



①	EJW D.P. 14 P.S.I. @ 300/-20 F. NOZZLES 6-150RF	③	IC-1 D.P. 645 P.S.I. @ 350/-20 F. NOZZLES 6-300RF	⑤	AC D.P. 1292 P.S.I. @ 350/-20 F. NOZZLES 4-600RF
②	AUX-W D.P. 14 P.S.I. @ 300/-20 F. NOZZLES 2-150RF	④	IC-2 D.P. 645 P.S.I. @ 350/-20 F. NOZZLES 6-300RF	⑦	HAL GUARD CAGED LADDER SHIPS LOOSE

⑧	MANUAL SHUTTER OPERATOR EJW W/ GROUND LEVEL OPERATOR
⑨	MANUAL SHUTTER OPERATOR AUX-W W/ GROUND LEVEL OPERATOR
⑩	MANUAL SHUTTER OPERATOR IC-1 W/ GROUND LEVEL OPERATOR
⑪	MANUAL SHUTTER OPERATOR IC-2 W/ GROUND LEVEL OPERATOR
⑫	MANUAL SHUTTER OPERATOR AC W/ GROUND LEVEL OPERATOR

⑬	AUTO SHUTTER OPERATOR EJW W/ GROUND LEVEL OPERATOR
⑭	AUTO SHUTTER OPERATOR AUX-W W/ GROUND LEVEL OPERATOR
⑮	AUTO SHUTTER OPERATOR IC-1 W/ GROUND LEVEL OPERATOR
⑯	AUTO SHUTTER OPERATOR IC-2 W/ GROUND LEVEL OPERATOR
⑰	AUTO SHUTTER OPERATOR AC W/ GROUND LEVEL OPERATOR

REV.	DESCRIPTION	BY	DATE	APP'D	DATE
1	ADDED NOTE FOR PAINT	JVH	112105	IM	112105

COMBINED		JOB STATUS:		CUSTOMER: UNIVERSAL COMPRESSION INC	
RELEASED		RELEASED		TAG: W053161/W053162	
FABRICATION OF THIS ORDER HAS BEGUN		FABRICATION OF THIS ORDER HAS BEGUN		P.O. NO.: EC1389009/EC1389011	
NOTE: THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION AND IT SHALL NOT BE USED OR REPRODUCED OR CONTENTS DISCLOSED IN WHOLE OR IN PART WITHOUT PRIOR WRITTEN CONSENT FROM AIR-X-CHANGERS.		MODEL 156EH		DATE: 10/26/05	
DRAWN BY: AICS		DATE: 10/26/05		REV. 1	
CHECKED BY: DB		SCALE: 1:1		1	
DRAWING NO.: CRT		SCALE: 1:1		1	



NOTE:
1. ESTIMATED DRY WEIGHT: 26,900#
2. PAINT: H-I-S 91G35 UNIVERSAL COMPRESSION LIGHT GREY



Alr-X-Changers

Harsco

PO BOX 1804
TULSA, OK 74101-1804
PHONE: 918-619-8000
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Job No. 052270

Initial Release Date 12/27/2005

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Purchaser UNIVERSAL COMPRESSION INC		Ultimate User	
Inquiry/PO# C05594A0		Destination	
No. Units 2	Model: 156EH-118-24	Reference WAUK 7044GSI@1200RPM	
Assembly: PACKAGED	Draft: FORCED	Overall Size (WxLxH), ~9.92x25.00x15.08	Est. Wt., lbs. 25,800

