Page 1 of

FORM U-3 MANUFACTURER'S CERTIFICATE OF COMPLIANCE

COVERING PRESSURE VESSELS TO BE STAMPED WITH THE UM DESIGNATOR [SEE U-1(j)]

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

1.	Manufa	ctured a	nd certif	fied by _		Yula	Corpor	ation 3	30 Bry	ant A	venue	Bronx Ne	w Yor	k 10474				
2.	Manufa	ctured f	or		Ac	curity Indu	strial C		s 100	ww	hitme	ss of Manufact r St. Centra irchaser)		, KY 423	330			
									iame an		nown							
3.	Location	ofinst	allation			·					and add	***						
	-		Vert	ical		He	at Exch	anger			1.8	cu. ft.			2	22994		
4.	Type	(Horizo	ontal, vertic	al, or sphere	<u> </u>	Tank, separato	r, jkt. ves	sel, heat ex	ch., etc.)		(Cap	pacity)		(IV	lanufacturer	s serial n	umber)	
							34691							14452	2		2018	
		(CRN)				(Drawin	g number	-)				(i	Vational	Board nun	nber)		_(Year_b	uilt)
5.	ASME	ode, Se	ction VII	l, Div. 1	1	Edition and Ad	2017 E idenda, if	dition applicable	(date)]					(Code	 Case numbe	er)		
lten	ns 6-11 i	ncl. to b	e cómpl	eted for s	single wall	vessels, ja	ckets o	f jacketed	d vess					s, or cha 8' 2"	mber of r	nultich	amber v	ressels.
6.	Shell:	(a) Nun	nber of a	course(s)				_ (b) O	verall	lengt	h		· · · · · · · · · · · · · · · · · · ·	0 2				
		Course(s)		P	Material		Thi	ckness		E	ong. Joint (Cat	. A)	Circum. J	oint (Cat. A,	B & C)	Heat Tre	eatment
No.	Día	meter	Le	ength	Spec./0	Grade or Type		Nom.	Со	rr.	Type	Full, Spot, None	Eff.	Туре	Full, Spot, None	Eff.	Temp.	Time
1	6	5/8"	1' 6	6-5/8"	SA-3	12 Tp.304L		.134"			E	None	1.0	7	None	1.0		
2	6	5/8"	6' 7	7 3/8"	SA-3	12 Tp.304L		.134"		-	E	None	1.0	7	None	1.0		
							Body	Flanges o	n Shells	;								
	1				1	1		T			L				Bolting			
No.	Туре	ID	OD	Flange The	Min Hub Thk	Mater	ial	How At	tached	l.ocat	ion	Num & Size	Boltin	g Material		sher D, thk)	Washe	er Material
	-				1	<u> </u>					+		+-					
7. F	leads: (a)	(Mate	rial spec. nui	mber, grade or	type) (H.T. — I	time and	tempi.)		(b) _		(Material sp	ec. num	ber, grade	or type) (H.T	. — time	and temp.)
			Thick	kness		Radius			_:_:_I	Τ.,		FILA	Т	Side to Pr	essure		Category	A
	Location (Bottom, E		Miņ.	Corr.	Crown	. Knuckļ	1 '-	. 1	conical ex Angle	1	emis. adius	Flat Diameter	Ca	nvex	Concave	Туре	Full, Sp None	ot, Eff.
(a)										1		ļ	_ _					
(b)						l				1								
							Во	dy Flange	s on He	ads					D. IV		-	
											ŀ		Τ.		Bolting W	asher		
	Location	Туре	- ID	OD	Flange Thk	Min Hub Thk	М	aterial	Ho	w Attac	hed	Num & Size	Bolti	ng Materia	(OD,	ID, thk)	Wast	ner Materia
(a) (b)							,		-				1					
3. T	ype of ja	acket							Jacl	kët cl	osure		(C	escribe as	ogee and w	eld, bar, e	etc.)	
ľ	f bar, giv	e dimer	sions, I	f bolted,	describe o	r sketch												
9. N	AAWP _	150 PS (Internal	<u>-14</u>	.7 PSI xternal)	at max. ten	np	400 F (Internal)		400 F ternal)	_ İV	lin, de	sign metal	temp	·	40 F	at	150P	SI/FV_
o, Ji	m pact te	st		NO, CH	ARPY IMPA	ACT TEST or <i>no</i> and the c				1		á	t test	tempera	iture of _	•		,
1. F	łydro., p	neu., or	comb, t	est press	ure	214 PSI		F	roof to	est _								
emis	s 12 and	13 to be	comple	eted for ti	ube section	is.												
	Tubeshee	From	nt: SA-24	40 Gr.316	L	7 5/8" neter (subject t	o press.)]		1 1 (Nomin		(ness)	<u> </u>	(Cor	r. allow.)		\ttachme	Welded	or bolted)
*		Rea	r: SA-24 ting (mate	0 Gr.304 rial spec. no	Ļ	7 5/8" (Diameter)			1 1 Vorninal	/4" thickne			(Corr. :	allow.)		(Al	Welded	<u> </u>
3. 1	ubes		13 Tp.31	de or type)		(O.D.)		(N	0.04		(8)		7 (Nun	nber)			Straight of (straight of	or U)i



