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 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	AND ADDRESS OF THE PROPERTY OF												
1. Manufactured and certified by	Alfa Laval Therm	nal Inc. 54 (Name and ac	OO Interna	tional Trade cturer)	Dr., Richm	ond, VA 2	3231						
2. Manufactured for SYST	ECON INC, 9750	CRESCEN	IT PARK D	RIVE, , WES	T CHESTER	R, OH, 450	69						
2. Leasting of least-listing. I he		(Name and addr	ess of Purchaser)									
3. Location of Installation Un	known, , , ,	lame and addres	ss)										
4. Type Vertical	Plate Heat Exch	anger	30103	-91337			8821	88215-231 E.0			14434		
(Horiz., vert., or sphere)	Tank, separator, jkt. vesse	l, heat exh., etc	.) (Mfg's	serial no.)	()	HN)	(Drawing	No.)		Nat'l.	Bd. No.	(Year Built)	
5. ASME Code, Section VIII, Div.	1 1998	3 A99			2290								
	Edition Adden			Code Ca			•	ial Service per l	JG-120(d)			
Items 6 - 11 incl. to be completed	I for single wall vessel	s, jackets of j	acketed vesse	els, shell of heat	exchangers, or	chamber of n	nulti-chamber v	essels.					
6. Shell (a) No. of course(s):			(b) О	verall length (ft	+ in.):								
Course(s)	Material	Thicknes	s	Long Joint (Ca	it. A)	Circum.	Joint (Cat. A, B + C)			Heat Tre	atment	\neg	
No. Diameter, in Length, ft./in.	Spec./Grade or Type	Nom.	orr. Type	Full, Spot, N	lone Eff.	Туре	Full, Spot, None E		ff.	Temp. Time			
· · · · · · · · · · · · · · · · · · ·													
												_	
7. Heads: (a) SA-516-70				(b)	SA-516	-70							
(Mat'l Sp	ec. No. Grade or Type) H.T	Time + Tem	ip		(N	at'l Spec. No. G	ade or Type) H.T.	- Time + Tem	p				
	ckness Radius	Elliptical	Conical	Hemispherical	Flat Diameter		Radius Side to Pressure			Categor	у А		
Bottom, Ends) Min.	Corr. Crown Knuc	kle Ratio	Apex Angle	Radius			Convex	Concave	Type	Full, Sp	ot, None	Eff.	
(a) Fixed 2 3/8"					74 X 29"					-			
(b) Movable 2 3/8"					71 X 29"								
9. MAWP 150 (internal) 10. Impact Test NO 11. Hydro., pneu , or comb. test Items 12 and 13 to be completed 12. Tubesheet Stationary (Mat'l 5	for tube sections		iro P	(I	(external) Indicate yes or no		Min. design me	id)	-5	0	F at	150	
Stationary (matric	,pec. 110.)	,			•	•	Con. Allow	,					
Floating (Mat'l Spec. No.)	Dia., in.		Nor	m. thk., in.		Corr.	Allow., in.	-		Attachment	ı		
13 Tubes: Mat'l Spec. No.,	Grade or Type	O D., ir	n.	Nom	thk., in. or gauge	are a very approximate Additional	Number			Type	Straight or U)	
							Humber			.,,,,			
Items 14 - 18 incl. to be complet	ed for inner chambers	jacketed ves	sels or channe	is of heat excha	ingers								
14 Shell (a) No of course(s):					(b) (Overall length	(ft + in.):						
Course(s)	Material	Thickne	ss	Long Joint (C	at. A)	Circum	. Joint (Cat. A	, B + C)		Heat Tr	eatment		
No Diameter, in: Length, ft./ in			Corr. Type			Туре	Full, Spo		Eff.	Temp.	Time		
Length, 107 m			1770			1							
						i :					<u> </u>		
15 Heads: (a)	on No Grade or Trace 41.7	Time T-		(b)	/8/	at'l Spec No Gr	ade or Type) H.T.	- Time + Tem					
	ec. No. Grade or Type) H.1			Hemisphariast				e to Pressure			^		
Bottom, Ends Min. Corr. Crown Knuckle Ratio Apex				Hemispherical Flat Diameter Radius			Convex				Category A Full, Spot, None Eff.		
(a)			Anale	1	:				1.50	1, 5			
(b)													
					 			<u> </u>	'				

If removable, boits used (describe other fastening)

FORM U-1 (Back)