PERFORMANCE

Service	EJW	AUX-W	IC-1	IC-2	AC
Flow	450GPM	80GPM	8.15MMSCFD	8.98MMSCFD	8.98MMSCFD
Fluid	50%GLY	50%GLY	.65SPGR	.65SPGR	.65SPGR
Temp. In / Out, f	180.0 / 159.5	157.8 / 130.0	228.0 / 130.0	264.0 / 130.0	282.0 / 120.0
Pressure, psia			174.3	438.3	1,031.3
Pressure Drop, psi	4.1	7.8	3.4	3.5	7.4
Heat Load, btu/hr	4,284,500	994,001	936,938	1,474,639	1,921,546
True LMTD, f	43.3	27.9	47.5	57.6	50.8
Overall Rate, U, btu/hr ft ² f	158.2	150.6	68.2	83.9	98.0
Fouling Factor, ft ² hr f / btu	0.0005	0.0005	0.0020	0.0020	0.0020
Surface, Bare / Extended, sq.ft.	630 / 10010	241 / 3831	294 / 4377	311 / 6653	401 / 5976
Sections, No./Connected	(1) COMBINED w/2	(1) COMBINED w/1	(1) SINGLY	(1) SINGLY	(1) SINGLY
Design Temp. (Max / Min), f	300/-20	300/-20	350/-20	350/-20	350/-20
Design / Test Press., psig	*14 / 65	*14 / 65	645 / 839	645 / 839	1292 / 1680
Pass Arrangement	CROSSFLOW	CROSSFLOW	CROSSFLOW	CROSSFLOW	CROSSFLOW
No. Tube Rows/Tube Passes	4 / 1	4 / 2	5 / 1	4 / 2	4 / 3
Section Weight, lbs	4925		2450	2675	2800
Tubes, OD x BWG	5/8X16(.060MIN)	5/8X16(.060MIN)	3/4X16(.060MIN)	1X16(.060MIN)	3/4X16(.060MIN)
Material	SA214	SA214	SA214	SA214	SA214
No. Per Section / Length, ft	162 / 24	62 / 24	63 / 24	50 / 24	86 / 24
Retarders					
Accelerators					
Fins, Type	L-TENSION / WHEEL	L-TENSION / WHEEL	L-TENSION / WHEEL	L-TENSION / WHEEL	L-TENSION / WHEEL
Material	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM	ALUMINUM
Nozzles, Rating/Type	150 RF	150 RF	300 RF	300 RF	600 RF
Material / Bore	SA105 / SCH-40	SA105 / SCH-80	SA105 / SCH-80	SA105 / SCH-80	SA105 / SCH-80
(No. Inlets) / Size, in	(1) / 6IN	(1) / 2IN	(1) / 6IN	(1) / 6IN	(1) / 4IN
(No. Outlets) / Size, in	(1) / 6IN	(1) / 2IN	(1) / 6IN	(1) / 6IN	(1) / 4IN
Headers, Type	RECT. TUBE	RECT. TUBE	BOX W/PLUGS	BOX W/PLUGS	BOX W/PLUGS
Material	SA500 GR.B	SA500 GR.B	SA516 70	SA516 70	SA516 70
Corrosion Allow., in			0.0625	0.0625	0.0625
Grooved Tubesheet			YES	YES	YES
Plugs, Type	SHOULDER	SHOULDER	SHOULDER	SHOULDER	SHOULDER
Plugs Material	SA105	SA105	SA105	SA105	SA105
Industry Specifications	AXC-STD	AXC-STD	AXC-STD	AXC-STD	AXC-STD
ASME Code Stamp / N.B.			YES	YES	YES
Canadian Registration #			YES	YES	YES
PWHT					
NACE					
Inspection/NDT			S	S	S

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	
Ambient Air Temp., In, f	100	No. Fans / Make / MOORE-CL10K	Type	ENGINE DRIVE	Type	REDUCER BY OTHERS	
Elevation, ft	6000	Blade Material	ALUMINUM				
Air Flow, SCFM	206,395	HP @RPM	75.45 @ 240				
Air Temp., Out, f	142.4	Dia., in / No. Blades	156 / 12				
Min. Ambient, f	-20	Blade Angle, Deg	24.8 @ Clevis				
		Series/Blade Adj.	72-HDVT/Manual				
		Fan Hub Bushing	TAPER				

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