

OFFICE USE ONLY APPLICATION FOR HCAI SPECIAL SEISMIC **CERTIFICATION PREAPPROVAL (OSP)** APPLICATION #: OSP-0216 HCAI Special Seismic Certification Preapproval (OSP) X Renewal Type: New Manufacturer Information Manufacturer: DriSteem Corporation Manufacturer's Technical Representative: Mindi Jimenez Mailing Address: 14949 Technology Dr., Eden Prairie, MN 55344 Telephone: (952) 906-4039 Email: Mindi.Jimenez@dristeem.com Product Information Product Name: Air Conditioning Units Product Type: Humidification Systems OSP-0216 Product Model Number: VLC, STS, VM, XTP, Mini-Bank, GTS LX, Ultra-Sorb, RX (See Attachment for complete listing) Humidification systems and steam dispersion units. General Description: Mounting Description: Several – See UUT Sheets, See Certified Product Tables Seismic enhancements made to the test units and/or modifications required to address **Tested Seismic Enhancements:** anomalies during the tests shall be incorporated into the production units.

Applicant Information

Applicant Compar	ny Name: Structural Integrity Ase	sociates	Inc.
Contact Person:	Katie Braman	1 BU	ILDING
Mailing Address:	233 SW Wilson Ave, Suite 101,	Bend, Ol	R 97702
Telephone: (844) 878-0200	Email:	kbraman@structint.com
Title: Program Ma	anager, TRU Compliance		

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"



California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)
Company Name: STRUCTURAL INTEGRITY ASSOCIATES, INC.
Name: Andrew Coughlin California License Number: S6082
Mailing Address: 5215 Hellyer Ave, Suite 101, San Jose, CA 95138-1025
Telephone: (415) 635-8461 Email: acoughlin@structint.com
Certification Method
GR-63-Core X ICC-ES AC156 IEEE 344 IEEE 693 NEBS 3
Other (Please Specify):
FOR CODE CO
Testing Laboratory
Company Name: APPLIED TECHNICAL SERVICES, INC. (ATS)
Contact Person: David Common
Mailing Address: 1049 Triad Court, Marietta GA 30062
Telephone: (888) 287-5227 By Email: DavidC@atslab.com
Company Name: U.S. ARMY ENGINEER RESEARCH AND DEVELOPMENT CENTER, CONSTRUCTION ENGINEERING RESEARCH LABORATORY (CERL) 09/02/2022
Contact Person: James Wilcoski
Mailing Address: 2902 Newmark Dr., Champaign IL 61822-1076
Telephone: () - Email: james.wilcoski@usace.army.mil
Company Name: CLARK TESTING LABORATORY, INC. ILDING
Contact Person: Devon Lohr
Mailing Address: 1801 Route 51, Jefferson Hills PA 15025
Telephone: (412) 387-1001 Email: dlohr@clarktesting.com
Company Name: ENVIRONMENTAL TESTING LABORATORIES, INC. (ETL)
Contact Person: Jeremy Lange
Mailing Address: 11034 Indian Trail, Dallas TX 75229-3513
Telephone: (972) 247-9657 Email: jeremy@etIdallas.com

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"

STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

HCA



Company Name: NATIONAL TE	CHNICAL SYSTEMS (NTS)
Contact Person: John Ngo	
Mailing Address: 1701 E. Plano	– Parkway, #150, Plano TX 75074
Telephone: (972) 509-2566	Email: John.Ngo@nts.com
Company Name: UNIVERSITY (OF CALIFORNIA, BERKELEY (PEER)
Contact Person: Nathan Knight	
Mailing Address: 325 Davis Hall	, Berkeley CA 94720-1729
Telephone: (510) 665-4377	Email: peer_center@berkeley.edu
Company Name: QUALTECH/C	URTISS WRIGHT/TRENTEC
Contact Person: Jerry Newberry	FORCODECO
Mailing Address: 4600 East Tech	h Drive, Cincinnati OH 45245
Telephone: (513) 528-7900	Email: jnewberry@curtisswright.com
	OSP-0216 BY: Mohammad Karim DATE: 09/02/2022

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"

HCA



Seismic Parameters

Design Basis of Equipment or Components	s (Fp/Wp) = Duct/AHU Mounted: 1.50 (SDS = 2.00, z/h = 1); Other: 1.44 (SDS = 2.00, z/h = 1); All: 1.13 (SDS = 2.50, z/h = 0)
SDS (Design spectral response accel	eration at short period, g) = 2.00 ; z/h = 1; 2.50; z/h = 0
ap (Amplification factor) =	2.5 (Duct/AHU mounted); 1.0 (others)
Rp (Response modification factor) =	6.0 (Duct/AHU mounted); 2.5 (others)
Ω_0 (System overstrength factor) =	2.0
lp (Importance factor) =	1.5
z/h (Height ratio factor) =	1 and 0
Natural frequencies (Hz) =	See Attachment
Overall dimensions and weight =	See Attachment ODE
	NED

	Approval (For Office U	lse Only) - App	proval Expires on 09/02/202	8 2	
Date:	9/2/2022	R	OSP-0216	m	
Name:	Mohammad Karim	F	BY: Mohammad Karim	Title:	Supervisor, Health Facilities
Special	Seismic Certification Va	lid <mark>Up to:</mark> SDS (g	g) = See Above	z/h =	See Above
Conditic	on of Approval (if applica	ble): 🔶 🛛 🚺	DATE: 09/02/2022	5	
		ALTROP.	VIA BUILDING COT	No.	



STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

HCA

1800819-CR-001-R6



Manufacturer:	DriSteem Corporation	on					TABLE	12
Model Line:	Vaporstream (VLC-L		IADLE	Ta				
Certified Product Cons	•							
Constructed of a light	gauge stainless steel o	enclosure.						
Certified Options Sum	mary:							
ee Table 10 for certifi	•							
	panel specific certifie							
Certified for stand mor	unting. Max height ab	ove floor to b	ottom of e	equipment	tank = 30.5".			
Iounting Configurati		-OF		DE CO				
Base mounted - rigid c			^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^ ^			-	on all sides.	
lote: Installed mounting co	nfiguration must be of sim	ilar configuratio	n and equiva	alent strength				
Building Code: CBC 20	22	Seismic C	ertificatio	on Limits:		g z/h=1. g z/h=0.		1.5
	<u><u> </u></u>	Dir	nensions	6 Gn) 6	Weight			
Model Line	Model	Depth	Width	Height	$(lb)^3$	N	otes	UU.
-	VLC2-1	B\14.8/10	har ³⁴ ma	d 30.3rin	181			1
	VL <mark>C3-1</mark>	14.8	34	30.3	181			Inter
	VL <mark>C4-1</mark>	14.8	34	30.3	181			Inter
	VLC5-1	14.8	34	30.3	181			Inter
	VLC6-1	25.0	30	30.3	212			Inter
	VLC9-1	25.0	30	30.3	212			Inter
	VLC12-1	25.0	30	30.3	212			Inter
	VLC16-1	25.0	30	30.3	212			Inter
	VLC21-1	25.0	J_{30}	30.3	212			Inter
Vaporstream VLC	VLC25-1	25.0	30	30.3	212			Inter
(Leg Mounted) ^{1,2}	VLC12-2	29.0	30	34.1	310			Inter
	VLC18-2	29.0	30	34.1	310			Inter
	VLC24-2	29.0	30	34.1	310			Inter
	VLC32-2	29.0	30	34.1	310			Inter
	VLC42-2	29.0	30	34.1	310			Inter
-	VLC50-2	29.0	30	34.1	310			Inter
	VLC18-3	32.9	32	46.1	462			Inter
	VLC27-3	32.9	32	46.1	462			Inter
	VLC36-3	32.9	32	46.1	462			Inter
	VLC48-3	32.9	32	46.1	462			Inter
	VLC46-3	52.5	54	10.1				

09/02/2022

requirements.



Manufacturer:	DriSteem Corporation	1					ТЛО	LE 1a
Model Line:	Vaporstream (VLC-Leg	g Mounted)						LE IA
Certified Product Con	struction Summary:							
Constructed of a light	gauge stainless steel er	nclosure.						
Certified Options Sum	nmary:							
See Table 10 for certifi	ied options.							
See Table 9 for contro	l panel specific certified	l options.						
Certified for stand mo	unting. Max height abov	ve floor to b	ottom of e	equipment	tank = 30.	5".		
Mounting Configurati		FOF	COD	E Co				
	on carbon steel stand/su onfiguration must be of simila							
	S		Certificatio			2.0 g z		<i>I</i> _P = 1.5
Building Code: CBC 20		Seisinic	.er incain	on Linnes:	S _{DS} ≠	2.5 g z,	/h=0.0	1 _P - 1.3
Model Line	Model	Dir	mensions	(in) 6	Weight	-	Notes	UUT
Model Lille	Model	Depth	Width	Height	(lb) ³		Notes	001
	VL <mark>C63-3</mark>	B\32.9/0	hai ³² ma	d 46 1 rir	462	0		Interp.
	VL <mark>C75-3</mark>	32.9	32	46.1	462			Interp.
	VLC24-4	40.4	32	46.1	563			Interp.
Vaporstream VLC	VLC36-4	40.4	32	46.1	563	10		Interp.
(Leg Mounted) ^{1,2,3}	VLC48-4	40.4	32	46.1	563			Interp.
	VLC64-4	40.4	32	46.1	563			Interp.
	VLC84-4	40.4	32	46.1	563			Interp.
	VLC100-4	40.4	32	46.1	563			3
		. D	UILD	NO				
¹ Includes seismic upg	rades of using captive fa	asteners to	secure circ	uit board	to cabinet	for all fut	ture installations	•
² See DriSteem seismic	certification option ins	tallation m	anual at er	nd of OSP,	in additior	n to UUT s	specific installation	on
requirements.								
³ Laboratory reported	dry weight of 300 lb w/c	water. Cor	ntents wer	e included	in testing	per opera	ting conditions.	

1800819-CR-001-R6

Manufacturer: DriSteem Corporation

Model Line: Vaporstream (VLC-In Weather Enclosure)

Certified Product Construction Summary:

VLC unit is constructed of a light gauge stainless steel enclosure. Weather enclosure constructed of structural tube carbon steel framing supporting both the unit on the interior and light gauge carbon steel sheet metal on the exterior.

Certified Options Summary:

See Table 10 for certified options.

See Table 9 for control panel specific certified options.

Mounting Configuration:

Base mounted - rigid within weather enclosure mounted on structural carbon steel tubes.

Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.

uilding Code: CBC 2022		Seismic (Seismic Certification Limits:			2.0 g 2.5 g	z/h=1.0 z/h=0.0	<i>I</i> _P = 1.5
Model Line	Modet	Din	nensions	(in) ¹ 6	Weight	Notes	UUT	
Model Line	Model	Depth	Width	Height	(lb)		Notes	001
	VLC2-1	BY35 _{Mo}	har ⁴⁴ ma	d Karin	524	0		2
	VL <mark>C3-1</mark>	35	44	66	524			Interp
	VL <mark>C4-1</mark>	35-	44	66	524			Interp
	VLC5-1	35	44	66	524	57		Interp
	VLC6-1	35	44	66	607			Interp
	VLC9-1	35	44	66	607			Interp
	VLC12-1	35	44	66	607			Inter
	VLC16-1	35	44	66	607			Inter
	VLC21-1	35	$U_{44}D$	66	607			Inter
Vaporstream VLC (In Weather	VLC25-1	35	44	66	607			Inter
Enclosure) ^{1,2}	VLC12-2	39	44	66	740			Interp
Eliciosure	VLC18-2	39	44	66	740			Inter
	VLC24-2	39	44	66	740			Interp
	VLC32-2	39	44	66	740			Inter
	VLC42-2	39	44	66	740			Inter
	VLC50-2	39	44	66	740			Inter
	VLC18-3	44	44	66	927			Inter
	VLC27-3	44	44	66	927			Interp
	VLC36-3	44	44	66	927			Inter
	VLC48-3	44	44	66	927			Interp
Dimensions reflect unit on See DriSteem seismic certi							IT enocific install	ation

requirements.



TABLE 1b

1800819-CR-001-R6

Manufacturer: DriSteem Corporation

Model Line: Vaporstream (VLC-In Weather Enclosure)

Certified Product Construction Summary:

VLC unit is constructed of a light gauge stainless steel enclosure. Weather enclosure constructed of structural tube carbon steel framing supporting both the unit on the interior and light gauge carbon steel sheet metal on the exterior.

Certified Options Summary:

See Table 10 for certified options.

See Table 9 for control panel specific certified options.

Mounting Configuration:

Base mounted - rigid within weather enclosure mounted on structural carbon steel tubes.

Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.

Building Code: CBC 2022	L'	Seismic (Certificatio	on Limits:	$S_{DS} = 2.0 g$ $S_{DS} = 2.5 g$		l _P = 1.5
Madallina	Modet	Dir	mensions ((in)16	Weight	Notos	
Model Line	Model	Depth	Width	Height	(lb)	Notes	UUT
	VL <mark>C63-3</mark>	BY44vio	har 11 ma	ad Karin	927		Interp.
	VLC75-3	44	44	66	927		Interp.
	VLC24-4	50 -	44	66	1063		Interp.
Vaporstream VLC (In Weather	VLC36-4	50 E	44	66	1063		Interp.
(In weather Enclosure) ^{1,2}	VLC48-4	50	44	66	1063		Interp.
	VLC64-4	50	44	66	1063		Interp.
	VLC84-4	50	44	66	1063		Interp.
	VLC100-4	50	44	66	1063		4
			UILD	NO			
		1					
		1					
		1					
¹ Dimensions reflect unit onl	ly, mounting stand	dimensior	ns are liste	d in Table '	9.		I
² See DriSteem seismic certil	-					JT specific installa	ation
requirements.						·	



TABLE 1b

1800819-CR-001-R6

Manufacturer:

Model Line:





TABLE 2

Certified Product Construction Summary:

STS

Constructed of light gauge stainless steel; carbon steel angle legs or "H" style carbon steel tubes for legs; all with plate carbon steel seismic cross bracing.

Certified Options Summary:

See Table 11 for certified options.

See Table 9 for control panel specific certified options.

Certified for stand mounting. STS-25 to STS-100: Max height above floor to bottom of equipment = 32"; STS-200 to STS-800: Max height above floor to bottom of equipment = 24".

Mounting Configuration:

Base mounted - rigid on carbon steel stand/support legs with plate carbon steel seismic cross bracing on all sides. Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.

Building Code: CBC 2022	E A	Seismic C	Certificatio	on Limits:		2.0 g z/h=1.0 2.5 g z/h=0.0	1.5
Model Line	Model	Din	nensions (in)⁴6	Weight	Notes	
Model Line	Model	Depth	Width	Height	(lb)	Notes	UUT
	ST <mark>S25 S</mark>	23.65	h 14.75	d 195rin	236	0	6
	STS50 S	39.65	14.75	19.5	336		Interp.
	STS100 S	39.65	19.25	19.5	350	Stainless steel coil with	Interp.
	STS200 S	55.15	30.25	19.5	850	carbon steel legs	Interp.
	STS400 S	55.15	30.25	19.5	950		Interp.
	STS800 S	55.15	30.25	29.75	1250	7	Interp.
Chan dawd Wataw	STS25 SNC	23.65	14.75	19.5	175		Interp.
	STS50 SNC	39.65	14.75	19.5	336		Interp.
Standard Water Models (STS) ^{1, 2,3}	STS100 SNC	39.65	19.25	19.5	350	Teflon coated stainless steel	Interp.
models (STS)	STS200 SNC	55.15	30.25	19.5	850	coil with carbon steel legs	Interp.
	STS400 SNC	55.15	30.25	19.5	950		Interp.
	STS800 SNC	55.15	30.25	29.75	1250		35
	STS25 C	23.65	14.75	19.5	175		Interp.
	STS50 C	39.65	14.75	19.5	336		Interp.
	STS100 C	39.65	19.25	19.5	350	Copper coil with "H" style with carbon steel legs	Interp.
	STS400 C	55.15	30.25	19.5	950	with carbon steet tegs	Interp.
	STS800 C	55.15	30.25	29.85	1250		7
Includes seismic upgrade	s of using captive fa	steners to s	secure circ	uit board t	to cabinet	for all future installations.	

³See DriSteem seismic certification option installation manual at end of OSP, in addition to UUT specific installation requirements.

⁴Dimension reflect unit only, mounting stand dimension are in Table 10

1800819-CR-001-R6

Manufacturer: **DriSteem Corporation** Model Line: **XTP Series Humidifier**

Certified Product Construction Summary:

Indoor enclosure constructed of stainless steel back-bottom, top-side, and sub-panel panels with carbon steel door panels. Outdoor enclosure constructed entirely of carbon steel.

Certified Options Summary:

See Table 12 for certified options.

Mounting Configuration:

Wall mounted - rigid (indoor and outdoor), Base mounted - rigid (outdoor only)

Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.

Building Code: CBC 2022	THE WAR	Seismic Certification Limits: Dimensions (in)				2.0 g 2.5 g	z/h=1.0 z/h=0.0	<i>I</i> _P = 1.5
Model Line	Model				Weight		Notes	UUT
Model Line	Model	Depth	Width	Height	(lb)		Notes	001
	XTP002	BY8.7/10	ha 14.6 na	d 20.6rin	38	0		Extrap.
	XTP003	8.7	14.6	20.6	38			Extrap.
	XTP006	8.7	14.6	20.6	47			8
	XTP010	11.8	17.7	24.1	79	2/		Interp.
	XTP017	11.8	17.7	24.1	79			Interp.
VTD Uumidifior with	XTP025	13.4	19.9	25.6	115			Interp.
XTP Humidifier with Indoor Enclosure ¹	XTP033	13.4	19.9	25.6	115			Interp.
	XTP042	13.4	19.9	25.6	115			Interp.
	XTP048	13.4	19.9	25.6	115			Interp.
	XTP050	13.4	39.6	25.6	218			Interp.
	XTP067	13.4	39.6	25.6	218			Interp.
	XTP083	13.4	39.6	25.6	218			Interp.
	XTP096	13.4	39.6	25.6	218			9
	XTP002				149			60
	XTP003				163			Interp.
	XTP006				171			Interp.
	XTP010				187			Interp.
XTP Humidifier with Outdoor Enclosure	XTP017	18.0	26.0	42.0	187			Interp.
	XTP025				200			Interp.
	XTP033				207			Interp.
	XTP042				207			Interp.
	XTP048				207			61



TABLE 3



1800819-CR-001-R6

Manufacturer: **DriSteem Corporation** Model Line:

Vapormist (VM)

Certified Product Construction Summary:

Constructed of a stainless steel frame with carbon steel electrical sub-panel and housing and plastic enclosure.

FORCODE

Certified Options Summary:

See Table 13 for certified options.

Mounting Configuration:

Wall mounted - rigid

Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.

Building Code: CBC 2022		Seismic (n Limits:		2.0 g 2.5 g	z/h=1.0 z/h=0.0	<i>I</i> _P = 1.5	
Model Line	Model	Dimensions (in) 6 W				-	Notes	UUT
Model Line	Model	Depth Width Height	(lb)		Notes	001		
	VM2	B 24.2/10	ha 16,1 na	18.6	95			13
	VM4	24.2	16.1	18.6	95			Interp
	VM6	24.2	16.1	18.6	122			Interp
	VM8	24.2	16.1	18.6	122	5/		Interp
	VM10	24.2	16.1	18.6	139			Interp
λ (an examinat (λ (λ) ¹	VM12	24.2	16.1	18.6	139			Interp
Vapormist (VM) ¹	VM14	24.2	16.1	18.6	139			Interp
	VM16	24.2	16.1	18.6	139			Interp
	VM21	24.2	16.1	18.6	152			Interp
	VM25	24.2	16.1	18.6	152			Interp
	VM30	24.2	16.1	18.6	156			Interp
	VM34	24.2	16.1	18.6	156			14
	fication option inst	allation m	anual at er	d of OSP,	in additior	to UL	JT specific installa	ation
¹ See DriSteem seismic certi requirements.	fication option inst	allation m	anual at er	d of OSP,	in additior	n to UL	JT specific installa	ation



1800819-CR-001-R6



lanufacturer:	DriSteem Corporatio						TAB	LE 5a
lodel Line:	Mini-Bank Steam Inj	ection						••
ertified Product Cons onstructed of square orizontal to the grour t the other end. The n	stainless steel tubes nd and perpendicular	to the duct a	r flow usir	ng a stainle	-		•	
ertified Options Sum				0				
ee Table 14 for certifie								
	·							
lounting Configuration		FOR	COD	ECO				
ertified for in line duc	• • •				11.			
ote: Installed mounting co	nfiguration must be of sim	ilar configuratio	n and equiva	lent strength				
uilding Code: CBC 20	22	Seismic C	ertificatio	on Limits:			h=1.0 h=0.0	I _P = 1.5
	<u> </u>	Din	Dimensions (in)					
Model Line	Model	Depth	Width	Height	Weight (lb)		Notes	UU
Mini-Bank		BY 5Mo	harfima	id K ⁶ arin	9	<mark>2 tub</mark> es		Extra
Steam Injection	_	5	12	12	16	3 tubes ²		15
(Duct Mounted) ¹		DA ⁵ F	-09/02	/2022				Inter
	P	5	48	24	36	7 tubes ²		16
					X			
		B	JILDI	NG				

²Weight reported reflect individual UUT weight, not mounting assembly as report in Test Report El: 9767.

