

## FORM U-1 MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS

as required by the provisions of the ASME Code rules, Section VIII, Division 1

8M<sup>2</sup> JKT. FILTER1. Manufactured and certified by GASTON COUNTY DYEING MACHINE CO. - HWY 27 WEST - MT. HOLLY, NC 28120

(name and address of manufacturer)

2. Manufactured for ROSENMUND, INC. - P.O. BOX 668625 - CHARLOTTE, NC 28208-8625

(name and address of purchaser)

3. Location of installation UNKNOWN

(name and address)

4. Type VERT. JKT. TANK F80816A-191-1

(horiz. or vert. tank)

(MFR's serial no.)

(CRN)

E3600589(B)

(drawing no.)

22124

(MFR's Bd. no.)

1991

(year built)

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 Code, Section VIII, Division 1: 1989

(year)

1989

(addenda edition)

(Code Case no.)

(special service per UG-120(d))

Items 6-11 inclusive to be completed for jackets of jacketed vessels, ~~SKIN PASS EXCHANGERS~~ HALF PIPE COIL.6. Shell: SA240-304  
SA403-304L  
SA312-304L WELDED

(mat'l spec. no., grade)

.134 / .120

(nom. thickness (in.))

0

(corr. allow. (in.))

2.232"

(dia. ID (ft. &amp; in.))

(length (overall) (ft. &amp; in.))

7. Seams:

(long. (dbl., singl.))

(RT (spot or full))

(eff. (%))

(MT temp. (°F))

(time)

WLD SGL BUTTNONE

(RT (spot, partial, or full))

(no. of courses)

8. Heads: (a)

(mat'l spec. no., grade)

(b)

(mat'l 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)										
(b)										

If removable, bolts used (describe other fastenings):

(mat'l spec. no., gr., size, no.)

9. Type of jacket: HALF PIPE COIL Proof test:10. Jacket closure: FLANGED ENDS If bar, give dimensions: If bolted, describe or sketch.

(describe as cage &amp; weld, bar, etc.)

11. MAWP: 150/FULL VACUUM psi at max. temp. 370 °F. Min. design metal temp. -20 °F at FV/150 psi.Hydro., ~~SKIN PASS EXCHANGER~~ test press. 240 psi.

Items 12 and 13 to be completed for tube sections.

12. Tubesheets:

(stationary mat'l spec. no., gr.)

(dia. (in.) (subject to pressure))

(nom. thickness (in.))

(corr. allow. (in.))

(attachment (welded, bolted))

(floating mat'l spec. no., gr.)

(dia. (in.))

(nom. thickness (in.))

(corr. allow. (in.))

(attachment)

13. Tubes:

(mat'l spec. no., gr.)

(OD (in.))

(nom. thickness (in. or gauge))

(no.)

(type (straight or U))

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

14. Shell: SA240-304

(mat'l spec. no., gr.)

3/8"

(nom. thickness (in.))

0

(corr. allow. (in.))

10' 9"

(dia. ID (ft. &amp; in.))

4' 9/16"

(length (overall) (ft. &amp; in.))

15. Seams:

WLD DBL BUTT

(long. (dbl., singl.))

NONE

(RT (spot or full))

70%

(eff. (%))

N/A

(MT temp. (°F))

(time)

WLD DBL BUTT

(RT (spot, partial, or full))

SPOT1

(no. of courses)

16. Heads: (a)

SA240-304

(mat'l spec. no., grade)

(b)

SA240-304

(mat'l 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>TOP</u>	<u>.4375</u>	<u>0</u>	<u>123"</u>	<u>8.0</u>					<u>BOTH</u>
(b)	<u>BOTTOM</u>	<u>.375</u>	<u>0</u>						<u>129"OD</u>	

If removable, bolts used (describe other fastenings):

(mat'l spec. no., gr., size, no.)

17. MAWP: 50/FULL VACUUM psi at max. temp. 370 °F. Min. design metal temp. -20 °F at FV/50 psi.Hydro., ~~SKIN PASS EXCHANGER~~ test press. 75 psi.

