

**Alr-X-Changers****Harsco****PO BOX 1804
TULSA, OK 74101-1804
PHONE: 918-619-8000
FAX: 918-384-5202****Job No. 055572****Initial Release Date 9/27/2005****Page 1 of 1**

1	Purchaser	ENERFLEX	Ultimate User	EFX LEASING
2	Inquiry/PO#		Destination	BC/ALB/SASK
3	No. Units	1	Model:	96AVI
4	Assembly:	PACKAGED	Draft:	INDUCED
			Reference	H24GL(LCR) - JGJ/4 @ 530HP
			Overall Size (WxLxH),	~7.50x13.50x8.83
			Est. Wt., lbs.	11,400

PERFORMANCE

5	Service	EJW	TAW/ELOW	IC-1	IC-2	AC
6	Flow	130GPM	35GPM	3.18MMSCFD	3.18MMSCFD	3.18MMSCFD
7	Fluid	50%GLY	50%GLY	.65SPGR	.65SPGR	.65SPGR
8	Temp. In / Out, f	180.0 / 158.3	168.2 / 130.0	199.0 / 120.0	239.0 / 116.0	258.0 / 120.5
9	Pressure, psia			246.0	492.0	1,120.0
10	Pressure Drop, psi	4.9	6.9	1.7	3.8	1.6
11	Heat Load, btu/hr	1,308,700	597,933	293,738	478,037	582,867
12	True LMTD, f	44.5	34.5	48.2	48.9	59.2
13	Overall Rate, U, btu/hr ft ² f	159.2	149.7	65.8	80.7	85.1
14	Fouling Factor, ft ² hr f / btu	0.0005	0.0005	0.0020	0.0020	0.0020
15	Surface, Bare / Extended, sq.ft.	186 / 2964	116 / 1848	96 / 1530	127 / 1899	116 / 1848
16	Sections, No./Connected	(1) COMBINED w/2	(1) COMBINED w/1	(1) SINGLY	(1) SINGLY	(1) SINGLY
17	Design Temp. (Max / Min), f	300/-20	300/-20	350/-20	350/-20	350/-20
18	Design / Test Press., psig	*14 / 65	*14 / 65	645 / 839	1292 / 1680	1650 / 2145
19	Pass Arrangement	CROSSFLOW	CROSSFLOW	CROSSFLOW	CROSSFLOW	CROSSFLOW
20	No. Tube Rows/Tube Passes	5 / 2	5 / 4	5 / 1	5 / 3	5 / 2
21	Section Weight, lbs	1850		1050	1450	1350
22	Tubes, OD x BWG	5/8X16(.060MIN)	5/8X16(.060MIN)	5/8X14(.075MIN)	3/4X16(.060MIN)	5/8X16(.060MIN)
23	Material	SA214	SA214	SA179 STEEL	SA179 STEEL	SA179 STEEL
24	No. Per Section / Length, ft	93 / 12.5	58 / 12.5	48 / 12.5	53 / 12.5	58 / 12.5
25	Retarders					
26	Accelerators					
27	Fins, Type	L-TENSION / WHEEL	L-TENSION / WHEEL	L-TENSION / WHEEL	L-TENSION / WHEEL	L-TENSION / WHEEL
28	Material	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM
29	Nozzles, Rating/Type	STUB	STUB	300 RF	600 RF	1500 RF
30	Material / Bore	SA106 GR.B / SCH-40	SA106 GR.B / SCH-80	SA105 / SCH-160	SA105 / SCH-160	SA105 / SCH-160
31	(No. Inlets) / Size, in	(1) / 3IN	(1) / 2IN	(1) / 4IN	(1) / 3IN	(1) / 2IN
32	(No. Outlets) / Size, in	(1) / 3IN	(1) / 2IN	(1) / 4IN	(1) / 3IN	(1) / 2IN
33	Headers, Type	RECT. TUBE	RECT. TUBE	BOX W/PLUGS	BOX W/PLUGS	BOX W/PLUGS
34	Material	SA500 GR.B	SA500 GR.B	SA516 70	SA516 70	SA516 70
35	Corrosion Allow., in			0.1250	0.1250	0.1250
36	Grooved Tubesheet			YES	YES	DOUBLE
37	Plugs, Type	TAPER	TAPER	SHOULDER	SHOULDER	SHOULDER
38	Plugs Material	B-16 BRASS	B-16 BRASS	SA105	SA105	SA105
39	Industry Specifications	AXC-STD	AXC-STD	AXC-STD	AXC-STD	AXC-STD
40	ASME Code Stamp / N.B.			YES	YES	YES
41	Canadian Registration #			YES	YES	YES
42	PWHT			YES	YES	YES
43	NACE					

Inspection/NDT**UB UB UB**

F= 100% R.T. of all header seam & nozzle butt welds PLUS 100% U.T. of all attachment welds. S= Spot R.T. of 1 long seam & 1 end closure, per header
U = 100% UT of all header seam, nozzle and coupling attachment & nozzle butt welds. B= 100% R.T. of all nozzle butt welds.
SB= S PLUS B as each are described above. UB= U PLUS B as each are described above.

AIR-SIDE PERFORMANCE		FAN DATA		DRIVER DATA		REDUCER DATA	
45	Ambient Air Temp., In, f	90	No. Fans / Make / MOORE-CL10K	Type	ENGINE DRIVE	Type	REDUCER BY OTHERS
46	Elevation, ft	3000	Blade Material	ALUMINUM			
47	Air Flow, SCFM	65,237	HP@RPM	25.67 @ 400			
48	Air Temp., Out, f	135.6	Dia., in / No. Blades	96 / 8			
49	Min. Ambient, f	-20	Blade Angle, Deg	10.4 @ Clevis			
50			Series/Blade Adj.	48-HDVT/Manual			
51			Fan Hub Bushing	TAPER			

* Actually built to standard 50# design. Designated 14# to eliminate necessity of Provincial registration.

Fan noise 84 dBA @ 1 meter, 65 dBA @ 15 m.

REV	DATE	BY	DESCRIPTION
1	9/30/2005	SB	Changed SCH Bore on IC-1 and IC-2 from 80 to 160.