

AMERCOOL Manufacturing Inc.

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AIR COOLED EXCHANGER SPECIFICATION SHEET

Date Wed* 2:20 pm*13-MAR-19

Proposal/Job No. 2003C-203-01

Reference J273552

Item No. EJW

1	Customer	WAUKESHA ENGINE DRESSER		
2	Plant Location	GLACIER RIDGE LF		
3	Service	L5794GSID JW TRIM		
4	Model	1 F10-080-1	Type	FORCED
5	Surface per Unit-Finned Tube	6,767	Fl ²	No. of Bays 1
6	Heat Exchanged	1,794,000	BTU/Hr	Bare Tubes 319.6 Fl ²
7	Transfer Rate-Finned Tube	5.64	Bare Tube, Service	119.35 BTU/Hr. Fl ² °F

PERFORMANCE DATA-TUBE SIDE

9	Fluid Name	50% EG	Lethal Service	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	IN	OUT
10	Total Fluid Entering	Lb/Hr 230,600	Density	Lb/Ft ³	64.1	64.1
11		IN	OUT	Specific Heat (Liq/Vap)	BTU/Lb°F .862 /	.862 /
12	Temperature	°F 180.0	171.0	Cond. (Liq/Vap)	BTU/HrFt°F .239 /	
13	Liquid	Lb/Hr 230,600	230,600	Pour/Freeze Point	°F	
14	Vapor	Lb/Hr (MW)		Bubble Point	°F	
15	Nocond	Lb/Hr (MW)		Latent Heat	BTU/Lb	
16	Steam	Lb/Hr		Pressure	Psia 20.00	
17	Water	Lb/Hr		Pressure Drop Allow/Calc	Psi 10.00 / 1.47	
18	Viscosity (Liq/Vap)	Cp .9180 /	.9800 /	Fouling resist, Inside	ft ² hr °F/BTU 0.00100	

PERFORMANCE DATA-AIR SIDE

20	Air Quantity	SCFM 56,000	Lb/Hr 252,000	Altitude	Ft 1,000
21	Air Quantity/Fan	ACFM 62,160		Temperature In	°F 110.0
22				Temperature Out	°F 139.5

DESIGN - MATERIAL - CONSTRUCTION

25	Design Pressure	100	Psig	Test Pressure	150	Psig	Design Temperature	300 / MDMT 30	°F	
26	TUBE BUNDLE			HEADER, Type PLUG BOX			TUBE Material SA-214 WLD			
27	Size	7.9 x 10.0		Material	SA-516 GR-70					
28	No. 1	No. Tube Rows	3	No. Passes	2	Slope	0.0000	In/Ft	OD 1.000 In	
29	Bays	1	In Parallel	In Series	Plug	A1051818		No./Bundle	122	
30	Bundles	1	In Parallel	In Series	Gasket	CS1813		Pitch	2.3125 InΔ	
31	Pass Arrangement (Top to Bottom)				Corrosion Allowance	0.0625	In	FIN Type	L-TENSION	
32	Rows / Pass	3 / 2		Size In Nozzle (1)	6.00	SCH XS	SA-106B	In	Material	ALUM
33	Turbulators	NO			Size Out Nozzle (1)	6.00	SCH XS	SA-106B	In	OD 2.250 In
34	Steam Coil	NO			Rating & Facing	150 -RF	SA-105	No/In	10	Support Chan. / Staple
35	Hailscreens	YES			Vent (1)	1-3000	Drain (1)	1-3000	Code-ASME VIII, Div 1	YES
36	Louvers	NONE (0)		TI	PI		Radiograph	N	Heat Treat	N
37	Frame Finish	HTC 1 Coat Galvanize			Header Finish	WMSB 1 Coat Metalize		Tube Hole Grooving	YES	

MECHANICAL EQUIPMENT

39	FAN Mfg & Model	Moore or Equal 27 5000 VT Tips			DRIVER Type	SIEMENS		SPEED REDUCER Type	V-BELT	
40	No./Bay	1	RPM	434	S.F.	1.15	Insul/TR	CLASS F / B		
41	Dia.	7.0	Ft.	No. Blades	4	No./Bay	1	Frame	215T	HP 10.0
42	Pitch	ADJUSTABLE		Angle°	10.	RPM (1)	1750	Duty	CHEM	
43	Matl, Blade	ALUMINUM		Hub	CASTALUM		Enclosure	TEFC V & D None		
44	HP/Fan, Des.	6.7	DBA	83.	V/P/C	460/3/60		Space Heater	NO	

STRUCTURE

45	Mounting	GRADE			Inlet Header	in. None		
46	Windload - PSF	30.0	Seismic	None			Outlet/Return	in. None
47	Finish	HTC 1 Coat Galvanize			Drive Access	in. None		

WALKWAYS

NOTES

48	Coil Volume (ft ³):	8.							
49	Assembled Drive, Structure & Bundles (Within Shipping Restrictions)								
50									
51									
52									
53									
54									
55	Plot Area	8.0 x 10.0	ft	Weight Bundle	2,849	Lbs	Total Shipping	6,304	Lbs