	18087	-A Rev wing #			FO	RM U-1 MANU	FACTURE	R'S DAT		TF	OR PRESSI	URE \	VESSE	LS					
	B-i	8005 g SN		A	As Require	d by the Provisio	ns of the ASM	/IE Boiler a	and Pressu	re Ve	essel Code Ru	ules, S	ection V	/III, Divis	sion 1				
1. N			d certifie	d by P	erry Pro	ducts Corpo	ration, 25 I	Mount L						sey, 08	3036, U	SA			_
2 1	lanufacture	d for	Darar	nic, Ll	_C, 5525	US 60 East,	Owensbor	o, Kent	(Name ar u cky, 42 3	d ad 303,	ldress of Manu , USA	ufactur	rer)						
						5525 US 60 E		(Na	me and ad	dress	s of Purchaser	r)							
3. L	ocation of ir	nstall	ation <u></u>	arann	IC, LLC,	5525 05 00 E	ası, Owen	50010, 1			nd address)								
4. T	ype	rizont	Vertica				(Tank, sepa		xchanger		h etc.)			(1	Manufact	B-8005 urer's seria	al numbe	ar)	
	(10)	120110	, 	n, or spi	iere)			-		L CAU				8006	Manufact			2015	
			N/A (CRN)					8087-A re rawing nur				(Nationa		number)		(Y	ear built)	
5.	ASME Code	e, Se	ection VI	II, Div.	1	2 [Edition and Add	013/ N/A	aabla (da	to)]		Code Ca	N/A	(mbor)		[800	cial Servic		120(4)1	
	Items 6-11	incl	to be co	mnlete	ed for sin	gle wall vessels			/-	she			,	chamh			-		
6. S	hell: (a) Nu				1			rall length	-	0,10,	in on mout oxe		9.50"	onanna		antionranna			
	Co	urse(s	5)		•	laterial	Thic	kness		Lond	g. Joint (Cat. A)		i	m. Joint	(Cat. A, E	3, & C)	- Heat	Treatmen	nt
No.	Diameter	<u>`</u>	Leng	gth	Spec./G	Grade or Type	Nom.	Cori	. Туре		III, Spot, None	Eff.	Type F	⁻ ull, Spo	t, None	Eff.	Temp.	Tim	ne
1	12.75" OI)	10' 9.	50"	SA-3	12TP-304	0.188"	0.00	" 1		None	85%	7	Nor	ne	100%	N/A	N//	A
				1		1		Body Flan	ges on She	ells					B	olting			
No.	Туре		ID	OD	Flang Thk		Mate	erial	How Attached	ł	Location	Num	n & Size		olting aterial	Washer (th		Wash Mater	
N/A	N/A		N/A	N/A	N/A	N/A	N/A		N/A	N	I/A	N/A		N/A	atoriai	N/A	,	N/A	
7.	Heads: (a)					N/A				((b)				N/A				
		<u>`</u>				e or type) (H.T		1	Conicol	Anov	,					/pe) (H.T.			
	Location (To Bottom, End	op,		bec. nur hicknes		e or type) (H.T Radii Crown		Elliptica	l Conical Angl		· · · · · ·	al	spec. nu Flat ameter	Side to	rade or ty Pressure Concave	ype) (H.T. Type	Catego		Eff.
(a)		op,	T		S	Radi	us	Elliptica		e	Hemispherica	al	Flat	Side to	Pressure		Catego Full, S	ry A	Eff.
(a)	Bottom, End	op,	T Min.		s Corr.	Radii	us Knuckle N/A	Elliptica Ratio	Angl	e	Hemispherica Radius	al	Flat ameter	Side to	Pressure Concave	Type N/A	Catego Full, S	ry A pot, None	
(a)	Bottom, End	op, ds)	T Min.		s Corr.	Radii Crown N/A	us Knuckle N/A E Min Hub	Elliptica Ratio	Angl N/A ges on Hea	e ds	Hemispherica Radius	al Di	Flat ameter N/A	Side to Convex	Pressure Concave B	Type N/A	Catego Full, S	pot, None	N/A
No.	Bottom, End	op, ds) -	T Min. N/A	Thickness	s Corr. N/A OE	Radii Crown N/A Flange Thk	us Knuckle N/A E Min Hub Thk	Elliptica Ratio N/A Body Flang Mate	Angl N/A ges on Hea erial	ds Hov	Hemispherica Radius N/A	al Di	Flat ameter	Side to Convex	Pressure Concave B ting Mate	Type N/A iolting rial Washe	Catego Full, S er (OD, thk)	ry A pot, None N/A Vasher Ma	N/A
No. (a)	Bottom, Ènd N/A Location N/A	op, ds) N/A	T Min. N/A	hicknes:	s Corr. N/A	Radii Crown N/A Flange Thk N/A	us Knuckle N/A E Min Hub	Elliptica Ratio N/A Body Flang	Angl N/A ges on Hea erial	ds Hov	Hemispherica Radius N/A w Attached	al Di	Flat ameter N/A	Side to Convex	Pressure Concave B ting Mate	Type N/A	Catego Full, S er (OD, thk)	pot, None	N/A
