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Proposal / Job No. 87753
Date 1/25/2008
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1	Purchaser	CONCEPT COMPRESSION	Ultimate User
2	Inquiry / PO#		Destination 99HP EMD
3	# Units	1	Model 48VI
4	Assembly	PACKAGED	Reference SIMILAR TO 77902 EXCEPT EMD
		Draft INDUCED	Overall Size (WxL), Ft
			Est Wt LBS

THERMAL & MECHANICAL DESIGN

5	Service	CW
6	Flow	20GPM
7	Fluid	50%GLY
8	Temp. In / Out, °F	180.6 / 127.0
9	Pressure, PSI	
10	Pressure Drop, PSI	4.1
11	Heat Load, BTU/HR	487000
12	True LMTD	36.7
13	Overall Rate, U	124.0
14	Fouling Factor	.0005
15	Surface, Tube / Total, Sq Ft	109 / 1735
16	Sections, #	(1)
17	Design Temp, °F Max / Min	300 / -20
18	MWP / Test Press, PSIG	* 14 / 75
19	Pass Arrangement	CROSSFLOW
20	# Tube Rows	3
21	# Tube Passes	9
22	Tubes, OD x BWG	5/8X16
23	Material	SA214 STEEL
24	# Per Section / Length, Ft	116 / 6
25	Turbulators	
26	Accelerators	
27	Fins, Type	HI-EFF
28	Material	AL
29	Nozzles, Rating / Type	CPLG
30	Material	
31	#-Inlets / Size In	(1) 2
32	#-Outlets / Size In	(1) 2
33	Headers, Type	REC TUBE
34	Material	A500
35	Corrosion Allow, In	
36	Grooved Tubesheet	SGL
37	Plugs, Type	TAPER
38	Plugs Material	STEEL
39	PWHT	
40	ASME Code & Nat'l Board	
41	CRN	
42	Add'l Specs & Options	
43	API	
44	Louvers / Hail Screen	/

45	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) (1) MOORE-S16-1K	Type	Guards FAN / DRIVE
47	Elevation, Ft	2500	Blade Material ALUMINUM	DIRECT DRIVE BY (1) 7.5HP,	CORE
48	Air Flow, SCFM	17,825	HP / Fan 5.7	900RPM, 460/60/3, TEFC, VFD	
49	Outlet Air Temp, °F	125.2	Dia, In / # Blades 48 / 4	COMP. MOTOR (CSA)	
50	Min Air Temp, °F	-20	RPM 870		
51			Tipspeed, FPM 10932		
52	Est. Noise Data:	84 dBA @ 1m, 62 dBA @ 15m	Pitch, Deg 35.2		

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