## FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS

(Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only) As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. N	Manufacture	d and	d certifie	ed by Ch	nart Co	oler S	Service	Compa	any, Inc., 3							na, 74115,	USA	١			
2. N	Manufacture	d for	VEN	TECH EN	IGINEE	RS LI	_C, 114	9 ELLS	SWORTH, F	,		d address of 261, PAS			,	, 77502, U	SA				
				Linknowe	_				1)	Vame	and add	dress of Pu	rcha	ser)							
3. L	ocation of I				1						(Name	e and addre	ess)								
4. Type Alr Cooled F  (Horizontal or vertical						46314-1 facturer's serial number)			N/A (CRN)			46314-1-: (Drawing			2	(Na	18189 (National Board number				15 built)
5.	ASME Code	e, Sed	ction VI	II, Divisior	n 1		2013/	N/A				N/A						N/A			
					[E	Edition an	nd Addenda		ble (date)]		(Cod	de Case numb	bers)			(S	pecial :	service per	UG-120	(d))	
6. 8	Shell:		SA-240				5" / 1.7	_		625				N/A					N/A		
I		(Mate	rial spec. r	number, grade	e)	(Nor	minal thickr	iess)	(Co Body Flan	rr. allo	,		(Ir	nner diam	eter)			[Leng	th (overa	all)]	1
Na	_		ID	OD	Flange	Min I	lub This				How					D - Iii	Bolting		ND 1D	\A/b	
No. Type			ID	OD	Thk	Min Hub Thk		Material		Attached		Location		Num & Size		Bolting Material		Washer (OD, thk)		Material	
N/A	N/A	I	N/A	N/A	N/A	N/A		N/A		N/A	١	N/A		N/A		N/A	N	/A		N/A	
7. 5	Seams:		orner o		t)] [R	N/A		C=.20 (Eff.,%)	N/A (H.T. temp)		N/A (Time, hr)	[Girth	(weld	N/A ed dbl s	ngl lan l	outt)] [R T	N/A		N/A (Eff., 9		N/A f courses)
8. Heads: (a) Material SA-240 304L (b) Material SA-240 304L																					
	Location (Top	Botto	nm	Minimum	Col	rrosion	ec. no., grad	<sup>de)</sup> n Radius	Knuckle Ra	dius	Elliptical	Conical	Her	nispheri	Flat	Diameter	. no., g		Pressure	e (Convex o	or
	Ends)			Thickness	ness All		owance				Ratio	Apex Angle cal		Radius	us		Concave)		vė)	,	
(a) (b)	*		1 .	75" / .5"			625" 625"		N/A N/A		N/A N/A	N/A N/A				25" X 5.625" 5" X 5.625"			N/A N/A		
(6)	.0023			N/A	Body Flanc	700.0		14/7	10// 3.5/												
								Min Hı	ıh								Bolti	<del></del>			
No.	Location	Thk Material How Attached				Num				aterial Washer (OD, ID, thk) Washer			iterial								
(a) N/A N/A			N/A		N/A N/A				N/A		N/A t max_temp			455.05		N/A		N/A		N/A	
9. MAWP 478 psi 15 psi at max. temp. 455 °F 455 °F (Internal) (External) (Internal) (External)																					
Min. design metal temp at 478 psi Hydro, pneu., or comb. test pressure HYDRO at 68									3 psi												
_											N1/A										
Р	roof test										N/A										·
10. N	lozzles, insp	ectio	n and s	afety valv	e openi	ings:															
Purpose (Inlet, Outlet, Drain, etc.)		No.	Diameter or Size	Тур	pe _	Nozzle		laterial Flange		Nozzle Nom.	Thickness Re		Reinforcement Material		Attachment Det		Location		Location nsp. Open.)		
Inlet		1	6"-600	RFV	VN :	SA-312 T				SCH 80	*****		Integra	al	UW16.1a						
Outlet			1	6"-600	RFWN		SA-312 TP304L		SA-182 F30	4L	SCH 80			Integral				16.1a			
Vent/Drain Inpsection			412	1" 1.125"	FULL (						6000# N/A	.0625" N/A		Integral N/A		UW16.1a N/A	UW16.1a N/A		Wrapper Plugsheet		
	IIIpsection		412	1.123	Jili	בט	3A-102	1 304L	IN/A		IN/A	IN/A		N/A		IN/A	- 1	WA		lugslieet	
11. 8	Supports: S	kirt _	NC			8	Legs	NONE			N	lameplate E		cets		Attached			ader/W		
(Yes or no) (Number) (Number) (Describe) (Where and how)  12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors, have been furnished for the following items of the report:																					
	I/A	. actur	o i uitic	Data 110pi	o.to propt	, 10011	ou unu	orginou b	, 5011111110010111	- u 1110											
	<u> </u>						(Name	of part, ite	m number, Manu	factur	er's name	and identifyin	g star	mp)							_
									Dimensi				Κ 7	. 375"	X 10	0.625	<u>"</u>				

1.Constructed per Appendix 28, 2.No relief device per UG-125, 3.Impact test exempt per UHA-51 (d)
4.Tube:1"x.083"MW,SA-249 TP304L, Qty.206, 5.Service: LFTL FRACTIONATOR CONDENSER 6. RT PER
CUSTOMER REQUEST.

FORM U-1A (Back)

NB Number 18189

CERTIFICATE OF SHOP/FIELD COMPLIANCE  We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. "U" Certificate of Authorization Number 36229  expires  November 30, 2015										
Date 03/16/2015 Co. name	Chart Cooler Service Company, I	nc. Signed	Ame Sclifton (Representative)							
CERTIFICATE OF SHOP/FIELD INSPECTION										
Vessel constructed by Chart Cooler Service Company, Inc. at 3515 Dawson Road, Tulsa, Oklahoma, 74115, USA  I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and employed by										
OneCIS Insurance Company, of Lynn, MA										
have inspected the component described in this Manufacturer's Data Report on March 12, 2015, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. By signing this certificate neither the Inspector nor his/her employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his/her employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.										
Date 03/16/2015 Signed 2	Comments (Authorized Inspector)	nissions[Nation	842A al Board (incl. endorsements)]							

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