

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 ROCKAWAY TANK, INCORPORATED DOVER, N. J.
(Name and address of manufacturer)
2. Manufactured for HOFFMANN-La ROCHE, INCORPORATED NUTLEY, N. J.
(Name and address of purchaser)
3. Location of installation HOFFMANN-La ROCHE, INCORPORATED BELVIDERE, N. J.
(Name and address)
4. Type Vertical Vessel No. R-4841-510 RT-4-647B 510 Year Built 1980
(Horiz. or vert. tank) (Mfr'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
(Year)
- and Addenda to S-79 and Code Case no. N/A
(Date)

Special service per UG-120(d) N/A

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)

Items 6-11 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers

6. Shell: Material SB-168, Alloy 600 .109 in. Corrosion Allowance 0 in. Diam. 4 ft. 1 in. Length 4 ft. 0 in.
(Spec. No., Grade) (Overall)
7. Seams: Weld.
Longitudinal D.B. R.T. No Efficiency 70 % H.T. Temp F Time Girth None R.T. No No. of Courses 1
(Dbl., Sngl.) (Spot or Full) (Dbl., Sngl.) (Spot, Partial, or Full)

8. Heads: (a) Material SB-168, Alloy 600 (b) Material
(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)	<u>Bottom</u>	<u>.109"</u>	<u>0</u>	<u>48.5"</u>	<u>ogee</u>					<u>Concave</u>
(b)										

If removable, bolts used (describe other fastenings) Welded on

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

9. Type of Jacket Dimpled Proof Test
10. Jacket Closure Ogee & Welded 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. 150 F Min. temp. (when less than -20 F) F.
Hydrostatic, ~~minimum working pressure~~ test pressure 200 psi.

Items 12 and 13 to be completed for tube sections

12. Tubesheets: Stationary Material Diam. in. Nominal Thick. in. Corrosion Allow. in. Attachment
(Spec. No., Gr.) (Subject to pressure) (Welded, Bolted)
- Floating Material Diam. in. Nominal Thick. in. Corrosion Allow. in. Attachment
(Spec. No., Gr.)

13. Tubes: Material O.D. in. Nominal Thickness in. or gauge Number Type
(Spec. No., Gr.) (Straight or "U")

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

14. Shell: Material SA-240 T-316 Nominal Thickness 1/4 in. Corrosion Allowance 0 in. Diam. 4 ft. 0 in. Length 5 ft. 0 in.
(Spec. No., Gr.)
15. Seams: Weld.
Longitudinal D.B. R.T. No Efficiency 70 % H.T. Temp F Time Girth D.B. R.T. No No. of courses 1
(Dbl., Sngl.) (Spot or Full) (Dbl., Sngl.) (Spot, Partial or Full)

16. Heads: (a) Material SA-240, T-316 (b) Material
(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)	<u>Bottom</u>	<u>7/32"</u>	<u>0</u>	<u>48"</u>	<u>3"</u>					<u>Convex</u>
(b)										

If removable, bolts used (describe other fastenings) WELDED ON

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

17. Max. allowable working pressure 14.5 psi at max temp. 150 F. Min. temp F. Hydro. test pressure 30 psi.

Items below to be completed for all vessels where applicable

18. Safety Valve Outlets: Number Size Location Service Piping

B8-R-775

X2D-4

EQUIP. CODE NO. X2D-4

19. Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Diam. or Size	Type	Material	Nominal Thickness	Reinforcement Material	How Attached
Jkt. Inlet	2	2"	Flgd./	SA-182F-304	150#	Weld	Welded
Jkt. Outlet	2	2"	Nozz.	SB-163(600)	.109"	"	"
Drain	1	3"	Flgd./	SA-105	150#	"	"
Level Control	1	3"	Nozz.	SA-312TP-316	.216"	"	"
Thermowell	1	1-1/2"	Flgd./	SA-182F-316	150#	"	"
			Nozz.	SA-312TP-316	.145"	"	"

20. Inspection Openings:

Manholes No. 1 Size 18" Location Top Head

Handholes No. _____ Size _____ Location _____

Threaded No. _____ Size _____ Location _____

21. Supports: Skirt _____ Lugs _____ Legs 4 Other _____ Attached Welded to Bottom Head (Shell)
(Yes or no) (No.) (No.) (Describe) (Where and how)22. Remarks: JACKET ONLY CODE STAMPED. 543 Gallon Capacity M.L. Neutralizer.
Vessel Has Dimpled Jacket On Shell & Bottom Head. Dimples Are 7/8" Dia.
Holes Plug Welded to Shell on 4" Triangular Pitch. Jacket Made 5 Pieces
to Circumference. Pos. No. B8-R-775 P.O. No. E-680567-B Equip. XZD-4

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 Feb. 14, 80 Signed ROCKAWAY TANK, INC. by John P. Walter, Pres.
(Manufacturer) (Representative)"U" Certificate of Authorization No. 7712 expires February 28, 19 82

CERTIFICATE OF SHOP INSPECTION

Vessel made by ROCKAWAY TANK, INC. at DOVER, 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 N. J. and employed by STATE OF NEW JERSEYof _____ have inspected the pressure vessel described in this Manufacturers' Data Report on Feb. 14, 19 80, 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 February 14, 1980
Signed _____ Commissions N.B. 6575
(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 _____ EQUIP. CODE NO. XZD-4
(Authorized Inspector) (Nat'l Board, State, Province and No.)