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

1. Manufactured and certified by De Dietrich, J rue d'Offmiller, 67110 Zinswiller
 Manufactured for Morck & Co., Linden Ave. Gate/313g, 535, Linden, NJ 07036
 2. Location of installation same
 4. Type: Vertical Reactor SA 1000 Gallons 35350
N/A SA 1000 L 5997 1993
 5. ASME Code, Section VIII, Div. 1 Edition 1992 - Addenda N/A N/A N/A

Items 6-11 incl. to be completed for single shell vessels, jackets of jacketed vessels, shell of heat exchangers, or chambers of multi-chamber vessels
 6. Shell (a) No. of courses: 1 (b) Overall length ft & in.: 5 ft. 11-1/16"

No.	Course		Material	Thickness (in.)		Long. Joint (Cat. A)			Circum. Joint (Cat. A, B & C)			Heat Treatment	
	Diameter, in.	Length ft & in.		Min.	Max.	Weld	Weld Spec. Name	ER	Type	Weld Spec. Name	ER	Temp.	Time
1	5 ft.	5 ft.	SA 285 B	27/64	None	1	Spot	0.85	1	Spot	0.85	N/A	N/A
	5-15/16	11-11/16											

7. Heads: (a) SA 285 B (b) N/A

No.	Location (Top, Bottom, End)	Thickness (in.)		ER Joint	Corros. Allowance	Non-ferrous	Weld	Side to Process		Category A		
		Min.	Max.					Corros.	Exposure	Type	Weld Spec. Name	ER
(a)	Bottom	15/32	None	66.92	6.67	N/A	N/A	No	Yes	N/A	N/A	N/A
(b)												

If removable, bolts used (describe other fastening) N/A
 Type of jacket Type 2, per Fig. 9.2 Jacket closure Fig. 9.5 (b-2) and Fig. 9.6 (e-2)

If des. give dimensions N/A If holed, describe or sketch
 8. MWP 90 or 90GP N/A psi at max. temp. 500 N/A of Min. design metal temp. -20 °F or 90 °C

9. Impact test No impact testing required as per U-20 (E), UCS-66 (a), UCS-66 (b)

10. Hydro. test press. 135 N/A Fluid test N/A

Items 12 and 13 to be completed for tube sections.
 12. Tubesheet: N/A
 13. Tubes: N/A

Items 14-18 incl. to be completed for inner chambers of jacketed vessels or chambers of heat exchangers.
 14. Shell (a) No. of courses: 1 (b) Overall length ft & in.: 5 ft. 4-7/16"

No.	Course		Material	Thickness (in.)		Long. Joint (Cat. A)			Circum. Joint (Cat. A, B & C)			Heat Treatment	
	Diameter, in.	Length ft & in.		Min.	Max.	Weld	Weld Spec. Name	ER	Type	Weld Spec. Name	ER	Temp.	Time
1	5 ft.	5 ft.	SA 285 B	45/64	None	2	Spot	0.85	1	Spot	0.85	*	*
	3"	4-7/16											

15. Heads: (a) SA 285 B * (b) SA 285 B *

No.	Location (Top, Bottom, End)	Thickness (in.)		ER Joint	Corros. Allowance	Non-ferrous	Weld	Side to Process		Category A		
		Min.	Max.					Corros.	Exposure	Type	Weld Spec. Name	ER
(a)	Top	25/32	None	50.78	9.64	N/A	N/A	No	Yes	N/A	N/A	N/A
(b)	Bottom	25/32	None	50.78	9.64	N/A	N/A	Yes	Yes	N/A	N/A	N/A

If removable, bolts used (describe other fastening) N/A

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FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET
 As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by De Dietrich, 1 rue d'Offwiller, 67110 Zinswiller
(Name and address of Manufacturer)

2. Manufactured for Parck & Co., Linden Ave., Gate Bldg. 535, Linden, NJ 07036
(Name and address of Purchaser)

3. Location of installation same
(Name and address)

4. Type: Vertical Reactor SA 1000 Gallons 35350
(Type, vert. or horiz.) (Mark required, required, etc.) (ASME Code No.)

H/A SA 1000 L 5997 1993
(Code) (Drawing No.) (Code, Sec. No.) (Year built)

Date Report Item Number _____ Remarks _____

19. Nozzles, inspection and safety valve openings :

Jacket I/O :

No.	Diameter or size	Flange type	Thickness	Material	How attached
2	3"	3000 LB. NPT.	Standard	SA 11B	welded
2	2"	3000 LB. NPT.	Standard	SA 105	welded
6	1-1/2"	3000 LB. NPT.	Standard	SA 105	welded
1	3/4"	3000 LB. NPT.	Standard	SA 105	welded
1	1/2"	3000 LB. NPT.	Standard	SA 105	welded

Remarks *Vessel H.T. at high temperature for extended period of time due to glass lining process.

**Cat. C - R.C. Sp. UW-11 (b) - Eff. Q.85

10" dia. inlet cover contains one 1/2x16" dia. manhole (with cover containing 4" dia. sight glass), one 4-3/8" dia. nozzle and two 3" dia. nozzles (material SA 151-EC).

4 liftings lugs welded on top head and jacket head.

I/O = Inlet/Outlet.

Safety relief valve to be supplied and installed by customer as per UC-125 (h).

glass lined steel vessel for chemical use.

Certificate of Authorization: Type U No. 11713 Expires April 19 95

Date Jan. 26, 1993 Name De Dietrich Manufacturer Signed [Signature]

Date Jan. 26, 1993 Name Martin KOEHLER Manufacturer Commissioned NB Comm. 4354 NB N.Y. 2957

(12/91) This form (ECC116) may be obtained from the ASME Order Dept., 22 Law Drive, Box 2900, Fairfield, NJ 07007-2900 REPRINT \$10

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P. 04