1800819-CR-001-R6



Manufacturer:	DriSteem Corporation	on					ТАГ	BLE 5b
Model Line:	Mini-Bank Steam In	jection						
Certified Product Cons Constructed of square norizontal to the grour at the other end. The n	stainless steel tubes nd and perpendicular	r to the AHU a	ir flow usir	ng a stainle				
Certified Options Sum See Table 14 for certific								
Mounting Configuration Certified for Air Handlin Note: Installed mounting co	ng Unit applications i				and stiffnes	ss to those te		
Building Code: CBC 20	22		ertificatio		S _{DS} =	2.0g z/ 2.5g z/		<i>I</i> _P = 1.5
Model Line	Model	Dir Depth	nensions Width	(in) () Height	Weight (lb)	m	Notes	υυτ
		BV 5Mo	harfima	nd K ⁶ arin	9	2 tubes		Extra
Mini-Bank		5	12	12	16	3 tubes ²		17
Steam Injection (AHU Mounted) ¹			00%00	00000	···· /			Inter
(And Mounted)		PAJE.	48	24	36	7 tubes ²		18
				AAAAAA	BBAC			
		MARKA		HHHH				
		P MIN		RADD	QV/			
		A P		NGO	0			
		·D	NILD	NO				
	certification option i							

²Weight reported reflect individual UUT weight, not mounting assembly as report in Test Report El: 9767.

TRU Compliance, by Structural	Integrity Associates, Inc.
844-TRU-0200 ir	nfo@trucompliance.com

1800819-CR-001-R6



	DriSteem Corporation	1					TABLE	6a
	Ultra-Sorb							<u> </u>
Certified Product Const					.1_			
Constructed of light gau	ge stainless steel or c	arbon steel	sheet met	tal surroun	ds.			
Certified Options Summ	nary:							
See Table 15 for certified	d options.							
<i>Mounting Configuration</i> Certified for in line duct Note: Installed mounting conf	mounting application						tad	
Building Code: CBC 2022	,S.		Certificatio		S _{DS} =	2.0g z/h	=1.0	1.5
Model Line	Model	Dim Depth	nensions (Width	(in) ³ Height	Weight (lb)	T	Notes ⁴	UUT
		RV 5Mo	har ¹² ma	ad 42 rin	23	UUT: carb	on steel	26
		5						Interp.
	LHCALIFO	DATE:	09/02 80	2/2022 80	211	210 lbs.	rbon steel, ainless steel,	29, 43
		5	12	12	23	UUT: galv.	carbon steel	25
		15 D			<u> </u>			Interp.
Ultra-Sorb (Duct Mounted) ¹	LV	5	80	80	224	210 lbs.	rbon steel, ainless steel,	28, 44
		7.2	12	12	23	UUT: carb	on steel	27
		7.2						Interp.
	XV ²	7.2	80	80	261.4		rbon steel, 220 lbs. ainless steel,	30, 45
¹ See DriSteem seismic co	ertification option ins	stallation ma	anual at er	nd of OSP,	in additior	n to UUT sp	ecific installation	
requirements. ² Includes seismic upgrad ³ All duct mounted Ultra-						of duct See	LILIT Shoots	

⁴Face dimension, overall duct dimension reported in test reports.



Manufacturer: DriSteem Corporation TABLE 6a Model Line: Ultra-Sorb TABLE 6a Model Line: Ultra-Sorb TABLE 6a Model Line: Ultra-Sorb Seismic Certified options for a construction steel sheet metal surrounds. TABLE 6a Mounting Configuration: See Table 15 for certified options. See Table 15 for certified options. Image: See Table 15 for certified options. Mounting Configuration: See Table 15 for certified options in accordance with DriSteem connection details. Image: See Table 15 for certified options in accordance with DriSteem connection details. Image: See Table 15 for certified options in accordance with DriSteem connection details. Image: See Table 15 for certified options in accordance with DriSteem connection details. Image: See Table 15 for certified options in accordance with DriSteem connection details. Image: See Table 15 for certified options in accordance with DriSteem connection details. Image: See Table 15 for certified options in accordance with DriSteem connection details. Image: See Table 15 for certified options in accordance with DriSteem connection details. Image: See Table 15 for certified 0ptions in accordance with DriSteem connection details. Image: See Table 15 for certified 0ptions in accordance with DriSteem connection details. Image: See Table 15 for certified 0ptions in accordance with DriSteem connection details. Image: See Table 15 for certified 0ptions in accordance with DriSteem connection details. U
Model Line: Uttra-Sorb Certified Product Construction Summary: Constructed of light gauge stainless steel or carbon steel sheet metal surrounds. Certified Options Summary: See Table 15 for certified options. Mounting Configuration: Certified for in line duct mounting applications in accordance with DriSteem connection details. Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested. Building Code: CBC 2022 Seismic Certification Limits: Sog= 2.0 g Z/h=1.0 Sog= 2.5 g Z/h=0.0 I p= 1.5 Sog= 2.5 g Z/h=0.0 Model Line Model Dimensions (in) ³ Weight Notes ⁴ UUT Ultra-Sorb $(Durta-Sorb$ 7.2 $$ $$ $$ (Duct Mounted) ¹ MP ² 7.2 $$ $$ $$ $$ MP ² 7.2 80 80 232 20 bls. w/out water $34, 46$
Constructed of light gauge stainless steel or carbon steel sheet metal surrounds. Certified Options Summary: See Table 15 for certified options. Mounting Configuration: Certified for in line duct mounting applications in accordance with DriSteen connection details. Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested. Building Code: CBC 2022 Seismic Certification Limits: Sos= 2.0 g z/h=1.0 Sos= 2.5 g z/h=0.0 I p= 1.5 Model Line Modet Dimensions (in) ³ Weight (lb) Notes ⁴ UUT Ultra-Sorb (Duct Mounted) ¹ MP ² 7.2 12 24 50 UUT: carbon steel, 33 33 MP ² 7.2 Interp. 34 46
Certified Options Summary: See Table 15 for certified options. Mounting Configuration: Certified for in line duct mounting applications in accordance with DriSteem connection details. Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested. Building Code: CBC 2022 Seismic Certification Limits: Sog= 2.0 g z/h=1.0 Sog= 2.0 g z/h=0.0 $I_p= 1.5$ Model Line Model Dimensions (in) ³ Weight (lb) Notes ⁴ UUT VIT 7.2 12 29.5 UUT: stainless steel 47 Ultra-Sorb (Duct Mounted) ¹ MP ² 7.2 12 24 50 UUT: carbon steel, 205 lbs. w/out water UUT46: stainless steel, $34, 46$
See Table 15 for certified options. Mounting Configuration: Certified for in line duct mounting applications in accordance with DriSteem connection details. Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested. Building Code: CBC 2022 Seismic Certification Limits: Sume Certification Limits: Sume Certification Limits: Model Line Modet Dimensions (in) ² Weight (lb) Notes ⁴ UUT Ultra-Sorb (Dimensions (in) ² Weight (lb) Notes ⁴ UUT Model Immensions (in) ² Weight (lb) Notes ⁴ UUT Model Immensions (in) ² Weight (lb) Notes ⁴ UUT Model Immensions (in) ² Weight (lb) Notes ⁴ UUT Ultra-Sorb UUT: carbon steel 33 (Duct Mounted) ¹ MP ² 7.2 80 80 232
Mounting Configuration: Certified for in line duct mounting applications in accordance with DriSteem connection details. Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested. Building Code: CBC 2022 Seismic Certification Limits: S $_{05}$ = $2.0 g$ $_{2}/h=1.0$ $_{1p}$ $_{1p}$ $_{1.5}$ Model Dimensions (in) ³ Weight (lb) Notes ⁴ UUT Model Dimensions (in) ³ Weight (lb) Notes ⁴ UUT Ultra-Sorb MP ² 7.2 Interp. Ultra-Sorb MP ² 7.2 UUT34: carbon steel, 205 lbs. w/out water UUT46: stainless steel, 34, 46
Certified for in line duct mounting applications in accordance with DriSteem connection details. Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested. Seismic Certification Limits: $S_{DS} = 2.0 g z/h=1.0$ $I_P = 1.5$ Model Line Modet Dimensions (in) ³ Weight UUT Model Line Modet Dimensions (in) ³ Weight Notes ⁴ UUT $I_P = 1.5$ 7.2 12 29.5 UUT: stainless steel 47 $I_P = 1.5$ 7.2 12 29.5 UUT: stainless steel 47 $I_P = 1.5$ 7.2 1.2 2.5 0.01 : stainless steel 47 $I_P = 1.5$ 7.2 1.2 2.5 0.01 : stainless steel 47 $I_P = 1.5$ 7.2 1.2 2.4 50 0.01 : stainless steel 33 $I_P = 1.5$
Building Code: CBC 2022Seismic Certification Limits: $I_p= 1.5$ Model LineModetDimensions (in) ³ Weight (lb)Notes ⁴ UUT $Modet$ $Depth$ WidthHeight(lb)Notes ⁴ UUT MP^2 7.2 12 12 29.5 UUT: stainless steel 47 MP^2 7.2 $$ $$ $$ $$ Interp. $Ultra-Sorb$ (Duct Mounted) ¹ MP^2 7.2 $$ $$ $$ $$ MP^2 7.2 80 80 232 $UUT34$: carbon steel, 205 lbs. w/out water UUT46: stainless steel, $34, 46$
Model Line Model Depth Width Height (lb) Notes* UU1 MP ² 7.2 12 12 29.5 UUT: stainless steel 47 MP ² 7.2 Interp. Ultra-Sorb 7.2 Interp. (Duct Mounted) ¹ MP ² 7.2 80 80 232 UUT34: carbon steel, 205 lbs. w/out water UUT46: stainless steel, 34, 46
MP ² 7.2 Interp. Ultra-Sorb (Duct Mounted) ¹ MP ² 7.2 Interp. 33 MP ² 7.2 Interp. (Duct Mounted) ¹ MP ² 7.2 80 80 232 UUT34: carbon steel, 205 lbs. w/out water UUT46: stainless steel, 34, 46
Ultra-Sorb (Duct Mounted) ¹ 7.5 12 24 50 UUT: carbon steel 33 MP ² 7.2 UUT: carbon steel 33 MP ² 7.2 80 80 232 UUT34: carbon steel, 205 lbs. w/out water UUT46: stainless steel, 34, 46
Ultra-Sorb (Duct Mounted) ¹ 7.2 UUT34: carbon steel, 205 lbs. w/out water UUT46: stainless steel, 34, 46
(Duct Mounted) ¹ MP ² 7.2 80 80 80 232 UUT34: carbon steel, 205 lbs. w/out water UUT46: stainless steel, 34, 46
MP ² 7.2 80 80 232 205 lbs. w/out water UUT46: stainless steel, 34, 46
¹ See DriSteem seismic certification option installation manual at end of OSP, in addition to UUT specific installation
requirements.
² Includes seismic upgrade of closure plates at bottom tube to header connections
³ All duct mounted Ultra-Sorb units > 50 lbs require seismic cable braces at the bottom of duct. See UUT Sheets.
⁴ Face dimension, overall duct dimension reported in test reports.

1800819-CR-001-R6



lanufacturer:	DriSteem Corporatio	n					TABLE	6h
1odel Line:	Ultra-Sorb						IADLE	00
Certified Product Cons								
Constructed of light ga	uge stainless steel or	carbon steel	sheet met	al surroun:	ds.			
ertified Options Sum	marv:							
ee Table 15 for certifie	-							
			60 h					
lounting Configuratio		EOF		ECO		+-:I-		
ertified for Air Handlir ote: Installed mounting co	• • • •				11.		se tested	
	,S						z/h=1.0	
Building Code: CBC 202	22	Seismic (Certificatio	on Limits:			z/h=0.0	1.5
Model Line	Modet	Dimensions (in) ³			Weight			UUT
Model Line	Model	Depth	Width	Height	(lb)		Notes	001
		BY 5Mo	har l? ma	d Karin	23	0		20
				•••				Inter
	LH	DATE	120	120 2/2022	347	6/		23
	Z							Inter
		5	120	120	347	/ /	stainless steel headers nclosure	39
	01	5	12	12	23			19
		14 D		NG C	<u> </u>			Inter
Ultra-Sorb		5	40	40	122		stainless steel headers	37
(AHU Mounted) ¹		5				anu e	nclosure	Inter
						UUT:	stainless steel headers	
	LV ²	5	107	102	279		nclosure	38
		5						Inter
		5	120	120	347		stainless steel headers	22
						and c	arbon steel enclosure ⁴	
		5						Inter
		5	120	120	347		stainless steel headers nclosure	36
See DriSteem seismic	certification option in	stallation m	anual at or	nd of OSP	in additio	n to III	IT enocific installation	

²Includes seismic upgrade of installing bracing to the floor of unit to support bottom header

³Face dimension , overall AHU dimension reported in test reports.

⁴Weight reported reflects individual UUT weight, not mounting assembly as report in Test Report JID-0228

1800819-CR-001-R6



Manufacturer:	DriSteem Corporation	1					TABLE	6h
Model Line:	Ultra-Sorb							
Certified Product Cons	-							
Constructed of light ga	auge stainless steel or ca	arbon steel	sheet met	tal surroun	ıds.			
Certified Options Sum	mary:							
See Table 15 for certific	=							
<i>Mounting Configuratio</i> Certified for Air Handli	on: ng Unit applications in a	accordance	COD with Dris	E conr	ection deta	ails		
	onfiguration must be of simila						sted.	
Building Code: CBC 20.	S.		Certificatio			2.0g z/	h=1.0	1.5
	4	Din	nensions ((in) ³ 6	Weight	2		
Model Line	Model	Depth	Width	Height	(lb)		Notes	UUT
		BY7.2/10	har 12 ma	ad k ¹ arir	23			21
		7.2			•••			Interp.
	XV ^{2,5}	DA77E:	019902	2/21122	352		nless steel headers on steel enclosure ⁴	24
		7.2			ALL C			Interp.
	(TO	7.2	110	116	352	UUT: stai and enclo	nless steel headers osure	42
Ultra-Sorb		VIA B	UILD'	NGC		UUT31: st headers a		
(AHU Mounted) ¹	MP	7.2	12	12	30		e, 30 lbs.° tainless steel and enclosure,	31, 40
	IVII	7.2						Interp.
		7.2	110	116	308			32
		7.2						Interp.
		7.2	110	116	308	UUT: stai and enclo	nless steel headers osure	41
requirements. ² Includes seismic upgr	rade of installing bracing	g to the floc	or of unit to				pecific installation	1

⁴Weight reported reflects individual UUT weight, not mounting assembly as report in Test Report JID-0228

⁵Includes seismic upgrade of closure plates at bottom tube-to-header connections.

⁶Laboratory reported dry weight of 20 lb w/o water. Contents were included in testing per operating conditions.

TRU Compliance, by Structural Integrity Associates, Inc.

844-TRU-0200 | info@trucompliance.com

1800819-CR-001-R6

COMPLIANCE

	DriSteem Corporation GTS LX Humidifier						TABLE	7
Certified Product Const								
Constructed of a light g	-	r) or carbo	n steel (ou	tdoor) enc	losure.			
Certified Options Summ	-							
See Table 16 for certifie								
Certified for curb moun	ting. Max curb height 1	.4".						
Mounting Configuratio		-OP		ECO				
Base mounted - rigid or		of			1.			
Note: Installed mounting con	figuration must be of simila	r configuratio	n and equiva	lent strength	and stiffnes	s to those te	ested.	
Building Code: CBC 202		Saismir (ertificatio	n l imits:	S _{DS} =	2.0g z/	/h=1.0	15
Suntaining Court. CDC 202		Jersinie e		T Emirco.	S _{DS} ≠	2.5 g z/	h=0.0	1.5
Model Line	Model	Dir	nensions	(in) 6	Weight	-	Notes	UU
Model Line	Model	Depth	Width	Height	(lb)		NOLES	00
	LX-50	B\23.3/0	ha ^{23,3} na	d 42.8rin	310	UUT: Inde	oor w/o enclosure.	50
	LX-75	23.3	23.3	42.8	310			Inter
	LX-100	23.3	23.3	42.8	31			Inter
CTC Users differen	LX-150	32.3	23.3	42.8	450	5/		Inter
GTS Humidifier — (Indoor w/o —	LX-200	56	22	47	706			Inter
enclosure) ¹	LX-250	56	22	47	706			Inter
enclosure)	LX-300	56	22	47	709			Inter
	LX-400	56	34	53	1259			Inter
	LX-500	56	JI34DI	53	1259			Inter
	LX-600	56	34	53	1286	UUT: Inde	oor w/o enclosure.	53
						UUT48: Ir 325.5 lbs.	ndoor w/ enclosure,	
	LX-50	36	27.4	57	579	UUT49: O	outdoor w/ enclosure	48,4
						and mou 578.5 lbs.	nted on 14" curb.,	
GTS Humidifier	LX-75	36	27.4	57	479			Inter
Outdoor or indoor w/	LX-100	36	27.4	57	475			Inter
enclosure) ¹	LX-150	45	27.4	57	629			Inter
,	LX-200	57.4	27.4	62	914			Inter
	LX-250	57.4	27.4	62	914			Inter
	LX-300	57.4	27.4	62	916			Inter
	LX-400	57.4	39.1	62	1606			Inter
L	LX-500	1	39.1	62	1606	1		Inter

requirements.

Page 18 of 140



Manufacturer:	DriSteem Corporatio	on						
Model Line:	, GTS LX Humidifier						TABLE	1
Certified Product Con	struction Summary:							
Constructed of a light	gauge aluminum (indo	oor) or carbo	n steel (ou	tdoor) enc	losure.			
Certified Options Sum								
See Table 16 for certif	ied options. inting. Max curb height	+ 1 / "						
Certified for curb mou	inting. Max curb height	ι14.						
Mounting Configurati	ion:)E a				
	or curb mounted - rigic	J FOR		E CO	1.			
Note: Installed mounting co	onfiguration must be of simi	ilar configuratio	n and equiva	lent strengt	n and stiffnes	ss to those tes	sted.	
Building Code: CBC 20	122	Seismic (Certificatio	on Limits:		2.0g z/l	/ p=	1.5
					CHARACTER 1	2.5 g z/l	n=0.0	
Model Line	Model	//	mensions (Weight (lb)	m	Notes	UUT
		Depth	Width	Height				
GTS Humidifier	0	BAUNIO	hamma	id Karin	n ((((S))	1338.5 lbs	door w/ enclosure,	
(Outdoor or indoor w/ enclosure) ¹	/ LX-600	57.4_	39.1	62	1796		utdoor w/ enclosure	51, 52
		DATE:	09/02	2/2022			nted on 14" curb.,	51, 52
,				11111		1795.5 lbs		
				ALANA				
		P. MAN			OV/			
		VA D			0			
		·······································	DILDI	NO				

1800819-CR-001-R6



Certified Product Construction Summary:

Constructed of galvanized steel (outdoor) or aluminum (indoor) enclosure.

Certified Options Summary:

See Table 17 for certified options.

Outdoor enclosure certified for curb mounting. Max curb height 14".

Mounting Configuration:

Base mounted - rigid or curb mounted - rigid Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.

 $S_{DS} = 2.0 g z/h = 1.0$ Building Code: CBC 2022 Seismic Certification Limits: *I*_P= 1.5 $S_{DS} = 2.5 g z/h=0.0$ Dimensions (in) Weight **Model Line** Model UUT Notes Depth Width Height (lb) RX-6-1 345.5 Extrap. d Karir Ma RX-12-1 346.7 Extrap. RX-18-1 Extrap. 347.9 RX-24-1 347.9 Extrap. RX-30-1 347.9 Extrap. RX-36-1 347.9 Extrap. RX-42-1 348.3 Extrap. RX-48-1 348.7 Extrap. RX-63-1 349.6 Extrap. RX-75-1 350.6 Extrap. 53.6 32.8 62.0 RX-30-2 455.9 Extrap. RX-36-2 RX 455.9 Extrap. (Outdoor Enclosure) RX-48-2 459.9 Extrap. RX-63-2 459.9 Extrap. RX-75-2 463.9 Extrap. RX-90-2 461.5 Extrap. RX-102-2 462.3 Extrap. RX-126-2 463.3 Extrap. RX-144-2 464.3 Extrap. RX-162-2 571.6 54 RX-63-3 733.1 Interp. RX-75-3 732.2 Interp. 62.0 62.8 32.8 RX-90-3 736.7 Interp. RX-102-3 736.7 Interp.

TRU Compliance, by Structural Integrity Associates, Inc.



TABLE 8a

Page 20 of 140

1800819-CR-001-R6



Certified Product Construction Summary:

Constructed of galvanized steel (outdoor) or aluminum (indoor) enclosure.

Certified Options Summary:

See Table 17 for certified options.

Outdoor enclosure certified for curb mounting. Max curb height 14".

Mounting Configuration:

FOR Base mounted - rigid or curb mounted - rigid

Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.

