## TAKEN FROM MASTER DATA REPORT BY NATIONAL BOARD

## FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS REPORT BY NATIONAL BOARD

		d sadified		·	the Provi							III, DIV	151011 1					
				n Fintube Con				(Name and		s of Manufactu	irer)							
2. Mai	nufactured for	Hanove	Compan	ny , 20602 81s	st Street, Bro	ken Arow		14 ame and Addre	ss of Pu	urchaser)	-					-77		
3. Loc	ation of Insta	llation Ur	nknown					(Name	and Ad	dress)								
4. Typ	e: Hori:	zontal		Heat Excha	nger	0	6086-05-3	********		NA		See	Remarks		17	7728	2006	
			(Tank se	perator, jkt. vesse			(Mfg's seria		CONTRACTOR OF THE PARTY OF THE						THE RESERVE AND ADDRESS OF THE PARTY OF THE		(Year Built)	
5. ASI	ME Code, Se	ction VIII, [	Div. 1	Edition and	· · · ·	NA Code Case			a No.		NA Special Service per UG-120(d)							
Items	6-11 Incl. to b	e complet	ed for sin	gle wall vesse			vessels,s	hell of heat	excha	ingers, or c	hambe	er of mult	ti-chamber	vessels.	172			
6. She	ell (a) No. of o	course(s):		Two	(2)	(t	) Overall	ength (ft & i	in.):				29'- 9	1/2"				
	Cours	1		Material		Thickness			Long. Joint (Cat. A)			Circum, Joint (Cat. /				Heat Tre	Treatment	
No.			-	Spec./Grade or Type		Nom.	Corr.				, Spot, None Eff.				Spot, None Eff		Time	
1	10.750"	26'- 8		SA-333 Gr. 6			0.0625"	NA NA	-	NA NA	NA			/ Full 100		NA	NA	
2	10.750*	3 5/	8"	SA-333	Gr. 6	0.594"	0.0625*	NA NA		NA	NA	B & C	,	/ Full	100	NA	NA	
7. Hea	ads: (a)			NA / NA			(b)						/NA					
		2000		., Grade or Type)			-1	. 1			Spec. No	7.5.		Time & Temp				
- 1			ness	Rad		Eliptical ckle Ratio	Conica	Committee of the control of the cont	200	9995		Side to Pr		Type		Catagory A Full, Spot, None		
(a)	ottom, Ends)	Min.	Corr.	Crown	Knuckle		Apex A	2310	dius	Diamete NA		Convex	Concave	Type	FL	0.683373	0.508	
(b)	NA	NA	NA	NA .	NA	NA	NA	NA	`	INA	+	NA	NA	NA	+	NA	NA	
If rem	ovable, bolts	used (desc	ribe othe	r fastening)						NA /	NΔ	9 (- 1					-	
				3/					(Mal	t'l Spec. No., G		ize, No.)						
8. Typ	e of jacket			NA	l		Ja	acket closur	е				N/			-		
lf b	ar, give dimer	neione										(Desc	ribe as ogee 8	& weld, bar, of f bolted, c		na or ska	atch	
		1310113		70 V			NA.							-		oc or one	~ 04	
9. MA	14		NA	psi at ma	ix. temp.	130		NA °F	M	lin. design	metal	temp.	-50	°F at	_	1440	psi.	
10. lm	interpact test No		(external) aterial per	r UG-20 (f).		(internal)	(e	xternal)										
							icate yes or r	no and the com		30.00	ed)							
3	/dro., <del>pneu</del> .,o 12 and 13 to			he sections	1875	PSI		FIOC	of test					IA				
Items 12 and 13 to be completed for tube sections.  12. Tubesheet: SA-516 Gr 70N						20.000	4.0				0.0625*			Welded				
57.010.011011					in (subject t						Allow., in.	Attachment (welded or bolted)						
						VA.		NA Nom this	NA Nom. thk., in.			NA Corr. Allow., in.		NA Attachment				
Floating (Mat'l Spec. No.) Dia.								NOM. WK	0.083"									
					0.750* O.D., in.		Non	Nom. thk., in. or gauge			85 Number			Type (Straight or U)				
	14 - 18 incl. t nell (a) No. of	o be comp	leted for i	inner chamber	s of jacketed NA	d vessels			chang	gers.				NA				
	Cours		T	Materi		Thickr				(Cat. A)	T	Circum.	Joint (Cat.			Heat Tre	atment	
No.	Diameter, in.	7	ft & in.)	Spec./Grad		Nom.	Corr.	Туре		III, Spot, Non	e Eff.	Тур		Spot, Non	e Eff		Time	
NA	NA	N/		NA NA		NA	NA	NA		NA	NA	NA		NA	NA	NA	NA	
		-																
15 11	ade: (a)	1		NA / NA	4,01		(b)					NA	/NA	-				
10. H	eads: (a)	(Ma	it'l Spec. No	., Grade or Type)							Spec. N	o., Grade o	or Type) H.T.	Time & Te	Charles and the			
100	ocation (Top,	Thick		Radius		Eliptical			Hemispherical				Side to Pressure		Catagory			
_			Corr.	Crown	Knuckle	Ratio	Apex A				1	Convex	Concave	Туре	Fu	III, Spot, N		
(a) (b)	NA	NA	NA	NA NA	NA	NA	NA	NA NA	4	NA NA		NA	NA	NA	-	NA	NA	
(~/		1		1														