FORM U-3

Page 2 of 4

Body Flanges on Shells Boding Misserial Copyright Copyrigh		nufacture	er's Serial	No	22	994		_ CR	N		-		National E	Board	No:		144	52	
Diameter Length Spec_Kinde or Type Nom Corr. Type Fill_Spec_ Ett. Type				,				-											
Diameter Length Space, Ginde or Type Nom. Carr. Type Fell, Spott, Ett Type																	- 1	Uses Torre	
District Property		D:		T .									Eull Coat						
Trype ID OD Flange That Min Hub That Material How Attached Location Num & Size Botting Material Washer Wash	0.	Diar	neter	Leng	gtn	>p	ec./Grade or Ty	pe	Non	1.	Corr.	Type	None	EII.	Туре	None	ETT.	iemp.	Tim
Trype ID OD Flange That Min Hub That Material How Attached Location Num & Size Botting Material Washer Wash										丰									
Trype ID OD Flange That Min Hub That Material How Attached Location Num & Size Botting Material Washer Wash										ᆜ									
Type		Т	Т	Т					Body Flange	s on Si	helis	T				Bolting	<u></u>		
Material spec. number, grade, or typol 81.T. — time and temp.) Material spec. number, grade, or typol (81.T. — time and temp.) Material spec. number, grade, or typol (81.T. — time and temp.) Material spec. number, grade, or typol (81.T. — time and temp.) Material spec. number, grade, or typol (81.T. — time and temp.) Material spec. number, grade, or typol (81.T. — time and temp.) Material spec. number, grade, or typol (81.T. — time and temp.) Material spec. number, grade, or typol (81.T. — time and temp.) Material spec. number, grade, or typol (81.T. — time and temp.) Material spec. number, grade, or typol (81.T. — time and temp.) Material spec. number, grade, or typol (81.T. — time and temp.) Material spec. number Material Sold to Pressure Careeve Typel Full Spot. Number Type Typel Full Spot. Number Type Typel Full Spot. Number Type Typel	э.	Type	ID	OD F	lange Thk	Min Hub	Thk Ma	terial.	How	/ Attach	ed. Locat	ion	Num & Size	Boltin	g Material			Washer N	/later
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Content First Content	_		<u> </u>			nber, grade		time	and temp./		т -		(iviaterial sp	ec. num			. I. — time		
Rear 134" 6" 6"			201			Cro		ckle						Co			Туре	Full, Spot,	Ef
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Location Type ID OD Flange This Min Hub This Malerial How Attached Num & Size Bolting Material Washer (OD, ID, this) Washe	0)	Rea	r 1 1	34"			5"						7 5/8"		<u> </u>	Yes			1
Location Type ID OD Flange TINk Min Hub TINk Malerial Flow Attached Num & Size Botting Material (OD, D, thk) Washer						T	$\overline{}$		Body Flar	iges on	Heads					Bolting			
Rear Ring 6 5/8" 10 7/8" 17/16" SA-240 Gr. 316L Welded (8) 3/4" SA 193 B8 Cl.1		Location	Туре	ID	OD	Flange T	hk Min Hub Tr	ık	Material		How Attac	hed	Num & Size	Boltin	ng Materia			Washer	Mate
MAWP 150 PSI -14.7 PSI at max, temp. 40 F 400F (Internal) (External) (Externa	a}·	Front	Ring		ļ			s	A-240 Gr. 3	316L	Welde	d	(8) 3/4"	SA 1	93 B8 CI.	1			-
Impact test MO, CHARPY IMPACT TEST EXEMPT PER UHA-51 at test temperature of Indicate yes or no and the componentis) impact tested! Hydro., pneu., or comb. test pressure 208 PSI Proof test — Nozzles, inspection, and safety valve openings: Purpose Intet, Outlet, Drain, etc.) No. Diameter or Size Type Nozzle Flange Nom Corr. Material Nozzle Flange Intet, Outlet, Drain, etc.) No. Diameter or Size Type Nozzle Flange Nom Corr. Material Nozzle Flange Intet, Outlet, Drain, etc.) Inlet / Outlet 1 1 1/2" C1150Flg SA-312 Tp.304L SA-182 F.316L — Not Reg'd — Integral Integral Outlet 1 1 1/2" C1150Flg SA-312 Tp.304L SA-182 F.304L 1:33" — Not Reg'd Welded Welded Welded Welded Welded Integral Inters of Inte	b)				<u> </u>														