Building Code: CBC 2022		Seismic C	ertificatio	on Limits:		2.0 g z/h=1.0 2.5 g z/h=0.0	- 1.5
Model Line	Model	Dimensions (in)			Weight	Notes	υυτ
Model Line	Model	Depth	Width	Height	(lb)	Notes	001
	RX <mark>-126-3</mark>	BY: Mo	hamma	d Karin	737.9	0	Interp.
	RX-144-3				739.1		Interp.
	RX162-3	η λτε.	00/01	12022	740.3		Interp.
	RX-1 <mark>89-3</mark>	PAIE.	09/02	2/2022	742.1		Interp.
	RX-216-3				743.3		Interp.
	RX-243-3			HARK	744.8		Interp.
RX	RX-102-4		32.8	62.0	735.8		Interp.
(Outdoor Enclosure)	RX-126-4	- 62.8	32.8	62.0	740.6		Interp.
	RX-144-4	' B	JILD	NO	741.8		Interp.
	RX-162-4				743.4		Interp.
	RX-216-4				746.6		Interp.
	RX-264-4				749.0		Interp.
	RX-288-4				750.6		Interp.
	RX-324-4				794.0	UUT55: mounted on 14" curb	55
	RX-63-3				450.4		Extrap.
	RX-75-3				449.5		Extrap.
	RX-90-3				454.0		Extrap.
	RX-102-3				454.0		Extrap.
RX	RX-126-3	27.4	21.0	41.2	455.2		Extrap.
(Indoor Enclosure)	RX-144-3	- 37.4	21.6	41.3	456.4		Extrap.
	RX162-3]			457.6		Extrap.
	RX-189-3]			459.4		Extrap.
	RX-216-3]			460.6		Extrap.
	RX-243-3	1			462.0		56

TRU Compliance, by Structural Integrity Associates, Inc.

Page 21 of 140



TABLE 8a



Manufacturer:	DriSteem Corporation						Тл	BLE 8a
Model Line:	RX							DLE OA
Certified Product Con	struction Summary:							
Constructed of galvan	ized steel (outdoor) or a	aluminum (indoor) en	closure.				
Certified Options Sum	mary:							
See Table 17 for certifi	ed options.							
Outdoor enclosure cer	tified for curb mounting	g. Max curb	height 14'	'.				
Mounting Configurati	on:)F a				
	or curb mounted - rigid	FOR		L CO	1.			
Note: Installed mounting co	onfiguration must be of simila	ar configuratio	on and equiva	lent strength	and stiffnes	s to thos	e tested.	
Building Code: CBC 20	122	Soismis	Certificatio	n Limite.	S DS=	2.0 g	z/h=1.0	I _P = 1.5
Building Code: CBC 20	s i	Seisinit	.er tincutit	m Linnes:	S _{DS} ≠	2.5 g	z/h=0.0	r _P - 1.5
Model Line	Model	Di	mensions	(in) 6	Weight	2	Notes	υυτ
Model Elle	Model	Depth	Width	Height	(lb)		Notes	
	RX- <mark>102-4</mark>	BY:Mo	hamma	d Karin	453.1	0		Interp.
	RX- <mark>126-4</mark>				457.9			Interp.
	RX- <mark>144-4</mark>	DATE	09/02	2/2022	459.1			Interp.
RX	RX-162-4	- 37.4	21.6	41.3	460.7	<u><u> </u></u>		Interp.
(Indoor Enclosure)	RX-216-4				463.9			Interp.
	RX-264-4			ARREA I	466.3			Interp.
	RX-288-4				467.9			Interp.
	RX-324-4	AR		NG	469.0			57
			UILD	INC				
		-				-		



Manufacturer:	DriSteem Corporati	on								
Model Line:	RX							LE 8b		
Certified Product Co	onstruction Summary:									
	ninum (indoor) enclosur	re.								
Certified Options Su	•									
See Table 17 for cer	tified options.									
Manatian Carlinum			COD							
<i>Mounting Configure</i> Wall Mounted - Rigio		EOF		PE CO						
-	u s configuration must be of sin	ailar configuratio	n and oquiva	lont strongth	and stiffnoss t	o thoso tr	ostod			
					$S_{DS} = 2$					
Building Code: CBC	2022	Seismic C	Certificatio	on Limits:	$S_{DS} = 2$			<i>I</i> _P = <i>1.5</i>		
	<u>II</u>	Dir	nensions	(in) 6	Weight	- <u>-</u>				
Model Line	Model	Depth	Width	Height	(lb)		Notes	UUT		
	RX <mark>-6-1</mark>	BY: Mo	hamma	d Karir	137.1			Interp.		
	RX <mark>-12-1</mark>				138.3			Interp.		
	RX-18-1		00/05	10000	139.5			Interp.		
	RX-24-1	PATE.	09/02	2/2022	139.5			Interp.		
	RX-30-1	24.0	16.4	24.9	139.5			Interp.		
	RX-36-1	24.8		24.9	139.5			Interp.		
	RX-42-1						N K K K K K K K K K K K K K K K K K K K	139.9		
	RX-48-1	AR		NGC	140.3			Interp.		
	RX-63-1	, D	NILD	NO	141.2			Interp.		
RX	RX-75-1				142.2			58		
κλ	RX-30-2				246.9			Interp.		
	RX-36-2				246.9			Interp.		
	RX-48-2				250.9			Interp.		
	RX-63-2				250.9			Interp.		
	RX-75-2	26.1	21	31.4	254.9			Interp.		
	RX-90-2	20.1	21	51.4	252.5			Interp.		
	RX-102-2				253.3			Interp.		
	RX-126-2				254.3			Interp.		
	RX-144-2				255.3			Interp.		
	RX-162-2				265.1			59		



DriSteem Corporation VLC, STS				Tuble De	escription: Control Panel		TABLE	E 9
22	Seismic Certification			on Limits: $S_{DS} = 2.0 g z/h = 1.0$ $S_{DS} = 2.5 g z/h = 0.0$		I _P = 1.5		
Model	Di	mension	(in)	Weight	DE Conterial	Note	e ^{2,3}	υυτ
	Depth	Width	Height			100	-5	
	6	12	12	24				7,35
	6	14	16	37				Interp
NEMA 4	6	_20	20	60	2			Interp
_	8	24	24	OS8P-(216			Interp
	8	24	30	103				3
	6	12	B 12 M	oh 2 0nm	Light gauge carbon steel			6
-	6	14	16	32	enclosure			1
	7	20	20	55	2/2022			Interp
NEMA 12	7	-24	24	73				2
	9	24	30	91				4
						Rigid wall mounted o	only	Interp
	9	30	36	130		Rigid wall mounted o	only	5
			VA I					
				UILD	ING			
n Table 8 may only be n	nounted or	n equipme	ent, which	 was initial	 ly tested with a control panel, w	hose mass is within 10%	6 of the tested pane	l and
	22 Model NEMA 4 NEMA 12	22 Model Depth 6 6 6 6 8 8 8 8 8 8 8 8 8 8 8 8 8	Model Dimension Model Depth Width 6 12 6 6 12 6 6 14 6 NEMA 4 6 20 8 24 8 8 24 8 8 24 8 9 24 7 9 24 9 9 24 9 9 30 9 10 10 10 11 10 10 12 10 10 13 14 10 14 12 12 15 14 10 16 14 10 17 24 10 18 10 10 19 30 10 10 10 10 10 10 10 10 10 10	Seismic Certification Model Dimension (in) Depth Width Height 6 12 12 6 14 16 6 20 20 8 24 24 8 24 30 6 12 12 6 14 16 7 20 20 7 24 24 9 24 30 9 30 36 9 30 36 9 30 36	Seismic Certification Limits: Model Dimension (in) Weight (lb) ¹ 6 12 12 24 6 14 16 37 NEMA 4 6 20 20 60 8 24 24 81 33 8 24 30 103 6 12 12 20 6 14 16 32 7 20 20 55 NEMA 12 7 24 24 73 9 24 30 91 9 30 36 130	Seismic Certification Limits: S $_{DS}$ = 2.0 g $_{Z}$ /h = 0.0 Model Dimension (in) Weight (lb)1 Material 6 12 12 24 6 14 16 37 6 20 20 60 8 24 24 81 6 12 12 20 8 24 30 103 6 12 12 20 8 24 30 103 6 12 12 20 7 20 20 55 7 20 20 55 7 24 24 73 9 24 30 91 9 30 36 130 9 30 36 130 10 10 10 10 10 10 10 10 <td>Seismic Certification Limits: $S_{DS} = 2.0 g z/h = 1.0$ $S_{DS} = 2.5 g z/h = 0.0$ $I_p = 1.5$ Model Dimension (in) Depth Weight (lb)¹ Material Note 6 12 12 24 6 14 16 37 1</td> <td>VLC, STS Seismic Certification Limits: $S_{DS} = 2.0 g z/h = 1.0$ $S_{DS} = 2.5 g z/h = 0.0$ $I_p = 1.5$ Model Dimension (in) Weight (lb)¹ Material Notes^{2,3} 6 12 12 24 6 14 16 37 6 12 216 12 12 24 16 16 16 17 16 12 216 16 16 17 16 12 12 24 16 16 17 16 17 16 12 12 24 16 16 17 16 16 17 16 16 16 16 17 16 16 16 16 16 17 16 16 16 17 16 16 12 12 20 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16<!--</td--></td>	Seismic Certification Limits: $S_{DS} = 2.0 g z/h = 1.0$ $S_{DS} = 2.5 g z/h = 0.0$ $I_p = 1.5$ Model Dimension (in) Depth Weight (lb) ¹ Material Note 6 12 12 24 6 14 16 37 1	VLC, STS Seismic Certification Limits: $S_{DS} = 2.0 g z/h = 1.0$ $S_{DS} = 2.5 g z/h = 0.0$ $I_p = 1.5$ Model Dimension (in) Weight (lb) ¹ Material Notes ^{2,3} 6 12 12 24 6 14 16 37 6 12 216 12 12 24 16 16 16 17 16 12 216 16 16 17 16 12 12 24 16 16 17 16 17 16 12 12 24 16 16 17 16 16 17 16 16 16 16 17 16 16 16 16 16 17 16 16 16 17 16 16 12 12 20 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 16 </td

1800819-CR-001-R6



Manufacturer: Model Line:	DriSteem Corporation VLC		Table Description: Vaporstream VLC		TABLE 10
Building Code: CBC 2022		Seismic Certificati	Seismic Certification Limits: $S_{DS} = 2.0 g z/h = 1.0$ $S_{DS} = 2.5 g z/h = 0.0$		
Component Type	Manufacturer	Model	CODE Description	Not	es UUT
		B16146CH			1,2
		B202007CH			Interp.
		B24247CH			Interp.
		B30249CH	Carbon steel, body 14 ga., door 16 ga.		4
Cabinat	14/5	B36309CH			Interp.
Cabinet	Wiegmann	BN416146CH2V·M	ohammad Karim		Interp.
		N420206			Interp.
		N424248			Interp.
		N436308	Carbon steel, body and door 14 ga.		Interp.
		N430248			3
		902401			2
		902402			Interp.
Weather enclosure	DriSteem	902403	Carbon steel, 18 ga.		Interp.
		902404	UILDING		Interp.
		902405			4
Water level controller	DriSteem	406303-011	Fiberglass Thermoset Polyester w/SST Rods		1,2,3,4
Water overflow port	DriSteem	250230-0012	Stainless Steel Fitting		1,2,3,4
Electric Heating	Characteri	409600-006	Brass Fitting w/ incoloy sheathing		1,2
Elements	Chromalox	409600-039	Brass Fitting w/incoloy sheathing		3,4
Temperature Sensor	Johnson Controls	A99BC-25C	Stainless Steel Bulb		1,2,3,4
Over-temp thermostat	Therm-O-Disc	330821-60T25 M-2	Stainless Steel mounting bracket w/stainless steel & thermoplastic body		1,2,3,4

1800819-CR-001-R6



Manufacturer: Model Line:	DriSteem Corporation VLC	Table Description: Vaporstream VLC			TABLE	10
Building Code: CBC 2022		Seismic Certification Limits: $S_{DS} = 2.0 g z/h = 1.0$ $S_{DS} = 2.5 g z/h = 0.0$				
Component Type	Manufacturer	Model	R CODE Description	No	tes	UUT
DI fill float valve	DriSteem	505210	All stainless steel construction			1,2,3,4
Steam Outlet	DriSteem	122425-002	Stainless Steel			1,2
Steam Outlet	DhSteem	162765-003	Stainless Steel			3,4
Drain Valve	DriSteem	505401-002	Brass, w/ plastic molded housing			1,2,3,4
Transformer	Tyco Electronics	40 <mark>00-08</mark> J41K999	Carbon steel core and frame			1,2,3,4
Power Block	Marathon	985GP03 BY	Phenolichad Karim			1,2
Power Block	Marathon	1433553	Phenolic			3,4,5
Cantatan	Cierrene	407010-001	Molded plastic housing		1,2	
Contactor	Siemens	407010-002	Molded plastic housing			3,4,5
Keypad	Control Products	408495-002	Molded plastic housing			1,2,3,4
SS Relay	Control Concepts	3224-50A	Extruded aluminum heatsink/mount			1,5
		1900735-004	22" x 7.2" x 43", 18.7 lbs.			1
		1900735-005	22" x 12.5" x 43", 18.8 lbs.			Interp.
Stand	DriSteem	1900735-006	22" x 20" x 43", 19 lbs.		s with plate steel	Interp.
		1900735-007	22" x 27.5" x 43", 19.3 lbs.	— sesimic cro	oss bracing.	Interp.
		1900735-008	22" x 35" x 43", 19.6 lbs.			3

1800819-CR-001-R6



Manufacturer: Model Line:	DriSteem Corporation STS	Table Description: STS (Steam-to-Steam) Humidifier			TABLE 11
Building Code: CBC 2022		Seismic Certificati	fon Limits: $S_{DS} = 2.0 g z/h = 1.0$ $S_{DS} = 2.5 g z/h = 0.0$	I _P = 1.5	
Component Type	Manufacturer	Model	CODE Description	Note	es UUT
Cabinet	Wiegmann	B12126CH	Carbon steel, body 14 ga., door 16 ga.		6,7,35
		164436-101	Stainless steel		6
Heat Exchanger	DriSteem	164422-004	Teflon coated stainless steel		35
		1 <mark>6442</mark> 0-101	Copper-0216		7
Vapor Logic Controller	Quantum	408496-006	Glass reinforced epoxy on nylon snap lock mounts		6,7
Electronic Water Level	Driftson	406303-008	Fiberglass Thermoset Polyeste <mark>r w/S</mark> ST		6
Controller	DriSteem –	406303-009	rods Fiberglass Thermoset Polyester w/SST rods		7,35
Water skimmer	Miller Machine	250230-0012	Stainless Steel Fitting		6,7,35
Temperature Sensor	Johnson Controls	A99BC-25C	Stainless steel Bulb		6,7,35
Steam outlet	DriSteem	122425-002	Stainless steel		6
Steam outlet	Dristeem	162765-003	Stainless steel		7,35
Durin Value	Driftson	505401-001	Brass valve, w/ plastic molded actuator housing		6
Drain Valve	DriSteem —	193768-001	Stainless steel valve, w/ plastic & steel actuator housing		7,35
Transformer	Тусо	4000-08J41K999	Carbon steel core and frame		6,7,35
Terminal	Marathon	MIK3, MIKE10	Molded plastic din rail mount		6,7,35
Keypad/Board	Control Products	408495-002	Molded plastic housing		6,7,35

1800819-CR-001-R6



Manufacturer: Model Line:	DriSteem Corporation STS		am) Humidifier	^{h) Humidifier} TABLE 11		
Building Code: CBC 2022		Seismic Certificat	ion Limits: $S_{DS} = 2.0 g z/h = 1.0$ $S_{DS} = 2.5 g z/h = 0.0$	I _P = 1.5		
Component Type	Manufacturer	Model	R CODE Description	No	tes	UUT
Stand	DriSteem	1900735-001 1900735-002 1900735-009 BY:N	23.7" x 14.8" x 43", 18.9 lbs., STS-25 39.7" x 14.8" x 43", 19.5 lbs., STS-50 39.7" x 19.3" x 43", 19.6 lbs., STS-100 59.2" x 30.3" x 38", 37.2 lbs., STS200/400/800 Chammad Karim	Carbon steel legs wi sesimic cross bracin		6 Interp. Interp. 7, 35

1800819-CR-001-R6



Manufacturer: Model Line:	DriSteem Corporation XTP Series Humidifier	Table De	escription: XTP Electrode Steam Humidifica	ication System TABLE	
Building Code: CBC 2022		Seismic Certificat	ion Limits: $S_{DS} = 2.0 g z/h = 1.0$ $S_{DS} = 2.5 g z/h = 0.0$	I _P = 1.5	
Component Type	Manufacturer	Model	R CODE Description	Notes	S UUT
		160727-101			8
		160727-102	Stainless Steel, top/back/bottom 18 ga.,		Interp.
		160727-103	sub panel 14 ga.;Carbon Steel, door 18ga.		Interp.
Cabinat	DriSteem	1 <mark>6072</mark> 7-104	DSP-0216		Interp.
Cabinet	Dristeem	160727-001	Stainless Steel, top/back/bottom 18 ga., sub panel 14 ga., Carbon steel, door 18ga.		Interp.
		160727-002 2			Interp.
		160727-003			Interp.
		160727-004			9
Enclosure Assembly	DriSteem	601033-001	Galvanized steel construction; 14 ga. back/bottom, lifting brackets, cylinder support, subpanel; all panels 18 ga.	Same for all outdoor m	odels 60, 61
Controller	Quantum Controls	408496-006	Glass reinforced epoxy on nylon snap lock mounts		8,9
Interface Board	Control Products	408495-004	Molded plastic housing		8,9
Electronic		530013-004	Glass reinforced epoxy on nylon snap lock mounts		8
Controller	Control Products	530013-005	Glass reinforced epoxy on nylon snap lock mounts		9
	GEMS Sensors	505096	Stainless Steel Valve		8,9
Fill Valve	Detuel Controle	601038	Glass filled nylon body with solenoid	Models XT-002 through	XT-017 60
	Detrol Controls	601039	Glass filled nylon body with solenoid	Models XT-025 through	XT-048 61
Drain Valve	OEM Solutions, Inc	405901	Glass filled nylon housing with solenoid	Same for all XT models	8, 9, 60, 61

TRU Compliance, by Structural Integrity Associates, Inc.

844-TRU-0200 | info@trucompliance.com

1800819-CR-001-R6



Manufacturer: Model Line:	DriSteem Corporation XTP Series Humidifier	Table	on System	TABLE 12	
Building Code: CBC 2022		Seismic Certification Limits: $S_{DS} = 2.0 g z/h = 1.0$ $S_{DS} = 2.5 g z/h = 0.0$ $I_P = 1.5$			
Component Type	Manufacturer	Model	CODE Description	Note	s UUT
Doiling Chamber	DriSteem	194600-008	Polypropylene		8
Boiling Chamber	Dristeen	194600-028	Polypropylene		9
		19 <mark>4800-</mark> 001	Single Phase Power, 208/240V, 277V		60
		194800-002	Single Phase Power, 380/400V		Interp
		194800-008	Single Phase Power, 208/240V, 277V		Interp
		194800-009 <mark>BY</mark> •	Single Phase Power, 380/400V		Interp
		194800-101	Single Phase Power, 230V		Inter
		194800-102	Single Phase Power, 380/400V		Inter
		194800-108	Single Phase Power, 208/240V		Inter
		1 <mark>94800-1</mark> 09	Single Phase Power, 380/400V		Inter
		194800-004	Three Phase Power, 208/240V		Inter
Boiling Chamber ¹	DriSteem	194800-006	Three Phase Power, 480V		Inter
		194800-011	Three Phase Power, 208/240V		Interp
		194800-013	Three Phase Power, 480V		Inter
		194800-015	Three Phase Power, 208/240V		Interp
		194800-016	Three Phase Power, 380/400V		Inter
		194800-017	Three Phase Power, 480V		Interp
		194800-019	Three Phase Power, 208/240V		Interp
		194800-020	Three Phase Power, 380/400V		Interp
		194800-022	Three Phase Power, 480V		Inter
		194800-023	Three Phase Power, 380/400V		Inter

1. No differences in part number for standard or low conductivity. Electrodes have different placement to achieve standard or low conductivity.

