

66128943

**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 Air Cooled Exchangers, Inc. 1201 South 9th Broken Arrow, Oklahoma 74012  
 (Name and address of manufacturer)

2. Manufactured for TOROMONT ENERGY SYSTEMS, INC. 10121 Barlow Trail CALGARY, ALBERTA CANADA T3J 3C6  
 (Name and address of purchaser)

3. Location of installation Unknown  
 (Name and address)

4. Type Horiz. 0614002-2 T7534.2 06140-H2 4116 2006  
 (Horiz. or vert., tank) (Mfg'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 2004  
 Year

to A2005 None None  
 Addenda (Date) Code Case Nos. Special Service per UG-120(d)

6. Tube & Plug: SA-516-GR-70 NORM 0.750 0.063 5.625 IN. 110 IN.  
 Mat'l. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: Single Bevel N.A. N.A. N.A. N.A. N.A. N.A. N.A. N.A.  
 Long. RT (Spot or Full) Eff. (%) H.T. Temp. (°F) Time (hr) Girth (Welded, Dbl. Sngl. Lap, Butt) R.T. (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Mat'l. SA-516-GR-70 NORM (b) Mat'l. SA-516-GR-70 NORM  
 (Spec. No., Grade) (Spec. No., Grade)

	Location Top, Bottom, End	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure
(a)	Top/Bottom	0.5 IN.	0.0625 IN.	N.A.	N.A.	N.A.	N.A.	N.A.	4 IN.	N.A.
(b)	Ends	0.5 IN.	0.0625 IN.	N.A.	N.A.	N.A.	N.A.	N.A.	4 IN.	N.A.

If removable, bolts used (describe other fastenings)

(Mat'l., Spec. No., Gr., Size, No.)

9. MAWP 300 psi at max. temp. 300 °F  
 Min. design metal temp. -20 °F at 300 psi at max temp psi Hydro test pressure 390 psi.

10. Nozzles, inspection and safety valve openings: Safety Relief Valves to be provided elsewhere by others

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Mat'l.	Nom. Thk.	Reinforce Mat'l.	How Attached	Location
In/Outlet	2	3 in.	Pipe	SA-106-GR B	0.3 in.	Mat&Weld	UW16.1(a)	
	2	3 in.	RFWN	SA-105	300RF	Mat&Weld	Welded	

11. Supports: Skirt NO Lugs 2 Legs 0 Other N.A. Attached Tubesheet/Welded  
 (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: Constructed in conformance w/ Appendix 28, IMPACT EXEMPT PER UG-20(F)(1)(b) Vessel volume 10 CuFt  
 (Name of part, item number, Mfg's name and identifying stamp)

Tubes: (290) SA214(WLD) X 0.625" OD X 0.06" MW X 16ft long Straight TypePlugs: (580) SA-105 SHOULDER

100% RT NOZZLE BUTT WELDS Per Customer request

**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 Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. 7616 expires 8/30/2008  
 Date 8-4-06 Co. name Air Cooled Exchangers, Inc. Signed Andrea Jean Bulley  
 (Manufacturer) (Representative)

**CERTIFICATE OF SHOP/FIELD INSPECTION**

Vessel constructed by Air Cooled Exchangers, Inc. at 1201 S. 9th St Broken Arrow, Oklahoma 74012  
 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 OneBeacon America Insurance Co. Boston, Mass.  
 have inspected the component described in this Manufacturer's Data Report on 8-8-06 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 8-8-06 Signed A. G. Stett Commission NB-8432-A of 266  
 (Authorized Inspector) (Nat'l. Board (incl. endorsements), State, and No.)

SERVICE: AC100