

AIR COOLED EXCHANGERS, LLC

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COOLER PERFORMANCE SPECIFICATION

CUSTOMER	ALCO	PROPOSAL NUMBER	4522DS
REFERENCE	PLANT 1	DATE	4/30/2009
MODEL	E54-8	PAGE	1

PERFORMANCE OF ONE UNIT

SERVICE	A800	A810
FLOW	2299.00#/HR	841.0#/HR
FLUID	1.52	PRODUCT
TEMPERATURE IN, F	113.0	201.7
TEMPERATURE OUT, F	110.0	120.0
INLET PRESSURE, PSIG	201.0	198.5
PRESSURE DROP, PSI	0.3	0.5
DUTY, BTU/HOUR	338295	44000
CORRECTED MTD	15.7	55.6
BARE TUBE RATE	120.0	62.4
FOULING	0.00100	0.00100
BARE SURFACE, SQ. FT.	180	13
TOTAL SURFACE SQ. FT.	2863	202

CONSTRUCTION

NO. SECTIONS	1	1
NO. TUBES/SECTION	142	10
LENGTH	8.0	8.0
NO. ROWS	4	3
NO. PASSES	4	4
COUNTERFLOW	YES	
TUBE O.D. AND BWG	625X16BWG	625X16BWG
TUBE MATERIAL	SA214(WLD)	SA214(WLD)
DESIGN PRESSURE, PSI	300	400
DESIGN TEMPERATURE, F	200/-20	300/-20
NOZZLES-INLET	2-300RF	1-300RF
NOZZLES-OUTLET	2-300RF	1-300RF
HEADER TYPE	BOX W/PLUGS	BOX W/PLUGS
HEADER MATERIAL	SA-516-70	SA-516-70
ASME CODE STAMP	YES W/NB	YES W/NB
GROOVED TUBE SHEET	YES	YES
CORROSION ALLOWANCE	0.063	0.063
PLUGS, TYPE	SHOULDER	SHOULDER
PLUGS, MATERIAL	SA-105	SA-105
TURBULATORS		
ACCELERATORS		
LOUVERS		
STRESS RELIEVE	NO	NO
NDE	BUTT WELDS	BUTT WELDS
ADDITIONAL CODES		
CANADIAN REGISTRATION	AB	AB
ADDITIONAL COUPLINGS		
BYPASS NOZZLE		
FINs	HYPERF L-FOOT	HYPERF L-FOOT

AIR DATA

INLET AIR, F	90.0	ELEVATION, FT.	3000
OUTLET AIR, F	101.2	TOTAL SCFM	31446

MECHANICALEQUIPMENT

NO FANS	1	HP/FAN	12.9	RPM	849	DIA	54
FAN	MOORE SERIES 24	FAN MATERIAL	ALUM	NUMBER OF BLADES	3	PITCH	15 DEGREES
V-Belt Drive By (1) 15 HP 1800 RPM 460/3/60 TEFC ELECTRIC MOTOR							
DRAFT TYPE	FORCED						
EST SHIPPING WEIGHT	4967	WIDTH	5.5	LENGTH	8.9	HEIGHT	7.1
ACCESSORIES	Hailguard Bugscreen. MURPHY(VS-2-EX) XP VIBRATION SWITCH						
FINISH ACE std prep w/ one coat ACE std primer							