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

16. MAWP	144(		NA (ternal)	osi at max. temp.	130 (intern		°F Mi	n. design	metal temp.	-50 °F	at	1440 psi.			
17. Impact test			( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	gs. F. No, on all oth	er materi		e component(e)	impact tools	nd\						
18. Hydro., <del>pnet</del>	.,or <del>-o</del>	emb. test pr	ess	1875		olcale yes of no and the	Proof test	impact teste	30)	NA					
19. Nozzles, ins	pectio	n. and safet	v valve ope												
Purpose (Inlet,		Diameter	Flange	annigo.	Materia	al	Nozzle T	hickness	Reinforcement	How A	Location				
Outlet, Drain, etc.	No.	or Size	Туре	Nozzle	Flange	Nom.	corr.	Material	Nozzle	(Insp. Open.)					
Inlet/Outlet	2	8"-600#	RFWN	SA-420-WPL6	3	SA-350 LF2	0.500"	0.0625"	Self	NA	Welded	To Tee			
								10,0000			170.000	10 100			
		****	1						-						
20. Supports: Sk		No Yes or No.)	Lugs	NA Legs	NA	Others	(3) E	(3) Brackets Attached To Shell & Movable							
Surface Per Exc Item No. E-201-	chang 20-A/	er: 966.8 S B / P.O. N	Sq. Ft. Ful No.: 423413	0"-Sch 80 LR 90 de I radiograph on shel 3 / Model No. 103	lside butt	welds capable of	· · · · · ·	ı	əlds						
Drawing No. 06	086-0	5-3 C,P,	N (Rev. A)	, GA											
We certify that the ASME Could Certificate of Date Feb.	de for of Auth	Pressure Vo	essels, sec o.	tion VIII, Division 1.	1160 wn Fintub		, material, co		on, and workmanship bires Novembe Signed $R.\epsilon$	28		06			
				С	ERTIFIC	ATE OF SHOP IN	SPECTION	***							
I, the undersic	ned. l	holding a va	lid commiss	sion issued by The N	National E	Board of Boiler and	Pressure V	essel Ins	pectors and the State	e or Province	e of T	TX.			
and employed				HSB CT	TOTAL STATE OF	odia oi bolloi alli	of	000011110	Hartford, CT.		inspected	<i>/</i> .			
Section Control (44) Control		described in	n this Manu	facturer's Data Rep	ort on	1-28		6, and	state that, to the bes			belief, the			
employer mak	es an	y warranty,	expressed in any man	or implied, concerning ner for any personal (Author)	ng the pre lipjury or prized Inspe	essure vessel des property damage	or a loss of Co	sion 1. B Manufac any kind ommission	y signing this certificaturer's Data Report. Sarising from or conne	ate neither the Furthermore cted with thi	ne Inspector e, neither the s Inspection	nor his e Inspector			
			n this repo	t are correct and the	at the field	d assembly constr	uction of all	parts of the	nis vessel conforms v	vith the requ	irements of	ASME			
Code, Section U Certificate of			o		Expires ,										
Date		Nam	е						Signed						
						facturer)				(Repres	sentitive)				
				CERTIFI	CATE O	F FIELD ASSEME	BLY COMPL	IANCE							
I, the undersignand employed		nolding a va	lid commiss	sion issued by The N	Vational E	Board of Boiler and	I Pressure V	essel Ins	pectors and the State	e or Province	e of				
1997 72	_	statements	in this Man	ufacturer's Data Rep	ort with t	he described pres	sure vessel	and state	that the parts refere	d to as the d	ata items				
									e and by the best of						
and belief, the			constructe	d and assembled the	e pressur	e vessel in accord	lance with A	SME Coo	de, Section VIII, divisi ector nor his employe	on 1. The D	escribed ve	essel			
expressed or i	mplie	d, concernin	g the press personal in	ure vessel describe	d in this M	Manufacturer's Da	ta Report. F	urthermo	re, neither the Inspected with this inspection	ctor nor his e		all			
				(Autho	orized Inspe	ctor)			(Nat'l Board incl.	endorsement, S	tate, Province	and No.)			