

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
(ALTERNATIVE FORM FOR SINGLE CHAMBER, COMPLETELY SHOP OR FIELD FABRICATED VESSELS ONLY)
AS REQUIRED BY THE PROVISIONS OF THE ASME CODE RULES, SECTION VIII, DIVISION 1

If removable, bolts used (describe other fastenings)

Proof Test	NONE
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10. Nozzles, inspection, and safety valve openings:

11. Supports:	Skirts	NO	LUGS	N/A	LEGS	N/A	OTHER	STRUCTURE	Attached:	BOLTED
		(Yes or no)		(No.)		(No.)		(Describe)		(Where and How)

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:

(Name of part, item number, Mfr's. name, and identifying stamp)

*2 HEADERS, ONE AT EACH END. **WRAPPERS FLAT DIA. 3 3/4" X 3'-2 7/8". ***ENDS FLAT DIA. 3 3/4" X 7 3/4" ENERFLEX TAG# (A) 31833, (B) 31834

58 TUBES SA-179-STL 1" O.D. .065 MW 14'-0" LG. RADIOGRAPH PER CUSTOMERS SPECIFICATIONS. IC HEADER VOL: 1093 CU. IN.

IMPACTS EXEMPT PER UG-UCS(a) CURVE D & UCS 68. PRESSURE RELIEF DEVICE BY OTHERS. CONSTRUCTED IN ACCORDANCE WITH APPENDIX 28.

CERTIFICATE OF SHOP / FIELD COMPLIANCE			
We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME BOILER AND PRESSURE VESSEL CODE, Section V111, Division 1, "U" Certificate of Authorization No. 34,950			
expires <u>02/07/2011</u>			
Date: <u>8-10-10</u>	Co. name: <u>AXH air-coolers, LLC.</u>	Signed <u>Micah D. Yarnell</u>	
	(Manufacturer)	(Representative)	
CERTIFICATE OF SHOP / FIELD INSPECTION			
Vessel constructed by <u>AXH air-coolers, LLC.</u> at <u>401 E. LOWRY ROAD - CLAREMORE, OKLAHOMA 74017</u>			
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of <u>OKLAHOMA</u> and employed by <u>SENECA INSURANCE COMPANY OF TEXAS</u>			
have inspected the component described in this Manufacturer's Data Report on <u>8-9-10</u> and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.			
Date: <u>8-10-10</u>	Signed: <u>[Signature]</u>	Commissions <u>NB-4607-0189</u>	
	(Authorized Inspector)	(Nett Board (incl. endorsements), State, Prov. and No.)	

31834

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
 (ALTERNATIVE FORM FOR SINGLE CHAMBER, COMPLETELY SHOP OR FIELD FABRICATED VESSELS ONLY)
 AS REQUIRED BY THE PROVISIONS OF THE ASME CODE RULES, SECTION VIII, DIVISION 1

1. Manufactured and certified by: AXH air-coolers, LLC - 401 EAST LOWRY ROAD - CLAREMORE, OKLAHOMA 74017
 (Name and address of manufacturer)

2. Manufactured for: ENERFLEX (BARLOW) - 10121 BARLOW TRAIL NORTHEAST - CALGARY, ALBERTA, CANADA T3J 3C6

3. Location of installation: UNKNOWN **(A) 601702**
 (Name and address)

4. Type HORZ. H. EXCHANGER 105370A-B.4 VI691.213 105370 AC R0 & 105370-CRH2-R0 15373 - 15374 2010
 (Horiz. Or vert., tank) (Mfr's serial No.) (CRN) (Drawing No.) (Nat'l Bd. No.) (Year built)

5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL
 CODE. The design, construction and workmanship conform to ASME Rules, Section VIII, Division 1. 2007 EDITION
 Year

to: 2009b ADDENDA Code Case Nos. Special Service per UG-120 (d)
 Addenda (Date)

6. Shell: TUBE/PLUG: SA 516-70N FR & BK 2" .0625 FR & BK 0' 9 1/4" 2'-3 5/8"
 Mat'l (Spec. No., Grade) (Nom. Thk. (in.)) (Corr. Allow. (in.)) (Inner diameter) (Length (overall))

7. Seams: CORNER JOINT SEE REMARKS 1.0 1150" 1 - - 2
 (Long. welded, dbl. R.T. (Spot or Full) Eff. (%) H.T. Temp. (F) Time (hr.) Girth (Welded, Dbl. R.T. (Spot, Partial, Eff. (%) No. of
 Sngl., Lap, Butt) of Full) Courses

8. Heads: (a) Material WRAPPERS: SA-516 70N (b) Material ENDS: SA-516 70N
 (Spec. No., Grade) (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
a	WRAPPERS	3/4"	.0625	-	-	-	-	-	-	FLAT
b	ENDS	5/8"	.0625	-	-	-	-	-	-	FLAT

If removable, bolts used (describe other fastenings)

9. MAWP 1287 psi. N/A at max. temp. 350 °F N/A
 (Internal) (External) (Internal) (External)

Min. design metal temp. -49 °F at 1287 psi. Hydro., pneu., Or comb. test pressure 1674 psi.

Proof Test NONE

10. Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Material	Nom. Thk.	Reinforcement Material	How Attached	Location (Header)
INLET/OUTLET	2	3"-600#	PIPE / RFWN	SA-333-GR6/SA-350-LF2	S160	NONE	UW-16(a)	HEADER
INSTRUMENT	1	1"	CPLG	SA-350-LF2	6000#	NONE	UW-16(a)	HEADER
PLUGS	92	1 1/8"-12	UNF	SA-350-LF2	-	-	-	HEADER

11. Supports: Skirts NO LUGS N/A LEGS N/A OTHER STRUCTURE Attached: BOLTED
 (Yes or no) (No.) (No.) (Describe) (Where and How)

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:

(Name of part, item number, Mfr's name, and identifying stamp)

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CERTIFICATE OF SHOP / FIELD COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. "U" Certificate of Authorization No. 34,950
 expires 02/07/2011

Date: 8-10-10 Co. name: AXH air-coolers, LLC. Signed Micah D. Vannell
 (Manufacturer) (Representative)

CERTIFICATE OF SHOP / FIELD INSPECTION

Vessel constructed by AXH air-coolers, LLC. at 401 E. LOWRY ROAD - CLAREMORE, OKLAHOMA 74017

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of OKLAHOMA and employed by SENECA INSURANCE COMPANY OF TEXAS

have inspected the component described in this Manufacturer's Data Report on 8-9-10 and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

Date: 8-10-10 Signed: [Signature] Commissions NR124617 06/09/05
 (Authorized Inspector) (Not Board (incl. endorsements), State, Prov. and No.)