1800819-CR-001-R6



Nanufacturer: Nodel Line:	DriSteem Corporation XTP Series Humidifier	Table D	Description: XTP Electrode Steam Humidifica	ation System	TABLE 12
Building Code: CBC 2022		Seismic Certificat	tion Limits: $S_{DS} = 2.0 g z/h = 1.0$ $S_{DS} = 2.5 g z/h = 0.0$	l _P = 1.5	
Component Type	Manufacturer	Model	R CODE Description	Notes	UUT
		194800-025	Three Phase Power, 480V		Interp.
		194800-026	Three Phase Power, 380/400V		Interp.
Boiling Chamber ¹	DriSteem	19 <mark>4800-0</mark> 28	Three Phase Power, 480V		61
		194800-105	Three Phase Power, 380/400V		Extrap
		1948 00-112	Three Phase Power, 380/400V		Extrap
Contactor	Ciomono	3RT1025-1AC20	Molded plastic housing		8
Contactor	Siemens	3 <mark>RT103</mark> 5-1AC20	Molded plastic housing		9
Transformer	Tyco Electronics	408965-001	Carbon steel core and frame		8,9
		198411-001	Outdoor enclosure controls assembly		60
Subpanel	DriSteem	19 <mark>8411-0</mark> 02	Outdoor enclosure controls assembly		Interp
Assembly	DIISteeni	198 <mark>411-00</mark> 3	Outdoor enclosure controls assembly		61
		198411-004	Outdoor enclosure controls assembly		Interp
		194605-004	Glass filled nylon & thermoplastic rubber		8
Fill Cup Assembly	DriSteem	194605-006	Glass filled nylon & thermoplastic rubber		9
		194605-200	Glass filled nylon & thermoplastic rubber	Same for all outdoor m	odels 60, 61
		VL3007-105	EPDM		8
Inlet Orifice	Vernay	VL3007-110	EPDM		Interp
		VL3007-157	EPDM		9
Heater - Enclosure	Chromalox	600390	Electric resistive heater, 120V, 400W	Optional item	60, 61
		600390-001	Electric resistive heater, 230V, 400W	Optional item	60, 61
Ventilation Fan	Mechatronics	407109-002	Axial fan, 120V/230V	Same for all outdoor me	odels 60, 61

1. No differences in part number for standard or low conductivity. Electrodes have different placement to achieve standard or low conductivity.

1800819-CR-001-R6



DriSteem Corporation XTP Series Humidifier	Table Description: XTP Electrode Steam Humidification Syst	em	TABLE 12	
022	Seismic Certification Limits: $S_{DS} = 2.0 g z/h = 1.0$ $S_{DS} = 2.5 g z/h = 0.0$	= 1.5		
Manufacturer	Model FOR CODE Description	Notes	UUT	
	530013-204		8	
Ο & Δ Μfσ	530013-205		Interp	
	530013-206		Interp	
			9	
	530013-200		8	
O & A Mfg.	530013-201 Carbon steel, 18 ga.		Interp	
	530013-203		9	
	DATE: 09/02/2022			
	PATE. 03/02/2022			
	PART			
	ALILIDING			
	OILDING			
	XTP Series Humidifier 022 Manufacturer O & A Mfg.	XTP Series Humidifier Seismic Certification Limits: $S_{DS} = 2.0 g z/h = 1.0 g z/h = 1.0 g z/h = 0.0 I_P$ Manufacturer Model Description I 0 & A Mfg. 530013-204 g = 530013-205 g = 2.5 g z/h = 0.0 Z/h	XTP Series Humidifier 022 Seismic Certification Limits: $$_{DS} = 2.0 g z/h = 1.0 \\ $_{DS} = 2.5 g z/h = 0.0$ $I_P = 1.5$ Manufacturer Model Description Notes 0 & A Mfg. 530013-204	

1800819-CR-001-R6



Manufacturer: Model Line:	DriSteem Corporation VM		Table Description: Vapormist (VM)		TABLE 13
Building Code: CBC 2022		Seismic Certificat	Seismic Certification Limits: $S_{DS} = 2.0 g z/h = 1.0$ $S_{DS} = 2.5 g z/h = 0.0$ $I_{P} = 1.5$		
Component Type	Manufacturer	Model	R CODE Description	Not	es UUT
Cabinet	DriSteem	120277	Stainless steel, back panel 18 ga. Carbon steel, sub panel 14 ga., electrical panel 18ga.		13,14
Vapor Logic Controller	Quantum	408496-006	Glass reinforced epoxy on nylon snap lock mounts		13,14
Electric heating		409600-006	Brass Fitting w/incoloy sheathing		13
elements	Chromalox	409600-039	Brass Fitting w/incoloy sheathing		14
elements		409600-046	Brass Fitting w/incoloy sheathing		14
	DriSteem	406303-005	Fiberglass Thermoset Polyester w/Stainless Steel rods		13
Water Probes	Dristeem	406303-006	Fiberglass Thermoset Polyester w/Stainless Steel rods		14
Deiline Chenchen	DuiChanna	160013-001	All stainless steel construction		13
Boiling Chamber	DriSteem –	160013-004	All stainless steel construction		14
	D. Change	122425-002	Stainless Steel		13
Steam Outlet	DriSteem –	122435-002	Stainless Steel		14
Drain Valve	Honeywell	V8043A1029/B	Brass Body		13,14
Fill Valve	Gem	B2026-S19	Stainless Steel Valve		13,14
Temperature Sensor	Johnson Controls	A99BC-25C	Stainless Steel Bulb		13,14
Transformer	Tyco Electronics	4000-08J41K999	Carbon steel core and frame		13,14
Contratar	Ciomere	407010-001	Molded Plastic Housing		13
Contactor	Siemens	407010-002	Molded Plastic Housing		14

1800819-CR-001-R6



Manufacturer: Model Line:	DriSteem Corporation Mini-Bank		lification System	TABLE 14		
Building Code: CBC 2022		ng Code: CBC 2022 Seismic Certification Limits:		I _P = 1.5		
Component Type	Manufacturer	Model	OR CODE Description	Not	tes	υυτ
Duct Plate	DriSteem	162500-004	Stainless Steel	Mounted in Duct only suspended rigid	y - Ceiling	15
Duct Plate	Difsteem	162501-004	Carbon Steel	Mounted in Duct only suspended rigid	y - Ceiling	16
Deflector Plate	DriSteem	12330-001	Stainless Steel	Mounted in Duct or A	Mounted in Duct or AHU	
Multi-baffle Plate	Engle Diversified	280002-005	Stainless Steel	Mounted in Duct or AHU		15, 16, 1 18
		520201-008	Electric Brass Valve	Mounted in Duct or A	Mounted in Duct or AHU	
Steam Valve	Schneider Electric	520201-006	Pneumatic Brass Valve	Mounted in Duct or A	AHU	15, 17
Brass Tublet	BRO Machine Co.	203450-002	Brass	Mounted in Duct or A	λHU	15, 16, 17 18
			BUILDING			

1800819-CR-001-R6



Manufacturer: Model Line:	DriSteem Corporation Utlra-Sorb		nidification System	TABLE 15		
Building Code: CBC 2022		Seismic Certification Limits: $S_{DS} = 2.0 g z/h = 1.0$ $S_{DS} = 2.5 g z/h = 0.0$		$I_{\rm D} = 1.5$		
Component Type	Manufacturer	Model	R CODE Description	No	tes	UUT
Steam Valve	Schneider Electric	510700-004	HCAI	520203-025		20
		510701-002	OSP-0216	Mounted in Duct onl suspended rigid	y - Ceiling	30
		502803-009	Electric Brass Valveim	Mounted in Duct onl suspended rigid	y - Ceiling	27
		520200-014		Mounted in Duct onl suspended rigid	y - Ceiling	28
		520200-025	E: 09/02/2022	Mounted in Duct onl suspended rigid	y - Ceiling	26
		520202-004	DE DE	Mounted in AHU Onl rigid	y - Base mounted	21
		520201-004	BUILDING	Mounted in AHU Onl rigid	y - Base mounted	19
		520201-014	Pneumatic Brass Valve	Mounted in Duct onl suspended rigid	y - Ceiling	29
		520203-025		Mounted in Duct onl suspended rigid	y - Ceiling	25

1800819-CR-001-R6



Manufacturer: Model Line:	DriSteem Corporation Utlra-Sorb		ication System	TABLE 15			
Building Code: CBC 2022		Seismic Certification Limits:		$S_{DS} = 2.0 g z/h = 1.0$ $S_{DS} = 2.5 g z/h = 0.0$	$I_{P} = 1.5$		
Component Type	Manufacturer	Model	ORCOL	E Description	Notes		UUT
		310275-001	Plastic		Mounted in AHU On rigid	ly - Base mounted	19,20,21
Thermal-resin Tubelet	Steinwall	310275-003	Plastic_0	216	Mounted in Duct only - Ceiling suspended rigid		28,29,30
		310275-004	Plastic Mohamma	ad Karim	Mounted in Duct on suspended rigid	ly - Ceiling	25,26,27
Internal Drying Tube	DriSteem	100032-010	Copper	2/2022	Mounted in AHU On rigid	ly - Base mounted	21,24
		100032-070	Copper		Mounted in Duct on suspended rigid	ly - Ceiling	27
		100032-118	Copper	Der l	Mounted in Duct on suspended rigid	ly - Ceiling	30
		· V /	BUILD	INGCO			
1800819-CR-001-R6



Manufacturer: Model Line:	DriSteem Corporation GTS-LX		ctrical	TABLE 16	
Building Code: CBC 2	022	Seismic Certificati	I _P = 1.5		
Component Type	Manufacturer	Model FO	CODE Description	Notes	s UUT
		600436-10x	LX 50/75/100, 304/316, 48 lbs. ¹		48,49,5
		600436-15x	LX 150, 304/316, 80 lbs. ¹		Interp
Taple Wold Flange	DriSteem	600414-xxx	LX 200-300, 304/316, 135 lbs. ¹		Interp
Tank Weld Flange	Dristeem	600157-xxx	LX 200-300, 304/316, 135 lbs. ²		Interp
		600295-xxx	LX 400/600 ,304/316, 178 lbs. ³		52
		600087-xxx BV •M	LX 400-600, 316, 178 lbs. ²		51,53
		250540-00x	Coupling, 2" NPT Shld Half, 2 lbs. ¹		48,50
		205500-0xx	Flange 3" Ø Back-up 304/316 SST, 5.9 lbs. ³		Interp
Steam Distributions	Ferguson Ent.	2 <mark>05500</mark> -003	Flange 3" Ø Back-up Steel, 4.8 lbs. ³		Interp
		205500-0xx	Flange 4" Ø Back-up 304/316 SST, 8 lbs. ³		52
		205500-004	Flange 4" Ø Back-up Steel, 6.4 lbs. ³		52
		600553-076	LX50/75 Assy 316 SST, 32 lbs. ¹		48,49,5
		600553-075	LX50/75 Assy 304 SST, 32 lbs. ¹		48,49,5
		600553-101	LX 100 Assy 316 SST, 32 lbs. ¹		Interp
Drimony		600553-100	LX 100 Assy 304 SST, 32 lbs. ¹		Interp
Primary Heat Exchangers	DriSteem	600553-151	LX 150 Assy 316 SST, 32 lbs. ¹		Interp
Excitaligets		600553-150	LX 150 Assy 304 SST, 32 lbs. ¹		Interp
		600249-001	200/250 19.16" Centr Assy 316, 77 lbs. ¹		Interp
		600249	200/250 19.16" Centr Assy 304, 77 lbs. ¹		Interp
		600161-001	300 19.16" Centr Assy 316, 87 lbs. ¹		Interp
ote					

¹Indoor/Outdoor, ²Indoor, ³Outdoor, ⁴Skinless Indoor

1800819-CR-001-R6



Manufacturer: Model Line:	DriSteem Corporation GTS-LX		ctrical	TABLE 16			
Building Code: CBC 2	022	Seismic Certificat	I _P = 1.5				
Component Type	Manufacturer	anufacturer Model FOR CODE Description Not					
		600161	300 19.16" Centr Assy 304, 87 lbs. ¹		Interp.		
Primary Heat		600250-001	400/500 19.16" Centr Assy 316, 147 lbs. ¹		Interp.		
Exchangers	DriSteem	600250	400/500 19.16" Centr Assy 304, 147 lbs. ¹		Interp.		
Excitaligers		600088-001	600 19.16" Centr Assy 316, 168 lbs. ¹		51,52,5		
		600088	600 19.16" Centr Assy 304, 168 lbs. ¹		51,52,5		
Secondary Heat	DriSteem	G00373 BY: N	Sec 19 Hole Rolled Weldment, 30 lbs. ¹		48,49,50		
Exchangers		600190	Sec 19 Hole Rolled Weldment, 45 lbs. ¹		51,52,5		
		600445 DAT	Burner Assy. 50/75/100, 6.5 lbs. ¹		48,49,5		
Burner Assembly	DriSteem	600446	Burner Assy. 150, 6.5 lbs. ¹		Interp.		
		600396	Burner Assy. 200 to 600, 6.5 lbs. ¹		51,52,5		
Probe	DriSteem	184315-003	Probe Assy., 9.07, 3 lbs. ¹		48,49,50 51,52,5		
Ignition Control	Fenwal	405811-011	24VAC Spark, 1 per burner, 2 lbs. ¹		48,49,5 51,52,5		
Pressure Switch	Cleveland Controls	127601-001	1" WC, 1 per burner, 1lb. ¹		48,49,50		
Thermal Cut-Out	Themo-0-Disc	409560-001	VF/VM/CRU/VLC, 0.045 lbs. ¹		48,49,50 51,52,5		
lote	loor, ³ Outdoor, ⁴ Skinless Inde						

1800819-CR-001-R6



ufacturer s Unlimited s Unlimited s Unlimited iSteem	Seismic Certifica Model 405763 406774-002 600430 600432-001	S ps = 2.5 g z/h = 0.0 Description Sensor 1/4" NPT, 0.45 lbs. ¹ Sensor 1/8" NPT, 0.45 lbs. ¹ Sensor 1/8" NPT, 0.45 lbs. ¹ Sensor 155F 1/4" NPT, 1 lb. ¹ Water Fill Manifold 1/2" NPT GTS LX O.E., 1	I _P = 1.5 Notes	UUT 48,49,5 51,52,5 48,49,5 51,52,5 48,49,5 51,52,5
s Unlimited s Unlimited s Unlimited	405763 406774-002 600430	Sensor 1/4" NPT, 0.45 lbs. ¹ Sensor 1/8" NPT, 0.45 lbs. ¹ Sensor 155F 1/4" NPT, 1 lb. ¹ Water Fill Manifold 1/2" NPT GTS LX O.E., 1	Notes	48,49,5 51,52,5 48,49,5 51,52,5 48,49,5 51,52,5 51,52,5
s Unlimited	406774-002 600430	Sensor 1/8" NPT, 0.45 lbs. ¹ Sensor 155F 1/4" NPT, 1 lb. ¹ Water Fill Manifold 1/2" NPT GTS LX O.E., 1		51,52,5 48,49,5 51,52,5 48,49,5 51,52,5 51,52,5
s Unlimited	600430 BY:1	Sensor 155F 1/4" NPT, 1 lb. ¹ Water Fill Manifold 1/2" NPT GTS LX O.E., 1		51,52,5 48,49,5 51,52,5
	BY:	Water Fill Manifold 1/2" NPT GTS LX O.E. , 1		51,52,5
iSteem	600432-001			
		per burner, 4 lbs. ¹		48,49,5 51,52,5
n Brothers	600024	SST Block Drain, 5 lbs. ¹		48,49,5 51,52,5
	600024-100	Al Block Drain, 2 lbs. ¹		49
iSteem	600199-103 600199-100	Drain manifold Assy, 4 lbs. ³ Drain manifold Assy, 4 lbs. ²		49,52 48,50,5 53
romalox	600390	Heater O.E 120V 400W, 1 lb. ³		49,52
	127593-001	Intake/exhaust flue adaptor, 1.8 lbs. ⁴		50,53
iSteem	600217	Intake/exhaust flue adaptor, 2.7 lbs. ⁴		Interp
	600133	Intake/exhaust flue adaptor, 3.5 lbs. ⁴		53
iSteem	600105	Cover sub panel ⁴		50,53
	iSteem	600199-100 romalox 600390 127593-001 iSteem 600217 600133	iSteem 600199-100 Drain manifold Assy, 4 lbs. ² romalox 600390 Heater O.E 120V 400W, 1 lb. ³ 127593-001 Intake/exhaust flue adaptor, 1.8 lbs. ⁴ 600217 Intake/exhaust flue adaptor, 2.7 lbs. ⁴ 600133 Intake/exhaust flue adaptor, 3.5 lbs. ⁴	iSteem 600199-100 Drain manifold Assy, 4 lbs. ² romalox 600390 Heater O.E 120V 400W, 1 lb. ³ 127593-001 Intake/exhaust flue adaptor, 1.8 lbs. ⁴ 600217 Intake/exhaust flue adaptor, 2.7 lbs. ⁴ 600133 Intake/exhaust flue adaptor, 3.5 lbs. ⁴

¹Indoor/Outdoor, ²Indoor, ³Outdoor, ⁴Skinless Indoor

1800819-CR-001-R6



Manufacturer: Model Line:	DriSteem Corporation GTS-LX		Table Description: GTS-LX Mechanical & Ele	ectrical	TABLE 16
Building Code: CBC 2	022	Seismic Certificat	I _P = 1.5		
Component Type	Manufacturer	Model	Note	s UUT	
		600284-001	Subpanel Assy Indoor 1 Burner, 20 lbs. ²		48,50
Control Cabinet	DriSteem	600284-002	Subpanel Assy Outdoor 1 Burner, 20 lbs. ³		49
Control Cabinet	Dristeem	600562-001	Subpanel Assy Indoor 2 Burner, 20 lbs. ²		51,53
		600562-002	Subpanel Assy Outdoor 2 Burner, 20 lbs. ³		52
		6006 <mark>8</mark> 3-001	Seismic Curb 50-100 O.E., 18 lbs ³		49
Currie	DuiCteann	600683-002 2	Seismic Curb 150 O.E., 22 lbs ³		Interp.
Curbs	DriSteem	600683-003	Seismic Curb 200-300 O.E., 27 lbs ³		Interp.
		600683-004	Seismic Curb 400-600 O.E., 37 lbs ³		52
<u> </u>		600783 DAT	LX50-100, 2.3 lbs. ²		48,50
Seismic Mounting Brackets	DriSteem	600782	LX150, 3.6 lbs ²		Interp.
DIACKELS		600781	LX200-600, 6.2 lbs ²		51,53
		NA.	SUITIDING		
			OILDIN		
Note					
Indoor/Outdoor ² Inc	loor, ³ Outdoor, ⁴ Skinless Ind	oor			

1800819-CR-001-R6



Manufacturer: Model Line:	DriSteem Corporation GTS-LX		<i>Table Description:</i> RX Mechanical & Elec	trical	TABLE 17
Building Code: CBC 2	022	Seismic Certificat	ion Limits: $S_{DS} = 2.0 g z/h = 1.0$ $S_{DS} = 2.5 g z/h = 0.0$	I _P = 1.5	
Component Type	Manufacturer	Model	R CODE Description	Notes	UUT
		600595-100	Tank assembly, 1-stage, Indoor & Outdoor	Weight: 37 lbs.	58
Tank Assembly	DriSteem	600 <mark>595-20</mark> 0	Tank assembly, 2-stage, Indoor & Outdoor	Weight: 58 lbs.	54, 59
		600595-300	Tank assembly, 3,4- stage, Indoor & Outdoor	Weight: 111 lbs.	55, 56, 57
Level Probe	Infopac	406303-116	Water Level Probe Assy	under 10 lbs	54 - 59
Tank temp sensor	Probes Unlimited	600804	Tank Temp Sensor/Thermal Fuse 1/4" NPT	under 10 lbs	54 - 59
Drain temp sensor	Probes Unlimited	600973 RV·N	Drain Temp Sensor 1/8" NPT	under 10 lbs	54 - 59
Heating Element	SJH	600931-XXX	Heater 2kW-9kW 120V-600V	under 10 lbs	54 - 59
	T C	505077-003	Drain Valve 3/4" Normally Closed	under 10 lbs, Indoor Unit	rs 56 - 59
Drain Valve	Tofine	505077-004	Drain Valve 3/4" Normally Open	under 10 lbs, Outdoor Ur	nits 54, 55
		60 <mark>0568-0</mark> 01	Fill Valve 0.26 GPM Restrictor	under 10 lbs	54 - 59
	Deltard	600568-002	Fill Valve 0.53 GPM Restrictor	under 10 lbs	54 - 59
Fill Valve	Deltrol	600568-003	Fill Valve 0.80 GPM Restrictor	under 10 lbs	54 - 59
		600568-004	Fill Valve 1.30 GPM Restrictor	under 10 lbs	54 - 59
Subpanel O.E.	Dristeem	198200-450	Panel w/ 10A breaker	under 10 lbs	54, 55
Heater - Outdoor Enclosure	Chromalox	600390	Heater OE, 120V	under 10 lbs	54, 55
Fan Assembly - Outdoor Enclosure	Mechatronics	185110-003	Fan OE, 120V	under 10 lbs	54, 55
		600610-002	Subpanel Assy 1-Stg RTS	Indoor & Outdoor	58
Control Cohing	Driete	600610-004	Subpanel Assy 2-Stg RTS	Indoor & Outdoor	54, 59
Control Cabinet	Dristeem	600610-103	Subpanel Assy 3 & 4 Stage RTS	Indoor & Outdoor	55, 56, 57
		600610-xxx	Subpanel Assy		Extrap.
Display	Quantum	408494-100	Touchscreen	under 10 lbs	54 - 59

TRU Compliance, by Structural Integrity Associates, Inc. 844-TRU-0200 | info@trucompliance.com



1800819-CR-001-R6

Manufactu	rer: DriSteem Co	orporation						
Model Line:	VLC, STS, V	M, XTP, GTS LX, Mini	i-Bank, Ultra-Sorb, RX				-	-
UUT	Unit Description	Report Number	Testing Lab	Year Tested	ISO 17025 Accredited?	S _{DS}	z/h	I _P
1	VLC 2-1	JID: 17-0228 (UUT 5)	Clark Testing	2017	Yes	2.0 2.5	1.0 0.0	1.5
2	VLC 2-1 (w/ weather enclosure)	EL: 9706 (UUT 2)	Clark Testing	2011 Yes		2.0 2.5	1.0 0.0	1.5
3	VLC 100-4	EL: 9706 (UUT 3)	Clark Testing	2011	11 Yes		1.0 0.0	1.5
4	VLC 100-4 (w/ weather enclosure)	EL: 9706 (UUT 4)	R Clark Testing	2011	Yes	2.0 2.5	1.0 0.0	1.5
5	Control Panel XXL	EL: 9675 (UUT 5)	Clark Testing	2011	Yes	2.0 2.5	1.0 0.0	1.5
6	STS 25S	UUT 6)	Clark Testing	2017	Yes	2.0 2.5	1.0 0.0	1.5
7	STS 800C	EL: 9706 (UUT 7)	Clark Testing Iohammad Karim	2011	2011 Yes		1.0 0.0	1.5
8	XTP-006	D252672 (UUT 1)	Applied Technical Services (ATS)	al 2016 Yes		2.0 2.5	1.0 0.0	1.5
9	XTP-096	D252672 (UUT 2)	Applied Technical Services (ATS)	2016	Yes	2.0 2.5	1.0 0.0	1.5
13	VM-2	EL: 9675 (UUT 11)	Clark Testing	2011	Yes	2.0 2.5	1.0 0.0	1.5
14	VM-34	EL: 9675 (UUT 12)	Clark Testing	2011	Yes	2.0 2.5	1.0 0.0	1.5
15	Mini-Bank – 12"x12" Duct	EL: 9767 (UUT 13)	Clark Testing	2011	Yes	2.0 2.5	1.0 0.0	1.5
16	Mini-Bank – 24"x48" Duct	EL: 9767 (UUT 14)	Clark Testing	2011	Yes	2.0 2.5	1.0 0.0	1.5
17	Mini-Bank – 12"x12" AHU	EL: 9767 (UUT 15)	Clark Testing	2011	Yes	2.0 2.5	1.0 0.0	1.5
18	Mini-Bank – 24"x48" AHU	EL: 9767 (UUT 15)	Clark Testing	2011	Yes	2.0 2.5	1.0 0.0	1.5
19	Ultra-Sorb LV - 12"x12" AHU	EL: 9767 (UUT 15)	Clark Testing	2011	Yes	2.0 2.5	1.0 0.0	1.5

Notes:

1. ERDC-CERL is not ISO 17025 accredited but has been reviewed by TRU Compliance and found to meet the requirements for ICC-ES AC156 testing. Review form is on file with TRU Compliance.