## 18. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain, etc.)	Number	Dia. or Size	Type	Mat'l	Nom. Thickness	Reinforcement Material	How Attached	Location
MANWAY	1	25 1/2"	FLANGED	SA240-304	.500	SA240-304	WELDED	HEAD
AGITATOR MOUNT	1	13 3/16"	FLANGED	SA240-304	.500		WELDED	HEAD
SIGHT PORT	1	6"	PAD	SA240-304	2.250		WELDED	HEAD
LIGHT PORT	1	2"	PAD	SA240-304	1.375		WELDED	HEAD
OUTLET	1	3"	PAD	SA240-304	2.00		WELDED	SHELL
THERMOWELL	1	.875"	GLAND	SA479-316L	.5625		WELDED	SHELL
INLET	3	3"	FLANGED	SA312-304/304L	.300		WELDED	HEAD
IN, OUTLET	3	1"	FLANGED	SA312-304/304L	.133		WELDED	HEAD
IN, OUTLET	3	3"	FLANGED	SA312-304/304L	.300		WELDED	HEAD
SAFETY VALVE	1	6"	FLANGED	SA312-304/304L	.562		WELDED	HEAD
IN, OUTLET	2	2"	FLANGED	SA312-304/304L	.154		WELDED	HEAD
OUTLET	1	4"	FLANGED	SA312-304/304L	.438		WELDED	HEAD
IN, OUTLET	2	3"	FLANGED	SA312-304/304L	.134		WELDED	JACKET

19. Supports: Skin NO Lugs 0 Legs 0 Other SEE REMARKS  
(yes or no) (no.) (no.) (describe) (where and how)

20. Remarks: Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: .4375" min. x 129 3/4" OD 2 PC. HEAD- 16(a)- TRINITY IND., INC.- SER#  
(name of part item number mill's name and identifying stamp) 2-22172-1

FULL X-RAYED 2 PC. TOP HEAD E= 1.0%, SPOT X-RAYED 2 PC. BOTTOM HEAD, TOP HEAD TO SHELL  
JOINT- E=85% IMPACT TESTING NOT REQUIRED PER PAR. UHA-51, UCS-66(a) & UG-20(f).

(CONTINUED ON U-4 SUPPLEMENTARY SHEET.)

THE FOLLOWING IDENTIFICATION IS SCRIBED WITHIN 8" OF THE CODE NAMEPLATE: NB 22124 G.C.

## CERTIFICATE OF SHOP 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.

"U" Certificate of Authorization no. 11254 expires 1-31, 19 93.

Date 8-15-91 Name GASTON COUNTY DYEING MACH. CO. Signed J. M. Duncan  
(Manufacturer) (Representative)

## CERTIFICATE OF SHOP INSPECTION

Vessel constructed by GASTON COUNTY DYEING MACHINE CO. at MT. HOLLY, NC

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the state or province of NORTH CAROLINA and employed by LUMBERMENS MUTUAL CASUALTY CO.

of ILLINOIS have inspected the pressure vessel described in this Manufacturers' Data Report on 8-12, 19 91, 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 8-16-91 Signed R. W. Roberts Commissions NB 10523 B NC 1187  
(Authorized Inspector) (Nat'l Bd. Incl. endorsements) state, prov. and no.

## CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE

We certify that the field assembly construction of all parts of this vessel conforms with the requirements of Section VIII, Division 1 of the ASME BOILER AND PRESSURE VESSEL CODE.

"U" Certificate of Authorization no. \_\_\_\_\_ expires \_\_\_\_\_, 19 \_\_\_\_\_

Date \_\_\_\_\_ Name \_\_\_\_\_ Signed \_\_\_\_\_  
(Assembler that certified and constructed field assembly) (by representative)

## CERTIFICATE OF FIELD ASSEMBLY INSPECTION

I, the undersigned, holding a valid commission issued by The National Board of Boiler 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 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 \_\_\_\_\_ Signed \_\_\_\_\_ Commissions \_\_\_\_\_  
(Authorized Inspector) (Nat'l Bd. Incl. endorsements) state, prov. and no.

## FORM U-4 MANUFACTURERS' DATA REPORT SUPPLEMENTARY SHEET

as required by the provisions of the ASME Code rules, Section VIII, Division 1

129 3/4" O.D.

