## SOFIX CORP. FILTER SPECIFICATION SHEET

MODEL	24VH42
Assembly Drawing	J-43017
Filter Diameter	24 IN.
Net Filter Area	
Shell Retraction	LIFTING LUGS
Cake Removal	ELECTRIC SLUICE
Number of Leaves	20
Leaf Spacing	2½"
Cake Capacity	5.25 CU. FT.
Cake Thickness	1½"
Material Liquid Contact Points	S.S. T-304
Cover Closure	EYE BOLT & HEX NUTS
Interior Finish	MILL STD.
Gasket (Main Closure)	VITON
Design Pressure	75 PSIG @ 300 <sup>0</sup> F
ASME Code Stamped	YES
Connections	150# ANSI, R.F.
Manifold	COMMON INTERNAL
Gross Volume	110 U.S. GALLONS
LEAVES	
Construction	CAPPING CHANNEL - S/S T-304
Surface Member	CLOTH BAG
Center Member	4 X 4 X .063 - S/S T-304
Framestock	SPUN PLATE - S/S T-304
Outlet Nozzle	MACHINED CASTING - S/S T-316L
Outlet Gasket	VITON "O"-RING

## FORM U-1 MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS

as required by the provisions of the ASME Code rules, Section VIII, Division 1

	ufactured and		9542 I	HABUDAN NKTRON	CUMPANY L BOAD	, INC.,	HTTIKATT	ON SYSTEMS	DIAISIO	IV
1. Mar	nufactured and	certified b	y	IAIIDI AI	HOAD,	(name a	nd address of mar	nufacturer)		
2. Mai	ufactured for_	SOFIX	CORP., 1	01 NORT	HGATE C	OMM. CT	R, CHATT	ANOOGA, TN	37415	
		sr	IETY CORP	2800		•	ress of purchaser)	OOGA, TN	37406	
						(nan	ne and address)			
4. Typ	e:VERTIC	CAL	<b>3536</b> -1	700	(07)		J-43017-A	3536 (Nat'l. Bo	5 1. no.)	1991 (year built)
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ı. ine VES	cnemical and l SEL CODE. Th	pnysicai pr e desian. c	operties of all onstruction a	parts mee nd workma	t the requir	orm to ASM	E Code, Section	on VIII, Division	1:1	er and pressure 989
• • • •			J. 1011 4011 617 41							(year)
<del></del>	A-90 (addenda (Da		(Code	Case no.)			(spe	ecial service per UG-1	20(d))	
me fi	,	.,	eted for sinal	wall vess	els jackets	s of lackete	d vessels, or s	shells of heat ex	changers.	
										E1 011
. She	II: S/S, SA-	-240, T-	-304	.135"		(corr. allow. (in.	))	2 ' - 0'' (dia. ID (ft. & in.))	(leng	
								UTT WELD		ONE
. Sea	ms: DBL BL BL (long. (dbl	sngl.))	(RT (spot or full))	(eff. (%	)) (HT temp.	(°F)) (time)	(girth (dbl.,		partial, or full))	(no. of courses)
. Hea	ds: (a) S.S	S., SA-2	240, T-30		(b) S.S., SA-240, T-304					
1	. ,	no., grade))				1	c. no., grade))	Side to De		
	Location (top, bottom, ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radjus	Flat Diameter	Side to Pressure (convex or concave)
(a)	TOP	3/16"	0"	24"	1½"					CONCAVE
(b)	BOTTOM	3/16"	0"	24"	1½"					CONCAVE
If re	movable, bolts e of jacket: ket closure:			Proof	test:		(mat'l., s	spec. no., gr., size, no	).)	.S., SA-325,
If re . Typ . Jac	e of jacket: ket closure:	describe as og	gee & weld, bar, e	Proof	test: par, give dim	nensions:	(mat'l., s	spec. no., gr., size, no	If bolted,	describe or sketch
If re	e of jacket: ket closure:	describe as og at max. tem	gee & weld, bar, e	Proof If b	test: par, give dim	nensions:	(mat'l., s	spec. no gr., size, no	If bolted,	describe or sketch
If re . Typ . Jac MA	e of jacket: ket closure: WP:75 (psi) 2 and 13 to be	describe as og at max. tem completed	gee & weld, bar, et app. 300 (*F)	Proof It because If the Min design	test: par, give dim n metal tem	nensions: p.:20 (*F)	(mat'ls	spec. no gr., size, no	_ If bolted,	describe or sketch pressure <u>128</u> (psi)
If re . Typ . Jack . MA	e of jacket: ket closure: WP:75 (psi) 2 and 13 to be	describe as og at max. tem completed	gee & weld, bar, e	Proof It because If the Min design	test: par, give dim n metal tem	nensions:	(mat'ls	spec. no gr., size, no	_ If bolted,	describe or sketch
