

**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 1

1. Manufactured and certified by E. L. Nickell Company, Inc., 635 Franklin St., Constantine, MI 49042  
(name and address of manufacturer)

2. Manufactured for Hartel, PO Box 41 201 N. Main St., Fort Atkinson, WI 53538  
(name and address of purchaser)

3. Location of installation Hartel, 201 N. Main St., Fort Atkinson, WI PO# 45614  
(name and address)

4. Type: Receiver 40363 N/A C-9128-A 37572 1990  
(horiz. or vert., tank) (mfr's. serial no.) (CRN) Rev. 0 (drawing no.) (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 Code, Section VIII, Division 1: 1989  
12-31-89 N/A 1989  
(addenda (date)) (Code Case no.) (special service per UG-120(d)) (year)

6. Shell: SA-516-70 3/8" 0 2 Ft. 11 1/4 in. 16 ft. 0 in.  
(mat'l. (spec. no., grade)) (nom. thickness (in.)) (corr. allow. (in.)) (dia. ID (ft. & in.)) (length (overall) (ft. & in.))

7. Seams: SBW/BU Spot 80% N/A N/A SBW/BU TYP. None 2  
(long. (welded, dbl., angl. lap, butt)) (RT (spot or full)) (eff. (%)) (HT temp. (°F)) (time (hr.)) (girth (welded, dbl., angl., lap, butt)) (RT (spot, partial, or full)) (no. of courses)

8. Heads: (a) 3/8" Nom. SA-516-70 (b) Same  
(mat'l. (spec. no., grade)) (mat'l. (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	.298	0	----	----	2:1	----	----	----	Concave
(b)	End	.298	0	----	----	2:1	----	----	----	Concave

If removable, bolts used (describe other fastenings): N/A  
(mat'l., spec. no., gr., size, no.)

9. MAWP: 250 at max. temp. +650 Min design metal temp. -20 at 250 Hydro. 375 test pressure 375  
(psi) (°F) (°F) (psi) (psi) (psi)

10. Nozzles, inspection and safety valve openings:

Purpose (inlet, outlet, drain, etc.)	No.	Dia. or Size	Type	Mat'l.	Nom. Thickness	Reinforcement Mat'l.	How Attached	Location
Misc.	1, 1	4", 2"	Pipe	SA-106B	S/40, S/80	-----	Welded	-----
Relief	1	3/4"	Cplg	SA-105	6000#	-----	"	-----
Misc.	4	3/4"	"	"	"	-----	"	-----

11. Supports: Skirt No Lugs 0 Legs 0 Other 2 Flush Attached Shell/Welded  
(yes or no) (no.) (no.) (describe) Saddles (where & how)

12. Remarks: Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: N/A  
(name of part, item number, mfr's. name and identifying stamp)

For non-lethal, non-corrosive refrigeration service. Head E-85Z  
Impact exempt per UG-20(f). Nozzle end plates are for test purpose only, construction DOES NOT meet ASME/SERVICE requirements.

**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 of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1. "U" Certificate of Authorization No. 188 expires 3-30, 1992.  
 Date 7-20-90 Name E. L. Nickell Company, Inc. Signed [Signature]  
(manufacturer) (representative)

**CERTIFICATE OF SHOP INSPECTION**

Vessel constructed by E. L. Nickell Company, Inc. at Constantine, MI  
 I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the state or province of MI and employed by Lumbermen's Mutual Casualty Company  
 of Long Grove, IL have inspected the component described in this Manufacturers' Data Report on 7-20, 1990 and state that, to the best of my knowledge and belief, the manufacturer has constructed this pressure vessel in accordance with the 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 7-20, 1990 Signed [Signature] Commissions NR8832 MI 533  
(Authorized Inspector) (Nat'l. Bd. (incl. endorsements) state, prov. and no.)