No. (a)	Bottom, End	op, ds) N/A	T Min. N/A	Thickness	s Corr. N/A OE	Radii Crown N/A Flange Thk	us Knuckle N/A E Min Hub Thk	Elliptica Ratio N/A Body Flang Mate	Angl N/A ges on Hea erial	ds Hov	Hemispherica Radius N/A	al Di	Flat ameter N/A m & Size	Side to Convex	Pressure Concave B ting Mate	Type N/A solting rial Washe ID, N/A	Catego	ry A pot, None N/A Vasher Ma	N/A
No. (a) 8. T	Bottom, Ènd N/A Location N/A	op, ds) N/A	T Min. N/A Type	Thickness	s Corr. N/A OE	Radii Crown N/A Flange Thk N/A	us Knuckle N/A E Min Hub Thk	Elliptica Ratio N/A Body Flang Mate	Angl N/A ges on Hea erial	ds Hov	Hemispherica Radius N/A w Attached	al Di	Flat ameter N/A m & Size	Side to Convex	Pressure Concave B ting Mate	Type N/A Naho ID, N/A A & weld, ba	Catego Full, S er (OD, V thk)	ry A pot, None N/A Vasher Ma	N/A aterial
No. (a) 8. T	Bottom, End N/A Location N/A ype of jacke bar, give dir	n/A	T Min. N/A Type	Thickness	s Corr. N/A OD	Radii Crown N/A Flange Thk N/A	JS Knuckle N/A E Min Hub Thk N/A	Elliptica Ratio N/A Body Flang Mate	Angl N/A ges on Hea erial N Jac	ds Hov	Hemispherica Radius N/A w Attached closure	al Di	Flat ameter N/A m & Size	Side to Convex	Pressure Concave B ting Mate A N// as ogee	Type N/A Naho ID, N/A A & weld, ba	Catego Full, S er (OD, V thk)	ry A pot, None N/A Vasher Ma V/A	N/A aterial etch.
No. (a) 8. T If 9. M/	Bottom, End N/A Location N/A ype of jacke bar, give din	op, ds) N/A	T Min. N/A Type	Thickness	s Corr. N/A OE	Radii Crown N/A Flange Thk N/A N/A N/A at max. terr	JS Knuckle N/A E Min Hub Thk N/A P. <u>32</u> (Inter	Elliptica Ratio N/A 30dy Flang Mate N/A	Angl Jes on Hea Perial A M/A (Ext	ds Hov	Hemispherica Radius N/A w Attached closure	al Di	Flat iameter N/A m & Size	Side to Convex	Pressure Concave B ting Mate A N// a as ogee D.	Type N/A N/A ID, N/A N/A & weld, ba If bolt 0 °F	Catego	ry A pot, None N/A Washer Ma V/A ribe or ske	aterial etch.
No. (a) 8. T If 9. M/	Bottom, End N/A Location N/A ype of jacke bar, give dir	op, ds) N/A t t 	T Min. N/A Type	Thickness	s Corr. N/A OE N/A	Radii Crown N/A Flange Thk N/A N/A N/A at max. terr	JS Knuckle N/A E Min Hub Thk N/A P. <u>32</u> (Inter Jo per Para	Elliptica Ratio N/A Body Flang Mate N/A	Angl Jes on Hea erial Jac N/A (Ext HA-51	e Hov I/A ket	W Attached	al Di	Flat iameter N/A m & Size	Side to Convex	Pressure Concave B ting Mate A N// a as ogee D.	Type N/A N/A ID, N/A A & weld, ba	Catego	ry A pot, None N/A Washer Ma V/A ribe or ske	N/A aterial etch.
No. (a) 8. Ty If 9. M/ 10. Ii	Bottom, End N/A Location N/A ype of jacke bar, give din AWP	op, dds) N/A t 100 (Inter	T Min. N/A Type sions psi nal)	ID	S Corr. N/A OD N/A (External)	Radii Crown N/A Flange Thk N/A N/A at max. tem	JS Knuckle N/A E Min Hub Thk N/A P. <u>32</u> (Inter Jo per Para	Elliptica Ratio N/A Body Flang Mate N/A N/A	Angl Jes on Hea erial Jac N/A (Ext HA-51	e Hov I/A ket	W Attached	al Di	Flat ameter N/A m & Size (D	Side to Convex	Pressure Concave B ting Mate A N// a as ogee D.	Type N/A N/A ID, N/A N/A & weld, ba If bolt 0 °F	Catego	ry A pot, None N/A Washer Ma V/A ribe or ske	aterial etch.
No. (a) 8. Ty If 9. M <i>J</i> 10. In 11. H	Bottom, End N/A Location N/A ype of jacke bar, give dir bar, give dir AWP mpact test ydro., pneu., o tems 12 and	op,	Min. N/A N/A Type sions psi nal)	ID ID N/A	s Corr. N/A OE N/A N/A (External) Hydro	Radii Crown N/A Flange Thk N/A N/A at max. terr Indicate yes test at 139 PSI	JS Knuckle N/A E Min Hub Thk N/A N/A p. <u>32</u> (Inter Jo per Para or no and the	Elliptica Ratio N/A Body Flang Mate N/A N/A	Angl Jes on Hea erial Jac N/A (Ext HA-51	e Hov I/A ket	Hemispherica Radius N/A w Attached closure closure Min	al Di	Flat ameter N/A m & Size (D	Bol Bol N//	Pressure Concave B ting Mate A N// as ogee pat	Type N/A N/A ID, N/A N/A & weld, ba If bolt 0 °F	Catego	ry A pot, None N/A Vasher Ma V/A ribe or ske 100 PS	aterial etch.
