

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS  
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

0406  
114278

1. Manufactured and certified by KAM THERMAL EQUIPMENT LTD. OZONE PARK, NEW YORK  
(Name and address of manufacturer)  
2. Manufactured for AMERICAN HOECHST CORP. COVENTRY R.I.  
(Name and address of purchaser)  
3. Location of installation \_\_\_\_\_  
(Name and address)  
4. Type HORIZONTAL 6617 B-6468-ST 749 1986  
(Horiz. or vert., tank) (Mfg.'s serial No.) (CRN) (Drawing) (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 1983  
Year

Addenda (date): \_\_\_\_\_ Code Case No. \_\_\_\_\_ Special service per UG-120 (d) \_\_\_\_\_

Items 6-11 incl. to be completed for single wall vessels, jackets of jackets of jacketed vessels, or sheets of heat exchangers.

6. Shell: SA312 T316 .250 0 1' 5 1/4" 8' 2 1/2"  
(Matl. (Spec. No., Grade)) (Nom. Thk. (in.)) (Corr. Allow. (in.)) (Diam. I.D. (ft. & in.)) (Length (Overall) (ft. & in.))  
7. Seams: WELDED DB 70% 1  
(Long. (Dbl., Sngl.)) (R.T. (Spot or Full)) (Eff. (%)) (H.T. Temp. (°F))  
Time Girth (Dbl., Sngl.) R.T. (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Matl. \_\_\_\_\_ (b) Matl. \_\_\_\_\_  
(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) \_\_\_\_\_  
(b) \_\_\_\_\_

If removable, bolts used (describe other fastenings) \_\_\_\_\_  
(Matl. Spec. No., Gr. Size, No.)

9. Type of Jacket \_\_\_\_\_ Proof Test \_\_\_\_\_

10. Jacket Closure \_\_\_\_\_ If bar, give dimensions \_\_\_\_\_ If bolted, describe or sketch. \_\_\_\_\_  
(Describe as ogee & weld, bar, etc.)

11. MAWP 90 psi at max. temp. 390 °F. Min. temp. (when less than -20°) \_\_\_\_\_ °F.

Hydro., pneu., or comb. test press. 135 psi.

Items 12 and 13 to be completed for tube sections

2. Tubesheets: SA240 T-316 18 3/4 0 WELDED  
(Stationary Matl. (Spec. No., Gr.)) (Diam. (in.) (Subject to pressure)) (Nom. Thk. (in.)) (Corr. Allow. (in.)) (Attach. (Welded, Bolted))  
Floating Matl. (Spec. No., Gr.) Diam. (in.) Nom. Thk. (in.) Corr. Allow. (in.) Attach  
13. Tubes: SA249 T-316 3/4 18 206 STRAIGHT  
(Matl. (Spec. No., Gr.)) (OD (in.)) (Nom. Thk. (in. or Gauge)) (Number) (Type (Straight or "U"))

Items 14-17 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers

14. Shell: \_\_\_\_\_  
(Matl. (Spec. No., Grade)) (Nom. Thk. (in.)) (Corr. Allow. (in.)) (Diam. I.D. (ft. & in.)) (Length (Overall) (ft. & in.))

15. Seams: \_\_\_\_\_  
(Long. (Dbl., Sngl.)) (R.T. (Spot or Full)) (Eff. (%)) (H.T. Temp. (°F))  
Time Girth (Dbl., Sngl.) R.T. (Spot, Partial, or Full) No. of Courses

16. Heads: (a) Matl. SA312 & SA240 T316 (b) Matl. SA240 T316  
(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)	END	.250	0							CONCAVE
(b)	END	.250	0							CONCAVE

If removable, bolts used (describe other fastenings) T304; SA-193-B-8; 5/8"; 24  
(Matl., Spec. No., Gr., Size, No.)

17. MAWP 90 psi at max. temp. 390 °F. Min. temp. (when less than -20°) \_\_\_\_\_ °F.  
Hydro., pneu., or comb. test press. 135 psi.

Form U-1 (Back)

18. Nozzles, Inspection and Safety Valve Openings:

[illegible]

19. Supports: Skirt \_\_\_\_\_ Lugs \_\_\_\_\_ Legs \_\_\_\_\_ Other SADDLES Attached SHELL & WELDED  
(Yes or no) (No.) (No.) (Describe) (Where and how)

20. 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)

UNIT TO BE USED AS A HEAT EXCHANGER

**CERTIFICATE OF SHOP COMPLIANCE**

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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.

Aug. 19 19 1988

form to the ASME Code for Pressure Vessels, Section VIII, Division 1.

"U" Certificate of Authorization No. 892 expires Aug. 19, 19 1988

Date 9/15/86 Co. name KAM THERMAL EQUIP. LTD. Signed [Signature]

(Manufacturer) (Representative)

CERTIFICATE OF SHOP INSPECTION

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by KAM THERMAL EQUIP. LTD. at OZONE PARK, NEW YORK

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 \_\_\_\_\_ and employed by COMMERCIAL UNION CO.

and employed by \_\_\_\_\_  
of BOSTON \_\_\_\_\_ have inspected the pressure vessel described in this Manufacturer's Data Report on 9/15/86, 19\_\_\_\_\_, 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 the 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 any defect in the vessel.

