

**FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS**  
 (Alternative Form for Single Chamber, Completely Shop-Fabricated Vessels Only)  
 As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

Sht 1 of 2

1. Manufactured and certified by FRICK COMPANY, 100 C.V. AVE, WAYNESBORO, PA USA 17268-0997  
(Name and address of manufacturer)

2. Manufactured for \_\_\_\_\_  
(Name and address of purchaser)

3. Location of installation Not Known  
(Name and address)

4. Type Horiz 103111 548D0580 "S" 103111 1992  
(Horiz. or vert., tank) (Mfr's serial No.) (CRN) (Drawing No.) (Inst'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 1989  
Year  
 to 12/31/90 1518-3 N/A  
Addenda (Date) Code Case Nos. Special Service per UG-120(d)

6. Shall: SA-106-B .375 0 1'-11 1/4" 10'-1 5/16"  
Mat'l. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: none none 85 no 0 none none 1  
Long. (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot or Full) Eff. (%) H.T. Temp. (°F) Time (hr) Girth (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Mat'l. SA-516-70 (b) Mat'l. \_\_\_\_\_  
(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)	Ends	.238	0	-	-	2:1	-	-	-	concave
(b)	-	-	-	-	-	-	-	-	-	-

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

9. MAWP 300 psi at max. temp. +200 °F  
 Min. design metal temp. -20 °F at 10.2 psi. xxx Hydro., xxx pneu., or xxx comb. test pressure 375 psi.

Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Mat'l.	Nom. Thk.	Reinforcement Mat'l.	How Attached	Location
Safety	1	1	Fit	SA-105	.196	none	welded	
Vent	1	3/8	"	"	.138	"	"	
DischGas	1	3/8	"	"	"	"	"	
OilCharge	1	1/2	"	"	.161	"	"	

11. Supports: Skirt no Lugs - Legs - Other Bellyband(2) Attached bottom-welded  
(Yes or no) (No.) (No.) (Describe) (Where and how)

12. Remarks: Manufacturer's 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)

24" OD x 11'-5 11/16" oil separator for refrigerants.  
For non-lethal/non-corrosive service.  
Refer attached U-4 form. "Charpy impact testing is exempted per UG-20F".

**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. 142 expires May 28, 1992  
 Date 3-5-92 Co. name Frick Company Signed R. Rosenwald  
(Manufacturer) (Representative)

**CERTIFICATE OF SHOP INSPECTION**

Vessel constructed by Frick Company at Waynesboro PA  
 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 PA and employed by KEMPER NATIONAL INS. COMPANIES, LONG GROVE, ILL have inspected the component described in this Manufacturer's Data Report on 3-5, 19 92, 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 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 3-5-92 Signed [Signature] Commissions NB 8265 PA 7740  
(Authorized Inspector) (Nat'l Board (incl. endorsements), State, Prov. and No.)

FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET  
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

Sht 2 of 2

1. Manufactured and certified by FRICK COMPANY, 100 C.V. AVE, WAYNESBORO, PA USA 17268-0997  
(Name and address of manufacturer)

2. Manufactured for \_\_\_\_\_  
(Name and address of purchaser)

3. Location of installation Not Known  
(Name and address)

4. Type Horiz 103111 548D0580 "S" 103111 1992  
(Horiz., vert., tank, etc.) (Mfg'r's. serial No.) (CRN) (Dwg) (Nat'l. Bd. No.) (Year built)

Data Report		Remarks						
Item Number								
Purge	1	1/2	Fit	SA-105	.161	none	welded	
(Item 10 in U-1A)								
PreLube Pump	1	1/2	"	"	"	"	"	
(Item 10 in U-1A)								
Bulb Well	3	3/4	"	"	.170	"	"	
(Item 10 in U-1A)								
Oil Relief	1	1 1/4	"	"	.208	"	"	
(Item 10 in U-1A)								
L.L.Float	1	1	"	"	.196	"	"	
(Item 10 in U-1A)								
Sight glass	3	2	"	"	.281	"	"	
(Item 10 in U-1A)								
BLEED	1	1/2	Pipe	SA-106-B	.147	"	"	
(Item 10 in U-1A)								
Htr Carrier	2	1 1/2	"	"	.400	"	"	
(Item 10 in U-1A)								
Oil Outlet	1	1 1/2	"	"	.200	"	"	
(Item 10 in U-1A)								
Sight Glass	1	2 1/2	"	"	.203	"	"	
(Item 10 in U-1A)								
Inlet	1	4	"	"	.237	"	"	
(Item 10 in U-1A)								
Outlet	2	4	"	"	"	"	"	
(Item 10 in U-1A)								
Outlet	1	4	Elbow	SA-234	"	"	"	
(Item 10 in U-1A)								
Inlet	1	4	Flange	SA-105	1.25	"	"	
(Item 10 in U-1A)								
Manway	1	12x16	Fit	SA-675-70	1.0	"	" Head	
(Item 10 in U-1A)								
DRAIN	3	3/4	PIPE	SA-106-B	.154	"	"	
(ITEM 10 IN U-1A)								

3-5-92 Co. name Frick Company Signed R Rosenwald  
(Manufacturer) (Representative)

Date 3-5-92 Signed [Signature] Commissions NB 8265 PA 2240  
(Authorized Inspector) (Natl. Board (incl. endorsements), State, Prov., and No.)