No. (a) 8. Ty If 9. M <i>J</i> 10. In 11. H	Bottom, End N/A Location N/A ype of jacke bar, give dir AWP mpact test ydro., pneu., o	op,	Min. N/A N/A Type sions psi nal) nb. test p to be cor	Thickness ID ID N/A ressure mpletec SA-1	s Corr. N/A OD N/A (External) Hydro	Radii Crown N/A Flange Thk N/A N/A at max. terr Indicate yes test at 139 PSI sections.	JS Knuckle N/A E Min Hub Thk N/A N/A p. <u>32</u> (Inter Jo per Para or no and the	Eliptica Ratio N/A 30dy Flang Mate N/A N/A 0 °F mnal) graph U compone est 12.25"	Angl Jes on Hea Perial Jac N/A (Ext HA-51 nt(s) impace	e Hov I/A cket <u>N/A</u> ernal	W Attached	Al Di	Flat ameter N/A m & Size (D ign met	Bole Bole N//	Pressure Concave B ting Mate A N// as ogee pat	Type N/A N/A ID, N/A & weld, ba If bolt 0 °F test temp	Catego Full, S Pull, S er (OD, V thk) I ar, etc.) ed, desc at _ perature Wel	ry A pot, None N/A Vasher Ma V/A ribe or ske 100 PS	N/A aterial etch. Si
No. (a) 8. Ty If 9. M <i>J</i> 10. In 11. H	Bottom, End N/A Location N/A ype of jacke bar, give dir bar, give dir AWP mpact test ydro., pneu., o tems 12 and	op,	N/A Min. N/A Type sions psi nal) nb. test p to be cor [Statio	hickness ID ID N/A ressure mpletect SA-1 nary (m	S Corr. N/A OE N/A N/A (External) Hydro d for tube 82F-304 aterial spe N/A	Radii Crown N/A Flange Thk N/A N/A N/A at max. tem Indicate yes test at 139 PSI sections.	JS Knuckle N/A Min Hub Thk N/A N/A Inter Or no and the Proof te [Diameter	Elliptica Ratio N/A 3ody Flang Mate N/A 0 °F rnal) graph U compone est (subject to N/A	Angl Jes on Hea Perial Jac N/A (Ext HA-51 nt(s) impace	e Hov I/A Cket N/A emal	Hemispherica Radius N/A w Attached closure closure Min I) sted] <u>1.25"</u> Nominal thickn	al Di Di	Flat ameter N/A m & Size (D ign met	Bol Bol Bol Bol Bol Bol Bol Bol Bol Bol	Pressure Concave B ting Mate A A v as ogee p. at	Type N/A N/A ID, N/A & weld, ba If bolt 0 °F test temp	Catego Full, S Full, S Professional Car, Cor, V Car, etc.) For at Corrature Cora	ry A pot, None N/A Vasher Ma Vasher Ma V/A ribe or ske 100 PS 0 of <u>N</u> elded or bo /A	N/A aterial etch. Si
No. (a) 8. Ty If 9. M/ 10. In 11. H // 12. T	Bottom, End N/A Location N/A ype of jacke bar, give dir bar, give dir AWP mpact test ydro., pneu., o tems 12 and	op,	N/A Min. N/A Type sions psi nal) nb. test p to be cor [Statio	hickness ID N/A ressure mpletec SA-1 nary (m	s Corr. N/A OE N/A (External) Hydro d for tube 82F-304 aterial spe	Radii Crown N/A Flange Thk N/A N/A N/A at max. tem Indicate yes test at 139 PSI sections.	JS Knuckle N/A Min Hub Thk N/A N/A Inter Or no and the Proof te [Diameter	Elliptica Ratio N/A 3ody Flang Mate N/A N/A 0 °F rnal) •graph U • compone •st 	Angl Jes on Hea Perial Jac N/A (Ext HA-51 nt(s) impace	e Hov I/A Cket N/A emal	Hemispherica Radius N/A w Attached closure closure 1) sted] 1.25" Nominal thickn	al Di Di	Flat ameter N/A m & Size (D ign met	Bol Bol Bescribe al temp /A Corr. allo	Pressure Concave B ting Mate A A v as ogee p. at	Type N/A N/A ID, N/A & weld, ba If bolt 0 °F test temp	Catego Full, S Full, S er (OD, V thk) I ar, etc.) ed, desc at perature at perature at perature at	ry A pot, None N/A Vasher Ma Vasher Ma V/A ribe or ske 100 PS a of <u>N</u> e of <u>N</u>	N/A aterial etch. Si