*See DriSteem seismic certification option installation manual at end of OSP, in addition to UUT specific installation requirements.

Page 42 of 140



1800819-CR-001-R6

Manufactur	er: DriSteem C	orporation						
Model Line:	VLC, STS, V	M, XTP, GTS LX, Mini	-Bank, Ultra-Sorb, RX				-	
υυτ	Unit Description	Report Number	Testing Lab	Year Tested	ISO 17025 Accredited?	S _{DS}	z/h	I _P
20	Ultra-Sorb LH - 12"x12" AHU	EL: 9767 (UUT 15)	Clark Testing	2011	Yes	2.0 2.5	1.0 0.0	1.5
21	Ultra-Sorb XV - 12"x12" AHU	EL: 9767 (UUT 15)	Clark Testing 2011 Yes		2.0 2.5	1.0 0.0	1.5	
22	Ultra-Sorb LV - 120"x120" AHU	JID: 17-0228 (UUT 2)	Clark Testing	2017	Yes	2.0 2.5	1.0 0.0	1.5
23	Ultra-Sorb LH - 120"x120" AHU	EL: 9767 (UUT 15)	R Clark Testing	2011	Yes	2.0 2.5	1.0 0.0	1.5
24	Ultra-Sorb XV - 110"x116" AHU	JID: 17-0228 (UUT 2)	Clark Testing	2017	Yes	2.0 2.5	1.0 0.0	1.5
25	Ultra-Sorb LV - 12"x12" Duct	EL: 9767 (UUT 13)	Clark Testing	2011	Yes	2.0 2.5	1.0 0.0	1.5
26	Ultra-Sorb LH - 12"x12" Duct	EL: 9767 (UUT 13)	Clark Testing ohammad Karin	2011	Yes	2.0 2.5	1.0 0.0	1.5
27	Ultra-Sorb XV - 12"x12" Duct	EL: 9767 (UUT 13)	Clark Testing	2011	Yes	2.0 2.5	1.0 0.0	1.5
28	Ultra-Sorb LV - 80"x80" Duct	JID: 17-0228 (UUT 3)	Clark Testing	2017	Yes	2.0 2.5	1.0 0.0	1.5
29	Ultra-Sorb LH - 80"x80" Duct	JID: 17-0228 (UUT 3)	Clark Testing	2017	Yes	2.0 2.5	1.0 0.0	1.5
30	Ultra-Sorb XV - 80"x80" Duct	JID: 17-0228 (UUT 3)	Clark Testing	2017	Yes	2.0 2.5	1.0 0.0	1.5
31	Ultra-Sorb MP - 12"x12" AHU	JID: 17-0228 (UUT 2)	Clark Testing	2017	Yes	2.0 2.5	1.0 0.0	1.5
32	Ultra-Sorb MP - 110"x116" AHU	JID: 17-0228 (UUT 2)	Clark Testing	2017	Yes	2.0 2.5	1.0 0.0	1.5
33	Ultra-Sorb MP - 12"x12" Duct	JID: 17-0228 (UUT 4)	Clark Testing	2017	Yes	2.0 2.5	1.0 0.0	1.5
34	Ultra-Sorb MP - 80"x80" Duct	JID: 17-0228 (UUT 3)	Clark Testing	2017	Yes	2.0 2.5	1.0 0.0	1.5
35	STS800 SNC	PR069604.02 (UUT1)	National Technical Systems - Silicon Valley	2017	Yes	2.0 2.5	1.0 0.0	1.5

Notes:

1. ERDC-CERL is not ISO 17025 accredited but has been reviewed by TRU Compliance and found to meet the requirements for ICC-ES AC156 testing. Review form is on file with TRU Compliance.

*See DriSteem seismic certification option installation manual at end of OSP, in addition to UUT specific installation requirements.



1800819-CR-001-R6

Unit Description	1, XTP, GTS LX, Mini- Report Number	-Bank, Ultra-Sorb, RX					
-	Report Number						
	Report Number	Testing Lab	Year Tested	ISO 17025 Accredited?	S _{DS}	z/h	I _P
Jltra-Sorb LV - 120"x120" AHU Stainless	1700754-TR-001-R2 (UUT5)	ERDC-CERL	2020	No ¹	2.0 2.5	1.0 0.0	1.5
Ultra-Sorb LV - 40"x40" AHU Stainless	1700754-TR-001-R2 (UUT6a)	ERDC-CERL	2020	No ¹	2.0 2.5	1.0 0.0	1.5
Jltra-Sorb LV - 107"x102" AHU Stainless	1700754-TR-001-R2 (UUT10)	ERDC-CERL	2020	No ¹	2.0 2.5	1.0 0.0	1.5
Jltra-Sorb LH - 120"x120" AHU Stainless	1801166-TR-001-R0 (UUT13)	R COPEER	2019	Yes	2.0 2.5	1.0 0.0	1.5
Ultra-Sorb MP - 12"x12" AHU Stainless	1801166-TR-001-R0 (UUT13)	PEER	2019	Yes	2.0 2.5	1.0 0.0	1.5
Iltra-Sorb MP - 110"x116" AHU Stainless	1801166-TR-001-R0 (UUT13)	PEER	2019	Yes	2.0 2.5	1.0 0.0	1.5
Jltra-Sorb XV - 110"x116" AHU Stainless	(UUT13)	OSP-per 16	2019	Yes	2.0 2.5	1.0 0.0	1.5
Ultra-Sorb LH - 80"x80" Stainless	1800819-TR-001-R1	Environmental Testing Laboratory (ETL)	2020	O Yes	2.0 2.5	1.0 0.0	1.5
Ultra-Sorb LV - 80"x80" Stainless	1800819-TR-001-R1	Environmental Testing Laboratory (ETL)	2020	Yes	2.0 2.5	1.0 0.0	1.5
Ultra-Sorb XV - 80"x80" Stainless	1800819-TR-001-R1	Environmental Testing Laboratory (ETL)	2020	Yes	2.0 2.5	1.0 0.0	1.5
Ultra-Sorb MP - 80"x80" Stainless	1800819-TR-001-R1	Environmental Testing Laboratory (ETL)	2020	Yes	2.0 2.5	1.0 0.0	1.5
Ultra-Sorb MP - 12"x12" Stainless	1800819-TR-001-R1	Environmental Testing Laboratory (ETL)	2020	Yes	2.0 2.5	1.0 0.0	1.5
GTS LX 50 Indoor (w/ enclosure)	1800819-TR-001-R1	Environmental Testing Laboratory (ETL)	2020	Yes	2.0 2.5	1.0 0.0	1.5
GTS LX 50 Outdoor (w/ enclosure)	1800819-TR-001-R1	Environmental Testing Laboratory (ETL)	2020	Yes	2.0 2.5	1.0 0.0	1.5
GTS LX 50 (w/o enclosure)	1800819-TR-001-R1	Environmental Testing Laboratory (ETL)	2020	Yes	2.0 2.5	1.0 0.0	1.5
GTS LX 600 Indoor (w/ enclosure)	1800819-TR-001-R1	Environmental Testing Laboratory (ETL)	2020	Yes	2.0 2.5	1.0 0.0	1.5
GTS LX 600 Outdoor (w/ enclosure)	1800819-TR-001-R1	Environmental Testing Laboratory (ETL)	2020	Yes	2.0 2.5	1.0 0.0	1.5
GTS LX 600 (w/o enclosure)	1800819-TR-001-R1	Environmental Testing Laboratory (ETL)	2020	Yes	2.0 2.5	1.0 0.0	1.5
	AHU StainlessIltra-Sorb LV - 107"x102" AHU StainlessIltra-Sorb LH - 120"x120" AHU StainlessUltra-Sorb MP - 12"x12" AHU StainlessIltra-Sorb MP - 110"x116" AHU StainlessIltra-Sorb XV - 110"x116" AHU StainlessUltra-Sorb LV - 80"x80" StainlessUltra-Sorb LV - 80"x80" StainlessUltra-Sorb MP - 12"x12" StainlessUltra-Sorb LV - 80"x80" StainlessUltra-Sorb MP - 80"x80" StainlessUltra-Sorb MP - 80"x80" StainlessUltra-Sorb MP - 80"x80" StainlessUltra-Sorb MP - 12"x12" StainlessGTS LX 50 Indoor (w/ enclosure)GTS LX 50 Outdoor (w/ enclosure)GTS LX 50 Outdoor (w/ enclosure)GTS LX 600 Indoor (w/ enclosure)GTS LX 600 Outdoor (w/ enclosure)GTS LX 600 Outdoor (w/ enclosure)GTS LX 600 Sure)GTS LX 600 Indoor (w/ enclosure)GTS LX 600 Outdoor (w/ enclosure)GTS LX 600 Outdoor (w/ enclosure)	AHU Stainless (UUT6a) Iltra-Sorb LV - 107"x102" AHU Stainless 1700754-TR-001-R2 (UUT10) Ikra-Sorb LH - 120"x120" AHU Stainless 1801166-TR-001-R0 (UUT13) Ultra-Sorb MP - 12"x12" AHU Stainless 1801166-TR-001-R0 (UUT13) Ikra-Sorb MP - 110"x116" AHU Stainless 1801166-TR-001-R0 (UUT13) Ikra-Sorb XV - 110"x116" AHU Stainless 1801166-TR-001-R0 (UUT13) Ikra-Sorb LH - 80"x80" Stainless 1800819-TR-001-R1 Ultra-Sorb LV - 80"x80" Stainless 1800819-TR-001-R1 Ultra-Sorb XV - 80"x80" Stainless 1800819-TR-001-R1 Ultra-Sorb MP - 80"x80" Stainless 1800819-TR-001-R1 Ultra-Sorb MP - 80"x80" Stainless 1800819-TR-001-R1 Ultra-Sorb MP - 80"x80" Stainless 1800819-TR-001-R1 GTS LX 50 Indoor (w/ enclosure) 1800819-TR-001-R1 GTS LX 50 Outdoor (w/ enclosure) 1800819-TR-001-R1 GTS LX 50 Outdoor (w/ enclosure) 1800819-TR-001-R1 GTS LX 600 Indoor (w/ enclosure) 1800819-TR-001-R1 GTS LX 600 Indoor (w/ enclosure) 1800819-TR-001-R1 GTS LX 600 Outdoor (w/ enclosure) 1800819-TR-001-R1	AHU Stainless(UUT6a)ERDC-CERLIltra-Sorb LV - 107"x102" AHU Stainless1700754-TR-001-R2 (UUT10)ERDC-CERLIltra-Sorb LH - 120"x120" AHU Stainless1801166-TR-001-R0 (UUT13)PEERJUTa-Sorb MP - 12"x12" AHU Stainless1801166-TR-001-R0 (UUT13)PEERJItra-Sorb MP - 110"x116" AHU Stainless1801166-TR-001-R0 (UUT13)PEERItra-Sorb MP - 110"x116" AHU Stainless1801166-TR-001-R0 (UUT13)PEERItra-Sorb XV - 110"x116" AHU Stainless1801166-TR-001-R0 (UUT13)PEERUltra-Sorb LH - 80"x80" Stainless1800819-TR-001-R1 1800819-TR-001-R1Environmental Testing Laboratory (ETL)Ultra-Sorb LV - 80"x80" Stainless1800819-TR-001-R1 1800819-TR-001-R1Environmental Testing Laboratory (ETL)Ultra-Sorb MP - 80"x80" Stainless1800819-TR-001-R1 1800819-TR-001-R1Environmental Testing Laboratory (ETL)Ultra-Sorb MP - 12"x12" GTS LX 50 Indoor (w/ enclosure)1800819-TR-001-R1 1800819-TR-001-R1Environmental Testing Laboratory (ETL)GTS LX 50 (w/ enclosure)1800819-TR-001-R1 1800819-TR-001-R1Environmental Testing Laboratory (ETL)GTS LX 50 (w/ enclosure)1800819-TR-001-R1 1800819-TR-001-R1Environmental Testing Laboratory (ETL)GTS LX 50 (w/ enclosure)1800819-TR-001-R1 1800819-TR-001-R1Environmental Testing Laboratory (ETL)GTS LX 600 Indoor (w/ enclosure)1800819-TR-001-R1 1800819-TR-001-R1Environmental Testing Laboratory (ETL)GTS LX 600 Indoor (w/ enclosure)1800819-TR-001-R1<	AHU Stainless(UUT6a)ERDC-CERL2020Iltra-Sorb LV - 107"X102" AHU Stainless1700754-TR-001-R2 (UUT10)ERDC-CERL2020Iltra-Sorb LH - 120"X120" AHU Stainless1801166-TR-001-R0 (UUT13)PEER2019Ultra-Sorb MP - 12"X12" AHU Stainless1801166-TR-001-R0 (UUT13)PEER2019Iltra-Sorb MP - 110"X116" AHU Stainless1801166-TR-001-R0 (UUT13)PEER2019Iltra-Sorb XP - 110"X116" AHU Stainless1801166-TR-001-R0 (UUT13)PEER2019Iltra-Sorb XV - 110"X116" AHU Stainless1800819-TR-001-R1 I 800819-TR-001-R1Environmental Testing Laboratory (ETL)2020Ultra-Sorb LV - 80"X80" Stainless1800819-TR-001-R1 I 800819-TR-001-R1Environmental Testing Laboratory (ETL)2020Ultra-Sorb XV - 80"X80" Stainless1800819-TR-001-R1 I 800819-TR-001-R1Environmental Testing Laboratory (ETL)2020Ultra-Sorb MP - 12"X12" Stainless1800819-TR-001-R1 I 800819-TR-001-R1Environmental Testing Laboratory (ETL)2020GTS LX 50 Indoor (w/ enclosure)1800819-TR-001-R1 I 800819-TR-001-R1Environmental Testing Laboratory (ETL)2020GTS LX 50 Indoor (w/ enclosure)1800819-TR-001-R1 I 800819-TR-001-R1Environmental Testing Laboratory (ETL)2020GTS LX 50 Outdoor (w/ enclosure)1800819-TR-001-R1 I 800819-TR-001-R1Environmental Testing Laboratory (ETL)2020GTS LX 50 Outdoor (w/ enclosure)1800819-TR-001-R1 I 800819-TR-001-R1Environmental Testing Laboratory (ETL)20	AHU Stainless (UUT6a) ERDC-CERL 2020 No ¹ Iltra-Sorb LV - 107"x102" AHU Stainless 1700754-TR-001-R0 (UUT10) ERDC-CERL 2020 No ¹ Itra-Sorb LH - 120"x120" AHU Stainless 1801166-TR-001-R0 (UUT13) PEER 2019 Yes Ultra-Sorb MP - 12"x12" AHU Stainless 1801166-TR-001-R0 (UUT13) PEER 2019 Yes Itra-Sorb MP - 110"x116" AHU Stainless 1801166-TR-001-R0 (UUT13) PEER 2019 Yes Itra-Sorb MP - 110"x116" AHU Stainless 1801166-TR-001-R0 (UUT13) PEER 2019 Yes Ultra-Sorb XV - 110"x116" AHU Stainless 1800819-TR-001-R1 (UUT13) Environmental Testing Laboratory (ETL) 2020 Yes Ultra-Sorb LV - 80"x80" Stainless 1800819-TR-001-R1 Stainless Environmental Testing Laboratory (ETL) 2020 Yes Ultra-Sorb MP - 80"x80" Stainless 1800819-TR-001-R1 B00819-TR-001-R1 Environmental Testing Laboratory (ETL) 2020 Yes Ultra-Sorb MP - 80"x80" Stainless 1800819-TR-001-R1 Environmental Testing Laboratory (ETL) 2020 Yes GTS LX 50 Outdoor (w/ enclosure) 1800819-TR-001-R1 Environmenta	Ultra-Sorb LV - 40"×40" AHU Stainless 1700754-TR-001-R2 (UUT6a) ERDC-CERL 2020 No ¹ 2.0 2.5 Itra-Sorb LV - 107"x102" AHU Stainless 1700754-TR-001-R2 (UUT10) ERDC-CERL 2020 No ¹ 2.0 2.5 Itra-Sorb LV - 107"x102" AHU Stainless 1801166-TR-001-R0 (UUT13) ERDC-CERL 2019 Yes 2.0 2.5 JItra-Sorb MP - 12"x12" AHU Stainless 1801166-TR-001-R0 (UUT13) PEER 2019 Yes 2.0 2.5 Itra-Sorb MP - 110"x116" AHU Stainless 1801166-TR-001-R0 (UUT13) PEER 2019 Yes 2.0 2.5 Itra-Sorb XV - 110"x116" AHU Stainless 1801166-TR-001-R0 (UUT13) PEER 2019 Yes 2.0 2.5 Itra-Sorb XV - 10"x80" Stainless 1800819-TR-001-R1 (UUT13) Environmental Testing Laboratory (ETL) 2020 Yes 2.0 2.5 Ultra-Sorb XV - 80"x80" Stainless 1800819-TR-001-R1 Environmental Testing Laboratory (ETL) 2020 Yes 2.0 2.5 Ultra-Sorb XV - 80"x80" Stainless 1800819-TR-001-R1 Environmental Testing Laboratory (ETL) 2020 Yes 2.0 2.5 GTS LX 50 Indoor (w/ enclosure) 1800819-TR-001-R1 Environmental Testing Laborator	Ultra-Sorb LV - 40"x40" AHU Stainless I700754-TR-001-R2 (UUTa) ERDC-CERL 2020 No ¹ 2.0 1.0 AHU Stainless I700754-TR-001-R2 (UUTa) ERDC-CERL 2020 No ¹ 2.0 1.0 AHU Stainless I700754-TR-001-R2 (UUT1a) ERDC-CERL 2020 No ¹ 2.0 1.0 AHU Stainless I801166-TR-001-R0 (UUT13) ERDC-CERL 2019 Yes 2.0 1.0 AHU Stainless I801166-TR-001-R0 (UUT13) PEER 2019 Yes 2.0 1.0 AHU Stainless I801166-TR-001-R0 (UUT13) PEER 2019 Yes 2.0 1.0 AHU Stainless I800819-TR-001-R0 (UUT13) PEER 2019 Yes 2.0 1.0 AHU Stainless I800819-TR-001-R1 (UUT13) Environmental Testing Laboratory (ETL) 2020 Yes 2.0 1.0 UItra-Sorb LV - 80"x80" Stainless I800819-TR-001-R1 Environmental Testing Laboratory (ETL) 2020 Yes 2.0 1.0 UItra-Sorb MP - 12"x12" 1800819-TR-001-R1 Environmental Testi

Notes:

1. ERDC-CERL is not ISO 17025 accredited but has been reviewed by TRU Compliance and found to meet the requirements for ICC-ES AC156 testing. Review form is on file with TRU Compliance.

