



AXH air-coolers
Eads-Pendleton

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Job No. / Revision 110541-R3
Date 2/1/2012
Page 1 OF 1

1	Purchaser	AG EQUIP JGC6-2/5000HPE @890RPM		Ultimate User	Caiman Energy	
2	Inquiry / PO#	AG6646-1011-MJ REVISED EQUIPMENT QUOTE		Destination	Unknown	
3	# Units	3	Model	168-2ZF	Reference	
4	Assembly	PACKAGED	Draft	FORCED	Overall Size (WxL), Ft	15W x 50L Est Wt 46,200 LBS
THERMAL & MECHANICAL DESIGN						
5	Service	CLO	IC	AC		
6	Flow	97GPM	48.9MMSCFD	49.0MMSCFD		
7	Fluid	SAE30	.7000SPGR	.7000SPGR		
8	Temp. In / Out, °F	168.1 / 160.0	207.0 / 120.0	245.0 / 120.0		
9	Pressure, PSI	60PSIG	599PSIG	1212PSIG		
10	Pressure Drop, PSI	6.8	9.6	10.0		
11	Heat Load, BTU/HR	174900	5534834	8858673		
12	True LMTD	62.5	38.1	48.1		
13	Overall Rate, U	36.7	100.6	115.2		
14	Fouling Factor	.0010	.0020	.0020		
15	Surface, Tube / Total, Sq Ft	93 / 1744	1484 / 29393	1600 / 34242		
16	Sections, #	(1)	(1)	(1)		
17	Design Temp, °F Max / Min	250 / -20	350 / -20	350 / -20		
18	MWP / Test Press, PSIG	150 / 195	660 / 990	1440 / 2160		
19	Pass Arrangement	CROSSFLOW	CROSSFLOW	CROSSFLOW		
20	# Tube Rows	1	3	3		
21	# Tube Passes	2	2	2		
22	Tubes, OD x BWG	1-1/2X16	1-1/4X16	1X16		
23	Material	SA214 STEEL	SA214 STEEL	SA179 STEEL		
24	# Per Section / Length, Ft	10 / 24	95 / 48	128 / 48		
25	Turbulators	SPIRAL				
26	Accelerators					
27	Fins, Type	HI-EFF	HI-EFF	HI-EFF		
28	Material	AL	AL	AL		
29	Nozzles, Rating / Type	150RF	600RF	900RF		
30	Material	SA105	SA105	SA105		
31	#-Inlets / Size In	(1) 3	(1) 12	(1) 10		
32	#-Outlets / Size In	(1) 3	(1) 12	(1) 10		
33	Headers, Type	BOX	BOX	BOX		
34	Material	SA516-70	SA516-70	SA516-70		
35	Corrosion Allow, In					
36	Grooved Tubesheet	DBL	DBL	DBL		
37	Plugs, Type	SHOULDER	SHOULDER	SHOULDER		
38	Plugs Material	A105	A105	A105		
39	PWHT					
40	ASME Code & Nat'l Board		YES	YES		
41	CRN					
42	Add'l Specs & Options					
43	API					
44	Louvers / Hail Screen		MANUAL	MANUAL		
45	Inspection / NDT		BX			
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)	(2) MOORE-10K HD EC	Type SC	Guards FAN/DRIVE
47	Elevation, Ft	1400	Blade Material	ALUMINUM	V-BELT DRIVE BY (2) 40HP,	
48	Air Flow, SCFM	446,012	HP / Fan	36.4	1800RPM, 460/60/3, TEFC	
49	Outlet Air Temp, °F	128.7	Dia, In / # Blades	168 / 8	MOTOR	
50	Min Air Temp, °F	-20	RPM	217		
51			Tip speed, FPM	9544		
52			Pitch, Deg	7.3°		
53	Additional Info.					
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