

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS
 (Alternative Form For Single Chamber, Completely Shop-Fabricated Vessels Only)
 As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by: Air-X-Changers, A Harsco Company 5215 Arkansas Road, Port of Catoosa, OK 74015
 (Name and address of manufacturer)

2. Manufactured for: Valerus, 12200 West Little York, Houston, TX 77041
 (Name and address of purchaser)

3. Location of installation: Unknown, Unknown
 (Name and address)

4. Type: Heat Exchanger 050874.1 ---- HDR-1 REV-0 49364 2005
 (Horz/vert tank) (Mfg. Serial No.) (CRN) (Drawing No.) (Nat'l Board 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 ----- --- NONE
 Addenda (Date) Code Case No. Special Service per UG-120(d)

6. Shell: SA106 GRC 1" 0" 8.5" 1' - 4.375"
 Matl. (Spec No./Grade) Nom. Thk. (in.) Corr. Allow (in.) Diameter ID (Ft/In) Length (Overall) (Ft/In)

7. Seams: Corner Joint ----- C=.20 1120 1 Hr ----- -----
 Long (wid, Dbl, Sgl, Lap, Butt) R. T. (spot/full) Eff (%) H.T. Temp °F Time (hr) Girth (wid, Dbl, Sgl, Lap, Butt) R. T. (spot, part, /full) No. of course

8. Heads: (a) Matl. SA516 70 1 Hr @ 1120 °F (b) Matl. -----
 (Spec No. Grade) (Spec No. Grade)

	Location (Top, bot, ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diam	Side to Pressure Convex or Concave
a	ENDS	0.5"	0"	--	--	--	--	--	6.5"	X 6.5"
b		--	--	--	--	--	--	--	--	--

If removable bolts used (describe other fastening) -----

(Matl., Spec. No., Gr., Size, No.)

9. MAWP 500 psi at max. temp. 350 °F
 Min. design metal temp. -10 Degrees F at 500 psi. **hydro.**, pneu., or comb. test pressure 650 psi.

10. Nozzle, inspection and safety valve openings:

Purpose (Inlet, outlet, drain)	No.	Dia. or Size	Type	Material	Nominal Thickness	Reinforce Material	How Attached	Location
IN, OUT	1	4"	300# RFWN	SA105/SA106 GRB	SCH80	Weld	Welded	HEADER
IN, OUT	1	2"	300# RFWN	SA105/SA106 GRB	SCH160	Weld	Welded	HEADER
VENT/DRAIN	1	1"	CPLG.	SA105	6000#	Weld	Welded	HEADER

11. Supports: Skirt ----- Lugs ----- Legs ----- Other Structure Attached Bolted
 (yes/no) (No.) (No.) (Description) (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, Mfg's name and identifying stamp)

Tubes: 38 0.6250" OD, Straight 60" Length 16BWG Gauge / W.Thk SA214 Rolled Tube Sheet
 Insp: 76 .75" X 16UNF THD'D SA105 Plug Sheet

VESEL EXEMPT FROM IMPACT TESTING PER UG-20 (F) Cold Forming in accordance with UG-79 & UCS-79

CERTIFICATE OF SHOP COMPLIANCE

We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship on this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. "U" Certification of Authorization No. 4241 expires 12/31, 2005
 Date 9/21/05 Company Name Air-X-Changers, A Harsco Company Signed Bret Kuntz
 (Manufacturer) (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by Air-X-Changers, A Harsco Company at Tulsa, Oklahoma
 I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of Oklahoma and employed by OneBeacon America Insurance Company have inspected the components described in this Manufacturer's Data Report on 7/6, 20 05 and state that, to the best of my knowledge and belief, the Manufacturer has constructed this 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 loss of any kind arising from or connected with this inspection.
 Date: 9/21/05 Signed: [Signature] (Authorized Inspector) Commissions: NB # 11672A / OK # 765
 (Nat'l Board (inc. endorsements), State, Prov. and No.)