8M<sup>2</sup> JKT. FILTER

1. Manufactured and certified by GASTON COUNTY DYEING MACHINE CO.- 27W.- MT. HOLLY, NC 28120  
(name and address of manufacturer)
2. Manufactured for ROSENMUND, INC.- P.O. BOX 668625- CHARLOTTE, NC 28208-8625  
(name and address of purchaser)
3. Location of installation SAME AS LINE 2  
(name and address)
4. Type: HORIZ. JKT. TANK F80816A-191-1 E3600598(B) 22124 1991  
(horiz., vert., tank, etc.) (mfr's serial no.) (CRN) (drawing no.) (Nat'l. Bd. no.) (year built)

Data Report Item Number	Remarks
18.	OUTLET-10- 1 1/2"- FLANGED- SA312-304/304L- .145- WLD. HEAD
	OUTLET- 4- 2"- FLANGED- SA312-304/304L- .154- WLD- HEAD
20.	REMARKS:
	THE FLAT BOTTOM IS STRUCTURALLY SUPPORTED WITH (5) 12 WF X 120#, SA36. BEAMS- (2)12 I X 31.8# BEAMS, SA36 AND CONTINUATION OF THE SHELL. THE VESSEL RESTS ON TWO OF THESE BEAMS.
	THE INNER HEATED FILTER BED JACKET IS NOT INCLUDED IN THE CODE CERTIFICATION & STAMPING.
	8-12-91

Date 8-15-91 Name GASTON COUNTY DYEING MACHINE CO. Signed [Signature]  
(manufacturer) (representative)

Date 8-16-91 Signed [Signature] Commissions NB 10523 B NC 1187  
(Authorized Inspector) (Not Bd incl. endorsements) state, prov. and no.)

# FORM R-1 REPORT OF REPAIR

in accordance with provisions of the National Board Inspection Code

1. Work performed by SAKE MARSHALL LLC (name of repair organization) 2912 S. HICKORY ST. CHATTANOOGA TN. 37401 (address) 3-093 (Form R No.)
2. Owner SOFIX CORPORATION (name) 2900 RIVERPORT ROAD CHATTANOOGA TN 37406 (address)
3. Location of installation SOFIX CORPORATION (name) 2900 RIVERPORT ROAD CHATTANOOGA TN. 37406 (address)
4. Unit identification PRESSURE VESSEL (boiler, pressure vessel) Name of original manufacturer CASTON COUNTY DYER MACHINE
5. Identifying nos.: F80816A-F1-1 22124 (mfg serial no.) 22124 (National Board No.) 1991 (year built)
6. NBIC Edition/Addenda: 2001 (edition) 2001 (addenda)  
Original Code of Construction for Item: ASME SEC VIII DIV 1 (name/section/division) 1999 ED. 1999 ADD (edition/addenda)  
Construction Code Used for Repair Performed: ASME SEC VIII DIV 1 (name/section/division) 2001 ED. 2001 ADD (edition/addenda)
7. Repair Type: ☒ Welded ☐ Graphite Pressure Equipment ☐ FRP Pressure Equipment
8. Description of work: DRILL OUT LEAKING BOLT HOLES, BOTTOM TRAY INTO STEAM JACKET. 4 PLACES WELD 3/4" 316 BAR STOCK, RE DRILL AND TAP FOR TRAY BOLTS. (use supplemental sheet, Form R-4, if necessary)  
Pressure Test, if applied 100 psi MAWP 150/FULL VAC psi
9. Replacement Parts. Attached are Manufacturer's Partial Data Reports or Form R-3s properly completed for the following items of this report:  
(name of part, item number, data report type, mfr's. name and identifying stamp)
10. Remarks: TESTED WITH 100 PSI NZ ON BOTTOM STEAM JACKET WITH 2" WATER IN VESSEL

## CERTIFICATE OF COMPLIANCE

I, MIKE WILLIAMSON, certify that to the best of my knowledge and belief the statements in this report are correct and that all material, construction, and workmanship on this Repair conforms to the National Board Inspection Code.  
National Board "R" Certificate of Authorization No. 1432 expires on NOV. 17 2003  
Date 11/18 2002 SAKE MARSHALL LLC Signed Mike Williamson  
(name of repair organization) (authorized representative)

## CERTIFICATE OF INSPECTION

I, STEVE ALEXANDER, holding a valid Commission issued by The National Board of Boiler and Pressure Vessel Inspectors and certificate of competency issued by the jurisdiction of TENNESSEE and employed by ARISE, INC. of CLEVELAND, OHIO have inspected the work described in this report on 11-5-2002 and state that to the best of my knowledge and belief this work complies with the applicable requirements of the National Board Inspection Code.  
By signing this certificate, neither the undersigned nor my employer makes any warranty, expressed or implied, concerning the work described in this report. Furthermore, neither the undersigned nor my employer shall be liable in any manner for any personal injury, property damage or loss of any kind arising from or connected with this inspection.  
Date 11-18-2002 Signed [Signature] Commissions NB-12488A, TN-3499  
(inspector) (National Board and jurisdiction, and no.)