

Post office box 1804 • Tulsa, Oklahoma 74101 • Phone 918/266-1850 • Fax 918/266-1322

XXXXXXXX	921017
Date	11-30-92
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Purchaser	PRODUCTION OPERATORS INC.		UNIT 955			
Ref. No.	P.O. NO. HO-86720	Destination	7042GL/GSI			
	1	Model	144EH-106-22		Air-x-changer	
PERFORMANCE						
1	Service	EJW	TAW	ELO	IC-1	IC-2
2	Flow	409GPM	53GPM	67GPM	3.94MMSCFD	3.94MMSCFD
3	Fluid	50%GLY	50%GLY	SAE30	.65SPGR	.65SPGR
4	Temperature in, °F	177.9	132.1	185.0	257.0	271.0
5	Temperature out, °F	162.9	117.1	159.6	108.1	109.0
6	Pressure, PSI				151PSIA	408PSIA
7	Pressure Drop, PSI	6.6	24.8	5.6	1.5	1.3
8	Heat Load, BTU/HR	2829000	353625	379500	693192	833480
9	True MTD	42.8	15.3	57.6	41.1	41.8
10	Overall Rate	176.5	170.0	40.7	53.8	60.3
11	Fouling Factor	.0005	.0005	.0010	.0020	.0020
12	Tube Surface, Sq. Ft.	377	135	162	313	330
13	Total Surface, Sq. Ft.	5998	2150	2418	4980	7068
14	Sections, No. of	COMBINED	COMBINED	1	1	1
15	Connected	SINGLY	SINGLY	SINGLY	SINGLY	SINGLY
16	No. Passes	1	3	1	1	2
17	Design Temp. °F	300/ 50	300/ 50	300/ 50	300/ 50	300/ 50
18	Design Press. PSIG	150	150	75	655	1315
19	Test Press. PSIG	225	225	113	983	1973
20	Nozzles	6-150RF	3-150RF	3-150RF	6-300RF	4-600RF
21	Tubes, OD x BWG	5/8X16	5/8X16	3/4X16	5/8X16	1X14
22	Material	SA214 STEEL	SA214 STEEL	SA214 STEEL	SA214 STEEL	SA214 STEEL
23	No./Section, Length	106.22	38.22	38.22	88.22	58.22
24	No. Rows	4	4	5	5	5
25	FLANGES	SA105SCH 40	SA105SCH 40	SA105SCH 40	SA105SCH 80	SA105SCH 80
26	Fins, Type	WHEEL	WHEEL	WHEEL	WHEEL	WHEEL
27	Material	AL	AL	AL	AL	AL
28						
29						
30	Headers, Type	BOX	BOX	BOX	BOX	BOX
31	Material	STEEL	STEEL	STEEL	STEEL	STEEL
32	Counterflow					
33	Corrosion Allowance					
34	Grvd Tube Sheet					
35	Plugs, Type	TAPER	TAPER	SHOULDER	TAPER	SHOULDER
36	Material	BRASS	BRASS	STEEL	STEEL	STEEL
37	Retarders			SPIRAL		
38	Accelerators					.250
39	ASME Code Stamp				YES	YES
40	Total SCFM	Temp. In °F.	Temp. Out °F		Elev.	
MECHANICAL EQUIPMENT • STRUCTURES						
41	No. Fans	HP/Fan	RPM	Dia.	No. Blades	Material
42	Drive					Make
43						
44	Draft Type	No. of Bays	Overall Width	Length	Height	
45	Guards		Assembly			
46						
47	Est. Shipping Weight					
48	Accessories					
49						
50						

air-x-changers

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Purchaser	PRODUCTION OPERATORS INC.	UNIT 955
Ref. No.	P.O. NO. HO-86720	Destination 7042GL/GSI
	1 Model 144EH	Air-x-changer

PERFORMANCE

1	Service	AC
2	Flow	4.35MMSCFD
3	Fluid	.65SPGR
4	Temperature in, °F	189.0
5	Temperature out, °F	104.0
6	Pressure, PSI	523PSIA
7	Pressure Drop, PSI	2.3
8	Heat Load, BTU/HR	482129
9	True MTD	21.8
10	Overall Rate	70.1
11	Fouling Factor	.0020
12	Tube Surface, Sq. Ft.	316
13	Total Surface, Sq. Ft.	4709
14	Sections, No. of	1
15	Connected	SINGLY
16	No. Passes	2
17	Design Temp. °F	300/ 50
18	Design Pres. PSIG	2200
19	Test Pres. PSIG	3300
20	Nozzles	4-1500RTJ
21	Tubes, OD x BWG	3/4X14
22	Material	SA214 STEEL
23	No./Section, Length	74, 22
24	No. Rows	4
25	FLANGES	SA105SCH160
26	Fins, Type	WHEEL
27	Material	AL
28		
29		
30	Headers, Type	BOX
31	Material	STEEL
32	Counterflow	
33	Corrosion Allowance	
34	Grvd Tube Sheet	YES
35	Plugs, Type	SHOULDER
36	Material	STEEL
37	Retarders	
38	Accelerators	
39	ASME Code Stamp	YES

40	Total SCFM	177722	Temp. In °F.	100	Temp. Out °F	128.9	Elev.	1000
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MECHANICAL EQUIPMENT • STRUCTURES

41	No. Fans	1 HP/Fan	53.7 RPM	344	Dia.	144	No. Blades	6	Material	ALUMINUM	Make	AEROVENT
42	Drive	V-BELT BY OTHERS										
44	Draft Type	FORCED	No. of Bays		Overall Width		Length		Height			
45	Guards	FAN			Assembly	PACKAGED						
47	Est. Shipping Weight	23175 LBS										
48	Accessories											
49												
50												