FORM U-I MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS 1003 As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1 1. Manufactured and certified by ___Industrial Alloy Fabricators, Inc. 2345 Quince St. Forest Grove, OR 97116 (name and address of manufacturer) 8. Manufactured for DEDERT CORP. 20,000 GOVERNORS DRIVE OLYMPIA FIELDS, IL 60461-1074 (name and address of purchaser) 3. Lesation of installation UNKNOWN (name and address) NA D-1894 R2A 1616 1994 **HEAT EXCHANGER** D-1894 VERTICAL 4. Type: (horiz., yert., or sphere) (Tank, separator, jkt. vessel, heat exh., etc) (Mfg's serial No.) (CRN) (Drawing No.) (Nat'l Bd. No.) (Year built) 1992 Edition 92 Addenda NA NA 5. ASME Code, Section VIII, Div. 1 Edition and Addenda (date) Code Case No. Special Service per UG-120(d) items 8-11 Incl. to be completed for single wall vessels, jackets of jacketed vessels, shell of heat exchangers, or chamber of multi-chamber vessels. (b) Overall length (ft & in.): 30'-0 ' 8 e. Shell (a) No. of course(s): Course(s) Circum, Joint (Cat. A, B & C) Heat Treatment Material Thickness Long Joint (Cat A) Type Full.Spot, None Eff. Type Full, Spot, None Eff. Temp. Time No. Diameter, in. Length (ft & in.) Spec./Grade or Type Nom. Corr. 0" 70% NA NA 3/16" NONE 70% NONE 8 27° OD 30-0 SA-240 316L 1 NA NA NA NA 7. Heads: (a) (Mat'l Spec. No., Grade or Type) H.T.-Time & Temp (Mat'l Spec. No., Grade or Type)H.T.-Time & Temp Thickness Conical Flat Side to Pressure Radius Ettiptical Hemi. Location (Top. Category A Apex Angle Radius Diameter Convex Concave Type Full, Spot, None Eff. Ratio Bottom, Ends) Min. Corr. Crown Knuckle NA (a) (b) NA If removable, boits used (describe other fastening) (Mat'l Spec. No., Grade, Size, No.) FLAT PLATE BUSTLE Weld Bar Jacket closure 8. Type of jacket (Describe as ogee & weld, bar, etc.) 3/8" x 27" ID x 33" OD If bolted, describe or sketch. If bar, give dimensions 275 30 -15 psi at max. temp. 275 deg F Min. design metal temp. 0 deg F at 30/-15 psi. (internal) (external) (internal) (external) 10. Impact test required per: UHA-51(a) (Indicate yes or no and the component(s) impact tested) Proof test NA 11. Hydro., Pneu., or comb. test press. Hydro @ 60 psi Items 12 and 13 to be completed for tube sections. 12. Tubesheet: Stationary (Mat'l Spec. No.) 0" 1* 2'-2-5/8" SA-240 316L Corr. Allow , in. Attachment (welded or boiled) Nom. thk , in. Dia., in. (subject to press.) NA Dia., in. Floating (Mat'l Spec. No.) Nom. thk., in. Corr. Allow., in. Attachment 1-1/2" Straight SA-249 TP316L .049* 130 O.D., In Nom thk., in or gauge Number Type (Straight or U) Mat'l Spec. No., Grade or Type Items 14-18 incl, to be completed for inner chambers of jacketed vessels or channels of heat exchangers. 14. Shell (a) No. of course(s): 2 (b) Overall length (ft 8 in.): 2'-8°

	Course	(s)	Material Thickness			Long Joint (Cat A)				Circum, Joint (Cat. A. B & C)			Heat Treatment	
No.	Diameter, in.	Length (ft & in.)	Spec./Grade or Type	Nom.	Corr.	Type	Full, Spot. None	EH.	Туре	Full, Spot. None	Eff.	Temp.	Time	
2	27° OD	2'-8"	SA-240 316L	3/16"	0"	1	NONE	70%	1	NONE	70%	NONE	NA	
NA					T								3,1	
NA		-												

c. No., Grade or Type) H.T.-Time & Temp SA-516 70 * 15. Heads: (a)

		(A	Aat'l Spe	c. No., Gr	ade or Typ	e) H.TTime 8	Temp			(Mat'l Spe	c. No., Gra	de or Typ	e) H.TTime & T	emp
	Location (Top.	Thick	ness	Rad	iue	Elliptical	Conical	Hemi.	Flat	Side to Pressure		Category A		
	Bettom, Ends)	Min.	Corr	Crown	Knuckle	Ratio	Apex Angle	Radius	Diameter	Convex	Concave	Туре	Full.Spot, None	EH.
(0)	TOP	1.04"	0*	NA	NA	NA	NA	NA	33*	NO	NO	NONE	NA	100%
(b)	BOTTOM	1.04"	0.	NA	NA	NA	NA	NA	33"	NO	NO	NONE	NA	100%

(Mat'l Spec No. Grade Size No.)

