Alfa Laval Inc.
Air Cooled Exchangers
1201 S. 9th Street – Broken Arrow, Oklahoma 74012
Phone: 918.251.7477
Email: ACE.sales@alfalaval.com

COOLER PERFORMANCE SPECIFICATION IS SHOWN FOR ONE BAY. (1) BAYS REQUIRED

CUSTOMER	AG Equipment Company	**PROPOSAL NUMBER**	0227819AM_R2
REFERENCE	YPFB Transporte S.A. Skid Mounted Gas Compressor - Carrasco Station - KBK/4 - P939GSI S5	**DATE**	2/27/2020
MODEL	T102-3-32	**PAGE**	1

PERFORMANCE OF ONE UNIT

SERVICE	EJW	AUX+OIL	AC
FLOW	850.0GPM	101.0GPM	52.57MMSCFD
FLUID	50%GLY	50%GLY	.6049
TEMPERATURE IN F	180.0	173.8	221.0
TEMPERATURE OUT F	163.5	130.0	120.0
INLET PRESSURE PSIG			1454.54
PRESSURE LOSS PSI	8.34	5.97	6.73
DUTY, BTU/HR	6217200.0	1926600.0	6988729.1
CORRECTED MTD, F	42.9	34.5	52.6
OVER-ALL U BTU/(hr*sqft*F)	170.2	190.7	112.6
FOULING	0.000500	0.000500	0.002000
BARE SURFACE FT2	852	293	1180
TOTAL SURFACE FT2	16827	7003	25259

CONSTRUCTION

NO. SECTIONS	COMBINED	COMBINED	1
NO. TUBES/SECTION	82	47	142
TUBE LENGTH FEET	32.0	32.0	32.0
NO. ROWS	4	5	4
NO. PASSES	2	2	2
COUNTERFLOW			YES
TUBE OD INCH AND BWG	1.25X16BWG	0.75X16BWG	1X14BWG
TUBE MATERIAL	SA214(WLD)	SA214(WLD)	SA214(WLD)
DESIGN PRESSURE	100.00	100.00	1590.00
DESIGN TEMPERATURE	350/-20	350/-20	350/-20
NOZZLES-INLET	6-150RF	3-150RF	6-900RF
NOZZLES-OUTLET	6-150RF	3-150RF	6-900RF
HEADER TYPE	RECT TUBE	RECT TUBE	BOX W/PLUGS
HEADER MATERIAL	STEEL	STEEL	SA-516-70 NORM
ASME CODE STAMP			YES W/NB
GROOVED TUBE SHEET	YES	YES	YES
HEADER CORROSION INCH	0.000	0.000	0.125
PLUGS, TYPE	TAPER	TAPER	SHOULDER
PLUGS, MATERIAL	STEEL	STEEL	SA-105
TURBULATORS			
ACCELERATORS			
LOUVER CONTROL	MANUAL	W/EJW	(1) DURASTROKE 1000 W/T12 TC
STRESS RELIEVE	NONE	NONE	YES
NDE			
ADDITIONAL CODES			
CANADIAN REGISTRATION			
ADDITIONAL COUPLINGS			
BYPASS NOZZLE			
FINS	HYPERF L-FOOT	HYPERF L-FOOT	HYPERF L-FOOT

AIR DATA

INLET AIR TEMPERATURE	90.0	**ELEVATION FEET:**	1200
OUTLET AIR TEMPERATURE	138.1	**AIR FLOW SCFM:**	289757

MECHANICAL EQUIPMENT

NO FANS	3	**HP PER FAN:**	37.5	**RPM**	524			**FAN DIA INCH:**	102
FAN	MOORE SERIES 36	**FAN MATERIAL**	ALUM	**NUM BLADES**	4	**PITCH**	19°	**TSP, INCH WC:**	1.264
V-Belt Drive By Others									
DRAFT TYPE	FORCED								
WEIGHT LB: 30311		**WIDTH FEET:** 13.0		**LENGTH FEET:** 34.1				**HEIGHT FEET:** 12.6	
ACCESSORIES	Bugscreen. Caged Ladder								
FINISH Hot dip galvanized and metalized structure and headers									
SPECNOTES									

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