PO # 101210 Perry Job # 17692

A Part of a Pressure Vessel Fabricated by One Manufacturer for Another Manufacturer As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. 1	Manufactured a	and certified t	y Perry	Products C	orporation	n 25 Mt	. Laurel F			ort, NJ 080									
2. 1	(Name and address of Manufacturer) DARAMIC, LLC, 5525 US 60 EAST, OWENSBORO, KY 42303 (Name and address of Purchaser)																		
3. L	ocation of inst	allation	Same					`		•									
	Гуре:		Heat Exc	hanger She	(Name and address) ell Assembly B-7688														
7	турс. ——	(Description	of vessel pa	art (shell, two-	piece head, t	ube bundle))		s serial No.)		(CRN)								
		7652			17692-A Rev. 0					roducts Corp		2012							
(Nat'l. Bd. No.) 5. ASME Code, Section VIII, Div. 1					Drawin lition / 20			awing prepared 2714		(Year built)									
					nd Addenda					de Case No.		-	500.00	ial Servic	e per l	UG-120(d)			
	ns 6 - 11 incl. to Shell (a) No. o		ed for single	wall vessels, j	ackets of jac	keted vess		neat exch verall len		or chamber of m			essels.						
	Course(s)		Ma	Material Th				hickness Long Joint (Cat. A) Ci					Circum, Joint (Cat. A, B & C) Heat Treatment					
No.	Diameter, in.	Length ft. & i	n.	Spec./Grade or Type				Corr.		Type Full, Spot, None Eff.			Full, Spot, None Eff.			Гетр.	Time		
1	16" OD	15'- 9 1/4	"	SA-3	12 TP304		0.188"	0"	1	None	85%								
												1							
								4.											
/. F	leads: (a)	(N	lat'l Spec. N	o., Grade or T	ype) H.TTin	ne & Temp		(b) (Mat'l Spec. No.,				Grade or Type) H.TTime & Temp							
Location (To		(Top, Thickn		ess Radius		Elliptical	Conical	Hem	ispheric	al Flat	Sid	e to Pre	ssure			Category /	4		
	Bottom, Ends)	Min.	Corr.	Crown	Knuckle	Ratio	Apex Angle	· !	Radius	Diameter	Conv	ex C	oncave	Type F	Full, S	oot, None	Eff.		
(a) (b)								_						-					
	movable, bolts Type of jacket	used (descri	be other rasi		Jack	(Mat'l Spec. No., Grade, Size, No.) Jacket closure													
											(D	escribe	as ogee &	weld, ba	r, etc.)				
	MAWP	ensions V & 75 (internal)	 (externa	• 1100 01000	max. temp.	300 (internal) (ex	ternal)	_ of	Min. design n	netal te	mp.	0		ited, de Fat	FV &			
10	Impact test	No per C	ode para	graphs UH	A-51.					41		at test te	mperature	e of _			°F		
	lydro., pojeck xip c	Whit test press	. 1	03 Psig(H	ydro)	(Indicate y		the com	ponent(s) impact tested)									
	ns 12 and 13 to	be complete	d for tube se		16"				1-3/8"				0" Welded						
12. Tubesheet: SA-240 304 Stationary (Mat'l Spec. No)					Dia., in. (su	ess.)	Nom. thk., in. Corr. Allow., ir												
	Floating	, (Mat'l Spec.	No.)		Dia.	, in.		Nom. thk.	., in.	Corr. All	ow., in.			Attach	ment				
13.Tubes: SA-249 TP304 3/4"							18 GA. 192								Straight				
tem	Mat'l ns 14 - 18 incl.	Spec. No., G to be comple			O.D., acketed vess					gauge	N	lumber			ı ype (S	Straight or	U)		
	Shell (a) No. o	,	`	•				verall len		in.):									
	Co	ourse(s)		Ma	Material			kness		Long Joint (Cat.		. A) Circi		ım, Joint (Cat. A, E		Heat Ti	reatment		
No.	Diameter, in.	Length ft. 8	in.	Spec./Gr	ade or Type		Nom.	Corr.	Туре	Full, Spot, Non		-		ot, None			Time		
									+				-						
							1												

Form U-2 (Back)

