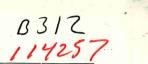
FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1



mananaona	red and certi	fied by	M THERM	IAL EQU		LTD .	ozone	PARK, I	NEW YOR	1141
Manufactu	red for	AMERI	CAN HOE	CHT COL		VENTRY	R.I.			
Location o	f installation	·			(Name an	d address)				·
Туре	HCR IZO	NTAL.		0009	(Name and		5-6462	ST (Nat'l B	741	198(;
The chemi	cal and phys	ical properties	s of all parts meet	the requiremen	its of material spe	ecifications of the				sign, construction, ar
orkmanship	conform to	ASME Rules.	Section VIII, Divis	sion 1		1983		Year	,	
	Addenda da	tel		Code Case No			Spe	cia: service per UG-1.	20 (d)	
ems 6-11 in	cl. to be com	pleted for sing	gle wall vessels. J	ackets of jacket	s of jacketed ves	ssels. or sheets of	heat exchangers	S.		
		v		120						0. 01.
Shell:	Mati (Spec	No Grade	316	. 120 Nom. Thk (in	1	Corr Allow (in)		Zt " Diam I D. (ft & in.)	(Len	8 2 2 1 1 gth (Overall) (ft & in)
Seams	NLLL	Dbl Sngl)	_							
	Long	(Dbl Sngl)		F	R T (Spot or Full)		Eff. (°°)		нт	Temp (°F)
	T-me			Girth	(Dbl . Sng!)		R.T (Spot.	Partial, or Fulli		No of Courses
Heads: (a)	Matl.	(Co	ec No Grade)			(b) Matl		Spec No Grade		
	on(Top	Minimum	Corresion	Crown	Knuckle	Elliptical	Conical	Hemispherical	Flat	Side to Pressure
+	n. Ends)	Thickness	Aowance	Radius	Radius	Ratio	Apex Angle	Radius	Diameter	(Convex or Concave
a) b)	.				h = :					
	bolts used u	describe othe	r fastenings)		1					
removable.	. DONO GOOD II		· idoto:migo/					(Matl Spec No	Gr Size No.)	
Type of Ja	cket	/ r 				,	Proof Test			1)
0. Jacket Cl	losure		(Describe as ogee 8	weld bar, etc.)	If bar. (give dimensions _			If bolte	ed, describe or sketo
0. Jacket Cl	losure		(Describe as ogee 8	weld bar, etc.)	If bar. (give dimensions _			If bolte	ed, describe or sketo
0. Jacket Ci	iosure	0	(Describe as ogee 8	s weld bar etc.)	If bar. 9	give dimensions _			If bolte	ed, describe or sketc
0. Jacket Cl	losure	0	(Describe as ogee 8 psi at ma	s weld bar etc.)	If bar. 9	give dimensions _			If bolte	ed, describe or sketc
D Jacket Ci	lydro pneu	or comb. test	Describe as ogee 8 psi at ma	s weld bar etc.)	If bar. 9	give dimensions _			If bolte	ed, describe or sketc
D Jacket Ci	lydro pneu	or comb. test	psi at ma	s weld bar etc.)	39(35	give dimensions _			If bolte	ed, describe or sketo
0. Jacket Cl	dydro pneu draf 13 to be consets: SA-Stationar	or comb. test	psi at ma t press. be sections T = 316 Dia	weid bar etc.) ax. temp. 1.7 4" am (in) (Subject to	If bar. 9	give dimensions _ °F. Nom Thk (in.)		n less than -20°	If bolte	ed, describe or sketo
Jacket Cl 1. MAWP Hems 12 and 2. Tubeshe	dydro pneu 113 to be con Stationar	or comb. test	psi at ma t press. be sections T = 3 1 6 o. Gr i Dia	weid bar etc.) ax. temp. 1.3 4.11 am. (in) (Subject to	If bar. 9	give dimensions _		n less than -20° _	If bolte	WELDED
Jacket Ci MAWP Hems 12 and Tubesher Tubesher	lydropneu 13 to be con Stationar Fical 1. A - ?	or comb. test political for tule 240 ry Matt. (Spec. N. 1996) 49 T. 3 respectively.	psi at ma t press. be sections No. Gr.) No. Gr.)	weid bar etc.) ax. temp. 1 3 am (in) (Subject to	1f bar. 9	operationsopera	fin. temp. (wher	n less than -20°	If bolte	WELDED ch (Welded, Bolted)