Hydro, pneu, or comb. test pressure 208 PSI Proof test Nozzles, inspection, and safety valve openings: Purposa Intet, Outlet, Drain, etc.) No. Diameter of Size Type Nozzle Flange Nom. Corr. Material Nozzle Flange (Insp. Oct.) No. Diameter of Size Type Nozzle Flange Nom. Corr. Material Nozzle Flange (Insp. Oct.) No. Intet / Outlet 2 1 1 1/2" C150Wn SA-182 F. 316L Not Req'd Integral Not Req'd Welded Welded Outlet 1 1 11/2" C150Fig SA-312 Tp.304L SA-182 F.304L 145" Not Req'd Welded Welded Welded Not Req'd Welded Not R	V	AWP _1	(Internal)	-14./ (Exter	nal)	it max, t	emp	100 F nternal) (E)	400F xternal)	Min	desi	gn metal tei	mp: _	40	F	_at	150 PSI /	۲V
Hydro, pneu, or comb. test pressure			·	N	O. CHA	RPY IM	PACT TEST	L EXE	MPT PEF	R UHA	\-51		at	test t	empera	ture of			
Nozzles, inspection, and safety valve openings: Purpose Inlet, Outlet, Outl	Jm	ipact test	l	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	11	Indicate 140				ici ieste	u) .								
Unlet, Outlet, Drain, etc.) No. Diameter or Size Type Nozzle Flange Nom. Corr. Not Req'd Nozzle Flange Nom. Corr. Material Nozzle Flange Nom. Corr. Material Nozzle Flange (Insp. Og (Ins					Į1	Indicate ye	s or <i>no</i> and the			Proof	f tost				-	-			
Drain, etc.) No. or Size Type Nozzle Flange Nom. Corr. Material Nozzle Flange (Insp. Of Inlet / Outlet 2	Н	ydro., pn	eu., or co	mb. test	ו t pressu	indicate ye	208 PSI			Proof	f test				_				
Inlet 1 1 1/2" CI150Fig SA-312 Tp.304L SA-182 F.304L 145" Not Req'd Welded Welded Outlet 1 1" CI150Fig SA-312 Tp.304L SA-182 F.304L 133" Not Req'd Welded Welded Not Req'd Welded Welded Not Req'd Welded Welded Not Req'd Welded Welde	Ņ	ydro., pn ozzles, ir _{Purpose}	eu., or co	mb. test , and saf	t pressu fety val	indicate ye	208 PSI			Proo	7		·					T	
Outlet 1 1" CI150Fig SA-312 Tp.304L SA-182 F.304L 133" Not Req'd Welded Welded Vents / Drains 4 3/4" Trd. Cplg SA-182 F. 304L 3000# Not Req'd Welded SA-182 F. 304L Supports: Skirt Lugs 2 Legs Others Vertical Supports Attached Side Welded (Where and how) Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report (list the name of part, item number, Manufacturer's name, and identifying number): Remarks Yula Model No. CV-1B-102AAS Customer P.O. No. AlC0063 Daramic Oil Heater responsible for safety valve UG-125. UG-46(a) See U-5 form for additional information. Bundle is 102" in length.	H Ņ (Ini	ydro., pn ozzles, ir ^{Purpose} et, Outlet,	ieu., or conspection	omb. test , and saf	t pressu fety valv	indicate ye ire ve openi	208 PSI		rial		Nozzle	hickne	ess Reinfo	cement	A	ttachment D	etails	Locati	on
Vents / Drains 4 3/4" Trd. Cplg SA-182 F. 304L 3000# Not Req'd Welded Supports: Skirt Lugs 2 (Number) Legs (Number) Others Vertical Supports Attached Side Welded (Where and how) Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report (list the name of part, item number, Manufacturer's name, and identifying number): Remarks Yula Model No. CV-1B-102AAS Customer P.O. No. AlC0063 Daramic Oil Heater responsible for safety valve UG-125. UG-46(a) See U-5 form for additional information. Bundle is 102" in length.	H N (Ini	ydro., pn ozzles, ir Purpose et, Outlet, rain, etc.)	neu., or conspection	omb. test , and saf Diame or Si	t pressu fety valv	indicate ye ire ve openi Type	208 PSI		rial Flang	je	Nozzle Nom.	Thickne Co	ess Reinfo rr. Mat	cement erial	A	ttachment D	etails Flange	Locatį (Insp. O)	on oen.)
