



AIR COOLED EXCHANGERS, INC.

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COOLER PERFORMANCE SPECIFICATION

CUSTOMER	GPI	PROPOSAL NUMBER	031143 - Rev. 1
REFERENCE	GEMINI H302	DATE	9/17/2003
MODEL	E42	PAGE	1

PERFORMANCE OF ONE UNIT

SERVICE	AC
FLOW	4.00MMSCFD
FLUID	.807
TEMPERATURE IN, F	165.0
TEMPERATURE OUT, F	120.0
INLET PRESSURE, PSIA	1037.0
PRESSURE DROP, PSI	11.2
DUTY, BTU/HOUR	313692
CORRECTED MTD	31.6
BARE TUBE RATE	114.7
FOULING	0.00200
BARE SURFACE, SQ. FT.	87
TOTAL SURFACE SQ. FT.	1376

CONSTRUCTION

NO. SECTIONS	1
NO. TUBES/SECTION	92
LENGTH	6.0
NO. ROWS	3
NO. PASSES	6
COUNTERFLOW	YES
TUBE O.D. AND BWG	5/8X16BWG
TUBE MATERIAL	SA214(WLD)
DESIGN PRESSURE, PSI	1292
DESIGN TEMPERATURE, F	350
NOZZLES	3-600RF
HEADER TYPE	BOX W/PLUGS
HEADER MATERIAL	SA-516-70
ASME CODE STAMP	YES
GROOVED TUBE SHEET	
CORROSION ALLOWANCE	
PLUGS, TYPE	TAPER
PLUGS, MATERIAL	STEEL
TURBULATORS	
ACCELERATORS	
LOUVERS	NO
STRESS RELIEVE	NO
NDE	
API-661	
VENTS AND DRAINS	
FINN	5005 MARINE GRADE ALUMINUM L-TENSION HIGH PERFORMANCE

AIR DATA

INLET AIR, F	100	ELEVATION, FT.	1520
OUTLET AIR, F	118	TOTAL SCFM	16070

MECHANICAL EQUIPMENT

NO FANS	1	HP/FAN	2.6	RPM	1170	DIA	42
FAN	AEROVENT	FAN MATERIAL	ALUMINUM	NUMBER OF BLADES	6		
DRIVE	DIRECT DRIVE FROM 3 HP 460V/3PH/60HZ TEFC MOTOR						
DRAFT TYPE	FORCED						
EST SHIPPING WEIGHT	3153	WIDTH	4.0	LENGTH	7.0	HEIGHT	6.9
ACCESSORIES							

Hand and machine tool clean with one coat of ACE standard primer and one finish coat of ACE standard enamel tinted to customer specifications