s) (1) MOORE-10K-60VT	Type		Guards	FAN / DRIVE
47	Elevation, Ft	3058	Blade Material	ALUMINUM			HARD PANEL BUGSCREENS
48	Air Flow, SCFM	220,166	HP / Fan	45.3	1800RPM, 460/60/3, TEFC, VFD		
49	Outlet Air Temp, °F	132.2	Dia, In / # Blades	168 / 10	COMP. MOTOR (CSA)		
50	Min Air Temp, °F	-20	RPM	220			
51			Tipspeed, FPM	9676			
52	Est. Noise Data:	84 dBA @1m, 68 dBA @ 15m	Pitch, Deg	11.5			

Additional Info. *-BUILT TO STANDARD 150# DESIGN BUT DESIGNATED 14# TO AVOID THE NEED FOR PROVINCIAL REGISTRATION
**- MODIFIED AUX-W SECTION TO 2 PASS AND 4" STUBGS FOR PRESSURE DROP CONSIDERATION

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