FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS PO #: PO18100F-REVISED:2 (Alternative Form for Single Chamber, Completely Shop or Field Fabricated Vessels Only) Item #: HRS-ACC-1 As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. Ma	anufa	ctured an	nd certi	fied by			. 1	Kelvic	on, Inc.	Thermal	Sol				annel Road C	atoosa, Oklah	oma 7	74015	
2. Ma	nufa	ctured for			10,80 8	Fre	w Pr	ocess	s Group	, LLC 15	305		eek	Way No	blesville IN 4	6060 United S	tates		
3. Lo	catio	n of instal	lation		Aen	nerge Red	ipak	Serv	ices S0	C, LLC 96		E Avenue	TA	G: PO#	44 #9391468	Hesperia CA	92345	United	States
4. Type Rectangular Vessel R-10 (Horizontal or vertical, tank) (Manufacture					746-1-C				(Name and address) N/A 10746010HDR REV (CRN) (Drawing number)				. 2 (National	10112	number)	2017 (Year built)			
5 ASMF Code Section VIII Division 1					2015				N/A				(National Board number) (Year built N/A						
						[Edition and	d Add	lenda, i	f applicab						e numbers)		[Spec	cial cervice	per UG-120(d)]
6. Shell SA516-70 (Material spec. number, grade)						1" (Nominal thickness)				1/16" (Corr. allow.)			6 3/4" (Inner Diameter)			[Length (overall)]			
		W.	(Materia	п эрес. п	uniber, gr	adej						s on Shel			1 12	(minor bramotor)			teerion (e.e.e.)
	Т		T			T —		Г	ΤТ	ouy i iu		3			10,7474 (-27)	8	olting		
No.		Туре	11	D	OD	Flange Thk		Min H	ub Thk	Material	Н	How Attached		ocation	Num & Size	Bolting Material	Washer (OD, ID, thk)		Washer Material
	_		-			-	_		_			202.00	-	-4.6	*1. 11				
7								4000/		NIΛ	_	NI/A		N/A		N/A		100% N/A	
7. Seams Corner Joint N/A [Long (welded, dgl., sngl., [R.T. (spot or fu						ull)]	100% N/A (Eff., %) (H.T. temp							N/A N/A velded, dgl., [R.T. (spot or full)]					
lap, butt)]												sngl., lap, butt)]							
8. Heads: (a) Material SA51 (spec. no											(b) M	ate	rial	SA516-70 (spec. no., grade)					
г				T.				374 10	_		т.		. 1			(spec. no	,, grade		de la Desseura
	Location (Top, Bottom, Ends)		Minima Thickn			2 22 22 22 24 25 25 25 25 25 25 25 25 25 25 25 25 25	Crown Knu Radius Rad		Elliptica Ratio	Conica Apex Ang	- A	Hemispherical Radius			Flat Diameter			Side to Pressure (Convex or Concave)	
(a)	(a) Top & Bottom		7/8" / 3	3/4" 1/16		SPAN		••	N/A	N/A	7	N/A	N/A FT: 9		1/2" X 13' 3/8" RT: 7 3/8" X 13' 3/8			/8" N/A	
(b)	End	Plates	7/8" / :			SPAN	1.9	** N/A		N/A	N/A		/A FT: 9		1/2" X 1' 1 7/8" RT: 7 3/8" X 1' 1 7/			/8" N/A	
										D - d - E1		!!	-			96			
			_			_				Body Flai	nge	s on Head	18	10/10		B	olting		
	1		1									,						asher	
		Location	Ту	ре	ID	OD		Flange Thk M		din Hub Thk	Ма	Material How		tached	Num & Size	Bolting Material	(OD,	ID, thk)	Washer Material
(a)	_																		
(b)	_					<u> </u>									75°C		11/4		
9. M	AWP	·	340 I		N/A (External)			Υ.		8	at max. temp.			475°F (Internal)			N/A (External)		
(Internal) Min. design metal temp.				C-1000	25°F	at					lvdr	dro nneu or comb T			est pressure				
	roof t			/A	201	_ ~		040	. 01	_ `	iyai	io., pilou.,	0, (. 1	cot procedure			12 1 01	
			-		foty val	o oponin	00.												
10. Nozzles, inspection, an				Diam		ve openin	openings.		Mat	rial		Nozzle Thio		ess	Reinforcement	Attachment D		ils	Location
(Inlet, Outlet, Drain, ect.)			No.			Туре		Nozzle		Flange		Nom.		Corr.	Material	Nozzle	F	lange	(Insp. Open.)
INLET		2	10"-3	300#	PIPE/RFWN		SA	106-B	SA105	5	SCH 140	1	/16"	INTEGRAL	UW16.1(a)		N/A	FT HEADER	
OUTLET		2	8"-30					106-B	SA105	5	SCH 120	-	/16"	INTEGRAL	UW16.1(a)	_	N/A	RT HEADER	
VENT/DRAIN		2/2 8	1"	_	CPLG			A105	N/A	_	6000#	+	/16"	INTEGRAL	UW16.1(a)	_	N/A N/A	FT/RT HEADER INLET/OUTLET	
AUXILLARY		-	3/4	+	CPLG	SA105		A105	N/A		6000#	Η'	/16"	INTEGRAL	UW16.1(a)		INIA	NOZZLES	
<u> </u>			+		_		_			1	_		\vdash	_			_		
11.	Sup	ports: Sk		N/A (Yes or no)		Lugs N/A		Legs		N/A (Number)		Other		N/A (Describe)		Attached		N/A Where and how)	
12.			Manufa	Activities and the	711	0070000		571	perly id	10.200-015.0000	350	signed by		mmissio	2152223TF	rs have been f	furnish		
	item	is of the re	eport						(1	Name of pert	item	n number. Ma	N/ nufac		me and identifying	stamp)			
TUBE	S: (3:	36) SA-21	14 1" O	D. X 0	0.083" N	MW X 32'	STF	RAIGH				IDLE: 6 RO				V002710 EV			
											_				O(f) UCS-66(c)			
	T. Carrier	8" X 13' 3								55540					.,				
	2 0/				- // //	5,0 11			3					WAN.				707.00	

