

FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS  
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

VPF# 37711WN  
E-2203-25

1. Manufactured and certified by Joseph Out Corp. 2500 Broadway Camden N.J.  
(Name and address of manufacturer)
2. Manufactured for CAPE INDUSTRIES WILMINGTON, North Carolina  
(Name and address of purchaser)
3. Location of Installation HANOVER PLANT 104126  
(Name and address)
4. Type HORIZ. 8234 - 8978 2743 1989  
(Horiz. or vert. tank) (Mfg's serial No.) (CRN) (Drawing) (Nat'l. Bd. No.) (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 Rules, Section VIII, Division 1 1986  
Year
- 1987 - -  
Addenda (date) Code Case No. Special service per UG-120(d)

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

6. Shell: SA-240-316 5/8 1/8 0 3' 10 1/2" 24' 9"  
Matl. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft & in.) Length (Overall) (ft & in.)
7. Seams: DBL. FULL 100 -  
Long. (Dbl., Sngl.) R.T. (Spot or Full) Eff. (%) H.T. Temp. (°F)
- DBL. FULL 2  
Time Girth (Dbl., Sngl.) R.T. (Spot, Partial, or Full) No. of Courses
8. Heads: (a) Matl. SA-240-316 5/8 (b) Matl. -  
(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>END</u>	<u>.824</u>	<u>0</u>	<u>-</u>	<u>-</u>	<u>2:1</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>CONCAVE</u>
(b)	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>

If removable, bolts used (describe other fastenings)

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

9. Type of Jacket - Proof Test -
10. Jacket Closure - If bar, give dimensions - If bolted, describe or sketch -  
(Describe as ogee & weld, bar, etc.)
11. MAWP 600 psi at max. temp. 600 °F. Min. design metal temp. -20 °F at 600 psi.  
Hydro., pneu., or comb. test press. 900 psi.

Items 12 and 13 to be completed for tube sections

12. Tubesheets: SA-240-316 3' 10 1/2" 6 1/4 0 WELDED  
Stationary Matl. (Spec. No., Gr.) Diam. (in.) (Subject to pressure) Nom. Thk. (in.) Corr. Allow. (in.) Attach. (Welded, Bolted)
- - - - -  
Floating Matl. (Spec. No., Gr.) Diam. (in.) Nom. Thk. (in.) Corr. Allow. (in.) Attach.
13. Tubes: SA-249-316L 3/4 .083 606 "U"  
Matl. (Spec. No., Gr.) O.D. (in.) Nom. Thk. (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: SA-240-316 1/8 0 3' 10 1/2" 31"  
Matl. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft & in.) Length (Overall) (ft & in.)
15. Seams: DBL. FULL 100 -  
Long. (Dbl., Sngl.) R.T. (Spot or Full) Eff. (%) H.T. Temp. (°F)
- - - 1  
Time Girth (Dbl., Sngl.) R.T. (Spot, Partial, or Full) No. of Courses
16. Heads: (a) Matl. - (b) Matl. SA-105  
(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>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>
(b)	<u>END</u>	<u>0</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>55</u>	<u>FLAT</u>

If removable, bolts used (describe other fastenings)

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

17. MAWP 600 psi at max. temp. 600 °F. Min. design metal temp. -20 °F at 600 psi.  
Hydro., pneu., or comb. test press. 900 psi.

## Form U-1 (Back)

### 18. Nozzles, Inspection and Safety Valve Openings:

[illegible]

19. Supports: Skirt No Lugs - Legs - Other SADDLES Attached Welded to shell  
(Yes or no) (No.) (No.) (Describe) (Where and how)

20. Remarks: Manufacturer's 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)

ESTERIFIKER      PREHEATER

### 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. 184 expires 12/12, 1991  
 Date 7-25-89 Co. name Joseph Ont Corp. Signed Lester A. Karcher  
 (Manufacturer) (Representative)

## CERTIFICATE OF SHOP INSPECTION

Vessel constructed by Joseph Out Corp at 2500 Broadway Camden N.J.

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 PA. and employed by H. S. B. I. & I. Co.

of Hartford Conn. have inspected the pressure vessel described in this Manufacturer's Data Report on 7/28, 19 84, 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 Manufacturer's 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 7/29/89 Signed [Signature] Commissions NB9076 PA2325  
(Authorized Inspector) (Nat'l Board, State, Province and/or)

## 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 \_\_\_\_\_ Co. name \_\_\_\_\_ Signed \_\_\_\_\_

### 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 of Pennsylvania of \_\_\_\_\_ and employed by: VENDOR 377111111 8/09

of \_\_\_\_\_ PRINT FILE 37711WN DATE 9/83

with the described pressure vessel and state that parts referred to as data items \_\_\_\_\_  
certificate of shop inspection, have been inspected by me and that, to the best of my \_\_\_\_\_  
SHEET 5 EQUIPMENT NOS. 6-2203-25 in the \_\_\_\_\_  
\_\_\_\_\_

bled this pressure vessel in accordance with ASME Code, Section VIII, Division 1. The PROJECT & ACCOUNT NOS. 27-8137 4014

vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor the Manufacturer shall be held liable for any injury or property damage or a loss of any kind arising from or connected with this inspection.

PURCHASE ORDER NO. P75489

Date \_\_\_\_\_ Signed \_\_\_\_\_ **FREE INDUSTRIES**

REVIEWED -  
DRAFTING DESIGN

APPROVED - *Z. P. Mox*  
ENGINEER

#104126

		2743	
U			
W			
1.	600		600
	20		600
1.	600		600
	20		600
1989		J8234	