## FORM U-1 MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS As required by the provisions of the ASME Code Rules, Secondary VIII, Division I

	Welded
	Welded
	Welded
B 1 3" " SA53GRB " SCH 80 "	Welded
A-C 2 6" Pipe SA312T304 SCH 40 None	
Purpose (Inlet, Outlet, Drain) Number Diam. or Size Type Material Thickness Material	How Attached
17. NOZZLES - CONTRACTOR AND	
Items below to be completed for all vessels where applicable.  16. SAFETY VALVE OUTLETS: Number  Size  Location In Pip	ina
allowable working press. <sup>2</sup> 150 psi at max. temp. 375°F. less than -20°) - °F. Combination Press	
15. Constructed for max.  Min. temp. (when Test	
Other fastening (Describe or Attack	Sketch)
(Material, Spec. No., T.S., Size, Number)	
If removable, bolts used (a) SA193 B7 32 3/411 10UNC (b) SA193 B7 32 3/411	1 OUNC
(b) Channel (c) Floating	
	Concave
Crown Knuckle Elliptical Conical Hemispherical Flat S	ide to Pressure
Girth <u>DBW</u> H.T. <u>No</u> R.T. <u>Spot</u> <u>Sectioned No</u> No. of courses <u>2</u> 14. HEADS (a) Material <u>SA240T304</u> T.S. <u>75000</u> (b) Material <u>Same</u> T.S (c) Material T.S.	
in the second of	verse side of
13. SEAMS: Long DBW H.T. No R.T. Spot Sectioned No Efficiency 85 % (Welded, Dbl., Single, Lap, Butt) (Yes or No) (Spot or Complete) (Yes or No)	scribe seams fully on re-
(Kind and Spec. No.) (Fig. or F.B. & Spec. Min. T.S.)	If riveted de-
Items 12-15 incl. to be completed for inner chambers of jacketed vessels of channels of heat exchangers.  12. SHELL Material SA240T304 T.S. 75000 Thickness 1/2 In. Allowance 0 In. Diam. 2 Ft. In. Leng (Fig. or F.B. & Spec. Min. T.S.)	1 F 9 F
Items 12-15 incl. to be completed for inner chambers of jacketed vessels, 95 channels of heat exchangers.	traight or U)
11. TUBES: Material T304 O.D. 3/4 In. Thickness 16 57 Gage Number 667 Type S	traight
Floating. Material (Kind & Spec. No.)  SA249	nt
Vestal Well and Control of Conject to Pressure)  Vestal well and Conject to Pressure)	(Welded, Bolted)
Items 10 and 11 to be completed for tube sections.  10. TUBE SHEETS: Stationary. Material SA240T304 Diam. 28 In. Thickness In. Attachme (Subject to Pressure)	nt_Welded
	262.5 psi.
9. Constructed for max. allowable working press 2 175 psi at max. temp. 375 °F. less than -20°) - °F. Combination Press	n i inin
8. JACKET CLOSURE: (Describe as ogee & weld, bar, etc. If bar, give dimensions, if bolted, describe or sketch)	
7. STAYBOLTS: If hollow Attachment (Size of Hole) (Threaded, Welded) Pitch X (Vert.)	(Nominal)
If removable, bolts used (Material, Spec. No., T.S., Size, Number) (Describe or Attach Sketch)	State 1
(b)	
(Top, bottom, ends) Thickness Radius Radius Ratio Apex Angle Radius Diameter (Con	nvex or Concave)
6. HEADS (a) Material T.S. (b) Material T.S.  Location Crown Knuckle Elliptical Conical Hemispherical Flat S.  (Top, bottom, ends) Thickness Radius Radius Ratio Apex Angle Radius Diameter (Conical	
Girth DBW H.T. No R.T. Spot Sectioned No No. of Courses 2	verse side of
5. SEAMS: Long DBW H.T. No. R.T. Spot Sectioned No Efficiency 85 % (Welded, Dbl., Single, Lap, Butt) (Yes or No) (Spot or Complete) (Single, Lap, Butt) (Yes or No) (Spot or Complete)	fully ; on re-
4. SHELL: Material SA285GRC T.S. 55000 Thicknes 5/16 In. Allowance In. Diam. 2 Ft. In. Le	If riveted de-
Nominal Corrosion 8 4-5/8  A SUFI L. Massiel SA 285 GRC TS 55000 Thickness 1/16 in Allowance in Diam 2 Ft. In L.	engell 2 Fr Ole
3. Type Horiz. Kind Heat Exch. Vessel No. (2127-3A) ( ) Natl. Bd. No. 612 Yr. Bu (Mfrs. Serial) (State & State No. (State No. (State & State No. (State & State No. (State No.	ilt _1973
2. Manufactured for Hercules, Inc. Wilmington, North Carolina (Name and address of Purchaser)	
1. Manufa Cared by Joseph Oat & Sons, Inc. Camden, New Jersey (Name and address of Manufacturer)	
As required by the ovisions of the Asiac Code Rules, 50 in VIII, Division 1	04327

If postweld heat-treated. List under remarks other internal or external pressures with coincident temperature.

meaning appropriate the second section of the second section of the second section of the second section secti FORM (U-1 (back) . 24) , and 3 150 rigared themselved to the tercules, lac. William to the tercules and the control of the c 18. INSPECTION Manholes, No. Location Location. OPENINGS: Handholes, No. 3/411 Location Exp. Jt. & Nozzles A-C Threaded, No. \_ 19. SUPPORTS: Skirt No (Number) 20. REMARKS: Vessel is a Pure Melter Heater constructed to Oat Dwg. 5258-5259 Channels have steam jkts. Hydrostatic tested ASME Code Section VIII Equipment No. E-6513-6A (Brief description of purpose of the vessel, as Air Tank, After Cooler, Jacketed Cooker, etc. State contents of each part.) 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 I. 19 73 Signed Joseph Oat & Sons, (Manufacturer) Certificate of Authorization Expires\_ CERTIFICATE OF SHOP INSPECTION at <u>Camden, New Jersey</u> VESSEL MADE BY Joseph Oat & Sons, Inc. I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province N. J. and employed by Royal Indemnity Company have inspected the pressure vessel described in this manufacturer's New York, New York 1973, and state that to the best of my knowledge and belief, the manufacturer has constructed this pressure vessel in accordance with the applicable sections of the ASME Boiler and Pressure Vessel Code. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this 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. ... 10 SECT Nat'l Board, State, or Province and No. Inspectors Signature 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 \_\_\_\_\_ and employed by the State or Province\_ have compared the statements in this manufacturer's 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 the applicable sections of the ASME Boiler and Pressure vessel Code. The described vessel was inspected and subjected to a hydrostatic test of By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this 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. Commissions Nat'l Board, State, or Province and No. Inspector's Signature

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