*See DriSteem seismic certification option installation manual at end of OSP, in addition to UUT specific installation requirements.



1800819-CR-001-R6

Manufactu	Irer: DriSteem Co	orporation						
Model Line	VLC, STS, VI	M, XTP, GTS LX, Mini	-Bank, Ultra-Sorb, RX			-	-	
UUT	Unit Description	Report Number	Testing Lab	Year Tested	ISO 17025 Accredited?	S _{DS}	z/h	Ι _Ρ
54	RX-162-2 (Outdoor Enc Base Mnt)	1901043-TR-001-R0 (UUT1)	Environmental Testing Laboratory (ETL)	2021	Yes	2.0 2.5	1.0 0.0	1.5
55	RX-324-4 (Outdoor Enc Base Mounted on Curb)	1901043-TR-001-R0 (UUT2)	Environmental Testing Laboratory (ETL)	2021	Yes	2.0 2.5	1.0 0.0	1.5
56	RX-243-3 (Indoor Enc Base Mnt)	1901043-TR-001-R0 (UUT3)	Environmental Testing Laboratory (ETL)	2021	Yes	2.0 2.5	1.0 0.0	1.5
57	RX-324-4 (Indoor Enc Base Mnt)	1901043-TR-001-R0 (UUT4)	Environmental Testing Laboratory (ETL)	2021	Yes	2.0 2.5	1.0 0.0	1.5
58	RX-75-1 (Indoor Enc Wall Mnt)	1901043-TR-001-R0 (UUT4)	Environmental Testing Laboratory (ETL)	2021	Yes	2.0 2.5	1.0 0.0	1.5
59	RX-162-2 (Indoor Enc Wall Mnt)	1901043-TR-001-R0 (UUT6)	Environmental Testing Laboratory (ETL)	2021	Yes	2.0 2.5	1.0 0.0	1.5
60A	XTP002AL (Outdoor Enc Wall Mnt)	2200099-TR-001-R0 (UUT60A)	Environmental Testing Laboratory (ETL)	2022	Yes	2.0 2.5	1.0 0.0	1.5
60B	XTP002AL (Outdoor Enc Base Mnt)	2200099-TR-001-R0 (UUT60B)	Environmental Testing Laboratory (ETL)	2022	O Yes	2.0 2.5	1.0 0.0	1.5
61A	XTP048L3 (Outdoor Enc Wall Mnt)	2200099-TR-001-R0 (UUT61A)	Environmental Testing Laboratory (ETL)	2022	Yes	2.0 2.5	1.0 0.0	1.5
61B	XTP048L3 (Outdoor Enc Base Mnt)	2200099-TR-001-R0 (UUT61B)	Environmental Testing Laboratory (ETL)	2022	Yes	2.0 2.5	1.0 0.0	1.5
		PAVIA	BUILDING					
Notes:	1	1	1	1		1		·

1. ERDC-CERL is not ISO 17025 accredited but has been reviewed by TRU Compliance and found to meet the requirements for ICC-ES AC156 testing. Review form is on file with TRU Compliance.

*See DriSteem seismic certification option installation manual at end of OSP, in addition to UUT specific installation requirements.

1800819-CR-001-R6

UUT 1

Manufacturer: Model Line:

Model Number:

VLC, STS, VM, XTP, GTS LX, Mini-Bank, Ultra-Sorb, RX

VLC 2-1

DriSteem Corporation

Serial Number:

Number: 1252334-01-01

Product Construction Summary:

Constructed of light gauge stainless steel with insulating pads on all sides; carbon steel angle legs with plate steel seismic cross bracing (DriSteem Part #190735-004).

Options/Subcomponent Summary:

16x14x6 NEMA-12 control cabinet: Tyco: Transformer 120/208/240/277/480/600x24 Copper winding; Marathon: Terminal 20A, Power Block 35A; Siemens: Contactor 35A; Ferraz Shawmut 0.5-30A fuse; ABB: 480V breaker 4A; Control Products: Vaporlogic keypad and board. Drain valve, Fill Valve, Float Switch, Temp Sensor.

			NED FI			Mp					
		4		UUT Pro	operties		T				
Weight		Dim	ension (in)	halled Abreach			Lowes	t Natural	Frequen	cy (Hz)	
(lb)	Depth	Width OSHeight 16		Front	-Back	Side	-Side	Vertical			
181	14.8		34.0	30).3	23	3.4	11	L.4	> 3	3.3
			UUT Highes	t Passed Se	ismic Run	Informa	tion				
Buildi	ng Code		Test Crite	eria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V}
CPC	CBC 2022		ICC-ES AC		2.0	1.0	1.5	3.20	2.40	1.67	0.6
LDL	ZUZZ		ICU-ESAL	156 09/0	2.5	² 0.0	1.5	3.20	2.40	1.07	0.6

Test Mounting Details:





UUT1 attached to seismic support legs which are secured to the table platen using four (4) 3/8" dia. Grade 5 bolts. One at each leg.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

1800819-CR-001-R6

COMPLIANCE

Model Line: Model Number: Product Construction The weather enclosure unit is constructed of l	VLC 2-1 (V	V/ Weat			Ultra-Sorb, R	X				JUT	2	
Product Construction The weather enclosure			her Enclosu	.C, STS, VM, XTP, GTS LX, Mini-Bank, Ultra-Sorb, RX .C 2-1 (W/ Weather Enclosure) Serial Number: N/A								
The weather enclosure	Summary:				Serial Nı	ımber:	N/A					
structural carbon stee	ight gauge	cted of			0	0		•				
logic keypad and boar	d. Drain va	lve, Fill	Valve, Float	ORC	emp Sensor. Properties	MS					-	
Weight		Dir	nension (in		Toperties		Towes	t Natural	Frequen	cv (Hz)		
(lb) ¹	Depth	14	Width		leight 16	Front	-Back	Side	-		tical	
524	35.0		44.0		66.0	19	9.0	16	5.1	19	9.9	
			UUT Highe	st Passed	Seismic Run	Informa	tio <mark>n</mark>					
Building Co	de		Test Crit	teria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g	
CBC 2022	!	Ç	ICC-ES A	C156 09)/02/202 2.5	2 ^{1.0} 0.0	1.5 1.5	3.20	2.40	1.67	0.67	
Test Mounting Details	:						2					



UUT2 directly bolted to the table platen using four (4) 3/8" Dia. Grade 2 bolts. One at each leg. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. ¹Laboratory reported dry weight of 300 lbs. w/o water. Contents were included in testing per operating conditions.

1800819-CR-001-R6

UUT 3

1192577-03-01

COMPLIANCE

Manufacturer: DriSteem Corporation

Model Line:VLC, STS, VM, XTP, GTS LX, Mini-Bank, Ultra-Sorb, RXModel Number:VLC 100-4Serial Number:Serial Number:

Product Construction Summary:

Constructed of light gauge stainless steel with insulating pads on all sides; carbon steel angle legs with plate steel seismic cross bracing (DriSteem Part #190735-008).

Options/Subcomponent Summary:

30x24x8 NEMA-4 control cabinet: Tyco: Transformer 120/208/240/480x24 copper winding; Marathon: Terminal 20A, Power Block 335A; Siemens: Contactor 35A; Ferraz Shawmut 35-60A fuse 480V; ABB: 480V 4A breaker; Control Products: Vapor-logic keypad and board. Drain valve, Fill Valve, Float Switch, Temp Sensor:

		IED FO			Mp						
			UUT PI	operties		4					
Weight		Dimension (in)	haller Maren	(hr/W) xXn/WS		Lowes	t Natural	Frequen	cy (Hz)		
(lb) ¹	Depth	Width OS Height 16		Fron	t-Back	Side	-Side	Vertical			
563	40.4	32.0		6.1	1	5.5	2	20	> 3	> 33.3	
		UUT Highes	t Passed S	eismic Run	Informa	tion					
Buildi	ng Code	Test Crite	eria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g	
CBC	2022		156 09/	02/ <u>2.0</u> 2.5	2 1.0 2 0.0	1.5	3.20	2.40	1.67	0.67	

Test Mounting Details:



Unit attached to seismic support legs which are secured to the table platen using four (4) 3/8" dia. Grade 2 bolts. One at each leg. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. ¹Laboratory reported dry weight of 435 lbs. w/o water. Contents were included in testing per operating conditions.

1800819-CR-001-R6

Manufacturer:

DriSteem Corporation Model Line: VLC, STS, VM, XTP, GTS LX, Mini-Bank, Ultra-Sorb, RX

VLC 100-4 (w/ Weather Enclosure) Model Number:

Serial Number: N/A

Product Construction Summary:

The weather enclosure is constructed of structural carbon steel tubing with 18 ga. carbon steel panels enclosing the unit. The unit is constructed of light gauge stainless steel with insulating pads on all sides; with insulating pads on all sides, mounted directly onto weather enclosure structural carbon steel tubing.

Options/Subcomponent Summary:

30x24x8 NEMA-12 control cabinet: Tyco: Transformer 120/208/240/277/480/600x24 copper winding; Marathon: Terminal 20A, Power Block 335A; Siemens: Contactor 35A; Ferraz Shawmut 35-60A 480V fuse; ABB: 480V breaker; Control Products: Vapor-logic keypad and board. Drain valve, Fill Valve, Float Switch, Temp Sensor,

		4	UUT Prope	erties						
Weight		Dimension (in)	Dimension (in)				t Natural	Frequen	cy (Hz)	
(lb) ¹	Depth	Width	OS Heigh	A 16	Front	-Back	Side	Side	Vertical	
1,063	50.0	44.0	66.0		12	2.4	16	.1	27	7.3
		UUT Highes	st Passed Seisn	mic Run	Informa	tion 💦				
Building Code Test		Test Crit	eria S	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V}
CBC 2022		ICC-ESAC	156 09/ 02	2.0	2 1.0	1.5	3.20	2.40	1.67	0.6

Test Mounting Details:



Unit directly bolted to the table platen using four (4) 3/8" Dia. Grade 2 bolts. One at each leg. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. ¹Laboratory reported dry weight of 655 lbs. w/o water. Contents were included in testing per operating conditions.

```
TRU Compliance, by Structural Integrity Associates, Inc.
         844-TRU-0200 | info@trucompliance.com
                             Page 49 of 140
```

OSP-0216



1800819-CR-001-R6



Manufacturer:	DriSteem	Corpor	ation								
Model Line:			P, GTS LX, Mii	ni-Bank I	Iltra-Sorb R	x			(JUT	5
Model Number:			(XXL) Contro			Serial Nu	umber:	1192577-	-37-01-CC		
Product Constru	uction Summary:										
NEMA 12 rated of	control panel.										
Options/Subco	nponent Summa	ry:									
	12 control cabinet	-				-		-			
	5A; Siemens: Cont						480V 4A	breaker; (Control P	roducts: V	/apor-
logic keypad an	d board. Drain va	lve, Fill	Valve, Float S	Switch, Te	emp Sensor.						
			OF			On.					
			NEV								
	1			UUTF	Properties		T				
Weight		Dir	mension (in)					t Natural			
(lb)	Depth	Width OSHeight 16					-Back		-Side		tical
130 9.0 30.0 36.0 N/A N/A UUT Highest Passed Seismic Run Information							N/A N/A		/A		
		ρ		VIGHUH				-	1		1
Build	ing Code		Test Crite	eria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	А _{RIG-Н} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CB	C 2022		ICC-ES AC	156 09	/02/202	$\frac{1.0}{2}$	1.5	3.20	2.40	1.67	0.67
		·7		337772223	2.5	0.0	1.5				
Test Mounting I	Details:		O WARK			No de	N				
			RAVIA		DING	60%					
				BUIL	DING						
						WH I					
						11	10				
							10.10				
							1 teach				
		2					1				
		1	26				1.1				
		() ()					() BI				
							100				
			-				200				
						-					

Unit mounted to wall test fixture using four (4) 3/8" dia. Grade 2 bolts with washer, lock washer and nut. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

1800819-CR-001-R6

Manufacturer:	DriSteem Corporation			
Model Line:	VLC, STS, VM, XTP, GTS LX, Mini-Ba	UUT 6		
Model Number:	STS-25 S	1252334-	02-01	
Product Construct	on Summary:			
Constructed of ligh #190735-001).	t gauge stainless steel; carbon steel ar	ngle legs with plate carbon steel se	ismic cross	bracing (DriSteem Part
Options/Subcompo	•			
Ball float valve, sta	nless steel heat exchanger, automatic	steam valve, and temperature ser	isor. Attach	ed 12x12x6 NEMA-12
control cabinet: Ty	co: Transformer 120/208/240/480x24 c	opper winding; Marathon: Termina	al 20A; Siem	iens: Contactor 35A;
Ferraz Shawmut 35	-60A 480V fuse; ABB: 480V 1.6A breake	r; Control Products: Vapor-logic ke	ypad and b	oard. Drain valve, Fill

Valve, Float Switch, Temp Sensor. with Vapor-logic interface controller attached to exterior of door panel.

 $\langle \rangle$

				UUT P	roperties							
Weight		Dimension (in)				Lowest Natural Frequency (Hz)						
(lb)	Depth	oth Wie		Width OSHeight 16		Front	t-Back	Side-Side		Vertical		
236	23.7		14.8		19.5	23.4		11.4		> 33.3		
			UUT Highe	st Passed S	eismic Run	Informa	ition					
Building Code Test Cr		Test Crit	eria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (
			2.0	1.0	1.5	2.20	2.40	1.67	0.67			
CBC	CBC 2022		ICC-ESAC156 09/(2.5	0.0 1.5		3.20 2.40		1.67	0.67	

Test Mounting Details:



Unit attached to seismic support legs which are secured to the table platen using a total of four (4) 3/8" dia. Grade 5 bolts; One at each leg.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

1800819-CR-001-R6

Manufacturer:	DriSteem Corporation
---------------	----------------------

Model Line:	VLC, STS, VM, XTP, GTS L	.X, Mini-Bank, Ultra-Sorb, RX		
Model Number:	STS-800 C	Serial Number:	1192577-06-01	

Product Construction Summary:

Constructed of light gauge stainless steel mounted on "H" style carbon steel tubes with carbon steel plate seismic cross bracing (DriSteem Part #190735-009).

Options/Subcomponent Summary:

Copper heat exchanger. Attached 12x12x6 NEMA-12 control cabinet: Tyco: Transformer 120/208/240/480x24 copper winding; Marathon: Terminal 20A; Siemens: Contactor 35A; Ferraz Shawmut 35-60A 480V fuse; ABB: 480V 4A breaker; Control Products: Vapor-logic keypad and board. Drain valve, Fill Valve, Float Switch, Temp Sensor. with Vapor-logic interface controller attached to exterior of door panel.

		Į,		UUT F	Properties		4						
Weight		Din	Dimension (in)				Lowest Natural Frequency (Hz)						
(lb) ¹	Depth Width		OSF	OS Height 16		Front-Back		-Side	Vertical				
1,250	55.2		30.3	29.8		19.6		17.4		> 33.3			
			UUT Highe	st Passed	Seismic Run	Informa	ition						
Building Code Test Criteri		eria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)				
			2.0	1.0	1.5	2 20	2.40	1.67	0.67				
CBC	CBC 2022		ICC-ESAC156 09/		2.5	² 0.0	1.5	3.20 2.40		1.07	0.07		

Test Mounting Details:





Unit attached to seismic support legs which are secured to the table platen using a total of eight (8) 3/8" dia. Grade 2 bolts; two at each leg.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. ¹Laboratory reported dry weight of 520 lbs. w/o water. Contents were included in testing per operating conditions.

1800819-CR-001-R6

Manufacturer:	DriSteem	Corporation								•
Model Line:	VLC, STS,	VM, XTP, GTS LX, M	1ini-Bank	, Ultra-Sorb, R	X			Ľ	JUT	8
Model Number:	XTP006B1	L			Serial Nı	umber:	1242630	-01-01		
Product Constru	uction Summary:									
	-	nstructed of 18ga.	stainless	s steel back/bo	ottom/top	o/side, ar	nd 14 ga. s	tainless s	teel sub-µ	panel
panels with 18 g	ga. carbon steel do	oor panels.								
Options/Subcor	nponent Summai	ry:								
Cabinet (160727	-101), Controller	(408496-006), Inter	face Boa	rd (408495-004	4), Boiling	g Chamb	er (194600)-008), Ele	ectronic C	ontrolle
(530013-004), Di	rain Valve (405901	L), Fill Valve (505096	6), Conta	ctor (3RT1025	-1AC20),	Fill Cup A	Assembly (194605-0	04), Trans	sformer
(408965-001), El	ectrical Door (530)013-204), Cylinder	Door (53	0013-200), Inle	et Orifice	(VL3007-	-105)			
		AF	On		DA.					
		1ED			MS,					
		L.	דטט	T Properties		T				
Weight		Dimension (in	i) <u></u>	Versilve Witzland VIII		Lowes	st Natural	Frequen	cy (Hz)	
(lb)	Depth	OS	Height 16	Front	-Back	Side-Side		de Verti		
47	8.7	14.6		20.6	N	/A	N/A		N/A	
		UUT Highe	st Passe	d Seismic Run	Informa	tion		-	1	
Build	ing Code	Test Crit	teria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CB	C 2022	ICC-ESA	C156	$a/a^{2.0}$	2 1.0	1.5	3.20	2.40	1.67	0.67
CB	C 2022		C130 0	2.5	² 0.0	1.5	5.20	2.40	1.07	0.01
		Monito								

UUT8 was wall mounted - rigid using four (4) 3/8" dia. Grade 2 bolts with washer, lock washer and nut. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

1800819-CR-001-R6

Manufacturer:	DriSteem	Corpora	ation								•
Model Line:	VLC, STS,	VM, XTF	P, GTS LX, Mi	ini-Bank, U	ltra-Sorb, R	X				JUT	9
Model Number:	XTP096P3	3				Serial Nı	ımber:	1242630-	-02-01		
Product Construc	tion Summary:	•									
The unit, 600V-Th	ree Phase,is co	onstruct	ed of 18ga. s	stainless st	eel back/bo	ottom/top	o/side, an	id 14 ga. s	tainless s	teel sub-	panel
panels with 18 ga	. carbon steel d	oor pane	els.								
Options/Subcom	ponent Summa	ry:									
Cabinet (160727-0	004), Controller	(408496	-006), Interfa	ace Board	(408495-004	4), Boiling	g Chambe	er (194600	-028), Ele	ectronic C	ontrolle
(530013-005), Dra	in Valve (405902	1), Fill Va	alve (505096), Contacto	or (3RT1035	-1AC20),	Fill Cup A	ssembly (194605-0	06), Tran	sformer
(408965-001), Eleo	ctrical Door (530	0013-207	7), Cylinder [Door (5300	13-203), Inl	et Orifice	(VL3007-	157)			
			F	JKCC		21					
			ED.			MS.					
		li	5	UUTP	roperties						
Weight		Din	nension (in)		1/11/10/2010		Lowes	t Natural	Frequen	cy (Hz)	
(lb)	Depth	4	Width	OSR	eight 16	Front	-Back	Side	-Side	Ver	tical
218	13.4		39.6		25.6	N	/A	N/A		N/	
			UUT Highes	st Passed S	Seismic Run				·		<u>.</u>
Buildin	g Code		Test Crit		S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g
CBC 2022				2.0	1.0	1.5					
CBC	2022		ICC-ES AC	156 ()9	/02/202	2 0.0	1.5	3.20	2.40	1.67	0.67
Test Mounting De	tails:	E				ABBA	2	-			
					Monitor accelerometer						
	3		NA A	BUI	DING	0	0.000				
				1							
		UE		-		FT	8				
						-					
				ŕ							
				-		-	-				
				-			-1				
	1										
			X				A 18				
			R	2 KK		BR M			-		
			17					100	-		
			25/1/	15			11				
	1112		10	K					5 ×		
	ounted rigid up	cing four	· (6) 2/0" dia	Gradaak	olte with w	achor los	-kwacha	rand nut			
JUT9 was wall m Jnit maintained s	-	-								ast Contr	onte
vere included in t	-	-		necional p		uner requ	anement	anter Sildr			

were included in testing per operating conditions.

1800819-CR-001-R6

Manufacturer: DriSteem Corporation

Model Line:VLC, STS, VM, XTP, GTS LX, Mini-Bank, Ultra-Sorb, RXModel Number:VM-2

Serial Number: 1192577-13-01

Product Construction Summary:

The VM models are constructed of a 14 ga. carbon steel sub-panel, 18ga. carbon steel electrical cover, and 18ga. stainless steel back panels with a thin plastic housing over entire unit.

