L02286

L-89729

L-8065

MODELCB 300-150# Stm. psi PART NO. 524-1185

## FORM P-2 MANUFACTURERS' DATA REPORT FOR ALL TYPES OF BOILERS EXCEPT **WATERTUBE AND ELECTRIC**

as required by the provisions of the ASME Code rules C25-1978A 11/88 Cleaver Brooks, 18th & Lehman Sts., Lebanon, PA 17042 1. Manufactured and certified by \_\_\_\_ (name and address of manufacturer) Sofix Corporation - Chattanooga, Tennessee 2. Manufactured for \_\_\_\_\_ (name and address of purchaser) Sofix Corporation - Chattanooga, Tennessee 3. Location of installation \_\_\_ (name and address) 4. Type: Internally Fired Boiler no. L02286 N/A 524-1181 5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section I, 1989 and Addenda to A-89 (date) Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors are attached for the following items of this report: None (name of part, item number, mfgr's, name and identifying stamp) 78" 156" \_\_\_ Dia. \_\_\_\_\_ Length \_\_\_ \_\_\_\_ Dia. \_ Length 6. Boiler shells or drums: No. \_\_\_ SA 515-70, .500! 7. Shell plates \_\_ (for each shell or drum state: material specification no. & grade, nominal thickness) 8. Longitudinal joint(s) \_\_\_\_\_Welded \_\_\_\_ Joint efficiency <u>100</u>% (seamless, welded) None 9 Heads (material specification no.; thickness — flat, dished, ellipsoidal — radius of dish) Welded  $\_$  No. of shell courses  $\_$ 10. Girth joint(s) \_\_\_ (seamless, welded) SA 515-70, .625" (mat'l. spec., grade thickness) \_\_\_\_\_ Tube Holes: \_\_\_ 11. Tubesheet: \_ 175 SA 178-A 156-½" .095" Straight 12. Boiler tubes: No. \_\_\_\_ (mat'l. spec., grade) (straight or bent) 13. Furnace no. \_\_\_\_\_\_ Size \_\_\_\_\_\_ Size \_\_\_\_\_\_ Length, each section \_\_\_\_\_\_ Total \_\_\_\_\_ 156-\frac{1}{4}" (O.D. or W x H) SA 285-C .343" Corrugated Welded \_\_\_\_ Seams: Type \_ (plain, adamson, ring reinforced, corrugated, (mat'l. spec., grade, thickness) (seamless, welded) combined or stayed) None N/A MAWP Size Pitch \_ 14. Staybolts: No. \_\_ (dia. mat'l. spec., grade, (hor, and vert.) size telltale, net area) 15. Stays or braces Fig. PFT-32 Dist. Tubes Area to be MAWP Mat'l. No. & Net Area to Shelf Staved Spec. No. Type 154 SA675-60 .09 (a) F.H. above tubes Diag 8 - 3/48544 599 SA675-60 801-1/2" 7.8544 1.09 154 (b) R.H. above tubes Diag 8 - 3/4(c) F.H. below tubes N/A N/A (d) R.H. below tubes (e) Through stays N/A (f) Dome braces Water Column Assy. N/A 16. Other parts: 1. 2. N/A (brief description — i.e., dome, boiler piping, etc.) Threaded pipe - SA 106-B, 1-4" & 2" Sch 80, M.A.W.P. 150# PSI Other pressure piping installed by contractor.

(mat'l. spec., grade, size, material thickness, MAWP)