SA-193 B7 5/8" diameter 28 required (EACH END) If removable, boils used (describe other fastening)

Similar to form obtained from:

NB-26

The National Board of Boiler and Pressure Vessel Inspectors, 1055 Crupper Ave., Columbus., OH 43229

Rev. 10

FORM U-1 (back)

16. MAWP	3	0 -15	yternal)	si at max. temp. 2		(ernal)	eg F Min	design metal te	mp U da	9 . 61 30	and alone arreading
17. Impact test			CT TEST	REQUIRED PER	R: UHA-51(a)	-		and the state of the state of the state of	angiganist a sprincetillation com	
18. Hydro., Pneu		r comb test pr	61		icate yes or no an Proof test	NA	onent(s) impact tested)			
19. Nozzies, ins			- Commence of the Commence of							and the same of the same of	
Purpose (Inlet,		Diameter	Flange	Material		Nozzie T	-	Reinf.	How Att	promised to the state of the	Leesten
Outlet, Drain,)	No		Туре	Nozzle	Flange	Nom.	Corr.	Material	Nozzle	Flange	Unes Open)
IN/OUT	-	10" IPS	150# LJ	SA-240 316L	SA-105	3/16"	0"	INTEGRAL	WELDED	DOMESTIC CONTRACTOR OF THE PARTY OF THE PART	NA
OUTLET	1	3" IPS	150# LJ	SA-312TP316L	SA-105	.216"	0.	INTEGRAL	WELDED	ACTORNOL ACTORNOL DE	NA
VENT	1	2" IPS	150# LJ	SA-312TP316L	SA-105	.154"	0.	INTEGRAL	WELDED	THE PARTY NAMED IN COLUMN TWO IS NOT THE OWNER.	NA
INLET	1	4" IPS	150# 山	SA-312TP316L	SA-105	.237"	0"	INTEGRAL	WELDED	LOOSE	NA
VNT/DRAIN	4	1" IPS	CPLG	SA-182 F316L	NA	3000#	0"	INTEGRAL	WELDED	NA	NA
SGT GLASS	1	6" IPS	PAD	SA-240 316L	NA	1"	0"	INTEGRAL	WELDED	NA	NA
GAUGE	1	1/2" IPS	CPLG	SA-182 F316L	NA	3000#	0"	INTEGRAL	WELDED	NA	NA
20. Supports: Sk	irt	No	Lugs	NA Legs	NA	Others	SUPP	ORT RING	Attached	SHELLA	WELD
		(Yes or No		(No.)	(No.)			(Describe)		(Where	and Hew)
				dentified and signed b		Inspectors	have be	en furnished for	the following	its ms of the	0 / 00 0/1
water and the same	of	part, item num	ber, mig's, nam	e and identifying num	(ber)						
NA							****		····	supplied the same of the same	and the second second
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CHANNEL S	SID	E HAS AN	INTERNAL	PASS PARTIT	TION PLATE.						

			CERT	IFICATE OF SHO	OP COMPLIAN	ICE					
We certify the	at th	e statements r	nade in this rep	ort are correct and th	at all details of det	sign, mater	ial. cons	truction, and wor	kmanship of	this vessel	conform to
The second of the second of the second				VIII. Division 1.							
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Manufactured	and	d certified by	Indust	rial Alloy Fabr	cators, Inc	dress of man	uince	St. Fores	t Grove,	OR 9/1	16
Manufactured	for	DEDERT	CORP.	20,000 GOV	RNORS	RIVE O	LYMP	IA FIELDS	, IL 6046	61-1074	
				(n	ame and addres	s of purchase	r)				
Location of in	stali	ation UNK	NOWN		(name and ac	idress)					
Type:		VERTICA	L		EAT EXCH	D-1894					
		(horiz., vert., or	sphere)	(Tank, se	parator, jkt. vesse	, heat exh etc)			(Mfg's seri	al No.)	
		NA		D	1894 R2A			1616		19	94
	-	(CRN)		(0	rawing No)			(Nati Bd N	0.)	(Y •	ar built)
Data Re	port	and the same of th					- HORES				
Item Nu	_	middle of the second second second second				Remarks					
Form Item	-		Noz	zles, inspection	and safet	v valve or	ening	s:			
Purpose (Inlet,	10	Diameter	Flange	Material		Nozzie	Thk.	Reinf.	How Att		Location
Dutlet, Drain.)	No		Туре	Nozzie	Flange	3/16°	O*	INTEGRAL	WELDED	Flange NA	NA (Insp. Open
VPR DUCT	1	10-3/4" OD	STUB	SA-240 316L	NA .	3/16	10	INTEGRAL	WELDED	100	1.01
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Certificate of A	utho	rization:	Туре	U	No 12	2,619		Expires	April 30	.19	96
								-	200	11	1
	~	94	Name	industrial Alloy	Fahricators	inc		Signed	1 600	1//1.	-/11

Similar to form obtained from: The National Board of Boiler and Pressure Vessel Inspectors, 1055 Crupper Ave., Columbus., OH 43229

NB-67

Rev. 4