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1	Purchaser	ENERFLEX/050442 3516TALE-JGK4	Ultimate User	
2	Inquiry / PO#	PO 0581224	Destination	TRIDENT-FORT ASSINIBOINE, AB
3	# Units	1	Model	144ZF
4	Assembly	PACKAGED	Draft	FORCED
			Overall Size (WxL), Ft	13'W X 26'L X 13'H
			Est Wt	19,100 LBS

THERMAL & MECHANICAL DESIGN

5	Service	EJW	AUX-W	IC-1	IC-2	AC
6	Flow	275GPM	85GPM	7.46MMSCFD	8.08MMSCFD	6.05MMSCFD
7	Fluid	50%GLY	50%GLY	.6362SPGR	.6362SPGR	.618SPGR
8	Temp. In / Out, °F	190.0 / 166.8	146.2 / 130.0	223.0 / 120.0	290.0 / 120.0	183.0 / 120.0
9	Pressure, PSI			299PSIG	705PSIG	1200PSIG
10	Pressure Drop, PSI	5.9	2.5	2.2	5.0	3.1
11	Heat Load, BTU/HR	2978560	614160	901441	1722653	495833
12	True LMTD	51.8	26.9	45.5	60.1	35.1
13	Overall Rate, U	174.5	148.2	68.4	92.7	101.1
14	Fouling Factor	.0005	.0005	.0020	.0020	.0020
15	Surface, Tube / Total, Sq Ft	330 / 7052	162 / 3460	295 / 5848	317 / 4725	143 / 3060
16	Sections, #	(1) - COMBINED	(1) - COMBINED	(1)	(1)	(1)
17	Design Temp, °F Max / Min	300 / -20	300 / -20	350 / -40	350 / -40	350 / -40
18	MWP / Test Press, PSIG	* 14 / 75	* 14 / 75	645 / 968	1292 / 1938	1935 / 2903
19	Pass Arrangement	CROSSFLOW	CROSSFLOW	CROSSFLOW	CROSSFLOW	CROSSFLOW
20	# Tube Rows	3	3	3	3	3
21	# Tube Passes	2	2	2	2	2
22	Tubes, OD x BWG	1X16	1X16	1-1/4X16	3/4X16	1X14
23	Material	SA214 STEEL	SA214 STEEL	SA214 STEEL	SA214 STEEL	SA179 STEEL
24	# Per Section / Length, Ft	53 / 24	26 / 24	38 / 24	68 / 24	23 / 24
25	Turbulators					
26	Accelerators					
27	Fins, Type	HI-EFF	HI-EFF	HI-EFF	HI-EFF	HI-EFF
28	Material	AL	AL	AL	AL	AL
29	Nozzles, Rating / Type	STUB	STUB	300RF	600RF	600RF
30	Material	SA105	SA105	SA350LF2	SA350LF2	SA350LF2
31	#-Inlets / Size In	(1) 4	(1) 2	(1) 4	(1) 4	(1) 3
32	#-Outlets / Size In	(1) 4	(1) 2	(1) 4	(1) 4	(1) 3
33	Headers, Type	REC TUBE	REC TUBE	BOX	BOX	BOX
34	Material	A500	A500	SA516-70	SA516-70	SA516-70
35	Corrosion Allow, In			.0625	.0625	.0625
36	Grooved Tubesheet	SGL	SGL	DBL	DBL	DBL
37	Plugs, Type	TAPER	TAPER	SHOULDER	SHOULDER	SHOULDER
38	Plugs Material	STEEL	STEEL	SA350LF2	SA350LF2	SA350LF2
39	PWHT			YES	YES	YES
40	ASME Code & Nat'l Board			YES	YES	YES
41	CRN			AB	AB	AB
42	Add'l Specs & Options					
43	API					
44	Louvers / Hail Screen	MAN /	MAN /	AUTO /	AUTO /	AUTO /
45	Inspection / NDT			SX	SX	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
47	Elevation, Ft	2500	Blade Material ALUMINUM	V-BELT DRIVE BY (1) 50HP, 1800RPM, 460/60/3, TEFC, VFD COMP. MOTOR(CSA)	DISCHARGE GUARD
48	Air Flow, SCFM	196,132	HP / Fan 43		SOFT BUGSCREEN
49	Outlet Air Temp, °F	131	Dia, In / # Blades 144 / 12		
50	Min Air Temp, °F	-20	RPM 240		
51			Tipspeed, FPM 9047		
52	Noise Data:	84 dBA @ 1m, 67 dBA @ 15m	Pitch, Deg 11.5		

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