## FORM P-2 (back)

1	0 6" 300# Fla	nae			2 @ 3" NPI	<b>)</b>
17. Openings (a) Steam	(no., size an	nd type)		(b) Safety valve	/no s	ize and type)
	• •			2.0		
(c) Blowoff	2 @ 1-½" NPT BO	and location)		(d) Feed <u>2 @</u>	Z NPT (R & I	n SIGE)
	7	ina ioodiion,		12" + 16"	,	Shell
(e) Manholes:	No		Size _	12" x 16"	Location _	prierr
(f) Handholes:	No6		Size _	3-\frac{1}{4}" \times 4-\frac{1}{2}"	Location _	Shell
18. Fusible plug (if used)	N/A				-	
,				diam., location, mfrs. stamp	)	
19. Boiler supports: No	4	Туре	(sa	Legs ddles, legs, lugs)	_ Attachment	Welded (boiled or welded)
20. MAWP150	)psi Ba	sed onPC	3-27	r. and/or formula)	Heating surface	1500 sq
21. Shop hydrostatic test	225	psig.	(code pe	ir. units of formula)		(iotal)
	· · · · · · · · · · · · · · · · · · ·	CERTIFICATI	E OF C	OMPLIANCE		
We certify the statements in	this data report to be co	orrect.				
Certificate of Authorization n	io. <u>10905</u>	to use the (A) c	or (S) _	Ssy	mbol expires <u>Janu</u>	ary 15, 19 92.
Date6/11/91	_ NameCI	eaver Brook	S	Signed	Sylva 1	Moore_ presentative)
		(manufacturer)			/ (ddillollized re	
	C	ERTIFICATE (	)F SHC	P INSPECTION		
					Lobonon DA	
Boiler made by						
I, the undersigned, holding a						and the state or province
of <u>Pennsylvania</u>	_ and employed by			he Hartford Stea		
1_9	3, 10-13, 15, 17-21	ofHart		· ·	-	eferred to as data items
170	None			_ and have examined	Manufacturers' Partia	I Data Reports for items
					_ :	a appliable acations of
and state that, to the best of n			rer nas	constructed this boile	r in accordance with ti	ie applicable sections of
the ASME BOILER AND PRE By signing this certificate nei			kae ani	uwarrantu aynraesad	or implied concerning	the holler described in
this Manufacturers' Data Rep perty damage or a loss of an	ort. Furthermore, neithe	er the Inspector	nor his	employer shall be liab		
	11	Joinnected with				
Date 13 une 91	Signed 1	Can.		Commissi	ons NB 6316 E	PA 2467
		Authorized Inspector	r)		(Nat'l. Bd. (incl. endor	sements) state, prov. and no.)
	,	OFPTIFICAT		OMBLIANCE		
We certify that the field asser	mbly of all parts of this l	CERTIFICATI			ction Lof the ASME B	OILER AND PRESSURE
VESSEL CODE:	nois of all parts of this i	Joher Comornia	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ic requirements or oc	olion i oi tho Admie o	OILLI ( / III )   / III OOO / IL
Certificate of Authorization n		to use the (A) c	or (S)	sv	mbol expires	, 19
Octanoate of Authorization in	U,	10 000 110 (71)	), (O)		or oxpiros	
Date 1	Name			Signed		
		(assembler)			(authorized re	presentative)
				SEMBLY INSPECTIO		
I, the undersigned, holding a		-				
ar						
Report with the described bo						nis Manufacturers' Data
included in the certificate of sl						
the assembler has construct						
VESSEL CODE. The describe						
By signing this certificate neith						
this Manufacturers' Data Rep	·				•	
perty damage or a loss of an		•			o arany mannor for all	, porconaringary or pro-
perty damage or a loss of all	, kind anomy nom of G	Omicoted With I	1113	podion.		
Date S	Signed			Commissi	ากร	
Date	//griou(/	Authorized Inspector	r)	Oommissi	(Nat'l. Bd. (incl. endor	sements) state, prov. and no.)

