



# AIR COOLED EXCHANGERS, INC.

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## COOLER PERFORMANCE SPECIFICATION

<b>CUSTOMER</b>	ENERFLEX	<b>PROPOSAL NUMBER</b>	04183R1.DAT
<b>REFERENCE</b>	CP040648(WAUK 5774LT 1200 RPM 1250 HP}	<b>DATE</b>	8/20/2004
<b>MODEL</b>	A144-172-22	<b>PAGE</b>	1

### PERFORMANCE OF ONE UNIT

SERVICE	EJW	TAW	IC1	IC2	AC
FLOW	451.0GPM	100.0GPM	5.21MMSCFD	6.56MMSCFD	6.56MMSCFD
FLUID	50%GLY	50%GLY	.65	.65	.65
TEMPERATURE IN, F	180.0	156.0	270.0	249.0	263.0
TEMPERATURE OUT, F	165.4	130.0	120.0	120.0	120.0
INLET PRESSURE, PSIG			128.7	399.8	960.0
PRESSURE DROP, PSI	3.5	9.0	3.2	7.0	4.6
DUTY, BTU/HOUR	2915250	1131957	929155	1034066	1238833
CORRECTED MTD	39.6	22.2	51.9	44.7	46.9
BARE TUBE RATE	200.4	205.9	67.9	100.3	100.2
FOULING	0.00050	0.00050	0.00200	0.00200	0.00200
BARE SURFACE, SQ. FT.	367	248	263	231	263
TOTAL SURFACE SQ. FT.	8778	5920	4187	5512	4187

### CONSTRUCTION

NO. SECTIONS	COMBINED	COMBINED	1	1	1
NO. TUBES/SECTION	86	58	74	54	74
LENGTH	22.0	22.0	22.0	22.0	22.0
NO. ROWS	4	4	4	4	4
NO. PASSES	1	3	1	2	2
COUNTERFLOW					
TUBE O.D. AND BWG	.75X16BWG	.75X16BWG	5/8X16BWG	.75X16BWG	5/8X16BWG
TUBE MATERIAL	SA214(WLD)	SA214(WLD)	SA214(WLD)	SA214(WLD)	SA214(WLD)
DESIGN PRESSURE, PSI	14	14	645	645	1292
DESIGN TEMPERATURE, F	350/-20	350/-20	350/-20	350/-20	350/-20
NOZZLES-INLET	6-STUB	3-STUB	6-300RF	4-300RF	3-600RF
NOZZLES-OUTLET	6-STUB	3-STUB	6-300RF	4-300RF	3-600RF
HEADER TYPE	RECT TUBE	RECT TUBE	BOX W/PLUGS	BOX W/PLUGS	BOX W/PLUGS
HEADER MATERIAL	STEEL	STEEL	SA-516-70	SA-516-70	SA-516-70
ASME CODE STAMP			YES	YES	YES
GROOVED TUBE SHEET	YES	YES	YES	YES	YES
CORROSION ALLOWANCE			0.063	0.063	0.063
PLUGS, TYPE	TAPER	TAPER	SHOULDER	SHOULDER	SHOULDER
PLUGS, MATERIAL	STEEL	STEEL	SA-105	SA-105	SA-105
TURBULATORS					
ACCELERATORS					
LOUVERS	MANUAL	W/EJW	AUTO	AUTO	AUTO
STRESS RELIEVE	NO	NO	NO	NO	NO
NDE			BW&SP UT	BW&SP UT	BW&SP UT
ADDITIONAL CODES					
CANADIAN REGISTRATION			AB	AB	AB
ADDITIONAL COUPLINGS			1	1	1
BYPASS NOZZLE					
FINS	HYPERF MARINE	HYPERF MARINE	HYPERF MARINE	HYPERF MARINE	HYPERF MARINE

### AIR DATA

INLET AIR, F	104.0	ELEVATION, FT.	2500
OUTLET AIR, F	137.7	TOTAL SCFM	198236

### MECHANICAL EQUIPMENT

NO FANS	1	HP/FAN	57.7	RPM	265	DIA	144
FAN	MOORE SERIES 60	FAN MATERIAL	ALUM	NUMBER OF BLADES	10	PITCH	13 DEGREES
V-Belt Drive by Others							
DRAFT TYPE	FORCED						
EST SHIPPING WEIGHT	22489	WIDTH	23.0	LENGTH	11.0	HEIGHT	14.7
ACCESSORIES	HAILGUARD. BUGSCREEN. BOXED IDLER.						
FINISH ACE std prep. w/ one coat of ACE std primer and one finish coat of ACE std enamel with customer specified color							