99663

FORM U-1 MANUFACTURERS' DATA REPORT FOR UNFIRED PRESSURE VESSELS As required by the Provisions of the ASME Code Rules 1. Manufactured by Process Engineering & Machine Co. Inc. 442 York St. Elizabeth, N. J. 2. Manufactured for Struthers Scientific & International Corp., Warren, Pennsylvania (Name and address of Purchaser) 3. Type Vert. Kind Heat Exch. Vessel No. (4779 (Mirs. Serial) (State & State No. (State No. (State & State No. (State No. (St _ Yr. Built 1971 Items 4-9 incl. to be completed for single wall vessels (such as air tanks) jackets of jacketed vessels, or shells of heat eleganders. 3-7 4. SHELL: Material SA-53-B(OH) T.S. 60,000 Nominal Thickness 375 Corrosion 1/16 (Kind and Spec. No.) (Fig. or F.B. & Spec. Min. T.S.) 5. SEAMS: Long SMLS . H.T. No R.T. No Sectioned No Efficiency ____ scribe seams fully on treverse side of Girth W.D.B. H.T. No No Sectioned No. of Courses 2*** 6. HEADS (a) Material Crown Knuckle Elliptical Conical (Top, bottom, ends) Threkness Redips Radius Ratio Apex Angle Plat. Side to Pressure Diameter (Convex or Concav Hemispherical Radius (a) If removable, bolts used (Material, Spec. No., T.S., Size, Number) Other fastening _ 7. STAYBOLTS: If hollow Attachment Pitch X Diam. (Naterial) (Size of Hole) (Threaded, Welded) (Horiz.) (Verti): 1/2 (Nominal) 8. JACKET CLOSURE: ___ (Describe as ogee & weld, bur, etc. li bar, give dimensions, if bolted, describe or sketch) Hydrostatic Test Constructed for max. allowable working press 20 psi at max. temp. 250 F. dess than 1993 --- Press 135 9. Constructed for max. Items 10 and 11 to be completed for tube sections, 10. TUBE SHEETS: Stationary, Material SA-240-TP-304-L Di 25.013 In. Thickness 11/n. Attachment Welded (Welded, Bolted) Floating. Material (Kind & Spec. No.) __ Diam.____ In. Thickness ___ In. Attachment _ 11. TUBES: Material TP304-L O.D. **Justice** 2 In. Thickness #16 Type Straight (Straight or U) ___ or Gage Number_ Items 12-15 incl. to be completed for inner chambers of jacketed vessels, or channels of heat exchangers. 1@ 0' 8-1/2" 12. SHELL Material SA240TP304L T.S. 70,000 Nominal 3/16 Corrosion Olive No. 10 No. 10 Nominal 3/16 No. 10 Nominal 3/16 No. 10 No. 1 If riveted to 13. SEAMS: Long Wolded, Dol., Single, Lap, Butt) (Yes or No) R.T. Spot Sectioned No (Yes or No) (Yes or No) scribe seams fully on re-W.D.B. No H.T._ R.T. Spot Sectioned No No. of courses 1 (Ea. 14. HEADS (a) Materia A240TP304LT.S. 70,000 (b) Material _ T.S. ____ ____(c) Material Elliptical Rutio Knuc kle Radius Conical Apex Angle Flat Diameter Side to Pressure (Convex or Concave) (a) Top, bottom, ends_ Convex (b) Channel (c) Floating If removable, bolts used (a) SA-193-B7, 125, 000, 5/8 (24) (b) Other fastening (Describe or Attach Sketch) Hydrostatic 15. Constructed for max. Full Vac at max. temp. 250 °F. dozenham 200) _______ Sandana or allowable working pressure value at max. temp. 250 °F. dozenham 200) _______ Sandana or allowable working pressure value of the continuation of the continuat Items below to be completed for all vessels where applicable. 16. SAFETY VALVE OUTLETS: Number__ 17. NOZZLES Purpose (Inlet, Outlet, Brain) Reinforcement Material How Attached Type Material Thickness 8"-150#ASA RF WN Flg. SA-53-B(OH) Inlet Sch.#80 ----Welded 2"-150#ASA RF WN F1g. SA-53-B(OH) Sch.#80 ----3"-150#ASA RF WN F1g. SA-53-B(OH) Sch.#80 -----1"-150#ASA RF WN F1g. SA-106-B(OH) Sch.#80 -----Outlet Welded Outlet Welded Outlet Welded 1-1/2"-150#ASA RF WN F1g. SA-312-TP-304L Sch.#40 -- 24"-150#ASA LJ F1g. SA-240-TP-304L 1/4" Tk. ----Outlet Welded 24 -90 Sch. #10 Short Red. Weld Elbow

