

FORM U-1 MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS

As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1 **2.4M² Filter**

1. Manufactured by **GASTON COUNTY DYEING MACHINE COMPANY** **MT. HOLLY, N.C.**
(Name and address of manufacturer)
2. Manufactured for **ROSENMUND INC. - CHARLOTTE, N.C. 28208** **(3100 E. Piper Lane)**
(Name and address of purchaser)
3. Location of Installation _____
(Name and address)
4. Type **VERT.-TANK** Vessel No. **F-41308-1081-1** **EF-0046-N**
(Horiz. or vert. tank, jacketed, ht. exch.) (Mfr. Serial No.) (CRN) (Drawing)
15908 Year Built **1982**
(National Board 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 **1980** and Addenda to **12-31-80**
and Code Case No. _____ (Year) (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, mfr.'s name and identifying stamp)

(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. **(HALF PIPE COIL)**

6. Shell: Material **SA240-304** T.S. **75,000** Nominal Thickness **3/16** in. Corrosion Allowance **0** in.
Diameter **2 3/8"** I.D. in. Length **75'** Approx. ft. in.
7. Seams: Longitudinal **N/A** R.T. **NONE** Efficiency **70** %
(Welded, Double, Single, Lap, Butt) (Spot or Full)
- H. T. Temperature _____ °F Time _____ Girth **WLD SGL BUTT**
R. T. **NONE** No. of Courses **7** (Welded, Double, Single, Lap, Butt)
(Spot, Partial, or Full)

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 **2-25-82** Signed **GASTON COUNTY DYEING MACHINE COMPANY** By **J. Duncan**
(Manufacturer) (Representative)

"U" Certificate of Authorization No. **11254** Expires **1 - 31**, 19 **84**

CERTIFICATE OF SHOP INSPECTION

Vessel made by **GASTON COUNTY DYEING MACHINE COMPANY** at **MT. HOLLY, N.C.**

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 **NORTH CAROLINA** and employed by **DEPARTMENT OF LABOR** of **NORTH CAROLINA** have inspected the pressure vessel described in this Manufacturers' Data Report on **2 - 25** 19 **82** 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 **2 - 25** 19 **82** Commissions **OHIO COMM. -- PA WC. 1962**
Signed **J. Ward** (Inspector) **NC 722** **NB 6072**
(National 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 _____ 19 _____ Signed _____ (Manufacturer) By _____ (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 of Boiler and Pressure Vessel Inspectors and/or 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 _____ 19 _____ Commissions _____ (National Board, State, Province and No.)
Signed _____ (Authorized Inspector)

8. Heads: (a) Material (Spec. No., Grade) T.S. (b) Material (Spec. No., Grade) T.S.

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., Grade, Size, No.)

9. Type of Jacket **HALF PIPE COIL** Proof Test **UG-101(1)**

10. Jacket Closure (describe as ogee & weld, bar, etc.) **N/A**

If bar, give dimensions

If bolted, describe or sketch

Staybolts: (Material) If hollow (Size of Hole) Attachment (Threaded, Welded) Pitch (Horizontal) X (Vertical) Dia. (Nom.)

11. Constructed for max. allowable working pressure **100** psi at max. temp. **302** °F

Minimum temperature (when less than -20°F) °F Hydrostatic, ~~XXXXXXXXXXXX~~ test pressure ***170** psi

Items 12 and 13 to be completed for tube sections.

12. Tubesheets: Stationary Material (Spec. No., Grade) T.S. Diameter (Subject to Pressure) in. Nominal Thickness in.

Corrosion Allowance in. Attachment (Welded, Bolted) Floating Material (Spec. No., Grade)

Diameter in. Nominal Thickness in. Corrosion Allowance in. Attachment

13. Tubes: Material O.D. in. Nominal Thickness in. or gauge Number Type (Straight or "U")

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

14. Shell: Material **SA240-316** T.S. **75,000** Nominal Thickness **5/16** in. Corrosion Allowance **0** in.

Diameter **5** ft. **10 1/4** in. Length **2** ft. **8** in.

15. Seams: Longitudinal **WLD DBL BUTT** R.T. **NONE** Efficiency **70** % H.T. Temp. °F

(Welded, Double, Single, Lap, Butt) (Spot or Full)

Time Girth **WLD DBL BUTT** R.T. **NONE** No. of Courses **2**

(Welded, Double, Single, Lap, Butt) (Spot, Partial, or Full)

16. Heads: (a) Material **SA240-316** T.S. **75,000** (b) Material **SA240-316** T.S. **75,000**

Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio
(a) TOP	5/16" NOM.	0	71"	4.26	
(b) BOTTOM	1/2" NOM.				

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

(a)

(b)

If removable, bolts used (describe other fastenings) **SA193 B7, 3/4", 72**

17. Constructed for max. allowable working pressure **50/F.V.** psi at max. temp. **302** °F (Material, Spec. No., Grade, Size, No.)

Minimum temperature (when less than -20°F) °F Hydrostatic, ~~XXXXXXXXXXXX~~ test pressure ***77** psi

Items below to be completed for all vessels where applicable.

18. Safety Valve Outlets: Number **1** Size **3"** Location **TOP HEAD**

19. Nozzles:

Purpose (Inlet, Outlet, Drain)	Number	Diam. or Size	Type	Material	Nominal Thickness	Reinforcement Material	How Attached
OUTLET	1	14"	FLANGED	SA240-316	.1875		WELDED
OUTLET	1	1/2"	THD CPLG.	SA182-316	3000#		WELDED
AGITATOR	1	10"	BOLT PAD	SA240-316	1.500		WELDED
IN, OUTLET	1	10"	FLANGED	SA312 TP316	.365		WELDED
LT. PORT	1	4"	BOLT PAD	SA240-316	1.500		WELDED
IN, OUTLET	3	3"	FLANGED	SA312 TP316	.216		WELDED
IN, OUTLET	2	2"	FLANGED	SA312 TP316	.154		WELDED
IN, OUTLET	4	1 1/2"	FLANGED	SA312 TP316	.145		WELDED
OUTLET	1	1"	FLANGED	SA312 TP316	.133		WELDED

20. Inspection Openings: Manholes No. **1** Size **22"** Location **TOP HEAD**

Handholes No. **1** Size **10"** Location **SHELL (NOZZLE 4 ABOVE)**

Threaded No. Size Location

21. Supports: Skirt **NO** (Yes or No) Lugs **0** (No.) Legs **0** (No.) Other (describe) **2 - BOTTOM BEAMS.**

Attached (where and how)

22. Remarks: ***PROOF TEST PER UG-101(1) (HALF PIPE COIL & FLAT BOTTOM)**