

AIRCO SER. NO. 550X140
FORM U-1 MANUFACTURERS' DATA REPORT FOR UNFIRED PRESSURE VESSELS
 As required by the Provisions of the ASME Code Rules

1. Manufactured by NOOTER CORPORATION ST. LOUIS, MO.
(Name and address of Manufacturer)

2. Manufactured for AIR REDUCTION CO. NEW YORK, N.Y.
(Name and address of Purchaser)

3. Type VERT. Kind TANK Vessel No. V-6935 F, PENN 3422 Nat'l Bd. No. 4695 Yr. Built 1963
(Style or Vess.) (Tank, Jacketed, Heat Exch.) (Mfrs. Serial) (State & State No.)

Items 4-9 incl. to be completed for single wall vessels (such as air tanks), jackets of jacketed vessels, or shells of Heat Exchangers

4. SHELL: Material 9% NI (A353) T.S. 100000 Nominal Thickness .67 in. Corrosion Allowance - in. Diam. 9 0 in. Length 7 1-3/4 ft.
(Kind and Spec. No.) (Fig. or F. B. & Lowest T.S.)

5. SEAMS: Long DBL BUTT S.R. NO X.R. FULL Sectioned NO Efficiency 100 %
(Welded, Dbl., Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No)

If riveted describe seams fully on reverse side of form

Girth DBI BUTT S.R. NO X.R. FULL Sectioned NO No. of Courses 1

6. HEADS: (a) Material 9% NI (A353) T.S. 100000 (b) Material 9% NI (A353) T.S. -

| Location (Top, bottom, ends) | Thickness | Crown Radius | Knuckle Radius | Elliptical Ratio | Conical Apex angle | Hemispherical Radius | Flat Diameter | Side to Pressure (Convex or Concave) |
|------------------------------|------------|--------------|----------------|------------------|--------------------|----------------------|---------------|--------------------------------------|
| (a) TOP | <u>.34</u> | | | | | <u>54.125</u> | | <u>CONCAVE</u> |
| (b) BOTM | <u>.37</u> | | | | | <u>54.125</u> | | <u>CONCAVE</u> |

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

7. STAYBOLTS: _____ If hollow _____ Attachment _____ Pitch X Diam. _____
(Material) (Size of Hole) (Threaded, Welded) (Horiz.) (Vert.) (Nominal)

8. JACKET CLOSURE: _____
(Describe as edge & weld, bar, etc. if bar give dimensions. if bolted, describe or sketch)

9. Constructed for Int. pressure of 278 psi. Max. Temp. 150 °F. Subzero -320 °F. Hydrostatic Test 440 psi.

Items 10 and 11 to be completed for tube sections.

10. TUBE SHEETS: Stationary. Material _____ Diam. _____ in. Thickness _____ in. Attachment _____
(Kind & Spec. No.) (Subject to Pressure)

Floating. Material _____ Diam. _____ in. Thickness _____ in. Attachment _____
(Kind & Spec. No.)

11. TUBES: Material _____ O.D. _____ in. Thickness _____ inches or gage. Number _____ Type _____
(Kind & Spec. No.) (Straight or U)

Items 12-15 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers.

12. SHELL: Material _____ T.S. _____ Nominal Thickness _____ in. Corrosion Allowance _____ in. Diam. _____ ft. in. Length _____ ft. in.
(Kind and Spec. No.) (Fig. or F. B. & Lowest T.S.)