15. Heads: (a)		(Mat'l	Spec No. (Grade or Tvi	pe) H.TTime	& Temp	(b)		(Mat'l	Spec. N	No Grade o	r Type) H.T	Time	& Temp		_
			hickness		Radius		Conical	Hemispheric	<u> </u>	· · · · · · · · · · · · · · · · · · ·		Pressure		Category A		
Bottom, Ends	-	Min.	Corr.	Crown	Knuckle	Ratio	Apex Angle	Radius		meter	Convex	Concave	Туре	Full, Spot, N		— f.
(a)																
(b)					-											10707
	_				h.,											
If removable, bolts	uco	d (describe	other factoric	na)												
ii removable, boli	use	a (describe t	otilei lasteitii	·9)				(Mat'l	Spec. No	., Grade	e, Size, No.)					_
16. MAWP				nsi at m	ax. temp.			°F I	Min. desig	ın meta	I temp.		O	Fat	psi.	
_	inter	nal)	(external)	par ac		(internal)	(external)						-			
17. Impact test		,	(2			,	,			а	t test tempe	rature of _			°F	
Tr. Impact toot				-	(Indicate	e yes or no	and the compone	ent(s) impact	tested)							
18. Hydro.)⁄()∕() ∕() ()	ex x	Manaka testore	ess			Proof tes	t ===									
19. Nozzles, inspe	200			ngs:												
Purpose (inlet,		Diameter	Flange			Materia	al	Nozzle Th	nickness	Rei	einforcement		Attach		Location	
Outlet, Drain, etc.	Diameter			Nozzle		Flange	Flange Nom.			Material	Nozzle UW-16.1		Flange Fig.	(Insp. Oper	n)	
Inlet / Outlet	2	3"	CL150	SO	SA-312 TI	P304	SA-182 F304	Std Wt	0"			d		3		
	+															
																_
		-											\neg			_
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	+												+			_
	-				4	1							W	elded to n	nain shel	1
20. Supports: Sk	rt		l	Lugs —	<u>. </u>	Legs _	Oth	ners				Attached	-			
		(Yes or N	10)	(N	0.)		(No.)		(Desc	ribe)				(Where and	J How)	
21. Remarks: U	nit r	ot desigr	ned for let	hal servi	ce. UG-46	(a).										
Unit hydro	test	ed in hor	izontal po	sition. U	ser or his/h	ner desig	nated agent is	responsib	ole for o	overpr	essure pr	otection p	er U	G-125.		
Tubeside d	esig	n data: N	AWP: F	V & 75 p	sig @ 300	F, MDN	ит: 0 F @ FV	/ & 75 psi	g, 0" C	orrosi	on Allow	ance.				
Tubeside c																_
	***************************************		1000 10 10 10 10 10		11 7											_
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				1.000.000		~~										-
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	1.5															_
Perry Job #	170	392														_
					CERTIF	ICATE (OF SHOP/FIE	LD COMP	LIANC	Ε						
We certify that	he s	tatements	made in thi	is report a	re correct ar	nd that all	details of mate	rial, constru	action, a	nd wor	kmanship	of this pres	sure '	vessel part	conform	
to the ASME Co																
U Certificate of	Auth	orization N	No.		4328	}		Expires		1	1/17		_	2012		
			- N								^		CI			
Date Oct	09,	2012	Name	900 9100 P	Perry	Products	s Corporation			Signe	d <u>U</u>	swil	<u>. W</u>	de		
-						(Manufa						(Rep	esen	tative)		_
							OF SHOP/FI						_		NII	
I, the undersign	ed,	nolding a v	/alid commi	ission issu			oard of Boiler a	nd Pressure							NJ	
and employed i	•	1.00				3 CT				of _		tford, CT		have inspe		
pressure vesse							Jun 07, 2					est of my				
Manufacturer ha																5
employer make																
inspector nor hi	em	ployer shaf	ll be liable ir	n any manr	ner for any p	ersonal in	jury or property	damage or a	a loss of	any kin	d arising f	rom or conn	ected	I with this in	spection.	
			74	m	W.	10-										
Date Oct	09,	2012	Signed	MAI	10 M	14/1/2	7	Commission		- 41 5		050ABN			ond Ma	
	_			AAA	thorized Inc	neefor)			(Na	at'i Boa	ard incl. en	dorsement.	State	a. Province	and No.)	