If re . Typ . Jack . MA	e of jacket: ket closure: WP:75 (psi) 2 and 13 to be esheets: (station	describe as og at max. tem completed	gee & weld, bar, et ap. 300 (*F)  I for tube sected	Proof It because If the Min design	test: par, give dim n metal tem to pressure))	nensions: p.:20 (*F)	(mat'ls _at75 (psi)	spec. no gr., size, no	If bolted, r comb. test	describe or sketch pressure <u>128</u> (psi)
If re Typ Jac MA	e of jacket: ket closure:( MP:75(psi) 2 and 13 to be esheets:(station(floation	idescribe as og at max. tem completed nary mat'i. (spe	gee & weld, bar, et app. 300 (*F)  If for tube sections, gr.)) (dia.	Proof It is:  Min design Pions.  (in.) (subject (dia. (in)	test: par, give dim n metal temp to pressure))	p.:(rem. thick	(mat'ls _at75 	. Hydro., pneu. o  (corr. allow. (ir	If bolted, r comb. test	describe or sketch pressure 128 (psi) achment (welded, bolted)
If re Typ Jac MA ms 1. Tub	e of jacket:	at max. tem  completed  nary mat'l. (spec	gee & weld, bar, et p. 300 (*F)  for tube sections, gr.)) (dia.	Proof Ic.)  Min design  tions.  (in.) (subject (dia. (in.))	test:nar, give dim	nensions:	(mat'ls	. Hydro., pneu. o  (corr. allow. (ir	If bolted, r comb. test	describe or sketch pressure 128 (psi)
If re  If	e of jacket:	at max. tem  completed  nary mat'l. (spec	gee & weld, bar, et p. 300 (*F)  for tube sections, gr.)) (dia.	Proof Ic.)  Min design  tions.  (in.) (subject (dia. (in.))	test:nar, give dim	nensions:	(mat'ls	. Hydro., pneu. o  (corr. allow. (ir	If bolted, r comb. test	describe or sketch pressure 128 (psi) achment (welded, bolted)
If re  O. Typ  O. Jac  I. MA  ems 1.  Z. Tub  ems 1.	e of jacket:  ket closure:  WP:	at max. tem  completed  hary mat'l. (specing m	gee & weld, bar, et ap. 300 (*F)  If for tube sections, ec. no., gr.)) (dia	Proof If b Ic.) Min design Vions.  (in.) (subject (dia. (in.)) (OD (in.))	test:	nensions:	(mat'ls	. Hydro., pneu. o  (corr. allow. (ir  (corr. allow. (ir	If bolted, r comb. test	describe or sketch pressure 128 (psi) achment (welded, bolted) (attachment)
If re  O. Typ  O. Jac  I. MA  ems 1.  Z. Tub  ems 1.	e of jacket:  ket closure:  WP:	at max. tem  completed  nary mat'l. (spec	gee & weld, bar, et ap. 300 (*F)  If for tube sections, ec. no., gr.)) (dia	Proof Ic.)  Min design  tions.  (in.) (subject (dia. (in.))	test:	nensions:	(mat'ls	. Hydro., pneu. o  (corr. allow. (ir	If bolted, r comb. test	describe or sketch pressure 128 (psi) achment (welded, bolted)
If re  If	e of jacket:	at max. tem  completed  nary mat'l. (specing m	gee & weld, bar, et ap. 300 (*F)  If for tube sections, ec. no., gr.)) (dia	Proof Ic.)  Min design  Prons.  (in.) (subject (dia. (in.))  Prochamber  hickness (in.))	test:	(nom. thickness (in.	(mat'ls  _at75(psi)  kness (in.))  or gauge))  or channels of	(dia. ID (ft. & in.))	If bolted, r comb. test	describe or sketch pressure 128 (psi) achment (welded, bolted) (attachment) type (straight or U))
If re  If	e of jacket:  ket closure:  WP:75(psi)  2 and 13 to be  esheets:(station	at max. tem  completed  hary mat'l. (specing m	gee & weld, bar, et app. 300 (*F)  If for tube sections, gr.)) (dia	Proof Ic.)  Min design  Prons.  (in.) (subject (dia. (in.))  Prochamber  hickness (in.))	test: par, give dim n metal temp to pressure)))) (nom	nensions:	(mat'ls  _at75	(dia. ID (ft. & in.))	If bolted, r comb. test	describe or sketch pressure 128 (psi) achment (welded, bolted) (attachment) type (straight or U))