L02314
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						]	L−89729	•			ODEL	Adapter		L023
						UNIT S.O	CU9100430				ART NO	1-479	ty and A	344
25-1	1982A 11/88	3		FOR as	M P-4 M required	ANUFAC	TURERS' I	PARTIAL D	ATA R Code	EPOI rules	RT (4)		- 1 <u>2</u>	
i. N	lanufactured	i and ce	rtified by			Cleave		3th & Lehma				17042		
) N	lanufactured	f for	٠.,	Sof	ix Corp	poration		attanooga	•	ness				
	dentification						(name a	nd address of purc	naser)	i,				
1	lame of Part		Quantity		Line No.	Mfr's. Serial Ne		Manufacturer's Drawing No.		CRN	Nat'l.	Bd. No.	Ye Bu	
Ac	lapter		(1)		10-a	L023.	14	1-479	N/	Ά_	N/A		1991	
								·					, was every	The second
								14.				l	ş eş k er	- 10.0
. (:	a) Drums:	None				Shell	Plates			Tubeshe	eets e	Tube Ho	le Ligamei	nt
o.	Inside Diameter, In.	Ins	ide Length in.		Mat'l. Spec. No	., Grade	Inside Radius In.			Inside Radius Longitu- in. dinal		Circum- ferential		
1														
2		·						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					2 1000000	
4											90 Y 7 T			
	Longitud Joints		Circ Joi	um. nts				Head	s					Hydro-
10.	No. & Type*	Effi- ciency	No. & Type	Effi- clency		Mat'l. Spec. N	Thicknes	s, in.	Туре	Radius of Dish	Manholes No.	Size	static Test, ps	
1							·							
2 3									·					
4						114,511	erande de la	a a trade distribute	Light on	ladicate	if (1) flat: (2) die	had: (3) elliposio	lal: (4) he	misoher
	ate if (1) seamle: (b) Boller tu		n welded. None						None			11 (19.54 <u>)</u> 2011 - 1	r vediger	
		Thickness		'I. Spec. N	lo., Grade		Head	s or ends			Hvdro.	at'l. spec. no.; thic	(psi)	, gravity i
							6. (d) Stayb	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	thickne None					
		-:			·					•		in. <sup>2</sup> MAWF		
			None				ing and the second	75. A.			by one bolt)			
) <u>.</u>	(e) Mud dru	(1	for sect. head shape mat'l.			_ Heads o	r ends(	shape; mat'l. spec. thickness)	no.;	_ нус	iro. test	(p:	si)	Ner Sa
·.	(a) Waterwa	all heade	ers: No	one			Heads or Er	nds		7.	(b) Waterwa	1	None	
No		nd Shape	Ma	terial c. No.	Thickness in.	Shape	Thickness in.	Material Spec. No.	Hyd Test,		Diameter in.	Thickness. in.		aterial ec. No.

8. (a	) Economizer h	eader	's:		į	FORM P-4 (	back)	8	(b) Econon	nizer tuhes	
			None			Heads or En	ds	7	(=) ===::		None
No.	Size and Shap	е	Material Spec. No.	Thickness in.	Shape	Thickness in.	Material Spec. No.	Hydro. Test, psi.	Diameter in.	Thickness in.	Material Spec. No.
	L			<u> </u>	<u> </u>						
9. (a	) Superheater h	eade	rs: None					9.	(b) Superhe	eater tubes:	None
<u> </u>				ļ	ļ.,		<u> </u>				
					<del> </del>		<u> </u>			<b></b>	
10. (a	Other parts: (1	Ac	lapter	(2)N/.	A.	(3)	N/A	10	(h) Tubes fo	or other parts:	None
1	W.N. Flan		SA105	6"	300#		Fitting	Pipe	SA53B	Sch 40	6"
2	W.N. Flan		SAl05	4"	300#				22100 10		
3	Concentri	c R	educer	SA234	6"x4"						
11. O <sub>j</sub>	penings (1) Stear (3) Blow		None	ze, and type of no ze, and type of no		•	(2) Safety V		one	type of nozzles or	
12.		<del></del>	Maximum Allow-	C-4- B			. [ ,,,,,,, ]		13.		
		·	able Working	Formula	ar. and/or on Which	Shop Hydro. Tes psi	Surface		ng surface		Hydro. st psi
a	Boiler		Pressure None	AWP	s Based		sq. ft.	) on dr	stamped um heads.	<u> </u>	/A
ь	Waterwall		None						heating sur- not to be	14/	A
С	Economizer		None				<del>                                     </del>		for deter- og mini-		
d.	Superheater		None						safety capacity.		
в	Other parts		150	PG 2	27.2.2	225	N/A	)			
14. Re	marks:		None								
CERTIFICATE OF COMPLIANCE  We certify the statements in this Manufacturers' Partial Data Report to be correct and that all details of material, construction and workmanship of this boiler part conform to the ASME BOILER AND PRESSURE VESSEL CODE.  Certificate of Authorization no. $10905$ to use the (PP) or (S) (S) symbol expires January $15_{119}$ 92.  Date $6/14/91$ Name Cleaver Brooks Signed Authorized representative)											
of _ on _ acco	eundersigned, he Pennsylv Hai June 12, ordance with the igning this certifications.	ania rtforc applicate n	and emd, CT , 19 91 cable section either the ins	nission issued iployed by , and state the is of the ASM pector nor his	have instant to the BOILEF semploye	The spected the pa best of my kn R AND PRESS r makes any wa	of Boiler and Presented Burt of a boiler o	ressure Vesse Steam Boild described in to belief, the man CODE. ssed or implie	er I & I Co. his Manufact nufacturer ha d, concernin	urers' Partial as constructed g the part desc	Data Report If this part in
	erty damage or									*	-
Date	14 Luc	-71	_ Signed	DJ~;	withorized Ins	spector)	Commis	sions PA	1. Bd. (incl. endo	(sements) state, p	rov. and no.)

