

99780

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

1. Manufactured by ROBEN MFG. CO. INC., JERSEY CITY, N. J.
(Name and address of manufacturer)
2. Manufactured for ENIVEL ENGRG. CORP., CLIFTON, N. J.
(Name and address of purchaser)
3. Location of installation HOFFMANN LA ROCHE INC., BELVIDERE, N. J.
(Name and address)
4. Type Vert. Ht. Exch. Vessel No. 78223 3456-1 4260 Year Built 1978
(Horiz. or vert. tank) (Mfg's Serial No.) (CRN) (Drawing) (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 1977 and Addenda to 12/31/77 and Code Case no. _____
(Date)
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, mfg'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 285C Nom. Thickness 3/8 in. Corrosion Allowance 1/16 in. Diam. 2 ft. 7 3/4 Length 13 ft. 11 1/8 in.
(Spec. No. Grade)

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 6-27-78 Signed ROBEN MFG. CO. INC. by P. Wyso
(Manufacturer) (Representative)
"U" Certificate of Authorization No. 3840 expires Dec. 31, 19 78

CERTIFICATE OF SHOP INSPECTION

Vessel made by ROBEN MFG. CO. INC. at JERSEY CITY, N. J.
I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State or Province of NEW YORK and employed by COM'L UNION INS. CO., BOSTON, MASS. have inspected the pressure vessel described in this Manufacturers' Data Report on 6-27-78, 19 78, 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 6-27-78
Signed H. J. Diment Commissions NB 7131
(Inspector) (Nat'l Board, State, Province and No.)

CERTIFICATE OF COMPLIANCE FOR FIELD WORK

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 _____ Signed _____ by _____
(Manufacturer) (Representative)
"U" Certificate of Authorization No. _____ expires _____, 19 _____

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by the National Board and Pressure Vessel Inspectors and the State or Province of _____ and employed by _____ of _____ have compared the statements in this Manufacturers' Data Report with the described pressure vessel and state that parts referred to as data items _____, not included in the certificate of shop inspection, have been inspected by me and that, to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with ASME Code, Section VIII, Division 1.
The described vessel was inspected and subjected to a hydrostatic test of _____ psi.
By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this 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 _____
Signed _____ Commissions _____
(Authorized Inspector) (Nat'l Board, State, Province and No.)

7. Seams:

Longitudinal DWB R.T. None Efficiency 70 % H.T. Temp F Time Girth DWB R.T. None No. of Courses 2
(Dbl. Sngl.) (Spot or Full) (Dbl. Sngl.) (Spot Partial or Full)

8. Heads: (a) Material See Tube Sheets(b) Material (Spec. No. Grade)(Spec. No. Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio
(a)						
(b)						

	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)				
(b)				

If removable, bolts used (describe other fastenings) SA-193B7 & SA-194-2H 80000 3/4" - 28
(Material Spec. No. Gr. Size No.)

9. Type of Jacket Proof Test 10. Jacket Closure If bar, give dimensions If bolted, describe or sketch (Describe as ogee & weld bar, etc.)

11. Constructed for max. allowable working pressure 100 psi at max. temp. 400 F. Min. temp. (when less than -20 F) F.
 Hydrostatic, pneumatic, or combination test pressure 175 psi.

Items 12 and 13 to be completed for tube sections

12. Tubesheets: Stationary—Material SA240 T304 Diam. 31 in. Nominal Thickness 1 1/4 in. Corrosion Allowance 0.0 in.
(Spec. No. Gr.) (Subject to pressure)

Attachment Welded Floating—Material Diam. in. Nominal Thickness in. Corrosion Allowance in.
(Welded Bolted) (Spec. No. Gr.)

Attachment

13. Tubes: Material T304 SA240 D.D. 1 in. Nominal Thickness 18 in. or gauge Number 437 Type Straight
(Spec. No. Gr.) (Straight or Coiled)

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

14. Shell: Material Nominal Thickness in. Corrosion Allowance in. Diam. ft. in. Length ft. in.
(Spec. No. Gr.)

15. Seams:

Longitudinal P.T. Efficiency % H.T. Temp F Time Girth R.T. No. of courses
(Dbl. Sngl.) (Spot or Full) (Dbl. Sngl.) (Spot Partial or Full)

16. Heads: (a) Material (b) Material (Spec. No. Grade)(Spec. No. Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio
(a)						
(b)						

	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)				
(b)				

If removable, bolts used (describe other fastenings)

(Material, Spec. No., Gr., Size, No.)

17. Constructed for max. allowable working pressure F.V. & 25 at max temp. 250 F. Min. temp. (when less than -20 F) F.
 Hydrostatic, pneumatic, or combination test pressure 190 psi. By others.

Items below to be completed for all vessels where applicable

18. Safety Valve Outlets: Number Size Location

19. Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Diam. or Size	Type	Material	Nominal Thickness	Reinforcement Material	How Attached
Inlet	1	8"	Flgd.	SA105	150#	None	Welded
Outlet	1	3"	Flgd.	SA105	150#	None	Welded
Vent & Drain	1 e.a.	3/4"	Coup	SA105II	3000#	None	Welded
Gage Coims.	4	3/4"	Coup	SA105II	3000#	None	Welded

20. Inspection Openings:

Manholes No. Size Location Handholes No. Size Location Threaded No. Size Location

21. Supports: Skirt No Lugs 4 Legs Other Attached Shell Welded
(Yes or no) (No) (No) (Describe) (Where and how)

22. Remarks: VESSEL to be used as a replacement heat exchanger shell section
without bonnets. Tag Pos No. B3-3456 Equip. code FVP 795