

FORM U-1A MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS
 Alternate Form for Single Chamber Completely Shop-Fabricated Vessels Only
 As Required by the Provisions of the ASME Code Rules, Section VIII, Division I

1. Manufactured by The Marley Co. Marfab Division, P.O. Box 369, Pryor Oklahoma 74361
(Name and address of Manufacturer)

2. Manufactured for Celanese Chemical Co, Bishop, Texas
(Name and address of Purchaser)

3. Type Horiz. Vessel No. J1-166-75-1-01 None) Natl. Bd. No. 789 Yr. Built 1976
(Horiz. or Vert.) (Mrs. Serial) (State & State No.)

4. SHELL: Matl. SA-240-304SS T.S. 75m Nom. Thk 3/8 In. Allow 0 In. 0 Fr. 4 In. Length 11 Ft. 6 In.
(Kind and Spec. No.) (Fig. or F.H. & Spec. Min. T.S.)

5. SEAMS: Long S.W. Butt H.T. No R.T. No Sectioned No Efficiency %
(Welded, Dbl., Single, Lap, Butt) (Yes or No)¹ (Spot or Complete) (Yes or No)

If riveted or brazed describe seams fully under remarks.

6. HEADS: (a) Material SA-240-304SS T.S. 75m Nom. Thick 3/4 Width 4 Length 7 7/8

Location (Top, bottom, ends)	Thickness	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Side to Pressure (Convex or Concave)
(a) Tube Sheet	<u>1</u>	<u>Mat'l</u>	<u>SA-240-304SS</u>	<u>T.S. 75m</u>	<u>Width 8 5/8</u>	<u>Flat Lgth. 11'-6</u>	
(b) Plug Sheet	<u>3/4</u>	<u>Mat'l</u>	<u>SA-240-304SS</u>	<u>T.S. 75m</u>	<u>Width 8 5/8</u>	<u>Flat Lgth. 11'-6</u>	

If removable, bolts used Other fastening
(Material, Spec. No., T.S., Size, Number) (Describe or Attach Sketch)

7. Constructed for max. allowable working press. 270 psi at max. temp. 350 °F. Min. temp. (when less than -20°) °F. Hydrostatic Pressure or Test Press 470 psi.

8. SAFETY OR RELIEF VALVE OUTLETS: Number Size Location

9. NOZZLES:

Purpose (Inlet, Outlet, Drain)	Number	Diam. or Size	Type	Material	Thickness	Reinforcement Material	How Attached
Inlet	<u>2</u>	<u>8"-300#</u>	<u>RFWN</u>	<u>SA-182-F304</u>	<u>.500</u>	<u>Weld Metal</u>	<u>Welder</u>
Outlet	<u>2</u>	<u>8"-300#</u>	<u>RFWN</u>	<u>SA-182-F304</u>	<u>.500</u>	<u>Weld Metal</u>	<u>Welder</u>

10. INSPECTION Manholes, No. Size Location
 OPENINGS: Handholes, No. Size Location
 Threaded, No. 428 Size 1 1/8-12N Location Opposite Tube Ends

11. SUPPORTS: Skirt Lugs Legs Other Attached
(Yes or No) (Number) (Number) (Describe) (Where & How)

12. REMARKS (List applicable special services in accordance with UG-120(d)): Air Cooled Heat Exchangers with Rectangular Box Headers.

Purchase Order Number: 040041-50039

Item Number: HE-2545

Service : Reformed Gas Air Cooler

Shipped To : Bishop, Texas

214 Tubes: 1" O.D. x 14BWG Avg Wall x 40'-0 Long Material SA249 TP 304

(Brief description of purpose of the vessel as Air Tank, Water Tank, L.P.G., Etc.—State Contents.
¹ If postweld heat-treated.
² List other internal or external pressures with coincident temperature when applicable.

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 I.

Date 2-9 1976 Signed The Marley Co. Marfab Division By J.R. Gibson
(Manufacturer)

Certificate of Authorization No. 7866 Expires December 31, 1976 J.R. Gibson, Manager Quality Assurance

CERTIFICATE OF SHOP INSPECTION

VESSEL MADE BY The Marley Co. Marfab Division at Pryor, Oklahoma

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 Massachusetts and employed by Commercial Union Insurance Company of Boston, Mass. have inspected the pressure vessel described in this manufacturer's data report on 2-18-1976 and state that to the best of my knowledge and belief, the manufacturer has constructed this pressure vessel in accordance with the applicable sections of the ASME Boiler and Pressure Vessel Code.

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 2-18-1976
J.R. Gibson Commissions N.B. # 8055
Inspector's Signature Nat'l Board, State, Province and No.