1/2/6/

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

1. M																
	anufactured a	and certifie	d by Koo	ch Heat Tran	sfer Company	LP 12602	FM 529 , Ho									
2. M	anufactured f	or Tryer I	Process E	Equipment Lt	d., 3737 Old I	owa Park R	Road, Wichita	-	ddress of Manufact '6306	ntet)						
3. Lc	cation of Inst	allation 1	Not Know	ın.			. (Nar	ne and Address	of Purchaser)							,
								(Name a	nd Address)						***************************************	
4. Type: Horizontal Heat Exchanger					11403-08-4	NA				ee Remarks			2009			
(Horiz., vert., or sphere) (Tank seperator, jkt. vessel, heat exh., 5. ASME Code, Section VIII, Div. 1 Edition 2007					ic.)	(Mfg's serial I	(CRN)		(1	Drawing No.)		x1. 8d.	No.)	(Year Bui		
5. ASME Code, Section VIII, Div. 1 Edition 200 Edition and Addenda						te)	NA Code Case No.						NA ce per UG-1206	(d)		
Items	6-11 Incl. to	be comple	eted for si	ingle wall ves	sels, jackets	of jacketed	vessels,she	l of heat ex	changers, or ch	ambe				,		
	ell (a) No. of				ne (1)) Overall len						10 3/8°			
Course(a)					*	Thista										
No.	Course(s) No. Diameter, in. Length (ft & in.)		/ft & in \	Material			Thickness Nom. Corr.		Long. Joint (Cat. A) Type Full, Spot, None		Circum, Joint (Ca				Heat Treatn	
1	12.750"		7/8	Spec./Grade or Type SA-106 Gr B SMLS		0.375	0.125"	NA NA	NA NA	NA NA	Тур		Full, Spot, None NA		Temp.	Time
			110	071.100	0. 0 0.0.00	0.070	10.720		11/7	IVA			INA	100	IVA	NA NA
														-		1
7. He	ads: (a)			SA-516 GF	R 70N		(b)				SA-5	16 GR 70h	٧			.1
т				lo., Grade or Typ	e) H.T Time & 1	Temp		(Mat'i	(Mat'l Spec. No.,				emp			
)	_ocation (Top,		ness		adius	Eliptical	Conical	Hemispheri			Side to F	ressure			gory A	
	Bottom, Ends)	Min.	Соп.	Crown	Knuckle	Ratio	Apex Angle		Diameter	+	Convex	Concave	Туре	Full	, Spot, N	one Eff.
(a) (b)	(2)Flgs.	1.938*	0.125		NA NA	NA NA	- NA	NA NA	16.500"	-	NA	. NA	NA NA	_	NA	NA NA
	(1) Flg.	2.188	0.125*		NA NA	NA	NA NA	NA	**	L	NA	NA	NA		NA	NA
f rem	ovable, bolts	used (desc	cribe othe	er fastening)			SA		0) 0.750° Dia.			375 " x 37.8	375"			
3. Tvr	e of jacket				IA		lack	et closure	(Mat'l Spec. No., G	rade, S	Size, No.)					
, , ,					in .			et crosure			(Des		IA a & weld, bar, e	tc.)		
If b	ar, give dimer	nsions					NA				,	-	f bolted, des		or sket	ch.
											~					
ı. MA	WP	-0		nsi at m	nav temn			۰Ę	Min decian m	otal te	mn		°E at			na!
. MA	13	50 mai)	NA (external)	-	nax. temp.	500	NA NA		Min. design m	etal te	emp.	20	°F at		150	psi.
	(inte	mai)	(external)	-	•	(internal)	(exten	\	Min. design m	etal te	emp.	-20	°F at		150	psi.
0. lm	(interpact test Ye	^{mal)} es, Ret. Bn	(external) it. @ -50	-	on all other ma	(internal) aterial per U (indi	(extendal) JG-20 (f).	nai) nd the component	ent(s) impact lested		emp.				150	psi.
0. lm 1. Hy	(interpretation) pact test Your rdro., pneu.,or	^{mal)} es, Ret. Bn r comb . tes	(external) at. @ -50 at press	degs, F. No o	•	(internal) aterial per U (indi	(extendal) JG-20 (f).	nal)	ent(s) impact lested		emp.		°F at		150	psi.
0. lm 1. Hy ems	(interpact test Ye	mal) es, Ret. Bn r comb . tes be comple	(external) at. @ -50 at press ted for tu	degs. F. No o	on all other ma	(internat) aterial per U (indi PSI	(extendal) JG-20 (f).	nal) nd the compone Proof te	ent(s) impact lestec St)				Dall		psi.