If re  If	e of jacket:	at max. tem  completed  nary mat'l. (specing m	gee & weld, bar, et app. 300 (*F)  If for tube sections, gr.)) (dia	Proof (c.) If b (c.) Min design tions.  (in.) (subject (dia. (in) (OD (in.)) or chamber hickness (in.))	test: par, give dim n metal temp to pressure)))) (nom	(nom. thickness (in.	(mat'ls  _at75	(corr. allow. (ir (no.))  f heat exchange (dia. ID (ft. & in.))	If bolted, r comb. test	describe or sketch pressure 128 (psi) achment (welded, bolted) (attachment) type (straight or U))
If re Typ Jack MA' ms 1. Tub Tub She	e of jacket:  ket closure:  WP:75(psi)  2 and 13 to be  esheets:(station	at max. tem  completed  nary mat'l. (specing m	gee & weld, bar, et al. p. 300 (*F)  If for tube sectations, gr.)) (dia. c. no., gr.))  Cono., gr.))  Ideted for inne (nom. ti	Proof (c.) If b (c.) Min design tions.  (in.) (subject (dia. (in) (OD (in.)) or chamber hickness (in.))	test: par, give dim n metal temp to pressure)))) (nom	nensions:	(mat'ls  _at75	(corr. allow. (ir (no.))  f heat exchange (dia. ID (ft. & in.))	If bolted, r comb. test	describe or sketch pressure 128 (psi) achment (welded, bolted) (attachment) type (straight or U))
If re  If	e of jacket:	at max. tem  completed  nary mat'l. (specing m	gee & weld, bar, et app. 300 (*F)  If or tube sectate, no., gr.)) (dia., co., no., gr.))  Ideted for inner (nom. to (mat'l. (spec., corrosion))	Proof  (c.) If b  (c.) If b  (c.) If b  (in.) (subject  (dia. (in.))  (OD (in.))  (r chamber  (hickness (in.))  (eff. (	test:	(nom. thick thickness (in. ed vessels (corr. allow. (it p. (°F)) (time (b) (b) (b) (corr. allow. (it p. (°F)) (time (b) (b) (corr. allow. (it p. (°F)) (time (b) (corr. allow. (it p. (corr. allow	(mat'ls  _at	(corr. allow. (ir (no.) f heat exchange (dia. ID (ft. & in.)) (RT (spotential) (RT (spotential) (RT) (spotential) (RT) (spotential)	If bolted, roomb. test (atta	describe or sketch pressure 128 (psi)  achment (welded, bolted) (attachment)  type (straight or U))  igth (overall) (ft. & in.)) (no. of courses)
If re  If	e of jacket:	at max. tem  completed  nary mat'l. (specing mat'l. (specing mat'l. (specing mat'l. (specing mat'l.))  cobe completed  Minimum	gee & weld, bar, et app. 300 (*F)  If or tube sectate, no., gr.)) (dia., co., no., gr.))  Ideted for inner (nom. to (mat'l. (spec., corrosion))	Proof  (c.) If b  (c.) If b  (c.) If b  (in.) (subject  (dia. (in.))  (OD (in.))  (r chamber  (hickness (in.))  (eff. (	test:	(nom. thick thickness (in. ed vessels (corr. allow. (it p. (°F)) (time (b) (b) (b) (corr. allow. (it p. (°F)) (time (b) (b) (corr. allow. (it p. (°F)) (time (b) (corr. allow. (it p. (corr. allow	(mat'ls  _at	(corr. allow. (ir (no.) f heat exchange (dia. ID (ft. & in.)) (RT (spotential) (RT (spotential) (RT) (spotential) (RT) (spotential)	If bolted, roomb. test (atta	describe or sketch pressure 128 (psi)  achment (welded, bolted) (attachment)  type (straight or U))  igth (overall) (ft. & in.)) (no. of courses)
If re  9. Typ  9. Jac  1. MA  1. MA  2. Tub  3. Tub  4. She  5. Sea  6. Hea  (a) (b)	e of jacket:	at max. tem  completed  nary mat'i. (specing m	gee & weld, bar, et app. 300 (*F)  If for tube sections, gr.)) (dia	Proof  (c.) If b  (c.) Min design  fions.  (in.) (subject  (dia. (in.))  (r chamber  (hickness (in.))  (eff. (	test:	(nom. thick thickness (in. ed vessels (corr. allow. (it p. (°F)) (time (b) (b) (b) (corr. allow. (it p. (°F)) (time (b) (b) (corr. allow. (it p. (°F)) (time (b) (corr. allow. (it p. (corr. allow	(mat'ls  _at	(corr. allow. (ir (no.) f heat exchange (dia. ID (ft. & in.)) (RT (spotential) (RT (spotential) (RT) (spotential) (RT) (spotential)	If bolted, r comb. test	describe or sketch pressure 128 (psi)  achment (welded, bolted) (attachment)  type (straight or U))  igth (overall) (ft. & in.)) (no. of courses)

