

MUTUAL BOILER AND MACHINERY INSURANCE COMPANY
 MANUFACTURERS' DATA REPORT FOR UNFIRED PRESSURE VESSELS
 As Required by the Provisions of the A.S.M.E. Code Rules

M²
 51939

1. Manufactured by **Artisan Industries, Inc., Waltham, Mass.** FILE NO.
 (Name and address of Manufacturer)
 2. Manufactured by **The Kontro Co., Inc., Petersham, Mass.**
 (Name and address of Purchaser)
 3. Top-**Horiz.** Kind **Jktd.** Vessel No. (**80550A**) () Nat'l Bd. No. **314** Yr. Built **1963**
 (Other or Vessel (Tank, Jacket, Heat Exch.) (Mfg. Serial) (State & State No.)

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

4. SHELL Material **SA240TP304** T.S. **75,000** Thickness **1/8** in. Corrosion Allowance **0** in. Diam. **0** ft. **7** in. Length **0** ft. **6** in. **5/8**
 (Kind and Spec. No.) (Fig. or P. R. & Lowest T. S.)
 5. SLAMS: Long **DE Weld** S.R. **Yes** X.R. Sectioned **No** Efficiency **70** %
 (Weld. Det. Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No)
 Girth **None** S.R. X.R. Sectioned No. of Courses
 6. HEADS: (a) Material T.S. (b) 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) (b)
 If removable, bolts used (Material, Spec. No., T.S., Size, Number) Other fastening (Describe or Attach Sketch)

If riveted describe seams fully on reverse side of form

7. STAYBOLTS: (Material) If hollow Attachment Pitch X Diam.
 (Size of Hole) (Threaded, Welded) (Horiz.) (Vert.) (Nominal)
 8. JACKET CLOSURE: **Bar - 3/4" X 1" & Bar - 3/8" X 3/4"**
 (Describe as oval & weld, bar, etc. If bar give dimensions, if bolted, describe or sketch)

9. Constructed for **Int.** pressure of **150** psi. Max. Temp. **600** °F. Subzero **-20** °F. Hydrostatic Test **250** psi.
 Items 10 and 11 to be completed for tube sections.

10. TUBE SHEETS: Stationary. Material (Kind & Spec. No.) Diam. in. Thickness in. Attachment (Welded, Bolted)
 Floating. Material (Kind & Spec. No.) Diam. in. Thickness in. Attachment
 11. TUBES: Material O.D. in. Thickness in. or gage. Number Type (Straight or U)
 (Kind & Spec. No.)

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

12. SHELL Material **SA240TP316** T.S. **75,000** Thickness **15** in. Corrosion Allowance **0** in. Diam. **0** ft. **6** in. Length **1** ft. **10** in. **3/8**
 (Kind and Spec. No.) (Fig. or P. R. & Lowest T. S.)
 13. SLAMS: Long **DE Weld** S.R. **Yes** X.R. Sectioned **No** Efficiency **70** %
 (Weld. Det. Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No)
 Girth **None** 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) (Material, Spec. No., T.S., Size, Number) (b) Other fastening (Describe or Attach Sketch)
 (c)

If riveted describe seams fully on reverse side of form

15. Constructed for **Int.** pressure of **60** psi. Max. Temp. **600** °F. Subzero **-20** °F. Hydrostatic Test **90** psi.
 Items below to be completed for all Vessels where applicable.

16. SAFETY VALVE OUILLETS: Number Size Location
 17. NOZZLES: Purpose (Inlet, Outlet, Drain) Number Diam. or Size Type Material Thickness Reinforcement Material How Attached

Inlet	1	1" IPS	Ripple	S.S.	304 Sch. 80	None	Weld
Outlet	1						

 18. INSPECTION OPENINGS: Manholes, No. Size Location Handholes, No. Size Location Handholes, No. Size Location
 19. SUPPORTS: Supt. **PO** Legs (Number) Legs (Number) Legs (Number) Other Supports (Material & Size)

20. REMARKS: **Jacketed cone for thin-film type evaporator Kontro Co.**
JUST-O-RIM
 Form 4012 (Print reverse side of purpose of the vessel, or Air Tank, After Pumps, Jacketed Cone, etc. Also mention of code rules.) (User)

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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 14 January 19 63 Signed Artisan Industries, Inc. By: R.N. Welch
(Manufacturer)

Certificate of Authorization Expires... 31 December 1964

CERTIFICATE OF SHOP INSPECTION

Insurance Company's Serial No. 63555A
 VESSEL MADE BY Artisan Industries, Inc. at Waltham, Mass.

I, the undersigned, holding a Certificate of Competency as an Inspector of Boilers and Unfired Pressure Vessels in THE STATE OF Mass. and employed by The Mutual Boiler and Machinery Insurance Company of Waltham, Mass. inspected internally and externally, the vessel described in this report on 9 January 19 63 and certify that the statements made in this report are correct corresponding with mill test reports of materials furnished by the builders, and measurements made of the vessel and that this vessel is constructed in accordance with the ASME Code for Unfired Pressure Vessels.

Date 14 January 19 63

R. N. Welch
 Inspector's Signature

Commission N.D. 2591
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 The Mutual Boiler and Machinery Insurance Company of Waltham, Mass. 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 requirements 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

Commission
State or Nat'l Bd. # Number