

air-x-changers

post office box 1804 • Tulsa, Oklahoma 74101 • area 918/582-9136

JOB

Proposal No. 905166
Date 8-10-90
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Purchaser	ENERFLEX TAG 90073			
Ref. No.	P.O. 605280	Destination	ESL 600HP STOCK	
1	Model	108AEH	Air-x-changer	
PERFORMANCE				
1	Service	EJW	ELOW/TAW	IC AC
2	Flow	244GPM	50GPM	4.68MMSCFD 7.30MMSCFD
3	Fluid	50%GLY	50%GLY	.60SPGR .60SPGR
4	Temperature in, °F	180.0	148.0	188.0 243.0
5	Temperature out, °F	165.0	130.0	110.0 120.0
6	Pressure, PSI			343PSIA 1213PSIA
7	Pressure Drop, PSI	4.3	8.4	1.8 18.2
8	Heat Load, BTU/HR	1700000	401500	410225 1138359
9	True MTD	56.2	34.0	41.2 58.0
10	Overall Rate	167.8	161.8	72.8 116.7
11	Fouling Factor	.0005	.0005	.0020 .0020
12	Tube Surface, Sq. Ft.	183	75	137 168
13	Total Surface, Sq. Ft.	2909	1188	2172 2663
14	Sections, No. of	COMBINED	COMBINED	1 1
15	Connected	SINGLY	SINGLY	SINGLY SINGLY
16	No. Passes	1	2	1 2
17	Design Temp. °F	300/-20	300/-20	300/-20 300/-20
18	Design Press. PSIG	14*	14*	1315 1315
19	Test Press. PSIG	225	225	1973 1973
20	Nozzles	4-STUB	2-STUB	(3)4-60ORF (3)4-60JRF
21	Tubes, OD x BWG	5/8X16	5/8X16	5/8X16 5/8X16
22	Material	SA214 STEEL	SA214 STEEL	SA179 STEEL SA179 STEEL
23	No./Section, Length	71, 16	29, 16	53, 16 65, 16
24	No. Rows	3	3	3 3
25	FLANGES			SA105SCH160 SA105SCH160
26	Fins, Type	WHEEL	WHEEL	WHEEL WHEEL
27	Material	AL	AL	AL AL
28	STRESS RELIEF			YES YES
29	X-RAY/U.T.			100% 100%
30	Headers, Type	BOX	BOX	BOX BOX
31	Material	STEEL	STEEL	STEEL STEEL
32	Counterflow			
33	Corrosion Allowance			.125 .125
34	Grd Tube Sheet			DBL DBL
35	Plugs, Type	TAPER	TAPER	SHOULDER SHOULDER
36	Material	BRASS	BRASS	STEEL STEEL
37	Retarders			
38	Accelerators			.250
39	ASME Code Stamp	&N.B.		YES YES
40	Total SCFM	102241	Temp. In °F. 90 Temp. Out °F. 122.9	Elev. 2500
MECHANICAL EQUIPMENT • STRUCTURES				
41	No. Fans	1 HP/Fan 21.9	RPM 440	Dia. 108 No. Blades 6 Material ALUMINUM Make AEROVENT
42	Drive	V-BELT BY OTHERS		
43				
44	Draft Type	FORCED	No. of Bays	Overall Width Length Height
45	Guards	FAN	Assembly	PACKAGED
46				
47	Est. Shipping Weight	10279 LBS		
48	Accessories			
49		*-BUILT TO STANDARD 150# DESIGN; BUT DESIGNATED 14#		
50		TO ELIMINATE NECESSITY OF PROVINCIAL REGISTRATION		