13. SEAMS: Long _____ S.R. _____ X.R. _____ Sectioned _____ Efficiency _____ %
(Welded, Dbl., Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No)

If riveted describe seams fully on reverse side of form

Girth _____ S.R. _____ X.R. _____ Sectioned _____ No. of courses _____

14. HEADS (a) Material _____ T.S. _____ (b) Material _____ T.S. _____ (c) Material _____ T.S. _____

| Location | Thickness | Crown Radius | Knuckle Radius | Elliptical Ratio | Conical Apex angle | Hemispherical Radius | Flat Diameter | Side to Pressure (Convex or Concave) |
|-----------------------|-----------|--------------|----------------|------------------|--------------------|----------------------|---------------|--------------------------------------|
| (a) Top, bottom, ends | | | | | | | | |
| (b) Channel | | | | | | | | |
| (c) Floating | | | | | | | | |

If removable, bolts used (a) _____ (b) _____
(Material, Spec. No., T.S., Size, Number)

(c) _____ Other fastening _____
(Describe or Attach Sketch)

15. Constructed for Int. pressure of _____ psi. Max. Temp. _____ °F. Subzero _____ °F. Hydrostatic Test _____ psi.

Items below to be completed for all Vessels where applicable.

16. SAFETY VALVE OUTLETS: Number _____ Size _____ Location _____

17. NOZZLES:

| Purpose (Inlet, Outlet, Drain) | Number | Diam. or Size | Type | Material | Thickness | Reinforcement Material | How Attached |
|--------------------------------|----------|---------------|------------------|--------------|--------------|------------------------|---------------|
| INLETS-OUTLETS | <u>1</u> | <u>2"</u> | <u>SER 30 SO</u> | <u>304SS</u> | <u>.109</u> | <u>NONE</u> | <u>WELDED</u> |
| " | <u>2</u> | <u>1-1/2"</u> | <u>SER 30 SO</u> | <u>304SS</u> | <u>.109</u> | <u>NONE</u> | <u>WELDED</u> |
| " | <u>2</u> | <u>3/8"</u> | <u>CPLG</u> | <u>9% NI</u> | <u>3000#</u> | <u>NONE</u> | <u>WELDED</u> |
| " | <u>1</u> | <u>1/2"</u> | <u>CPLG</u> | <u>9% NI</u> | <u>3000#</u> | <u>NONE</u> | <u>WELDED</u> |

18. INSPECTION OPENINGS: Manholes, No. _____ Size _____ Location _____
 Handholes, No. _____ Size _____ Location _____
 Threaded, No. _____ Size _____ Location _____

19. SUPPORTS: Skirt NO Legs _____ Other _____ Attached _____
(Yes or No) (Number) (Number) (Describe) (Where & How)

20. REMARKS: VESSEL BUILT UNDER 1962 CODE & CODE CASE 1308

We certify that the statements made in this report are correct and that all details of material, construction, and workmanship of this unfired pressure vessel conform to the ASME Code for Unfired Pressure Vessels.

Date JAN 22 1963 19____ Signed NOOTER CORPORATION By Eugene Brown
(Manufacturer)

Certificate of Authorization Expires 12/31/64

CERTIFICATE OF SHOP INSPECTION

Inspection Agency's Serial No. D-685

VESSEL MADE BY NOOTER CORPORATION at ST. LOUIS, MO.

I, the undersigned, holding a Certificate of Competency as an Inspector of Boilers and Unfired Pressure Vessels in
THE STATE OF N.B. and employed by COMMERCIAL UNION INS. CO. of N.Y.

inspected internally and externally, the vessel described in this report on JAN 21 1963 19____, and certify
that the statements made in this report are correct corresponding with mill test reports of materials furnished by the build-
ers, and measurements made of the vessel and that this vessel is constructed in accordance with the ASME Code for Unfired
Pressure Vessels.

Date JAN 22 1963 19____

J. Russo
Inspector's Signature

Commissions PENN WC926
OHIO 1332
N.B. 3259
State or Nat'l Bd. # Number

CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a Certificate of Competency as an Inspector of Boilers and Unfired Pressure Vessels in
THE STATE OF _____ and employed by _____
have compared the statements in this manufacturer's data report with the completed vessel, and certify that parts referred to
as data items _____ were completed in the field in accordance with the require-
ments of the ASME Code for Unfired Pressure Vessels. The completed vessel was inspected and subjected to a hydrostatic
test of _____ psi.

Date _____ 19____

Inspector's Signature

Commissions _____
State or Nat'l Bd. # Number