

105706

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

1. Manufactured by THERMO TRAN, INC. 690 FRANKLIN, BEAUMONT, TEXAS 77704
2. Manufactured for M. W. Kellogg, Houston, Texas PO 5058-P.C. 21-10313
(Name and address of purchaser)
3. Location of Installation Monsanto, Luling, Louisiana ITEM 2201C
(Name and address)
4. Type Horiz. Vessel No. H-1369 (CRN) H-1369
(Horiz. or vert. tank) (Manufacturer's Serial No.) (Drawing)
- 105 Year Built 1975
(Nat'l Bld No.)
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. 1974
and Addenda to November 1975 and Code Case No. 1974
(Date) (Year)

Special service per UG-120(d)

Manufacturers' 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)

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

6. Shell: Material SA-53-B Nominal Thickness .375 in. Corrosion Allowance 1/8 in.
(Spec. No., Grade)

Diam. 2 ft. 0 in. Length 30 ft. 3-7/16 in.

7. Seams: Longitudinal None R.T. No Efficiency 85 %
(welded, Dbl., Sngl. Lap, Butt) (Spot or Full)

H.T. Temp - F Time - Girth Dbl. Butt Weld
(Welded, Dbl, Sngl, Lap, Butt)

R.T. Spot No. of Courses 1
(Spot, Partial, or Full)

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

Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio
(a) <u>End</u>	<u>3/8" Nom.</u>				<u>2:1</u>
(b)					

Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)		<u>24"</u>	<u>Concave</u>
(b)			

If removable, bolts used (describe other fastenings) _____
(Material, Spec. No., Gr., Size, No.)

9. Type of Jacket _____ Proof Test _____

10. Jacket Closure _____ If bar, give dimensions _____
(Describe as ogee & weld, bar, etc.)

If bolted, describe or sketch.

11. Constructed for max. allowable working pressure 150 psi at max. temp. 250 F Min. temp. (when less than -20 F) _____ F
Hydrostatic, pneumatic, or combination test pressure 225 psi

CERTIFICATE OF 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.

Date November 17, 1975 Signed THERMO TRAN, INC. by E. R. Jeko
(Manufacturer) (Representative)

"U" Certificate of Authorization No. 7121 expires DECEMBER 31 19 78

CERTIFICATE OF SHOP INSPECTION

Vessel made by THERMO TRAN, INC. at BEAUMONT, TEXAS 77704

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 TEXAS and employed by HARTFORD STEAM BOILER INSPECTION & INSURANCE CO.

of HARTFORD, CONN. have inspected the pressure vessel described in this Manufacturers' Data Report on Nov. 5, 1975 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 Manufacturers' 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 Dec 5, 1975
Signed V. E. Moorehead Commissions NB 3825
(Inspector) (Nat'l Board, State, Province and No.)

SERIAL NO. H-1369
FORM U-1 (BACK)

Items 12 and 13 to be completed for tube sections

12. Tubesheets: Stationary—Material SA-516-70 W/3/8" Min. 304 S/S overlay tube side Diam. 24-5/8 in.
(Spec. No., Gr.) (Subject to Pressure)

Nominal Thickness 2 in. Corrosion Allowance 3/8 in. Attachment Bolted
(Welded, Bolted)

Floating—Material _____ Diam. _____ in.
(Spec. No., Gr.)

Nominal Thickness _____ in. Corrosion Allowance _____ in.
Attached _____
(Where and how)

13. Tubes: Material SA-249 Tp 316 L O.D. 1/2 in. Nominal Thickness 18 in. or gauge
(Spec. No., Gr.)

Number 390 Type U
(Straight or "U")

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

14. Shell: Material SA-53-B Nominal Thickness .500 in. Corrosion Allowance 1/4 in.
(Spec. No., Gr.)

Diam. 2 ft. 0 in. Length 0 ft. 9-3/4 in.

15. Seams: Longitudinal None R.T. No Efficiency 85 %
(Welded, Ob., Sngl. Lap, Butt) (Spot or Full)

H.T. Temp 1150° F Time 1/2 hr. Girth Dbl. Butt Weld
(Welded, Obl., Sngl. Lap, Butt)

R.T. Spot No. of courses 1
(Spot, Partial or Full)

16. Heads: (a) Material SA-515-70 (b) Material _____
(Spec. No., Grade) (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio
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(a)	<u>End</u>	<u>2-3/16"</u>				
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(b)						
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	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
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(a)			<u>28-1/4"</u>	
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(b)				
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If removable, bolts used (describe other fastenings) SA-193-B7--125,000--3/4"--48
(Material, Spec. No., Gr., Size, No.)

17. Constructed for max. allowable working pressure 150 psi at max temp. 250 F. Min. temp. (when less than
-20 F) _____ F. Hydrostatic, pneumatic, or combination test pressure 225 psi.

Items below to be completed for all vessels where applicable

18. Safety Valve Outlets: Number In Line Size _____ Location _____

19. Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Diam. of Size	Type	Material	Nominal Thickness	Reinforcement Material	How Attached
<u>Inl. & Out.</u>	<u>2</u>	<u>4"-150#</u>	<u>R.F.S.O.</u>	<u>SA-181-1</u>	<u>.438"</u>	<u>None</u>	<u>Welded</u>
<u>Inl. & Out.</u>	<u>2</u>	<u>6"-150#</u>	<u>R.F.S.O.</u>	<u>SA-181-1</u>	<u>.432"</u>	<u>None</u>	<u>Welded</u>

20. Inspection Openings:

Manholes No. _____ Size _____ Location _____

Handholes No. _____ Size _____ Location _____

Threaded No. _____ Size _____ Location _____

21. Supports: Skirt _____ Lugs _____ (Yes or No) _____ (No.) _____ Legs 2 _____ (No.) _____ Other _____ (Describe)

Attached Welded to Shell
(Where and how)

22. Remarks: _____