

**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 Kenosha Boiler & Structural Co., Kenosha, Wisconsin  
(Name and address of Manufacturer)

2. Manufactured for Cardox Div. - Chemetron Corp., Monee, Illinois  
(Name and address of Purchaser)

3. Type Horizontal Vessel No. C5439-190 ((Mfrs. Serial)) ((State & State No.)) Natl. Bd. No. 147 Yr. Built 1974  
(Horiz. or Vert.)

4. SHELL: Matl. SA-515 T.S. 70,000 Nom. 9/16 Corr.       
(Kind and Spec. No.) (Fig. or F.B. & Spec. Min. T.S.) In. Allow In. Diam. 3 Ft. 6 In. Length 8 Ft. 6 In.

5. SEAMS: Long Dbl. Butt H.T. No R.T. Spot Sectioned No Efficiency 85 %  
(Welded, Dbl., Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No)  
 Girth Dbl. Butt H.T. No R.T. Spot Sectioned No No. of Courses 2

If riveted or brazed describe seams fully under remarks.

6. HEADS: (a) Material SA-515 T.S. 70,000 (b) Material      T.S.       
Location Thickness Crown Radius Knuckle Radius Elliptical Ratio Conical Apex Angle Hemispherical Radius Flat Diameter Side to Pressure  
(Top, bottom, ends) (Convex or Concave)  
 (a) Ends 1/2      2:1                     Concave  
 (b)                                             

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

7. Constructed for max. allowable working press. 363 psi at max. temp. 650 °F. Min. temp. (when less than -20°)      °F. Hydrostatic Pneumatic or Test Press 550 psi. Combination     

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
	<u>1</u>	<u>2"</u>	<u>Pipe</u>	<u>304 SS</u>	<u>Sch 80</u>		<u>Welded</u>
	<u>1</u>	<u>1 1/2"</u>	<u>Pipe</u>	<u>304 SS</u>	<u>Sch 80</u>		<u>Welded</u>

10. INSPECTION Manholes, No. 1 Size 15" Location Head  
 OPENINGS: Handholes, No.      Size      Location       
 Threaded, No.      Size      Location     

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

12. REMARKS (List applicable special services in accordance with UG-120(d)):  
2-3/4 Ton Refrigeration Tank for Carbon Dioxide  
Cardox Dwg. D46506 - Rev. "F"  
Serial No. A-190

9. Cont'd.

<u>1</u>	<u>1"</u>	<u>Pipe</u>	<u>Steel</u>	<u>XH</u>	<u>Welded</u>
<u>1</u>	<u>4"</u>	<u>Pipe</u>	<u>SA53 GR.B</u>	<u>XH</u>	<u>Welded</u>
<u>2</u>	<u>1/2"</u>	<u>Coupling</u>	<u>Steel</u>	<u>3000#</u>	<u>Welded</u>

(Brief description of purpose of the vessel as Air Tank, Water Tank, L.P.G., Etc. - State Contents.)  
<sup>1</sup> If postweld heat-treated.  
<sup>2</sup> 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 April 23, 19 74 Signed Kenosha Blr. & Struct. Co. By G. Allen Jackson  
(Manufacturer)

Certificate of Authorization No. 11,529 Expires May 17, 1975

**CERTIFICATE OF SHOP INSPECTION**

VESSEL MADE BY Kenosha Blr. & Struct. Co., Kenosha, Wisconsin

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State of Wisconsin and employed by Dept. of Industry, Labor and Human Relations, Madison, Wisconsin have inspected the pressure vessel described in this manufacturer's data report on April 23, 19 74 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 April 23, 19 74 N.B. 5638 Penn. WC1894  
G. Allen Jackson Wis. 4 Ohio Comm. 7-30-70  
Inspector's Signature Natl. Board, State, Province and No.