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Job No. / Revision 130724
Date 10/29/2013
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1	Purchaser	AG JGC4-2/G3608LE @1000RPM	Ultimate User	MARKWEST
2	Inquiry / PO#	AG 13245-13250	Destination	
3	# Units	16	Model	156-3ZF
4	Assembly	PACKAGED	Draft	FORCED
			Overall Size (WxL), Ft	Est Wt LBS

THERMAL & MECHANICAL DESIGN

5	Service	EJW	AW	IC	AC
6	Flow	261GPM	340GPM	25.0MMSCFD	25.0MMSCFD
7	Fluid	50%GLY	50%GLY	.84SPGR	.84SPGR
8	Temp. In / Out, °F	180.0 / 165.0	138.0 / 120.0	212.0 / 120.0	218.0 / 110.0
9	Pressure, PSI			440PSIG	810PSIG
10	Pressure Drop, PSI	6.7	8.5	4.1	5.8
11	Heat Load, BTU/HR	1820000	2710000	3383531	4485650
12	True LMTD	38.1	19.4	37.8	33.5
13	Overall Rate, U	154.3	161.8	85.8	107.8
14	Fouling Factor	.0005	.0005	.0020	.0020
15	Surface, Tube / Total, Sq Ft	345 / 6460	881 / 18845	1077 / 20141	1287 / 27543
16	Sections, #	(1) - COMBINED	(1) - COMBINED	(1)	(1)
17	Design Temp, °F Max / Min	350 / -20	350 / -20	350 / -20	350 / -20
18	MWP / Test Press, PSIG	150 / 225	150 / 225	845 / 1268	1440 / 2160
19	Pass Arrangement	CROSSFLOW	CROSSFLOW	CROSSFLOW	CROSSFLOW
20	# Tube Rows	3	3	3	3
21	# Tube Passes	2	2	2	2
22	Tubes, OD x BWG	1-1/2X16	1X16	1-1/2X16	1X16 (.062" Min. Wall)
23	Material	SA214 STEEL	SA214 STEEL	SA214 STEEL	SA214 STEEL
24	# Per Section / Length, Ft	17 / 52	65 / 52	53 / 52	95 / 52
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	900RF
30	Material	SA105	SA105	SA105	SA105
31	#-Inlets / Size In	(1) 6	(1) 6	(1) 8	(1) 6
32	#-Outlets / Size In	(1) 6	(1) 6	(1) 8	(1) 6
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	SHOULDER	SHOULDER	SHOULDER	SHOULDER
38	Plugs Material	STEEL	STEEL	A105 STEEL	A105 STEEL
39	PWHT				
40	ASME Code & Nat'l Board			YES	YES
41	CRN				
42	Add'l Specs & Options				
43	API				
44	Louvers / Hail Screen	HAILGUARD	HAILGUARD	LOUVER	LOUVER

Inspection / NDT
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)	(3) MOORE-10K S60 VTHD	Type	Guards	
47	Elevation, Ft	1200	Blade Material	ALUMINUM	BELT DRIVE BY (3) 40HP,		
48	Air Flow, SCFM	471,463	HP / Fan	36	1165RPM, 460/3/60, NEMA		
49	Outlet Air Temp, °F	123.7	Dia, In / # Blades	156 / 6	TEFC MOTORS		
50	Min Air Temp, °F	-20	RPM	154			
51			Tipspeed, FPM	6289			
52	Est. Noise Data:	dBA @1m, dBA @ 15m	Pitch, Deg	26.4			

53 **Additional Info.**
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