Jacket Cl MAWP Hems 12 and Tubeshe Tubeshe Tubeshe Tubeshe Tubeshe Tubeshe Tubeshe Tubeshe	lydropneu 13 to be con ets: SA = Stationar Foat A = 2	or comb. test political for tule 240 ry Matt. (Spec. N. 1996) 49 T. 3 respectively.	psi at ma t press. be sections T = 3 1 6 o. Gr i Dia	weid bar etc.) ax. temp. 1 3 am (in) (Subject to	1f bar. 9	operationsopera	fin. temp. (wher	Corr Allow (in)	If bolte	WELDED ch (Welded, Bolled) Attach
D. Jacket Cl 1. MAWP Hems 12 and 2. Tubeshe 3. Tubes ems 14-17	lydropneu 113 to be con ets: SA = Stationar Float A = 2	or comb. test political for tule 240 ry Matt. (Spec. N. 1996) 49 T. 3 respectively.	psi at ma t press be sections 7 - 31 () 0. Gr () - 31 () mer chambers of press of	weid bar etc.) ax. temp. 1 3 am (in) (Subject to	If bar. 9	operationsopera	Ain. temp. (when	Corr Allow (in)	If bolte	WELDED ch (Welded, Bolled)
D. Jacket Ci 1. MAWP Hems 12 and 2. Tubeshe 3. Tubes Hems 14-17 4. Shell	lydropneu 113 to be con ets: SA = Stationar Float A = 2	or comb. tesi npleted for tuli 240 y Mail (Spec N ing Mati (Spec N is (Spec No C impleted for in	psi at ma t press be sections T = 31() Dia No. Gr.) - 31; Gr.) ner chambers of j ade)	A veid bar etc.) ax. temp. 4 '' am (in) (Subject to Diam (in.) OD (jacketed vessel	If bar, 9	give dimensions OF. Nom Thk (in) Nom Thk (in or heal exchangers	flin. temp. (where	Corr Allow (in) Corr Allow (in) Number	Atta Ty	WELDED ch (Welded Bolted) Attach TRATOL!! pe (Straight or U')
D. Jacket Ci 1. MAWP Hems 12 and 2. Tubeshe 3. Tubes Hems 14-17 4. Shell	lydropneu 113 to be con ets: SA = Stationar Float A = 2	or comb. tesi inpleted for tul 240 y Mail (Spec N ing Mati (Spec N 4) 1 (Spec No C	psi at ma t press be sections T = 31() Dia No. Gr.) - 31; Gr.) ner chambers of j ade)	A veid bar etc.) ax. temp. 4 '' am (in) (Subject to Diam (in.) OD (jacketed vessel	If bar. 9	give dimensions OF. Nom Thk (in) Nom Thk (in or heal exchangers	Ain. temp. (when	Corr Allow (in) Corr Allow (in) Number	Atta Ty	WELDED ch (Welded Bolled) Attach TRATCH!!
Jacket Cl 1. MAWP	losure Stationar Foat A - 2 Material To be contained to be	or comb. tesinpleted for tuber of the second	psi at manufacture as ogee 8 psi at manufacture as of psi a	A in (in) (Subject to Diam (in.) Diam (in.) OD (inacketed vessel	If bar, 9 3 9 (3 5) pressure) S/4 in) s or channels of (in) R.T. (Spot or Full)	give dimensions OF. Nom Thk (in) Nom Thk (in or heal exchangers	Gauge) Eff. (°o) R T. (Sp	Corr Allow (in) Corr Allow (in) Number am I D (ft. & in)	Atta Ty Len	WELDED ch (Welded Bolted) Attach TRATOL!! pe (Straight or U')
D. Jacket Ci 1. MAWP Hems 12 and 2. Tubeshe 3. Tubes Hems 14-17 4. Shell 5. Seams	losure Cydro pneu 13 to be con Ets: SA = Stationar Fioal C. A = ? Mat	or comb. test inpleted for tult 240 yMatt (Spec No art (Spec No Cr (Spec No Gr Long (Db) S Time	psi at ma t press be sections T = 31() Dia No. Gr.) - 31; Gr.) ner chambers of j ade)	A "I" Imm (in) (Subject to Diam (in.) OD (packeted vessel Nom Thk	If bar, 9 3 9 (3 5) pressure) S/4 in) s or channels of (in) R.T. (Spot or Full)	give dimensions OF. Nom Thk (in) Nom Thk (in or heal exchangers	Gauge) Eff. (°o) R T. (Sp	Corr Allow (in) Number	Atta Ty Len	WELDED ch (Welded, Bolted) Attach TRATCH! pe (Straight or U)