FORM U1-(Cont'd)

NB Number 8006

Course(s)			Material			Thickness			Long. Joint (Cat. A)			um. Join	t (Cat. A,	B, & C)	Heat Treatment		nt	
No.	Diamete	r	Leng	jth	Spec./Gra	de or Type	Nom.	Corr.	Туре	Full, Spot, Non	e Eff.	Туре	Full, Spo	ot, None	Eff.	Temp.	. Ti	me
	N/A		N/A	4	N	/A	N/A	N/A	N/A	N/A	N/A	N/A	N/	A	N/A	N/A	N	/A
								Body Flang	es on Shel	ls								
No. Type		ID	OD	Flange Thk	Min Hub Thk	Mate	erial	How Attached	Location	Nu	m & Size		E Bolting laterial	Bolting Washer (the		Was Mate		
		N/A	N/A	N/A	N/A	N/A		N/A	N/A	N/A		N/A	atorial	N/A	4	N/A	inai	
	leads: (a)					/BP-304	1.4.1			(b)	1.00		1.42	N/A	1.4.1			
		()	Material sp	ec. numb	er, grade o	or type) (H.T	time and ten	np.)		(~) (N	lateria	spec. nu	umber, g	grade or	type) (H.T.	- time a	nd temp.)	
	Location (T			hickness		Radi	us	Elliptical		pex Hemispher		Flat	Side to	Pressure	è	Catego	ory A	
	Bottom, En	ids)	Min.		orr.	Crown	Knuckle	Ratio	Angle			Diameter	Convex	Concave	71	Full, S	Spot, None	Ef
(a)	TOP		0.0625		00"	N/A	N/A	2:1	N/A	N/A		N/A		X	S	1	lone	100
(b)	BOTTO	М	0.0625	"0.	00"	N/A	N/A	2:1	N/A	N/A		N/A		X	S	1	lone	100
								Body Flange	s on Head	ls								
No.	Location		Туре	ID	OD	Flange Thk	Min Hub Thk	Mater	ial	How Attached	N	um & Siz	e Bo	Iting Mate	Bolting erial Washe	er (OD,	Washer N	lateri
a)	ENDS	RFS	s0	12.88"	19.00"	1.25"	0.75"	SA-182F-3	04 W	elded	12 -	1"		A-193-B7		,	N/A	
	IAWP	FV 8	2 75	N/A	A a	t max. temp.	320	°F	N/A	A Min.	desig	n metal	temp.	(0 °F	_ at _	FV & 7	5 PS
17 1			& 75 rnal)	N// (Exter	A anal) a	t max. temp.				A Min. nal)	desig	n metal	temp.					
17. lı	npact test		& 75 rnal)	N// (Exter		N	o Per Para	igraph UH	A-51		desig	n metal	temp.		0 °F test tempe			5 PS
	mpact test				[Inc	N dicate yes or	o Per Para no and the	graph UH compone	A-51	act tested]	desig	n metal						
18. H	mpact test Hydro., pne	eu., o	or comb.	test pre	[Ind	N dicate yes or Hydro	o Per Para	graph UH compone	A-51 nt(s) impa	act tested]	desig	n metal		at t				
18. H 19. N	mpact test Hydro., pne lozzles, ins	eu., o	or comb. ion, and	. test pre safety va	[Ind ssure live open	N dicate yes or Hydro ings:	o Per Para no and the	graph UH componei SI	A-51 ht(s) impa Proof test	act tested]				at t	test tempe		of <u>N</u>	
18. H 19. N	mpact test Hydro., pne	eu., o	or comb.	test pre	[Ind	N dicate yes or Hydro ings:	o Per Para no and the b. at 104 P a	graph UH componei SI	A-51 ht(s) impa Proof test	act tested]		cement	Δ	at t N/A	test tempe	erature		I/A