0. lm 1. Hy ems	(intellipact test Yeardro., pneu.,ol	mal) es, Ret. Bn r comb . tes be comple	(external) at. @ -50 at press	degs. F. No of the sections.	on all other ma	(internal) aterial per U (indi	(extern JG-20 (f). cate yes or no a	nai) nd the component	ent(s) impact lested	0	.000°		NA	Boli ent (we		
0. Im 1. Hy ems	rdro., pneu.,oι 12 and 13 to besheet:	mal) es, Ret. Bn r comb . tes be comple! Stati NA	(external) it. @ -50 st press ted for tul SA-182-F onary (Mart	degs. F. No of the sections.	on all other ma	(internal) aterial per L (indi PSI 11.860° , in (subject to	(extern JG-20 (f). cate yes or no a	nal) Proof te 10.250 Nom. thk.,	ent(s) impact lested	O Corr.	.000° Allow., in.		NA	ent (we	ted	
0. lm 1. Hy ems 2. Tu	rdro., pneu.,ol 12 and 13 to besheet:	mal) es, Ret. Bn r comb. tes be complet State NA Roating (Mart)	(external) at. @ -50 at press ted for tul SA-182-F onary (Matt	be sections. F316L Spec. No.)	on all other ma 195 Dia.	(internal) aterial per t (indi PSI 11.860° i, in (subject to NA a., in.	(extern JG-20 (f). cate yes or no a	nal) Proof te 10.250 Nom. thk., NA Nom. thk., in.	ent(s) impact tested st	O Corr.	.000° Allow., in.	, in.	NA Attachma	ent (we	ted Ided or bot	
1. Hy ems	rdro., pneu.,ol 12 and 13 to besheet:	mal) es, Ret. Bn r comb. tes be complet Stati NA Roating (Mat')	(external) it. @ -50 ist press ited for tul SA-182-F onary (Matt) Spec. No.) P-316L EF	be sections. F316L Spec. No.)	on all other ma	(internal) aterial per L (indi PSI 11.860° , in (subject to NA 2., in. 0.750°	(extern JG-20 (f). cate yes or no a	nal) Proof te 10.250 Nom. thk., NA Nom. thk., in.	ent(s) impact tested st in.	O Corr.	.000° Allow., in.	, in.	NA Attachms	ent (we / Attac	ted Ided or bot NA chment U	led)
0. lm 1. Hy ems 2. Tu 	pact test γ_0 dro., pneu.,ol 12 and 13 to besheet:	mal) es, Ret. Bn r comb. tes be complet Stati NA Roating (Mat) SA-249 TF Mat) Spec.	(external) at. @ -50 at press ted for tul SA-182-F conary (Matt) Spec. No.) P-316L EF No., Grade	be sections. F316L Spec. No.) RW. AW or Type	On all other ma	(internal) aterial per L (indi PSI 11.860° , in (subject to NA a., in. 0.750° D.D., in.	(exten JG-20 (f). cate yes or no a	nd the componer Proof te 10.250 Nom. thk., NA Nom. thk., in.	ent(s) impact tested st in. 065°	O Corr.	.000° Allow., in.	, in.	NA Attachms	ent (we / Attac	ted Ided or bol VA chment	led)
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0. Im 1. Hy ems 2. Tu 3. Tu 4. Sh	pact test Yourdro., pneut.,oi 12 and 13 to besheet: Fobes: 14 - 18 incl. to cell (a) No. of course	mai) es, Ret. Bn r comb. tes be complei Stati NA loating (Mail SA-249 TF Mail Spec. b be complecourse(s):	(external) at. @ -50 at press ted for tul SA-182-F onary (Marti Spec. No.) 2-316L EF No., Grade eted for in	be sections. F316L Spec. No.) RW. AW or Type nner chambe	Dia. Dia. Oia. Oia. Oia. Oia. Oia. Oia. Oia. O	(internal) aterial per L (indi PSI 11.860° , in (subject to NA a., in. 0.750° D.D., in. vessels or	(extended to the content of the cont	nd the componer Proof te 10.250 Nom. thk., NA Nom. thk., in. (Nom. thk	ent(s) impact tested st in. 065* , in. or gauge tigers. & in.):	O Corr.	.000° Allow., in, NA Orr. Allow.	, in. 13 Num oint (Cat. A Full, S	Attachme Attachme 66 ber NA , B & C) pot, None [8]	ent (wei	ied Ided or bol VA Chment U ype (Strak	ted) pht or U) nent Time
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(Mat'l Spec. No., Grade, Size, No.)