D. Jacket Ci 1. MAWP Hems 12 and 2. Tubeshe 3. Tubes Hems 14-17 4. Shell 5. Seams G. Heads: (a	ets: SA = Stationar Float A = 2 Mat Mat Mat A) Matt.	or comb. test inpleted for tuli 240 y Matt. (Spec. No. Cr. Time A = 403 (Sp. Minimum	psi at ma t press. be sections No. Gr.) - 31 (Gr.) ner chambers of part of the control of t	weid bar etc.) ax. temp. 4" am (in) (Subject to Diam (in.) OD (jacketed vessel) Nom Thk. Gi 8 2 T = 3	pressure) 3 9 (3 7) pressure) 6 / 4 so or channels of (in) R.T. (Spot or Full) rth (Dbl., Sngl.) 6 1 6	operations	Gauge) Discontinuation of the second of the	Corr Allow (in) Corr Allow (in) Number am ID (ft. & in) ot, Partial, or Full) SA = 1.82 (Spec. No. Grade	Atta Atta Ty Len H T Te	WELDED ch (Welded, Boilted) Attach TRATCH!! pe (Straight or U') gth (Overall) (ft & in) emp. (°F) No. of Courses
D. Jacket Ci 1. MAWP Hems 12 and 2. Tubeshe 3. Tubes Hems 14-17 4. Shell 5. Seams: 6. Heads: (i	losure Stationar Float A - 2 Matter A - 3 Matter A -	or comb. tesi inpleted for tul 240 y Matt (Spec N ing Matt (Spec	psi at ma t press. be sections T = 31 () O. Gr.) All (Gr.) ade) Singl.) Corrosion Allowance	weid bar etc.) ax. temp. 1.3 4.11 am. (in) (Subject to Diam. (in.) OD (lacketed vessel Nom. Thk.	If bar. (3 90 3 70 pressure) S/4 s or channels of (in) R.T. (Spot or Full) rith (Dbl., Sngl.)	Nom Thk (in) Nom Thk (in or heal exchangers (b) Matl.	Gauge) Eff. (°o) RT. (Sp. A = 403. &	Corr Allow (in) Corr Allow (in) Corr Allow (in) Number am I D (ft. & in) ot. Partial, or Full) 2 SA = 182 (Spec. No. Grade)	Atta Ty Len H T. Te	WELDED ch (Welded, Bolted) Attach TRATCH! gth (Overall) (ft & in) emp. (°F) No. of Courses Side to Pressure (Convex or Concave
D. Jacket Cl 1. MAWP Hems 12 and 2. Tubeshe 3. Tubes Hems 14-17 4. Shell 5. Seams 6. Heads: (i Local Botto (a)	ets: SA = Stationar Float A = 2 Mat Mat Mat A) Matt.	or comb. test inpleted for tuli 240 y Matt. (Spec. No. Cr. Time A = 403 (Sp. Minimum	psi at ma t press. be sections No. Gr.) - 31 (Gr.) ner chambers of part of the control of t	weid bar etc.) ax. temp. 4" am (in) (Subject to Diam (in.) OD (jacketed vessel) Nom Thk. Gi 8 2 T = 3	pressure) 3 9 (3 7) pressure) 6 / 4 so or channels of (in) R.T. (Spot or Full) rth (Dbl., Sngl.) 6 1 6	operations	Gauge) Discontinuation of the second of the	Corr Allow (in) Corr Allow (in) Number am ID (ft. & in) ot, Partial, or Full) SA = 1.82 (Spec. No. Grade	Atta Atta Ty Len H T Te	WELDED ch. (Welded, Bolled) Attach Attach Grant (Overall) (ft & in) gth (Overall) (ft & in) emp. (°F) No. of Courses Side to Pressure (Convex or Concave