FORM U-1A (Back)

		HOP/FIELD COMPLIANO	10 To					
We certify that the statement	ents made in this report are correct and that	t all details of design, ma	aterial, constructi	on and workmanship of this vessel				
conform to the ASME BOIL	ER AND PRESSURE VESSEL CODE, Se	ction VIII. Division 1. "U"	Certificate of Au	thorization Number 12007				
expires 3 June 2017				12007				
	The state of the s	2/2/ 2 / 2/	2	///				
Date	Co. name Kelvion, Inc. Therm		Signed	5-00-0				
	(Manufacture	1)		(Representative)				
	CERTIFICATE OF S	HOP/FIELD INSPECTIO	ON					
Vessel constructed by	Kelvion, Inc. Thermal Solutions	at	at 5202 West Channel Road Catoosa, Oklahoma 74015					
I, the undersigned, ho	olding a valid commission issued by the Na	ional Board of Boiler and			_			
.,		E COMPANY OF LYNN,		inspectors and employed by				
			. /	/				
	nent described in this Manufacturer's Data		//7/	, and state tha	it,			
to the best of my knowledge and	d belief, the Manufacturer has constructed	this pressure vessel in a	ccordance with A	ASME BOILER AND PRESSURE				
VESSEL CODE, Section VIII, D	Division 1. By signing this certificate neither	the Inspector nor his/her	r employer make:	s any warranty, expressed or				
	vessel described in this Manufacturer's D							
Shall be hable in any manner for	r any personal injury or property damage of	aloss of any kind arising	ig from or connec	cted with this inspection.				
Date //9//7	Signed	-200	Commissions	NB12736A OK914				
-,	(Authorized thisp	ector)		[National Board (incl. endorsements)]	-			
			The state of the s					

(07/13)