9/15/86 Signed [Signature] \_\_\_\_\_  
(Authorized Inspector) \_\_\_\_\_

Commissioner \_\_\_\_\_  
NEW YORK STATE COMMISSIONER OF LABOR  
1160 COMMISSIONER'S OFFICE, 120 NASSAU ST., NEW YORK, N.Y. 10038

**CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE**

We certify that the field assembly construction of all parts of this vessel conforms with the requirements of Section VIII, Division 1 of the ASME Boiler and Pressure Vessel Code.

"U" Certificate of Authorization No. \_\_\_\_\_ expires \_\_\_\_\_, 19\_\_\_\_.

Date \_\_\_\_\_ Co. name \_\_\_\_\_ (Assembler that certified and constructed field assembly) Signed \_\_\_\_\_ (By Representative)

**CERTIFICATE OF FIELD ASSEMBLY INSPECTION**

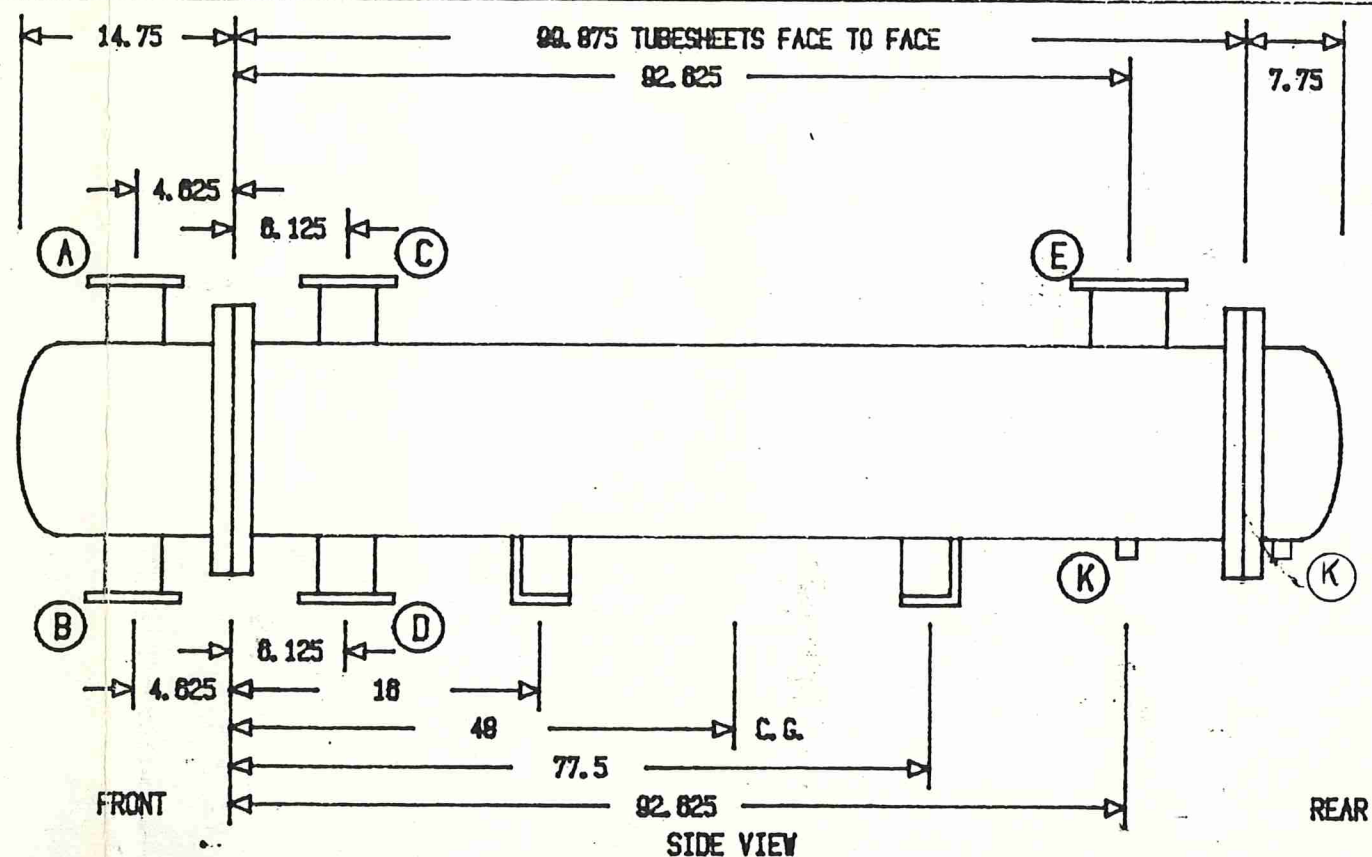
**CERTIFICATE OF FIELD ASSEMBLY INSPECTION**

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 \_\_\_\_\_ and employed by \_\_\_\_\_ of \_\_\_\_\_ have compared the statements in this Manufacturer's Data Report not included in the

\_\_\_\_\_ and employed by \_\_\_\_\_ have compared the statements in this Manufacturer's Data Report  
\_\_\_\_\_ of \_\_\_\_\_, not included in the  
with the described pressure vessel and state that parts referred to as data items \_\_\_\_\_  
certificate of shop inspection, have been inspected by me and that, to the best of my knowledge and belief, the Manufacturer has constructed and assem-  
bled this pressure vessel in accordance with ASME Code, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic test  
of \_\_\_\_\_ psi. 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 \_\_\_\_\_ Signed \_\_\_\_\_ Commissions \_\_\_\_\_  
(Authorized Inspector) [Nat'l Board (inc) endorsements], State, Prov., and No.]

Certified By: ALL THE BOARD, MD.  
By: D. Taylor 9/3/86

[illegible]