FORM U-1 (back)

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INSPE	CTION Manholes, No	Size	Location			
OPEN	INGS: Handholes, No.	Size	1.ocation_			
CHIDDY	Threaded, NoORTS: Skirt NO (Yes or No)	Luce Four (4)	Lace NO	Other No.	Shell-	Welde
SUFF	(Yes or No)	(Number)	(Number)	(Descri	ibe) Attached (Whe	re & How)
REMA	RKS: Unit is to be u	sed as a First	Stage Heate	r in a cher	nical proces	s. TE
	23-240, Type BEM(V)					
*	Ship To: Hoffmann-	La Roche, Inc.	0011 2-10-02	2020710071	Equip.# HEX	-580
	Belvidere	, New Jersey			-1	
F-W	Allowable Stress re		Wil neg ing	-12-C		
乔	Shell is equipped w	ith a Vapor Be	1t(2) 30"0.I	x 3/8"Tk	. Flanged on	lv fl
	Heads with(1) Shell	Sect. 3/8" x	30" Ó.D. x 1	6"Lg. (SA-	285-C-FlgT	S-55.
·	(Brief description of purpose of th					- 228
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We c	ertify that the statements made in	this report are correct and actionized Pressure Vessel	that all details of de	sign, material con:	struction, and workma	anship
tills v	essel conform to the ASME Code for	Process F	ngineering	& //1,,l	1 1/1/1/2000	0 0
re	AUG 31 1971 19	Signed Machine C	company, Inc	. By / WWW	ear / Man	eli
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Certi	ificate of Authorization Expires	hedemner Dr'	1913			
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- 1	a.	CERTIFICATE OF 8	SHOP INSPECTIO	Ň		ł
	VESSEL MADE BY Process	Engineering & N	facha Co., E	lizabeth. N	lew Jersev	- 1
-	I, the undersigned, holding a vali					1
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.	the State or Province New Jer Company	Estano empoyee by EMD	Tolete countie	LOTAT OUTO	il Eliburatice	
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- 1	By signing this certificate neith-					
	pressure vessel described in this m in any manner for any personal inj	anulacturer's data report, Fu	thermore, neither the	nspector nor his emp	loyer shall be liable	
- 1	AUG 3 1 1971	ory or property damage or a	ices of any killing arisi	ng from or connected	with this hispection.	1
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	Inspectors Signatur	e	Mat	-1 Dusta or State and		
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.	1, the undersigned, holding a val	id commission issued by the	National Board of Bot	er and Pressure ves		
- 1	the State or Province				of	
		have	compared the states	ients in this manula	acturer's data report	
1	with the described pressure vessel not included in the certificate of	shop inspection have been !	nspected by me and t	hat to the best of my	knowledge and belief	1
	the manufacturer has constructed	and assembled this pressure	vessel in accordance	with the applicable	sections of the ASME	
1	Boiler and Pressure Vessel Code.	The described vessel was insp	pected and subjected to	a hydrostatic test of	psi,	1
1						
	By signing this certificate neith pressure vessel described in this	er the Inspector nor his emp	ployer makes any warr urthermore, neither the	anty, expressed or in	aplied, concerning the	
	In any manner for any personal in	july or property damage or to	loss of any kind aris	ing from or connected	with this inspection.	
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