18. H 19. N ^D urpos	mpact test Hydro., pne lozzles, ins se (Inlet, Outlet,	eu., o spect	or comb. ion, and	. test pre safety va Diameter	[Ind ssure live open	N dicate yes or Hydro ings:	o Per Para no and the b. at 104 P Material	igraph UH componei SI	A-51 ht(s) impa Proof test Nozzle Nom.	e Thickness Corr.	Reinfor	cement	A No:	Attachment	test tempe	erature	of <u>N</u>	I/A
18. H 19. N ^D urpos	Hydro., pro lozzles, ins lozzles, ins lozzles, ins lozzles, ins	eu., o spect	or comb. ion, and	. test pre safety va Diameter or Size	[Ind ssure live open	N dicate yes or Hydro ings: e No: FSO SA-312 FSO SA-312	o Per Para no and the b. at 104 Ps Material zzle TP-304 S	graph UH componen SI Flange	A-51 Proof test Nozzle Nom. 0.216	e Thickness Corr. 0.00" 0.00"	Reinfor	cement	A No: UW-1 UW-1	at t N/A Attachment zzle 6.1(d) I 6.1(d) I	test tempe Details Flange	erature (of <u>N</u>	I/A

UG-46(a) User or Designated Agent is responsible for Overpressure Protection per UG-125

Form U-5 Attached....

NB Number 8006

FORM U1-(Cont'd)

			CERTIFICATE OF SHO are correct and that all details of design CODE, Section VIII, Division 1. U Certi	n, material, construction, a		-				
Date	03/26/2015	Name	Perry Products Corporati	ion	Signed	Brandi & Holimour				
-			(Manufacturer)			(Representative)	-			
			CERTIFICATE OF SHO	P INSPECTION						
l, the u	Indersigned, hold	ling a valid commis	sion issued by the National Board o	f Boiler and Pressure Ve	essel Inspec	tors and employed by				
HSB C	Blobal Standard	s, of Hartford, CT					_			
			d in this Manufacturer's Data Report o	Warch 21, 2015	, and sta	,				
VESSE conceri	EL CODE, Section ning the pressure	VIII, Division 1. By vessel described in	Anufacturer has constructed this press signing this certificate neither the Insp this Manufacturer's Data Report. Furt amage or a loss of any kind arising from	pector nor his/her employe hermore, neither the Inspe	r makes any ector nor his/	warranty, expressed or implied,				
Dat	te 03/27/201	5 Signed	Darit	Commissions:		14877A. NJ1060				
			(Authorized Inspector)			pard (incl. endorsements)]	-			
			oort are correct and that the field asse CODE, Section VIII, Division 1. U Cer			Expires	-			
			(Assembler)			(Representative)	_			
			CERTIFICATE OF FIELD ASSI	EMBLY INSPECTION						
I, the un	idersigned, holdi	ng a valid commiss	ion issued by The National Board of	Boiler and Pressure Ve	ssel Inspect	tors and employed by				
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 the ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. The described vessel was inspected and subjected to a hydrostatic test of 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.										
Dat	te	Signed	(Authorized Inspector)	Commission	[National Bo	pard (incl. endorsements)]	_			