Options/Subcomponent Summary:

Tyco: Transformer 120/208/240/480x24 copper winding; Siemens: Contractor 35A; Marathon: Terminal 20A, Power Block 85A; Control Products: Vapor-logic controller; Carlo Gavazzi: SSR 1 pole 480V 50A, ABB: 480V 4A breaker. Drain Valve, Fill Valve, Float switch, Temp sensor. Resistive electric heating elements, conductive water probes, stainless steel boiling chamber, and steam outlet for distribution.

		17	2	UUT Pro	portios								
Weight		Dim	Dimension (in)				Lowest Natural Frequency (Hz)						
(lb) ¹	Depth	Width		OSHei	ight 16	Front	t-Back	Side	-Side	Vertical			
95	24.2		1621.0	18	3.6	N/A		N/A		N/A			
			UUT Highest	Passed Se	ismic Run	Informa	tion						
Building Code Test Criter		ria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g				
CBC 2022		ICC-ES AC1	ESAC156 09/0-2.0		2 1.0	1.5	3.20	2.40	1.67	0.67			
					2.5	0.0	1.5						

Test Mounting Details:





UUT13 was wall mounted - rigid using two (2) 3/8" dia. grade 2 bolts with washer, lock washer and nut. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. ¹Laboratory reported dry weight of 55 lbs. w/o water. Contents were included in testing per operating conditions.

OSP-0216



UUT 13

VM-34

1800819-CR-001-R6

UUT 14

Manufacturer: DriSteem Corporation Model Line: VLC. STS. VM. XTP. GTS

VLC, STS, VM, XTP, GTS LX, Mini-Bank, Ultra-Sorb, RX

Serial Number: 1192577-14-01

Product Construction Summary:

Model Number:

The VM models are constructed of a 14 ga. carbon steel sub-panel, 18ga. galvanized carbon steel electrical cover, and 18ga. stainless steel back panels with a thin plastic housing over entire unit.

Options/Subcomponent Summary:

Tyco: Transformer 120/208/240/480x24 copper winding; Siemens: Contractor 55A; Marathon: Terminal 20A, Power Block 85A; Control Products: Vapor-logic controller; Carlo Gavazi: SSR 2 pole 480V 50A, SSR 1 pole 480 V 63A; ABB: 480V 1.6A breaker. Drain Valve, Fill Valve, Float switch, Temp sensor. Resistive electric heating elements, conductive water probes, stainless steel boiling chamber, and steam outlet for distribution.

		1.2.1	U	UT Properties		-				
Weight		Dimensio	Lowest Natural Frequency (Hz)							
(lb) ¹	(lb) ¹ Depth		:h 03	S Height 16	Front	-Back	Side	-Side	Vertical	
156	16.1	24.2	2 X X X X X X X X X X X X X X X X X X X	18.6	N/A		N/A		N/A	
		υυτι	Highest Pas	sed Seismic Run	Informa	tion				
Buildi	ng Code	Tes	st Criteria	eria S _{DS} (g) z/h I _P A _{FLX-H} (g) A _{RIG}		A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g		
CBC	2022		-ES AC156	09/02/202	$\frac{1.0}{0.0}$	1.5	3.20	2.40	1.67	0.67







UUT14 was wall mounted - rigid using two (2) 3/8" dia. grade 2 bolts with washer, lock washer and nut. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. ¹Laboratory reported dry weight of 75 lbs. w/o water. Contents were included in testing per operating conditions.

> TRU Compliance, by Structural Integrity Associates, Inc. 844-TRU-0200 | info@trucompliance.com

1800819-CR-001-R6



						•		
Manufacturer:		Corporation					UT 1	E
Model Line:	VLC, STS, V	/M, XTP, GTS LX, Mini	i-Bank, Ultra-Sorb, F	XX		<u> </u>	011	.5
Model Number:	12"x12" Mi	ni-Bank (Duct Mount	ted)	Serial Number:	N/A			
Product Construe	-							
	•	eel metal tubes with	•			•		
	-	and perpendicular to		-	steel plate a	t one end	and stain	iless
steel piping at the	e other end. The n	number of tubes dep	ends upon the duct	height.				
	ponent Summary nulti-baffle plate,	y: internal drying tube	, steam valve, and tl	nermal-resin tub	oelet.			
		ENED FO	R CODE C	OMPLE				
Weight		Dimension (in)	nWenNNvsenNvv/WenNvvXVV	Low	est Natural	Frequen	cy (Hz)	
(lb)	Depth	Width	OS Height 16	Front-Back	Side	-Side	Vert	tical
16	5.0	12.0	12.0	N/A	N	/A	N	/A
		UUT Highest	Passed Seismic Run	Information				_
Buildir	ng Code	Test Criter	ria S _{DS} (g)	z/h I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
СВС	2022	ICC-ESAC1	56 09/ 02/2.1 2.5	2 1.0 1.5 2 0.0 1.5	3.36	2.52	1.67	0.67
Test Mounting De	etails:		AE GRADE 5 OLTS	1" Plywood Sł 3/32" DIAMETER GALVANIZED STEEL ARCRAFT CABLE 7 STRANDED CORE HUMIDIFIER AND (85 LBS MA	x19 8	— TOP (6) T	(2) 3/8" S 5 STEEL 3/8" THREA SCBH-0	WASHER & SAE GRADE NUT ADED ROD

Mini-bank is attached to the duct through a cut opening on one side which is secured with metal cover plates and attached to duct with self-tapping screws. The opposite side is secured to the duct using three (3) 1/8" dia. screws through duct into a threaded hole in the end plate of the Mini-bank unit.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

1800819-CR-001-R6



Manufacturer:	DriSteem	n Corporation					4 0
Model Line:	VLC, STS,	, VM, XTP, GTS LX, Mir	ni-Bank, Ultra-Sorb	, RX		UUT	16
Model Number:	24"x48" №	Mini-Bank (Duct Mour	nted)	Serial Num	ber: N/A		
Product Constru	ction Summary:	:					
nstalled horizon	tal to the ground	steel metal tubes witl d and perpendicular e number of tubes de	to the duct air flow	using a stainl	-	•	
	ponent Summa		penus upon the uu	et neight.			
-	=	e, internal drying tub	e, steam valve, and	thermal-resi	n tubelet.		
			c, steam valve, and		r tubetet.		
			DCODE				
		F	OK CODE (-01			
		IED.		OMp,			
		L.	UUT Properties		7		
Weight		Dimension (in)	hm/Mex/Musee/fra/Mex/ax		Lowest Natural	Frequency (Hz)	
(lb)	Depth	Width	OS Height 1	Front-B	ack Side-	Side Ve	rtical
36	5.0	48.0	24.0	N/A	N/	'A	N/A
			t Passed Seismic R				
Buildi	ng Code	Test Crite	eria S _{DS} (g			A _{RIG-H} (g) A _{FLX-V} (g	g) A _{RIG-V} (
CBC	2022	ICC-ESAC	156 09/02/20	22 1.0	1.5 3.52	2.64 1.67	0.67
Fact Mounting D	otaila		2.5	<u> </u>	1.5		
Test Mounting D	etans:			1" Plywo	od Sheet		
			X.			< <i>2</i>	
		1. ISA MA	45°	-0		(2) 1/2	" SAE GRADE
			BUINAN	3/16" DIAMETE GALVANIZED S AIRCRAFT CAR	STEEL	(2) 1/2	EL WASHER & " SAE GRADE EL NUT
				STRANDED CO	DRE	\searrow	
	1 miles	(1) 5/8" S/ STEEL BO	AE GRADE 5 DLTS				
			•	è		• • 1/2" THRE	EADED ROD
		45°	ø				
			· · · · · · · · · · · · · · · · · · ·		R AND DUCT 2 BS MAX.)		
							UARE WASHE
				<u> </u>		(11) #10 TEK SCR	
				TE \		TOP & BOTTOM (22) TOTAL	EWS & WASHE
				E \	1 5/8" x 12ga STRI (TYPICAL)	(22) TOTAL	EWS & WASHE

Mini-bank is attached to the duct through a cut opening on one side and secured with cover plates over opening to duct with self tapping screws. The opposite side is secured to the inside face of duct using six (6) 1/8" dia. screws through duct into the threaded end of the Mini-bank unit. The entire duct assembly is attached to ceiling fixture using Mason SCB/H Seismic Cable Bracing Assembly.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

1800819-CR-001-R6

Manufacturer: DriSteem Corporation

Model Line: VLC, STS, VM, XTP, GTS LX, Mini-Bank, Ultra-Sorb, RX

Model Number: 12" x 12" Mini-Bank (AHU Mounted)

Product Construction Summary:

Constructed of square stainless steel tubes with nozzles punched along their length. The tubes are spaced at 3" and installed horizontal to the ground and perpendicular to the AHU air flow using a stainless steel plate at one end and stainless steel piping at the other end. The number of tubes depends upon the desired height.

Serial Number:

N/A

Options/Subcomponent Summary:

Deflector plate, multi-baffle plate, internal drying tube, steam valve, and thermal-resin tubelet.

EOR CODE CO.	
JED MA	

			UUT	Properties		7				
Weight		Dimension (in	n)			Lowes	st Natural	Frequen	cy (Hz)	
(lb)	Depth	Width	OSF	Height 16	Front	-Back	Side	-Side	Ver	tical
16	5.0	12.0		12.0	4	.7	5	.8	12	2.3
		UUT Highe	est Passea	Seismic Run	Informa	tion				
Buildi	ng Code	Test Cri	teria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g
CPC	2022	ICC-ESA		2.5	1.0	1.5	4.00	3.00	1.67	0.67
CBC	. 2022	ICC-ESA	C120 0	2.5	0.0	1.5	4.00	5.00	1.07	0.07

Test Mounting Details:





Mini-bank is attached to the Air Handling Unit using vertical 1-5/8" 12 gauge strut-rails on both ends of the tubes and one along the top: Secured to the AHU using 3 sets of ¼" dia self-tapping screws through ¼" thick angles per leg; Strut-rail secured to the Mini-Bank unit using 3/8" dia. through bolts at base and one side.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.



UUT 17

1800819-CR-001-R6

Manufacturer: DriSteem Corporation

Model Line: VLC, STS, VM, XTP, GTS LX, Mini-Bank, Ultra-Sorb, RX

Model Number: 24" x 48" Mini-Bank (AHU Mounted)

Product Construction Summary:

Constructed of square stainless steel tubes with nozzles punched along their length. The tubes are spaced at 3" and installed horizontal to the ground and perpendicular to the AHU air flow using a stainless steel plate at one end and stainless steel piping at the other end. The number of tubes depends upon the desired height.

Serial Number:

N/A

Options/Subcomponent Summary:

Deflector plate, multi-baffle plate, internal drying tube, steam valve, and thermal-resin tubelet.



			UUT P	Properties		7				
Weight		Dimension	ו (in)			Lowes	st Natural	Frequen	cy (Hz)	
(lb)	Depth	Width	OSF	leight 16	Front	t-Back	Side	-Side	Ver	tical
36	5.0	48.0		24.0	4	.7	5	.8	12	2.3
		UUT Hi	ighest Passed	Seismic Run	Informa	tion				
Buildi	ling Code	Test	Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g
CB(BC 2022	ICC-E	SAC156 09	/02/202	2 1.0	1.5	4.00	3.00	1.67	0.67
	•	Test	Criteria	S _{DS} (g)	z/h	Ι _Ρ				(g) A _{FLX-V} (g)

Test Mounting Details:



Mini-bank is attached to the Air Handling Unit using vertical 1-5/8" 12 gauge strut-rails on both ends of the tubes and one along the top: Secured to the AHU using 3 sets of ¼" dia self-tapping screws through ¼" thick angles per leg; Strut-rail secured to the Mini-Bank unit using 3/8" dia. through bolts at base and one side.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.



UUT 18

1800819-CR-001-R6



Manufacturer:	DriSteem	n Corporation								^
Model Line:	VLC, STS	, VM, XTP, GTS LX, M	ini-Bank, Ul	tra-Sorb, R	х			U	UT 1	.9
Model Number:	12" x 12"	Ultra-Sorb LV (AHU	Mounted)		Serial N	umber:	N/A			
Product Construc	tion Summary	:								
		nless steel header, s					h nozzles p	ounched	along the	ir
ength. The tubes	are oriented ve	ertical to the ground	and perper	ndicular to	the AHU	air flow.				
Options/Subcomp		=								
There are no othe	r internal comp	oonents.								
		E	OR CC	DEC						
		CO F			Ms					
		, St.								
Weight		Dimension (in		operties		Towar	t Natural	Fraguan	c) (-)	
(lb)	Depth	Width		right 16	Eront	-Back	1	Side		tical
23	5.0	12.0		2.0	100	.7		.8		2.3
	010	UUT Highes								
Buildin	g Code	Test Crit		S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (§
	-			2.5	1.0	1.5				
CBC	2022	C ICC-ES AC	156 09/	2.5	² 0.0	1.5	4.00	3.00	1.67	0.67
Test Mounting De	tails:			ANN AND AND AND AND AND AND AND AND AND	AAAA	0	÷			
		-6			100 2					
	N	PALY.			- O			a (1111	
2		AL	D	TAL	0	121		• t	1111	
			BUIL	DING	-	65		•		
			-			ALC: N		•		
					1.47					
	TI		And the set					9 -		
-			1				1 States			
100										
- W						get a				
					1.201			3.11		
					and the second se	A DESCRIPTION OF THE OWNER OWNER OF THE OWNER OWNER OF THE OWNER				

Mounted on parallel 1-5/8" 12 gauge strut-rails, which run from the AHU floor to ceiling, using four (4) 3/8" dia. through bolts; One at each corner. Strut-rails secured to AHU using ¼" dia. self taping screws through ¼" thick angle plate. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

1800819-CR-001-R6



Manufacturer:	DriSteem	Corporation								
Model Line:		•	X, Mini-Bank, Ul	tra-Sorb, R	х			U		20
Model Number:		Ultra-Sorb LH (Serial Nu	ımber:	N/A			
Product Constru	ction Summary:									
	light gauge stair is are oriented ho							ounched	along the	ir
	nponent Summa ler internal comp	-	FORCO	DECO	OMp;					
		E. E.	UUT Pro	operties						
Weight		Dimension	n (in)			Lowes	st Natural	Frequen	cy (Hz)	
(lb)	Depth	Width	OSHe	ight 16	Front	-Back	Side	-Side	Ver	tical
23	5.0	12.0		2.0	4		5	.8	12	2.3
			ighe <mark>s</mark> t Passed Se	ismic Run	Informa	tion 💦		-	1	
Buildi	ng Code	Test	Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (
СВО	2022		SAC156 09/	2.5 2/202 2.5	$2\frac{1.0}{0.0}$	1.5 1.5	4.00	3.00	1.67	0.67
Test Mounting D	etails:			JANA	ABBY	2				
		S. C. P.		DING	CODY			HILLING CONTRACTORS		

Mounted on parallel 1-5/8" 12 gauge strut-rails, which run from the AHU floor to ceiling, using four (4) 3/8" dia. through bolts; One at each corner. Strut-rails secured to AHU using ¼" dia. self taping screws through ¼" thick angle plate. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

1800819-CR-001-R6



Manufacturer:	DriSteem	Corpor	ation								
Model Line:	VLC, STS,	VM, XT	P, GTS LX, Mir	ni-Bank, U	ltra-Sorb, R	X			U U	UT 2	'L
Model Number:	12" x 12"	Ultra-S	orb XV (AHU N	Nounted)		Serial Nı	umber:	N/A			
Product Construc	-										
Constructed of a l								h nozzles p	ounched	along the	ir
ength. The tubes	are oriented ve	ertical to	o the ground a	and perpe	ndicular to	the AHU	air flow.				
Options/Subcomp	onent Summa	rv:									
There are no othe		-									
			- (RCC	DEC						
			CO FL			Ms					
			ALL		roperties						
Weight		Di	mension (in)		operties		Lowes	st Natural	Frequen	cy (Hz)	
(lb)	Depth	14	Width		eight 16	Front	-Back	1	-Side		tical
23	7.2		12.0		12.0	4	.7	5	.8	12	2.3
			UUT Highes	<u>vioi ioi i</u>	eismic Run	Informa	tion		1	1	
Buildin	g Code		Test Crite	eria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (§
CBC	2022		ICC-ES AC	156 09	$\frac{2.5}{02/202}$	2 1.0	1.5	4.00	3.00	1.67	0.67
Test Mounting De	taila	Y			2.5	0.0	1.5				
										1.	
		- 31	Pop-1								
E H			AIVIA	D.		CO I	•				
				BUIL	DING					-10 0	
							0				
								11.4			
	1				1)						
1.1					6 I						
and the second se					-						
- 16											
								" U			

Mounted on parallel 1-5/8" 12 gauge strut-rails, which run from the AHU floor to ceiling, using four (4) 3/8" dia. through bolts; One at each corner. Strut-rails secured to AHU using ¼" dia. self taping screws through ¼" thick angle plate. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

1800819-CR-001-R6

UUT 22

COMPLIANCE

Manufacturer: **DriSteem Corporation**

Model Line: VLC, STS, VM, XTP, GTS LX, Mini-Bank, Ultra-Sorb, RX Model Number: 120" x 120" Ultra-Sorb LV (AHU Mounted)

1250998-01-01 Serial Number:

Product Construction Summary:

Constructed of a light gauge stainless steel header, sill and 1.5" dia. stainless steel tubes with nozzles punched along their length. The tubes are oriented vertical to the ground and perpendicular to the AHU air flow.

Options/Subcomponent Summary:

There are no other internal components.

			EDF	ORCO	DEC	Mp					
			S.	UUT Pro	X X X X X X X X X X X X X X X X X X X		-				
Weight		Dir	nension (in) In Mark Marak	7/WXXX77XXX		Lowes	t Natural	Frequen	cy (Hz)	
(lb)	Depth	4	Width	OSHei	ght 16	Front	-Back	Side	-Side	Ver	tical
347	5.0		120.0	12	0.0	8	.2	9	.4	12	2.7
			UUT Highe	st Passed Se	ismic Run	Informa	tio <mark>n</mark>				
Buildir	ng Code		Test Cri	teria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V}
CBC	2022	C	IC <mark>C-ES A</mark>	C156 09/(2.0	2 ^{1.0} 0.0	1.5	3.20	2.40	1.67	0.67

Test Mounting Details:





AHU was mounted onto the seismic table using (6) L 6"X 4" X 3/8" X 12" angle brackets (3 on each side - 6 total). Brackets were mounted to the AHU using (2) 1/2" - 13 grade bolts, washers, lock washers and nuts per each bracket. The brackets are welded to the seismic table using (4) 1/4" X 3" fillet welds. the unit was mounted to the AHU using Strut-rails (1-5/8" 12 gauge) placed vertically along each side and center of unit and secured with 3/8" dia. bolts and nyloc nuts spaced at 6" on center. Strut-rails secured to the AHU at roof and floor level using 3 sets of 1/4" dia. self taping screws through 1/4" thick angle plate. Bracing from unit wall was 1'-0" upstream of unit in test.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

1800819-CR-001-R6



Manufacturer:		Corporation						2
Model Line:		VM, XTP, GTS LX, Mini-						
Model Number:		0" Ultra-Sorb LH (AHU	Mounted)	Serial Num	ber: N/A			
Product Construc	-							
		nless steel header, sill a				punched	along the	Ir
ength. The tubes	are oriented no	prizontal to the ground	and perpendicular	to the AHU	air flow.			
Options/Subcom	onent Summa							
There are no othe		-						
	F							
			RCODEC					
		ID FU		Ms,				
		NED -						
		<u> </u>	UUT Properties					
Weight		Dimension (in)			Lowest Natura		1	
(lb)	Depth	Width	OS Height 16	Front-B	<u></u>	e-Side		tical
347	5.0	120.0	120.0 Passed Seismic Run	4.7		5.8	12	2.3
Buildin	g Code	Test Criter	<u></u>	z/h) A _{RIG-H} (g)	Δ(σ)	Δ
	-		2 5	1.0	15			
CBC	2022	ICC-ESAC15	56 09/0 2/202 2.5	$2_{0.0}$	4.00	3.00	1.67	0.67
Test Mounting De	tails:			ALLER A	0		-	
88				GA			100	*
				OY		Y		-
				0	17.			-
			VILDING					
				1000			1.1	
			100	-	N		E.	-
10 C								
					· · · · · · · · · · · · · · · · · · ·			
			79					

Strut-rails (1-5/8" 12 gauge) placed vertically along each side and center of unit and secured with 3/8" dia. bolts spaced at 6" on center. Strut-rails secured to the AHU at roof and floor level using 3 sets of ¼" dia. self taping screws through ¼" thick angle plate. Bracing from unit wall was 1'-0" upstream of unit in test.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

DriSteem Corporation

1800819-CR-001-R6

Serial Number:

UUT 24 1250998-02-01

116" x 110" Ultra-Sorb XV (AHU Mounted) Product Construction Summary:

Manufacturer:

Model Number:

Model Line:

Constructed of a light gauge stainless steel header, sill and 1.5" dia. stainless steel tubes with nozzles punched along their length. The tubes are oriented vertical to the ground and perpendicular to the AHU air flow.

VLC, STS, VM, XTP, GTS LX, Mini-Bank, Ultra-Sorb, RX

Options/Subcomponent Summary:

Exterior insulated tubes.

