

**Alfa Laval Inc.**

Air Cooled Exchangers  
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**COOLER PERFORMANCE SPECIFICATION IS SHOWN FOR ONE BAY. (1) BAYS REQUIRED**

<b>CUSTOMER</b>	TOROMONT CANADA	<b>PROPOSAL NUMBER</b>	Check_06198R1
<b>REFERENCE</b>	Q160424	<b>DATE</b>	2/20/2020
<b>MODEL</b>	A60M-8	<b>PAGE</b>	1

**PERFORMANCE OF ONE UNIT**

SERVICE	CLOW	AC
FLOW	100.6GPM	2.50MMSCFD
FLUID	50%GLY	.747
TEMPERATURE IN F	145.0	219.7
TEMPERATURE OUT F	130.0	132.0
INLET PRESSURE PSIA		260.80
PRESSURE LOSS PSI	7.01	2.36
DUTY, BTU/HR	659400.0	290817.2
CORRECTED MTD, F	30.9	63.2
OVER-ALL U BTU/(hr*sqft°F)	200.3	73.2
FOULING	0.000500	0.002000
BARE SURFACE FT2	107	63
TOTAL SURFACE FT2	2546	1346

**CONSTRUCTION**

NO. SECTIONS	1	1
NO. TUBES/SECTION	70	31
TUBE LENGTH FEET	8.0	8.0
NO. ROWS	3	3
NO. PASSES	4	3
COUNTERFLOW		
TUBE OD INCH AND BWG	0.75X16BWG	1X16BWG
TUBE MATERIAL	SA214(WLD)	SA214(WLD)
DESIGN PRESSURE	14.00	400.00
DESIGN TEMPERATURE	350/-20	350/-20
NOZZLES-INLET	3-150RF	3-300RF
NOZZLES-OUTLET	3-150RF	3-300RF
HEADER TYPE	RECT TUBE	BOX W/PLUGS
HEADER MATERIAL	STEEL	SA-516-70
ASME CODE STAMP		YES W/NB
GROOVED TUBE SHEET	YES	YES
HEADER CORROSION INCH	0.000	0.063
PLUGS, TYPE	TAPER	SHOULDER
PLUGS, MATERIAL	STEEL	SA-105
TURBULATORS		
ACCELERATORS		
LOUVER CONTROL	MANUAL	(1) JOHNSON 3153-5 W/T12 TC
STRESS RELIEVE	NONE	NO
NDE		BUTT WELDS
ADDITIONAL CODES		
CANADIAN REGISTRATION		AB
ADDITIONAL COUPLINGS		
BYPASS NOZZLE		
FINS	HYPERF L-FOOT	HYPERF L-FOOT

**AIR DATA**

INLET AIR TEMPERATURE	90.0	ELEVATION FEET:	2500
OUTLET AIR TEMPERATURE	119.1	AIR FLOW SCFM:	30096

**MECHANICAL EQUIPMENT**

NO FANS	1	HP PER FAN:	8.0	RPM	662	FAN DIA INCH:	60
FAN	MOORE SERIES 24	FAN MATERIAL	ALUM	NUM BLADES	3	PITCH	15°
	V-Belt Drive By (1) 10 HP 1800 RPM 460/3/60 TEFC ELECTRIC MOTOR						
DRAFT TYPE	FORCED						
WEIGHT LB:	4145	WIDTH FEET:	9.0	LENGTH FEET:	6.1	HEIGHT FEET:	6.4
ACCESSORIES	Hailguard. Bugscreen. Murphy(VS-2-EX) XP Vibration Switch						
FINISH	ACE std prep. w/ one precoat and one finish coat of ACE std enamel Tinted To Special GRAY SLX-1260-01 Color						
SPECNOTES:	Estimated Performance Only						

ACE does not offer metallurgical advisement. Please confirm material suitability for both process and atmospheric conditions.