	(internal)		iviA (ternal)	hai ar iliax.	. temp	50			n. design	metal temp.	-100 °F a	at	150 psi
17. Impact test				A-51 (d).		(inlen	nal) (external)					
						(i	ndicate yes or no and the	ne component(s	impact teste	(d)			
18. Hydro., pneu					195 PSI Proof test NA								
19. Nozzles, ins	1 1	nd safety ameter		enings:							_		
Outlet, Drain, etc.	Flange	· 		Materia		Nozzle Th	ickness	Reinforcement	How Att	lached	Location		
		r Size	Туре		Vozzle		Flange	Nom.	corr.	Material	Nozzle	Flange	(Insp. Open
Inlet/Outlet	1-1-	- 150#	RFWN		Gr B SMLS		SA-105	0.300*	0.125°	Self	Welded	Welded	To She
Inlet/Outlet	-	-150#	RFWN	SA-312-1	TP-316L ER	W	SA-182-F316L	0.216*	0.000	Self	Welded	Welded	ToTSF
Vent	2 .75	-3000#	CPLG		NA		SA-105	, 3000#	0.125	Self	NA	Welded	To She
								-			į		i
						-			j				
									<u> </u>				
20. Supports: Ski	rt No	, i	.ugs	No	Legs	A I A	Others			411	<u> </u>		
	(Yas or	No.1		<u>No</u>	- '	NA (No.)			ackets	Attached	To	Shell & Mo	
21. Manufacturer's	Partial Data	a Reports	properly ide	entified and	signed by Cor	mmissic	oned Inspectors have	e been furnish	ed for the t	ollowing items of the r	eport: (Where and Ho	w)
	the part, it	em num	ber, mfg's.	name and	identitifying	numbe	er)				opore		
NA													
22. Remarks: _F	Return Bon	net: SA-	352 LCB, (0.750* Thk.	, 0.125" Cor	r. Allov	w., 16.000° Crown	Radius, Cor	cave side	to pressure			
Surface Per Exch	nanger: 12	298.3 Sc	Į. Ft.							p. 0000.0			
Item No.:E-101A						J							
Orawing No.: 114	03-08-4 C	N,P	/ PT-Tut	e to tubest	heet welds				,				
					CERTI	IFICAT	E OF SHOP COM	PLIANCE					
We certify that t	he statem	ents mad	le in this re	annd are co									
the ASME Code	for Press	ure Vess	els, sectio	n VIII, Divis	sion 1.	at all u	letails of design, m	iaterial, cons	truction, a	nd workmanship of	this vessel co	onform to	
U Certificate of				,		11634			Evniros				
D-4-		Name	***************************************						Expires	Nov. 28		2009	9
Date Sept. 1	, 2009	Hano				Transf (Manufac	er Company LP		Sig	ned	€.00	las a por	-
						<u> </u>	E OF SHOP INSP	ECTION			(Represent	itive)	
I the undersiana	nd holding	o volid d	ammiaala										
and employed by	a, notang	a vanu t	Oninissioi	n issued by	The Nation:	al Boa	rd of Boiler and Pr	essure Vess	el Inspect	ors and the State or	Province of _	TX	
			One B	eacon Ame	erica Insuran	ce Co.	1 .	_of		Lynn, MA	have insp	ected	
Manufacturer ber	sei descri	oed than	s manutac	turer's Data	a Report on	500	tember of	209	, and state	that, to the best of	my knowledg	e and belie	f, the
employer makes	anv warra	ntv evni	ressure ve	mplied con	organce with	n ASMI	E Code, Section V	III, Devision	 By sign 	ning this certificate r	either the Ins	pector nor	
nor his employer	shall be li	able in a	ny manner	for any sei	rsonal injury	ot pto	ne vessei describe Deriv damade or a	lose of any	nutacturer kind orinia	ning this certificate r 's Data Report. Furl g from or connected	hermore, neil	ther the ins	pector
Date 09-03	-07	Signed	il	rril.	Shon	us	porty damage of a	Commi	ssions	y nom or connected	with this insp	man .	60
					(Authorized In					NB 10562 A	orsement. State	Province and	77 No.1
					CERTIFICA	ATE OF	ASSEMBLY CO	MPLIANCE			-		
We certify that the	statemer	its on thi	s report an	e correct ar	nd that the fir	eld ass	sembly constructio	n of all parts	of this ve	ssel conforms with the	ne requireme	nts of ASM	F
Code, Section VII J Certificate of Au											7-1-4-11-0111-01	0//10//	
									Expires		<u> </u>		
)ate	N	ame _		· · · · · · · · · · · · · · · · · · ·					Signe	ed			
						anufactu					(Representitiv	е)	
							LD ASSEMBLY C						
the undersigned	, holding a	valid co	mmission i	issued by T	he National	Board	of Boiler and Pres	sure Vessel	Inspector	s and the State or Pi	rovince of		
na empioyea by							C	of			*****		
ave compared the	e statemer	nts in this	Manufact	urer's Data	Report with	the de	scribed pressure v	essel and s	ate that th	e parts refered to as	the data item		
		, no	ot included	I in the certi	ificate of sho	op insp	ection, have been	inspected by	me and h	ny the heet of my kn	autodao		!
nd belief, the Mar	ufacture h	as const	ructed and	l assemble	d the pressu	ire ves	sel in accordance	with ASME	and Son	tion VIII, division 1.	wieuge The De		
pooloa ana	oabjooloa	to a riyu	TONC ICOLU	ı	psi. by	y signii	iq inis centicate n	either the In	spector no	it his employer make	00 284 440	.t.	:
pressed or implie	ed, concer	ning the	pressure v	essel desci	rihed in this l	Manuf:	acturade Data Ron	ort Eurthon			his employed	rshall	
e liable in any mai ate	mor for di	ıy persor ined	nal injury o	r property d	lamage or a	loss of	f any kind arising f	rom or conne	ected with	this inspection.	omploye	andli	İ

(Authorized Inspector)

(Nat'l Board incl. endorsement, State, Province and No.)