Supports: Skirt —— Lugs 2 Legs —— Others Vertical Supports Attached Side Welded (Where and how) Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report (list the name of part, item number, Manufacturer's name, and identifying number): Remarks Yula Model No. CV-1B-102AAS Customer P.O. No. AIC0063 Daramic Oil Heater responsible for safety valve UG-125. UG-46(a) See U-5 form for additional information. Bundle is 102" in length.	H N (Ini	ydro., pn ozzles, ir Purpose et, Outlet, rain, etc.) let / Outlet	No.	Diame or Si	t pressu fety vali eter ize //2" C	Ire ve openi Type	ngs: Nozzle	Mate	rial Flang SA-182 F SA-182 F	ge - 316L - 304L	Nozzle Nom. 145"	Co	ess. Reinfo rr. Mät Not l	cement erial Req'd Req'd	A) No	ttachment D zzle F	etails Flange ntegral	Locați (Insp. Oj	on pen.)
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Supports: Skirt — Lugs 2 Legs — Others Vertical Supports Attached Side Welded (Where and how) Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report (list the name of part, item number, Manufacturer's name, and identifying number): Remarks Yula Model No. CV-1B-102AAS Customer P.O. No. AlC0063 Daramic Oil Heater responsible for safety valve UG-125. UG-46(a) See U-5 form for additional information. Bundle is 102" in length.	H.N.	ydro., pn ozzles, ir Purpose et, Outlet, rain, etc.) let / Outlet Inlet	No.	Diame or Si	t pressu fety valv eter ize	Type C1150Fig	Nozzle SA-312 Tp. SA-312 Tp.	Mate 304L 304L	rial Flang SA-182 F SA-182 F SA-182 F	ge - 316L - 304L - 304L	Nozzle Nom. .145"	Co	Reinform Mat Not I Not I	cement erial Reg'd Reg'd Reg'd	No We	ttachment D zzle F Ir elded V	etails Flange ntegral Velded Velded	Locatį (Insp. O) -	on pen.) -
Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report (list the name of part, item number, Manufacturer's name, and identifying number): Remarks Yula Model No. CV-1B-102AAS Customer P.O. No. AIC0063 Daramic Oil Heater responsible for safety valve UG-125. UG-46(a) See U-5 form for additional information. Bundle is 102" in length.	H. N. (Ini	ydro., pn ozzles, ir Purpose et, Outlet, rain, etc.) let / Outlet Inlet	No.	Diame or Si	t pressu fety valv eter ize	Type C1150Fig	Nozzle SA-312 Tp. SA-312 Tp.	Mate 304L 304L	rial Flang SA-182 F SA-182 F SA-182 F	ge - 316L - 304L - 304L	Nozzle Nom. .145"	Co	Reinform Mat Not I Not I	cement erial Reg'd Reg'd Reg'd	No We	ttachment D zzle F Ir elded V	etails Flange ntegral Velded Velded	Locați (Insp. O)	on pen.) - - -
the report (list the name of part, item number, Manufacturer's name, and identifying number): Remarks Yula Model No. CV-1B-102AAS Customer P.O. No. AIC0063 Daramic Oil Heater responsible for safety valve UG-125. UG-46(a) See U-5 form for additional information. Bundle is 102" in length.	H. N. (Ini	ydro., pn ozzles, ir Purpose et, Outlet, rain, etc.) let / Outlet Inlet	No.	Diame or Si	t pressu fety valv eter ize	Type C1150Fig	Nozzle SA-312 Tp. SA-312 Tp.	Mate 304L 304L	rial Flang SA-182 F SA-182 F SA-182 F	ge - 316L - 304L - 304L	Nozzle Nom. .145"	Co	Reinform Mat Not I Not I	cement erial Reg'd Reg'd Reg'd	No We	ttachment D zzle F Ir elded V	etails Flange ntegral Velded Velded	Locați (Insp. O)	on pen.) - - -