Purpose (inlet, outlet, drain, etc.)	Number	Dia. or	Size	Туре	Mat'l.	Nom. Thickness	Reinforcement Material	How Attached	Location
DRAIN	1	3"	150	# ANSI	5A-312,T	-304 SCH.	40FUS	ON WELDED	воттом
INLET	1	1½"	11	11	11	11		11	11
OUTLET	1	11/2"	11	11	11	11		"	11
SLUICER	1	3½"		PIPE	11	11		11	TOP HEAL
VENT	1	1½"	150	# ANSI	11	11		11	11
WASH	1	1½"	130	H VNOT	11	11		11	11
WAJII	<u> </u>	1/2							
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Supports: Skirt NO (yes or response)  Remarks: Manufacturers following items of the response		no.)	egs	(no.)			Attached <u>BOTTON</u> sioned Inspectors		
following items of the re	:port		······	(name	of part, item nu	ımber, mfr's, name	and identifying stamp)		
HORIZONTAL LEA	AE PRESSUR	E ETI	TFR .	_ CONTE	NTS. IIN	IKNOWN			
THIS VESSEL TO							PER ASME COL	E SECTION	I VTTT
DIV.1, PARAGRA			~~~~~~~~~~~			I DEVICE	I LII AONE OOL	L, OLUTION	V L L L ,
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he undersigned, holding a e of NY, PA & OH  port on 7/22 essure vessel in accordance signing this certificate near the port on the Manufacture.	a valid commis _and employe , 19 <b>_9/</b> ace with ASME either the inspe	sion iss d by L of LON , and st Code, sector no	ued by <u>UMBEI</u> G GRI ate tha Section r his e	The Nation RMENS MIDVE, II., at, to the bin VIII, Divis	nal Board of UTUAL CA ave inspecte est of my kraion 1. Cakes any wa	Boiler and Pre SUALTY CO ed the pressure nowledge and rranty, express	ssure Vessel Insp e vessel described belief, the manufa	ectors and the s in this Manufacturer has cons	state or proventurers' Data structed this
al injury or property dan	•				•		AL1-	Commissioned	, ,
e 7/22/9/ Signe						Commissions_		0 PA2534 NY2705	
	<u> </u>		ized Insp				(Nat'l. Bd. (incl. ende	orsements) state, pro	ov. and no.)
e certify that the field ass ME BOILER AND PRESS "Certificate of Authoriza teNam	URE VESSEL (	ction of	all pa expi	rts of this	vessel confo	9	requirements of S	ection VIII, Divi	
he undersigned, holding are of		sion iss d by	ued by	the Nation	nal Board of		ssure Vessel Insp		
port with the described pr									
tificate of shop inspection	on, have been s pressure ves	inspect sel in ac	ed by corda	me and th	at to the be	est of my knov	vledge and belief,	the manufactu	rer has con
d subjected to a hydrosta signing this certificate no scribed in the Manufactur	either the inspo rers' Data Repo	ector no ort. Furt	r his ei hermoi	mployer mare, neither	the inspecto	or nor his empl	oyer shall be liabl		
al injury or property dan	-	-		-					
teSign	ed				C	commissions_			

(Authorized Inspector)

(Nat'l. Bd. (incl. endorsements) state, prov. and no.)

18. Nozzles, inspection and safety valve openings:

NAT'S. BD. 3536 CFR/IFIED BY THE DURIRON CO., INC. W FILTRATION SYSTEMS DIV SHELL MAWP 75 P.S.I. AT 300°F. WIDWIT -20 MIN. F. AT 75 P.S.I. JACKET MAWR P.S.I. AT P.S.I. S/N 3536 -1700 S O. E 02296 1991 YEAR BUILT