UNIT	L-89729	MODEL	Adapter
S.O.	CU9100435	PART NO.	1-695
	SERVER SERVICES		
P-4 MANUF	ACTURERS' PARTIAL DATA	REPORT	

C	25.	.1982	A 1	1/88

25-	1982A 11	/88					rovisions o	f the ASME			4 A + 1	escial 194	
i. N	1anufactu	ired and c	ertified by			Cleaver	Brooks, 18	8th & Lehma	an Sts., L	ebanon, PA	17042		
						Cleaver Brooks, 18th & Lehman Sts., Lebanon, PA 17042  (name and address of manufacturer)  Corporation - Chattanooga, Tennessee  (name and address of purchaser)							
		on of part					(name ar	nd address of purc	naser)				
	Name of Part		Quantity		Line No.	Mfr's. Serial No		lanufacturer's Drawing No.	CRN	I Nat	Natil. Bd. No.		
	dapter (I)				10-a	L02	304	1–695	N/A	N/A		1991	
											(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	**************************************	
						1930				4.1		turisting step to	
_	a) Drums				•	Shell		ang sa sa managang	year)	and adden	Tube Ho	(date) le Ligament	
).	Inside Diameter In.	r, Ins	side Length in.		Mat'l. Spec. No	c. No., Grade Thickno		Thickness Inside Radius In. In.		Inside Radius in.	Longitu- dinal	Circum- ferential	
				353 35					794				
+											10.000	2 100 AS 1 100 NASAWA	
										V-St. E.S.			
7		tudinal Ints		cum.				Heads				Hydro-	
).	No. & Type*	Effi- clency	No. & Type	Effi- clency		Mat'l. Spec. No	o., Grade	Thickness	, in. Ty	ype** Radius of Dish	Manholes No.	static	
							•						
_							talia di Sala						
_													
		niess; (2) fusi	on welded. None	ē.		· :		tureis engli init		ate if (1) flat; (2) di Vone	sili, lili, sel		
	b) Boiler	Thickness		t'I. Spec. N	lo., Grade	·		eg tardit ji ngayasa	•	Inuous or round; m	eat'l, spec. no.; thic	kness)	
							neaus	or ends(shap	e; mat'l. spec. thickness)	ino.; Ione	. 1631	(psi)	
							3. (d) Staybo			ec. mo.; dlameter;		ea)	
							· Pitch _	to the contract of	in. Neta	(supported by one bolt)	in. <sup>2</sup> MAWP	N <u> </u>	
(	e) Mud o	(	None for sect, head shape mat'l,			Heads or	ends	nape; mat'l. spec. n thickness)	0.;	lydro. test		ayas (TT) — ej Masabaspilian Harasan kar	
(	a) Water	wall heade	ers: None	•			Heads or End	<b>S</b>	7	(b) Waterw		None	
No.	1	e and Shape	Mat	terial c. No.	Thickness in.	Shape	Thickness in.	Material Spec. No.	Hydro. Test, psi.	Olameter in.	Thickness.	Material Spec. No.	
	1				<del></del>	1		l			1	1.	