responsible for safety valve UG-125. UG-46(a) See U-5 form for additional information. Bundle is 102" in length.	H N In In	ydro., pn ozzles, ir Purpose et, Outlet, rain, etc.) et / Outlet Inlet Outlet	No. 2 11 1 s 4	Diamor Si 1 1 1 1 1 3/4	t pressure terrize C/2" C/2" C/2" C/4" T	reve o'peni Typė E1150Wn E1150Fig E1150Fig E1150Fig	Nozzle SA-312 Tp. SA-312 F S	Mate 304L 304L 304L	Flang SA-182 F SA-182 F SA-182 F SA-182 F	ge - 316L = 304L = 304L	Nozzle Nom145" .133" 3000#	Co	Reinform Mat Not Not Not Not Not Not Not Not Not No	cement erial Req'd Req'd Req'd Req'd	No We	ttachment D zzle F Ir elded V elded V	etails Flange Integral Welded Velded	Locati (Insp. O _I	on; cen.) - -
responsible for safety valve UG-125. UG-46(a) See U-5 form for additional information. Bundle is 102" in length.	H N In	ydro., phozzles, ir Purpose et, Outlet, rain, etc.) let / Outlet Inlet Outlet nts / Drain	No. 2 1 1 s 4 Skirt Wester's Part	Diameters of the second of the	t pressure fety valveter fize 1/2" C 1/2" C 1/2" C 1/4" T	reve openi Type E1150Wn E1150Fig E1150Fig ord. Cpig	Nozzle SA-312 Tp. SA-312 Tp. SA-182 F. S	Mate 304L 304L 304L and s	SA-182 F SA-182 F SA-182 F SA-182 F	ge - 316L - 304L - 304L Vert	Nozzle Nom145" .133" .3000# tical Supp (Describe	Co	Reinform Mat Not Not Not Attacher	cement erial Req'd Req'd Req'd Req'd	No We	ttachment D zzle F Ir elded V elded V elded Side (Where ar	etails Flange Integral Velded Velded Welded Welded Welded Welded	Locati (Insp. O _I	on oen.
	H N (Inil D In S M th	ydro., pn ozzles, ir Purpose et, Outlet, rain, etc.) let / Outlet Inlet Outlet outlet upports:	No. 2 1 1 s 4 Skirt (Yes	Diame or Si 11. 11. 3/4 ser no) lial Data Fame of p	t pressure teter lize eter lize Color C	Type St150Wn St150Flg St150Flg St150Flg St150Flg Trd. Cplg Properline	Nozzle SA-312 Tp. SA-312 Tp. SA-182 F. S	Mate 304L 304L 304L and s	SA-182 F SA-182 F SA-182 F SA-182 F	ge - 316L - 304L - 304L Vert	Nozzle Nom145" .133" .3000# tical Supp (Describe	Co	Reinform Mat Not Not Not Attacher	cement erial Req'd Req'd Req'd Req'd	No We	ttachment D zzle F Ir elded V elded V elded Side (Where ar	etails Flange Integral Velded Velded Welded Welded Welded Welded	Locati (Insp. O _I	on oen.
.357" Minor OD x 12 3/4" Major OD x 1/4" Thk, SA-516 Gr.70 Flanged Only heads welded between shell courses to form expansion joint.	H N (Inil D In S M th	ydro., pn ozzles, ir Purpose et, Outlet, rain, etc.) let / Outlet Inlet Outlet outlet upports:	No. 2 1 1 s 4 Skirt (Yes	Diame or Si 11. 11. 3/4 ser no) lial Data Fame of p	t pressure teter lize eter lize Color C	Type St150Wn St150Flg St150Flg St150Flg St150Flg Trd. Cplg Properline	Nozzle SA-312 Tp. SA-312 Tp. SA-312 Tp. SA-182 F. S	Mate 304L 304L and sturer's	SA-182 F SA-182 F SA-182 F Others _ igned by (vert	Nozzle Nom145" .133" .3000# tical Supp (Describe nissioned ntifying	Co	Attacherectors have ser):	cement erial Req'd Req'd Req'd	Wee Wee	ttachment D zzle F Ir elded V elded V elded Side (Where ar	etails Flange Integral Velded Velded Welded Welded Welded Welded	Locati (Insp. O _I	on oen.