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exe: v6.4.42

U1-14

FORM U-5 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET

SHELL-AND-TUBE HEAT EXCHANGERS

As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

1. Manufactured and certified by Perry Products Corporation, 25 Mount Laurel Road, Hainesport, New Jersey, 08036, USA (Name and address of Manufacturer)

2. Manufactured for Daramic, LLC, 5525 US 60 East, Owensboro, Kentucky, 42303, USA (Name and address of Purchaser)

3. Location of Installation

4. Type

Daramic, LLC, 5525 US 60 East, Owensboro, Kentucky, 42303, USA (Name and address)

Vertical (Horizontal, vertical, or sphere)

B-8005 (Manufacturer's serial number)

(CRN)

18087-A rev. 2 (drawing no.)

8006 (National Board number)

2015 (Year built)

N/A

FIXED TUBESHEET HEAT EXCHANGERS											
Desig	n/Operating	Pressure Ran	ges		Design/Operatir	Allowable Axial Differential Thermal					
Shell S	Side	Tube Side		Shall	Channel	Tubaa	Tubaabaat	Expansion Range			
Min.	Max.	Min.	Max.	Shell	Channel	Tubes	Tubesheet	Min.	Max.		
units:	units:	units:	units:	units:	units:	units:	units:	units:	units:		
N/A	100	FV	75	320	320	320	320	0.0	0.0		
75	N/A	FV	75	95	165	165	165	-0.001	0.0811		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
	N/A N/A	Shell SideMin.Max.units:units:N/A10075N/A	Shell SideTubeMin.Max.Min.units:units:units:N/A100FV75N/AFVN/A	Design/Operating Pressure RangesShell SideTube SideMin.Max.Min.Max.units:units:units:units:N/A100FV7575N/AFV75N/A	Design/Operating Pressure RangesShell SideTube SideShellMin.Max.Min.Max.units:units:units:units:units:units:units:units:N/A100FV7532075N/AFV7595N/A	Design/Operating Pressure RangesDesign/OperatinShell SideTube SideShellChannelMin.Max.Min.Max.Channelunits:units:units:units:units:units:N/A100FV7532032075N/AFV7595165N/A	Design/Operating Pressure RangesDesign/Operating Metal TemperatureShell SideTube SideShellChannelTubesMin.Max.Min.Max.ShellChannelTubesMin.Max.units:units:units:units:units:units:units:units:units:units:units:units:units:N/A100FV7532032032075N/AFV7595165165N/A	Design/Operating Pressure RangesDesign/Operating Metal TemperatureShell SideTube SideShellChannelTubesTubesheetMin.Max.Min.Max.ShellChannelTubesTubesheetunits:units:units:units:units:units:units:units:units:N/A100FV7532032032032075N/AFV7595165165165N/A	Design/Operating Pressure RangesDesign/Operating Metal TemperatureAllowable Axial Di ExpansionShell SideTube SideShellChannelTubesTubesheetMin.Max.Min.Max.Min.Max.units:		

Data Report

Item Number

Remarks

N/A

Certificate of Authorization	n: Туре "U"	No. 4328	Expires	November 17, 2015
Date 03/26/2015	Name	Perry Products Corporation (Manufacturer)		Signed Brandi & Holyinger
Date 03/27/2015	Signed	Dan Chi-	Commissions:	14877A, NJ1060 (National Board Authorized Inspector Commission number)

(National Board Authorized Inspector Commission number)