D. Jacket Ci 1. MAWP Hems 12 and 2 Tubeshe 3 Tubes Hems 14-17 4 Shell 5 Seams 6 Heads: (i Local Botto (a) (b)	ets: SA = Stationar Float A = 2 Matter (Top Inc. END) END	or comb. tesinpleted for tuling Mati. (Spec. No. Grant (S	psi at ma t press. be sections T = 31 () o. Gr () No. Gr () ade) Singl () E. SA = 18 pec. No. Grade) Corrosion Allowance	weid bar etc.) ax. temp. 1 3 A 11 am (in) (Subject to Diam (in.) OD (lacketed vessel Nom Thk Gi B 2 T = 3	pressure) 3 9 (3 7) pressure) 6 / 4 so or channels of (in) R.T. (Spot or Full) rth (Dbl., Sngl.) 6 1 6	Nom Thk (in) Nom Thk (in) 18 Nom Thk (in or heal exchangers Corr Allow (in ,	Gauge) Discontinuation of the second of the	Corr Allow (in) Corr Allow (in) Number am ID (ft. & in) ot. Partial, or Full) SA = 182 (Spec. No. Grade) Hemispherical Radius	Atta Ty Len H T Te	WELDED ch (Welded Boiled) Attach TRATCH! pe (Straight or U') gth (Overall) (ft & in) emp. (°F) No. of Courses Side to Pressure (Convex or Concave CONCAV
D. Jacket Ci 1. MAWP Hems 12 and 2 Tubeshe 3 Tubes Hems 14-17 4 Shell 5 Seams 6 Heads: (i Local Botto (a) (b)	ets: SA = Stationar Float A = 2 Matter (Top Inc. END) END	or comb. tesinpleted for tuling Mati. (Spec. No. Grant (S	psi at ma t press. be sections No. Gr.) - 31 (Gr.) ner chambers of pade) Singl.) E. SA - 18 Disc. No. Grade) Corrosion Allowance O	weid bar etc.) ax. temp. $\frac{4^{11}}{4^{11}}$ am. (in) (Subject to Diam. (in.) OD (lacketed vessel Nom. Thk. Gi B 2 T = 3 Crown Radius	If bar. (3 90 3 90 3 90 pressure) Sor channels of (in) R.T. (Spot or Full) rith (Dbl., Sngl.) 3 1 6 Knuckle Radius	operations	Gauge) Disconnection (where the second seco	Corr Allow (in) Corr Allow (in) Number am ID (ft. & in) ot. Partial, or Full) SA = 182 (Spec. No. Grade) Hemispherical Radius	Atta Atta Ty Len H.T.Te	WELDED ch (Welded, Boilted) Attach TRATICL!! gth (Overall) (ft & in) emp. (°F) No. of Courses CONCAV CONCAV

Form U-1 (Back)

i, Outlet, Drain, etc.)	No.	Diam, or Size	Type	Mati.	Nom. Thk.	Reinforcement Mati.	How Attached	Location
INLET	1	115	S.O.F.	SA-182			VELDED	116 575: 120:
TLET	1	14	S.O.F	., N-102			ACTION	PONNET:
NLET	7	72	S.O.F.	11			ŧı	<u> PONET</u>
TTLET	1	7	S.O.F.	**			11	SHILL
ORAIN	1	15	5.C.F	11			11	11
ENT.	1	3/4	CILG.	·A-182			VELDED	~HI-11
	**			.1 102			(Virtual Car)	
		•						
Supports:	Skirt	Lugs	L egs C	Other SADDLE:	Attached	SHELL &	WEI DET)	
items of the	report:			Perly identified and si Name of part of HEAT_EXCHAI	em number, infgr s. name			
			•					
ertify that t	he statem	ents made in	this report are	correct and that all det	ails of design in	naterial construction	and work manchin	of this vessel con
			ш., терен иле ч	solvest and that an act	ans or acsign, n	laterial, construction,	, and workmanship (Si tilla vessel coll.
	E Cada fo	- D-00-11-0 1/0	anala Canaian VI	U. Division 1				
to the ASM	E Code fo	or Pressure Ve	ssels, Section VI 892	II, Division 1.	Aug. 19	19	88 //	
to the ASM Certificate o	E Code fo f Authori / 1も/8	zation No.	ssels, Section VI 892 KAM THE	II, Division 1. ERMAL EOUIP.	Aug.19 LTD	, 1 <u>9</u> 19	88 Luck	. su
to the ASM Certificate o	1 Authori 15/8	zation No Oo. nam	892 KAM THE	RMAL EQUIP.		/ / \	88 Rugh	an .
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