FORM U-3

Manufactured by		Yula Corporati	on 330 Bry	ant Avenue	Bronx New York 1	0474
Manufacturer's Serial No	22994	ČŘN			National Board No.	14452
	Ψ.					
	• .	CERTIFICATE	OF SHOP CO	OMPLIANCE		
We certify that the statement conform to the ASME BOILER					terial, construction	n, and workmanship of this ves
UM Certificate of Authorizatio	n Number54	123	Expires _	3/30/2019		
Date 11 8 2018 Name	Yı	ula Corporation (Manufacturer)		Signe	d Mary	(Representative).
Signed	(Certified individual)		Cer	tificate N um	ber	National Board Cl number)

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

				A i4-			address of Manu		40000	
. Manufactured fo	r			Accurity	Industrial Con	tractors 100 W \		Central City, KY	42330	
ranasta iztaliza	0 - 25					Link	(NOWN			
. Location of insta	ilation					(Name:	and address)			
. Type(Horizo	Vertic	al		-	23.41	22994 turer's serial number)		-	(CRN)	
	34691-1		ere)		(-ivia nurac	14452			2018	
	ving numb					(National Board number	er);		(Year built)
		-		FIXE	D TUBESHEET	HEAT EXCHANGER	IS			
	Desi		ating Pr		ï	Allowable Axial Differential Thermal				
· · · · · · · · · · · · · · · · · · ·	Shel	l Side	Tube	e Side	Chall	Channel	Tubás	Tubaahaat	Expañsio	on Range
Name of Condition	Min.	Max.	Min	Max.	Shell	Channel	Tubes	Tubesheet	Min.	Max.
	units: PSI	units: PSI	units: PSI	units: PSI	units: °F	units: °F	units: °F	units: °F	units: in	units: in
Design	-14.7	150	-14.7	150	400	400	400	400	0 0046	0
Operating	-14.7	150	-14.7	150	310.2	305.4	305.4	308.3	-0.0046	0
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