Institute we not not accompany to the times Institute with Institute we not not accompany to the times Institute with Institute we not not accompany to the times Institute with Ins	16. MAWP				psi at max. temp.			o F Mir	0	O Fat p		
B. Huston, press_or comb_lest press Proof test		(internal)		(external)	_	(internal)	(external)	-				
18. Noviks, miscroon, and safety valve opcomp. National National Properties Nation	17. Impact Test											
19. Nozores, nojectore, and safety views egoing Perpose linist. One Demonstrate Plangs						(Indica	te yes or no and th	ne component	(s) impact tested)			
Purpose (fillet. No. Dameter Storge No. No	18. Hydro., pneu.,	or comb	. test pres		Hydro P	Proof test						
Purpose (fillet. No. Dameter Storge No. No	19 Nozzles, inspec	rion, an	d safety val	lve opening								
No.												
Inlet 2 6" STUDS SA193-87 3/4" Outlet 2 6" STUDS SA193-87 3/4" 20 Supports Surr Lugs Lugs Opens FEET Attached BOLTED Tribus and large la		No.				Flange					1	
Outlet 2 6" STUDS SA193-87 3/4" 20 Supports: Sun Logs Logs Others FEET Attached BOLTED 21 Menufacturer's Penial Data Regrets properly identified and signed by Commissioned Inspectors have been furnated for the following items of the report: Last the remain of part, den number, entry's name and dentrying number: 22. Remanss (204) SA-240-304-02" Plates Distance between Heads = 24.09" Customer POIF: \$138891 Tag #: CERTIFICATE OF SHOP COMPLIANCE We certify that the attements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conforms to the ASME Code for Pressure Vessels, Section VIII, Division 1. U Certificate of Authorization No. 25,017 Date 7 Log 9 Name Affa Laval Thermal, Inc. Signed Commercial Union CERTIFICATE OF SHOP INSPECTION I, the undersigned, holding a valid commission issued by the National Board of Bolter and Pressure Vessel Inspectors and the State or Province of of Boston MA have inspected the pressure vessel described in this Manufacturer's batte Report on 7—3. 19.97, and state that to the best of my knowledge and belief, the Manufacturer's has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. 99 signing this certificate enfirer the Inspector nor his employer shall be liable in any manner for any personal injury or property demage or a loss of any kind arising from or connected with his imapercian. CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE We certify that the statements made in this report are correct and that the field assembly construction of all parts of this vessel conforms with the requirements of ASME Code, Section VIII, Division 1. 99 signing this certificate enfirer the Inspector nor his employer shall be liable in any manner for any personal injury or property demage or a loss of any kind arising from or connected with his imapercian. CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE We certify that the statements made in this report are correct and that the field assembly const	Inlet	2	<u> </u>			· idiigo		COII.		NOZZIE	1 lange	
20. Supports Sutt Trea man Lugs Legs Mo. Others FEET Attached BOLTED (Notes and Nave) 21. Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following terms of the report: Lists the name of part, item number, milg 1, name and identifying number) 22. Remarks 23. Remarks 24. (204) SA-240-304.02 * Plastes Distance between Heads = 24.09 * Customer PO#: \$138841 Tag #: CERTIFICATE OF SHOP 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 Code for Pressure Vessels, Section VIII, Division 1. U. Certificate of Authorization No. 25,017 Date 71 Leg ** Date 71 Leg ** Name Alfa Laval Thermal, Inc. Signed Commission issued by The National Board of Boiler and Pressure Vessel happacities and the State or Province of As and employed by Commission with SASME Code for Pressure vessel in accordance with SASME Code for Section VIII, Division 1. September 1. Signed Conformation No. 25,017 Liste undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel happacters and the State or Province of VA. and employed by Commission with SASME Code Section VIII, Division 1. September 1. September 1. September 1. September 1. September 2. Sept			 					1 1				
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22. Remarks [204] SA-240-304 .02 " Plates Distance between Heads = 24.09 " Customer PO#: \$138841 Tag #: CERTIFICATE OF SHOP 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 Code for Pressure Vessels, Section VIII, Division 1. U Certificate of Authorization No25,017 Date	20. Supports: Skirt	(Yes	or no)			Others _			AttachedBC		how)	
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U Certificate of Authorization No. 25,017 Date	NA											
U Certificate of Authorization No							tails of desig	gn, mate	rial, construction, and	d workmar	nship of th	ns vessel
Name Alfa Lavel Thermal, Inc. Name Alfa Lavel Thermal, Inc. Name Alfa Lavel Thermal, Inc. Name Name Alfa Lavel Thermal, Inc. Name						, _,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Evniron . Aug	uet O		1000
CERTIFICATE OF SHOP INSPECTION I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the State or Province of An and employed by Commercial Union of Boston MA have inspected the pressure vessel described in this Manufacturer's Data Report on 7-15-19 9 , and state that to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his 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								C:			,	1999
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Commissions #355334 FL 385 Commissions #355334 FL 385 CERTIFICATE OF FIELD ASSEMBLY COMPLIANCE We certify that the statements made in this report are correct and that the field assembly construction of all parts of this vessel conforms with the requirements of ASME Code, Section VIII, Division 1. U Certificate of Authorization No. Date Name (Assembler) CERTIFICATE OF FIELD ASSEMBLY INSPECTION I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the State or Province of and employed by statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items not included in the certificate of shop inspection, have been inspected by me and to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with ASME Code, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic test of psi. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his 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.						-				•		
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U Certificate of Authorization No					CERTIFICATE (OF FIELD AS	SEMBLY	COMP	LIANCE			
U Certificate of Authorization No	We certify that	the s	tatement	s made in th	nis report are correct	and that the fie	eld assembly	constru	oction of all parts of t	his vessel	conforms	with the
Name Signed CERTIFICATE OF FIELD ASSEMBLY INSPECTION	·				•				otton or an parto or t	100001	00111011110	With the
Name Signed CERTIFICATE OF FIELD ASSEMBLY INSPECTION	U Certificate o	f Auth	orization	No.					Expires			
CERTIFICATE OF FIELD ASSEMBLY INSPECTION I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the State or Province of and employed by of have compared the statements in this Manufacturer's Data Report with the described pressure vessel and state that parts referred to as data items, not included in the certificate of shop inspection, have been inspected by me and to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with ASME Code, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic test of psi. By signing this certificate neither the inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his 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.	_	ate Name							Signed			
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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 Signed Commissions												
(Authorized Inspector) (Net'l Deard incl. andergoment State Drawings and No.)	Date			Signed			Comm	issions				