A (:	FORM P-4 (back) 8. (b) Economizer tubes:											
O. 10	, Loononneor ne	None	<b>;</b>		Heads or End	ls	7	(5) 200		None		
No.	Size and Shape	Material Spec. No.	Thickness in.	Shape	Thickness in.	Material Spec. No.	Hydro. Test, psi.	Diameter . in.	Thickness in.	Material Spec. No.		
<u> </u>			<u> </u>				<del> </del>					
-							<del> </del>					
9. (a	) Superheater h	None	<u>.</u>	1			9.	(b) Superh	eater tubes:	None		
<u> </u>	1											
		<u> </u>		<u> </u>		<u> L.                                    </u>	<u> </u>		<u> </u>			
10. (a	) Other parts: (1		(2)	/A	(3)N	<del>i</del>			or other parts			
1	W.N. Flan		4"	300#		Fitting	Pipe	SA53-B	Sch 40	6"		
2	W.N. Flan		6"	300#		Couplet		SA105	1" NPT	3000#		
3	Concentri	e R <del>p</del> aucer	SA234	6"x4"		<u> </u>			<u> </u>	·		
11. O	11. Openings (1) Steam None (2) Safety Valve None (no., size, and type of nozzles or outlets)											
	(3) Blow	offNone	ize, and type of no	zzles or outle	its)	(4) Feed		One (no., size, type	and location of co	nnection)		
12.					·			13.				
		Maximum Allow- able Working		ar. and/or on Which	Shop Hydro. Test psi	t Heating Surface		ing surface		d Hydro. est psi		
<del></del>	T = ::	Pressure	AWP	is Based	<u>'</u>	sq. ft.		stamped rum head <b>s</b> .	N/A			
a	Boiler Waterwall	None None						heating sur- not to be	IV/A			
b	Economizer	None					/ Jused	l for deter- ng mini-				
d	Superheater	None					mum	safety capacity.				
e	Other parts	150	PG 2	27.2.2	225	N/A	( valve capacity.					
14. Re	emarks:		,							,		
CERTIFICATE OF COMPLIANCE  We certify the statements in this Manufacturers' Partial Data Report to be correct and that all details of material, construction and workmanship of												
		orm to the ASME					agrand Of file					
Ce	rtificate of Author	ization no. $\frac{109}{100}$	905	to use the	e (PP) or (S) _	(S)	symbol	expires <u>Ja</u>	nuary 15	, 19 <u>92</u> .		
Da	6/13/9	<u> </u>	Cle	eaver Br (manufe	ooks acturer)	Signe	ed <u>M</u>	(authoriz	//Core_ zed representative	)		
	CERTIFICATE OF SHOP INSPECTION											
I, th	ie undersigned, h Pennsylv	olding a valid com ania and e	mission issue	d by The N		of Boiler and P	ressure Vess	el Inspectors ler I & I Co	and the state	or province of		
of .	Ha	rtford, CT , 19 _9]		have in	spected the pa	art of a boiler	described in	this Manufac	turers' Partia			
		applicable section							5			
Ву	signing this certif	cate neither the in al Data Report. Fu	spector nor h	is employe	er makes any w	arranty, expre	ssed or impli					
l .	perty damage or	a loss of any kind	d arising from	or conne	cted with this i	nspection.			,,			
Da	ie <u>14 Juliu</u>	Signed _	20/1	Authorized in	snector)	Commi	ssions PA	JUST and lines and	orsements) state	prov. and no.1		