			FDF	ORCO	DECO	Mp					
			ST.		operties		T				
Weight		Dir	nension (in	Nar West Wassesh	www.xXxXXX		Lowes	st Natural	Frequen	cy (Hz)	
(lb)	Depth	4	Width	OSHe	ight 16	Front	-Back	Side	-Side	Ver	tical
352	7.2		110.0	11	.6.0	9	.0	8	.7	14	1.4
			UUT Highe	st Passed Se	eismic Run	Informa	tio <mark>n</mark>				
Buildir	ng Code		Test Crit	teria	S _{DS} (g)	z/h	Ι _Ρ	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V}
CBC	2022	C	ICC-ES A	C156 09/	2.0	$2^{1.0}_{0.0}$	1.5	3.20	2.40	1.67	0.67

Test Mounting Details:



AHU was mounted onto the seismic table using (6) L 6"X 4" X 3/8" X 12" angle brackets (3 on each side - 6 total). Brackets were mounted to the AHU using (2) 1/2" - 13 grade bolts, washers, lock washers and nuts per each bracket. The brackets are welded to the seismic table using (4) 1/4" X 3" fillet welds. the unit was mounted to the AHU using Strut-rails (1-5/8" 12 gauge) placed vertically along each side and center of unit and secured with 3/8" dia. bolts and nyloc nuts spaced at 6" on center. Strut-rails secured to the AHU at roof and floor level using 3 sets of 1/4" dia. self taping screws through 1/4" thick angle plate. Bracing from unit wall was 1'-0" upstream of unit in test.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.



1800819-CR-001-R6

Manufacturer: **DriSteem Corporation**

Model Line: VLC, STS, VM, XTP, GTS LX, Mini-Bank, Ultra-Sorb, RX Model Number:

12" x 12" Ultra-Sorb LV (Duct Mounted)

Serial Number: N/A

Product Construction Summary:

Constructed of a light gauge stainless steel header, sill and 1.5" dia. stainless steel tubes with nozzles punched along their length. The tubes are oriented vertical to the ground and perpendicular to the duct air flow.

Options/Subcomponent Summary:

There are no other internal components.



Ultra-Sorb LV is attached to the duct along both vertical sides using an angle bracket with ½" dia. bolts: two (2) to the duct and three (3) to the Ultra-Sorb. The entire duct assembly is attached to ceiling fixture using Mason SCB/H Seismic Cable Bracing Assembly.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.



UUT 25

1800819-CR-001-R6

UUT 26

Manufacturer: **DriSteem Corporation**

Model Line: VLC, STS, VM, XTP, GTS LX, Mini-Bank, Ultra-Sorb, RX Model Number:

12" x 12" Ultra-Sorb LH (Duct Mounted)

Serial Number: N/A

Product Construction Summary:

Constructed of a light gauge stainless steel header, sill and 1.5" dia. stainless steel tubes with nozzles punched along their length. The tubes are oriented horizontal to the ground and perpendicular to the duct air flow.

Options/Subcomponent Summary:

There are no other internal components.



Ultra-Sorb LH is attached to the duct along both top and bottom sides using an angle bracket with ½" dia. bolts: two (2) to the duct and three (3) to the Ultra-Sorb. The entire duct assembly is attached to ceiling fixture using Mason SCB/H Seismic Cable Bracing Assembly.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

1800819-CR-001-R6

UUT 27

Manufacturer: DriSteem Corporation

Model Line:VLC, STS, VM, XTP, GTS LX, Mini-Bank, Ultra-Sorb, RXModel Number:12" x 12" Ultra-Sorb XV (Duct Mounted)S

Serial Number: N/A

Product Construction Summary:

Constructed of a light gauge stainless steel header, sill and 1.5" dia. stainless steel tubes with nozzles punched along their length. The tubes are oriented vertical to the ground and perpendicular to the duct air flow.

Options/Subcomponent Summary:

Exterior insulated tubes.



Ultra-Sorb XV is attached to duct along each vertical side using an angle bracket with ½" dia. bolts: two (2) to the duct and three (3) to the Ultra-Sorb. All bolts use washers on both ends, and nylon locknuts. The entire duct assembly is attached to ceiling fixture using Mason SCB/H Seismic Cable Bracing Assembly (attached).

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

1800819-CR-001-R6

Manufacturer: DriSteem Corporation

Model Line:VLC, STS, VM, XTP, GTS LX, Mini-Bank, Ultra-Sorb, RXModel Number:80" x 80" Ultra-Sorb LV (Duct Mounted)So

Serial Number: 1252334-03-01

1232334-03-01

Product Construction Summary:

Constructed of a light gauge stainless steel header, sill and 1.5" dia. stainless steel tubes with nozzles punched along their length. The tubes are oriented vertical to the ground and perpendicular to the duct air flow.

Options/Subcomponent Summary:

Horizontal dispersion tubes, Insulated piping, deflector plate, multi-baffle plate, internal drying tube, steam valve, and thermalresin tubelet.

			UUT Prop							
Weight		Dimension (in)				Lowes	t Natural	Frequen	cy (Hz)	
(lb)	Depth	Width	Heig	ght	Front	-Back	Side	-Side	Ver	tical
210	5.0	80.0	80.	.0	N	/A	N	/A	N	/A
		UUT Highest P	Passed Sei	smic Run	Informa	tion			-	-
Build	ling Code	Test Criteria	aSP-0	S _{DS} (g)	z/h	J.	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g
CB	C 2022	ICC-ES AC150	6	2.0	1.0	1.5	3.20	2.40	1.67	0.67
CD	C 2022	BY	ohamm	a2.5(a	0.0	1.5	5.20	2.40	1.07	0.07
(())			(2) 3/4" SAE GRA & (2) 3/4" SAE GF	ADE 5 STEEL WAS RADE 5 STEEL NU	SHER JT	An an			38	

6" O.C. The entire duct assembly is supported using 1/8" SS angle hangers secured with 1/4" thru bolts spaced at 6" and 3/4" dia. thread rod through both up to ceiling support fixture. Each corner is laterally supported with two (2) 3/8" dia. aircraft cables. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

TRU COMPLIANCE

UUT 28

1800819-CR-001-R6

Manufacturer: DriSteem Corporation

Model Line:VLC, STS, VM, XTP, GTS LX, Mini-Bank, Ultra-Sorb, RXModel Number:80" x 80" Ultra-Sorb LH (Duct Mounted)So

Serial Number: 1252

1252334-04-01

Product Construction Summary:

Constructed of a light gauge stainless steel header, sill and 1.5" dia. stainless steel tubes with nozzles punched along their length. The tubes are oriented horizontal to the ground and perpendicular to the duct air flow.

Options/Subcomponent Summary:

Horizontal dispersion tubes, Insulated piping, deflector plate, multi-baffle plate, internal drying tube, steam valve, and thermalresin tubelet.

Weight			001 Pro	perties						
weight		Dimension (in)		WXXXX		Lowes	st Natural	Frequen	cy (Hz)	
(lb)	Depth	Width	Hei	ght	Front	-Back	Side	Side	Ver	tical
210	5.0	80.0	80	0.0	N,	1A	Ν	/A	N	/A
		UUT Highest	Passed Se	ismic Run	Informa	tion				
Build	ding Code	Test Criter	iaSP-	S _{DS} (g)	z/h	I.	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CI	3C 2022	ICC-ES AC15	56 Iohamn	2.0	1.0	1.5 1.5	3.20	2.40	1.67	0.67
ST	1-1/4" SAE GRADE 5 0	TEEL STRUCTURE	UUC-SEISMIC F	READED ROD	2 SHEFT				ALL BO ALL	

Duct Mounted using ¼" dia. thru bolts along top and bottom spaced at 6" O.C. and ¼-20 self taping screws along sides spaced at 6" O.C. The entire duct assembly is supported using 1/8" SS angle hangers secured with ¼" thru bolts spaced at 6" and 3/4" dia. thread rod through both up to ceiling support fixture. Each corner is laterally supported with two (2) 3/8" dia. aircraft cables. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

TRU COMPLIANCE

UUT 29

1800819-CR-001-R6

UUT 30

Manufacturer: **DriSteem Corporation**

Model Line: VLC, STS, VM, XTP, GTS LX, Mini-Bank, Ultra-Sorb, RX Model Number: 80" x 80" Ultra-Sorb XV (Duct Mounted)

Serial Number: 1252334-05-01

Product Construction Summary:

Constructed of a light gauge stainless steel header, sill and 1.5" dia. stainless steel tubes with nozzles punched along their length. The tubes are oriented horizontal to the ground and perpendicular to the duct air flow.

Options/Subcomponent Summary:

Exterior insulated tubes.

			UUT Properties						
Weight	Dimension (in)			Lowest Natural Frequency (Hz)					
(lb)	Depth	Width	Height	Front-Back		Side-Side		Vertical	
220	7.2	80.0	80.0 N/A		/A	N/A		N/A	
		UUT Highest	Passed Seismic Run	Informa	tion				
Building Code		Test Criter	ia SP-OS _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2022			2.0	1.0	1.5	3.20	2.40	1.67	0.67
		ICC-ES AC1	00			3.20			

2.5

0.0

1.5

Test Mounting Details:



Duct Mounted using ¼" dia. thru bolts along top and bottom spaced at 6" O.C. and ¼-20 self taping screws along sides spaced at 6" O.C. The entire duct assembly is supported using 1/8" SS angle hangers secured with 1/4" thru bolts spaced at 6" and 3/4" dia. thread rod through both up to ceiling support fixture. Each corner is laterally supported with two (2) 3/8" dia. aircraft cables. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.
1800819-CR-001-R6

Manufacturer: **DriSteem Corporation**

Model Line: VLC, STS, VM, XTP, GTS LX, Mini-Bank, Ultra-Sorb, RX Model Number: 12" x 12" Ultra-Sorb MP (AHU Mounted)

Serial Number:

1250998-04-01

Product Construction Summary:

Constructed of a light gauge stainless steel header, sill and 1.5" dia. stainless steel tubes with nozzles punched along their length. The tubes are oriented vertical to the ground and perpendicular to the AHU air flow.

Options/Subcomponent Summary:

There are no other internal components.

			UUT Properties							
Weight		Dimension (in)	Lowest Natural Frequency (Hz)							
(lb) ¹	Depth	Width	Height	Fron	Front-Back		-Side	Vertical		
30	7.2	12.0	12.0	9	9.0		.7	14	1.4	
		UUT Highest	Passed Seismic Ru	n Informa	ation					
Buildi	ng Code	Test Criter	$aSP-OS_{DS}(g)$	z/h	L _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CDC	2022	ICC-ES AC15	2.0	1.0	1.5	3.20	2.40	1.67	0.67	
CBC	, 2022		abamma 2.5	0.0	1.5	3.20	2.40	1.67	0.67	

Test Mounting Details:



AHU was mounted onto the seismic table using (6) L 6"X 4" X 3/8" X 12" angle brackets (3 on each side - 6 total). Brackets were mounted to the AHU using (2) 1/2" - 13 grade bolts, washers, lock washers and nuts per each bracket. The brackets are welded to the seismic table using (4) 1/4" X 3" fillet welds. The unit was mounted to the AHU using Strut-rails (1-5/8" 12 gauge) placed vertically along each side and center of unit and secured with 3/8" dia. bolts and nyloc nuts spaced at 6" on center. Strut-rails secured to the AHU at roof and floor level using 3 sets of ¼" dia. self taping screws through ¼" thick angle plate. Bracing from unit wall was 1'-0" upstream of unit in test.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

¹Laboratory reported dry weight of 20 lb w/o water. Contents were included in testing per operating conditions.

TRU Compliance, by Structural Integrity Associates, Inc. 844-TRU-0200 | info@trucompliance.com



1800819-CR-001-R6

Manufacturer: **DriSteem Corporation**

Model Line:

VLC, STS, VM, XTP, GTS LX, Mini-Bank, Ultra-Sorb, RX

Model Number: 110" X 116" Ultra-Sorb MP (AHU Mounted)

Serial Number:

1250998-03-01

Product Construction Summary:

Constructed of a light gauge stainless steel header, sill and 1.5" dia. stainless steel tubes with nozzles punched along their length. The tubes are oriented vertical to the ground and perpendicular to the AHU air flow.

Options/Subcomponent Summary:

There are no other internal components.

			UUT Pro	operties							
Weight		Dimension (in)			Lowest Natural Frequency (Hz)						
(lb)	Depth	Width	Hei	ight	Front	-Back	Side-Side		Ver	tical	
308	7.2	110.0	11	6.0	8.2		9.		12	2.7	
		UUT Highest	Passed Se	ismic Run	Informa	tion					
Buildi	ng Code	Test Criter	iaSP-	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CPC	. 2022				1.0	1.5	3.20	2.40	1.67	0.67	
CDC	CBC 2022	CBC 2022 ICC-ES AC156	na@.5(a	rin0.0	1.5	3.20	2.40	1.07	0.67		

Test Mounting Details:



AHU was mounted onto the seismic table using (6) L 6"X 4" X 3/8" X 12" angle brackets (3 on each side - 6 total). Brackets were mounted to the AHU using (2) 1/2" - 13 grade bolts, washers, lock washers and nuts per each bracket. The brackets are welded to the seismic table using (4) 1/4" X 3" fillet welds. the unit was mounted to the AHU using Strut-rails (1-5/8" 12 gauge) placed vertically along each side and center of unit and secured with 3/8" dia. bolts and nyloc nuts spaced at 6" on center. Strut-rails secured to the AHU at roof and floor level using 3 sets of ¼" dia. self taping screws through ¼" thick angle plate. Bracing from unit wall was 1'-0" upstream of unit in test.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.



1800819-CR-001-R6

Manufacturer: **DriSteem Corporation**

Model Line: VLC, STS, VM, XTP, GTS LX, Mini-Bank, Ultra-Sorb, RX Model Number:

12" x 12" Ultra-Sorb MP (Duct Mounted)

Serial Number: 1251143-01-01

Product Construction Summary:

Constructed of a light gauge stainless steel header, sill and 1.5" dia. stainless steel tubes with nozzles punched along their length. The tubes are oriented horizontal to the ground and perpendicular to the duct air flow.

Options/Subcomponent Summary:

There are no other internal components.



Ultra-Sorb LV is attached to the duct along both vertical sides using an angle bracket with ½" dia. bolts: two (2) to the duct and three (3) to the Ultra-Sorb. The entire duct assembly is attached to ceiling fixture using Mason SCB/H Seismic Cable Bracing Assembly.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.



1800819-CR-001-R6

Product Construction Summary:

Manufacturer: DriSteem Corporation

Model Line:VLC, STS, VM, XTP, GTS LX, Mini-Bank, Ultra-Sorb, RXModel Number:80" x 80" Ultra-Sorb MP (Duct Mounted)S

Serial Number: 1251143-01-02

Constructed of a light gauge stainless steel header, sill and 1.5" dia. stainless steel tubes with nozzles punched along their length. The tubes are oriented horizontal to the ground and perpendicular to the duct air flow.

Options/Subcomponent Summary:

Horizontal dispersion tubes, Insulated piping, deflector plate, multi-baffle plate, internal drying tube, steam valve, and thermalresin tubelet.

UUT Properties Dimension (in) Weight Lowest Natural Frequency (Hz) (lb) Vertical Depth Width Height **Front-Back** Side-Side 205 7.2 80.0 80.0 N/A N/A N/A UUT Highest Passed Seismic Run Information **Building Code** Test Criteria S_{DS}(g) z/h lp' $A_{FLX-H}(g) | A_{RIG-H}(g) | A_{FLX-V}(g) | A_{RIG-V}(g)$ 2.0 1.0 1.5 CBC 2022 3.20 2.40 1.67 0.67 **ICC-ES AC156** 2.5 0.0 1.5 Test Mounting Details: STEEL STRUCTURE SAE GRADE 5 STEEL WASHE 3/4" THREADED ROD 1) 1-1/4" SAE GRADE 5 STEEL BOLT /8" DIAMETER GALVANIZED STEEL NRCRAFT CABLE, 7X19 STRAND CORE TOP VIEW ROD STIFFENING UNISTRUT SBC-4 W/ 1-1/4 SAE GRADE 5 STEEL BOL 4" MAX -HUMIDIFIER AND DUCT 3 (1260 LBS MAX.) (12) 1/2" SAE GRADE 5 BOLTS W/ WASHERS TOP AND BOTTOM (24) TOTAL BRACE ATTACHMENT SBC-4 W/ 1-1/4" SAE GRADE 5 STEEL BOL Duct Mounted using ¼" dia. thru bolts along top and bottom spaced at 6" O.C. and ¼-20 self taping screws along sides spaced at

Duct Mounted using ¹/₄" dia. thru bolts along top and bottom spaced at 6" O.C. and ¹/₄-20 self taping screws along sides spaced at 6" O.C. The entire duct assembly is supported using 1/8" SS angle hangers secured with ¹/₄" thru bolts spaced at 6" and 3/4" dia. thread rod through both up to ceiling support fixture. Each corner is laterally supported with two (2) 3/8" dia. aircraft cables. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.



1800819-CR-001-R6

UUT 35

COMPLIANCE

Manufacturer: DriSteem Corporation

Model Line:VLC, STS, VM, XTP, GTS LX, Mini-Bank, Ultra-Sorb, RXModel Number:STS-800 SNCSerie

Serial Number: 1256563-02-01

Product Construction Summary:

Constructed of light gauge stainless steel mounted on "H" style carbon steel tubes with carbon steel plate seismic cross bracing (DriSteem Part #190735-009).

Options/Subcomponent Summary:

Teflon Stainless Steel heat exchanger. Attached 12x12x6 NEMA-12 control cabinet: Tyco: Transformer 120/208/240/480x24 copper winding; Marathon: Terminal 20A; Siemens: Contactor 35A; Ferraz Shawmut 35-60A 480V fuse; ABB: 480V 4A breaker; Control Products: Vapor-logic keypad and board. Drain valve, Fill Valve, Float Switch, Temp Sensor. with Vapor-logic interface controller attached to exterior of door panel.

		4	υυτ	Properties		5						
Weight		Dimension (in)				Lowest Natural Frequency (Hz)						
(lb)	Depth	Width	OSh	OS Height 16		Front-Back		-Side	Vertical			
1,250	1,250 55.2 30		30.3 29.8		> 33.3		29	9.0	> 3	3.3		
		UUT Hig	he <mark>s</mark> t Passed	Seismic Run	Informa	ition						
Buildi	ng Code	Test C	riteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)		
СВС	2022		AC156	9/0 2/202 2.5	2 1.0 2 0.0	1.5	3.20	2.40	1.67	0.67		

Test Mounting Details:





Unit attached to seismic support legs which are secured to the table platen using a total of eight (8) 3/8" dia. Grade 5 bolts; two at each leg.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

1800819-CR-001-R6

Manufacturer: **DriSteem Corporation**

Model Line: VLC, STS, VM, XTP, GTS LX, Mini-Bank, Ultra-Sorb, RX Model Number:

120"x120" Ultra Sorb LV (AHU Mounted)

Serial Number: N/A

Product Construction Summary:

Constructed of a light gauge stainless steel header, sill and 1.5" dia. stainless steel tubes with nozzles punched along their length. The tubes are oriented vertical to the ground and perpendicular to the AHU air flow.

Options/Subcomponent Summary:

There are no other internal components.

			UUT Pro	operties								
Weight		Dimension (in)				Lowest Natural Frequency (Hz)						
(lb)	Depth	Width	Hei	ight	Front-Back Sid		Side	-Side	Ver	tical		
347	347 5.0 120.0		.0 120.0			42	7.71		L 22.0			
		UUT Highest I	Passed Se	ismic Run	Informa	tion						
Buildi	ng Code	Test Criteria SP-		S _{DS} (g)	z/h	Ip-	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)		
CRC	. 2022		6	2.0	1.0	1.5	3.20	2.40	1.67	0.67		
CBC	CBC 2022	ICC-ES AC156		na 2.5 (a	rin0.0	1.5	5.20	2.40	1.07	0.67		

Test Mounting Details:



AHU was mounted onto the seismic table's interface frame using six (6) 5/8" SAE Grade 8 bolts. The base frame was mounted to the table using thirty-six (36) 1-1/4" SAE Grade 8 bolts.

Mounting details for the Ultra Sorb LV within the AHU are detailed on the next page.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.



1800819-CR-001-R6





1800819-CR-001-R6

Manufacturer: **DriSteem Corporation**

Model Line: VLC, STS, VM, XTP, GTS LX, Mini-Bank, Ultra-Sorb, RX Model Number:

40"x40" Ultra Sorb LV (AHU Mounted) Serial Number:

Product Construction Summary:

Constructed of a light gauge stainless steel header, sill and 1.5" dia. stainless steel tubes with nozzles punched along their length. The tubes are oriented vertical to the ground and perpendicular to the AHU air flow.

Options/Subcomponent Summary:

There are no other internal components.

		.05	UUT Properties							
Weight		Dimension (in)	Lowest Natural Frequency (Hz)							
(lb)	Depth	Width	Height	Front-Back		Side-Side		Vertical		
122	5.0	40.0	40.0	11.0		6	.4	28	3.7	
		UUT Highest P	assed Seismic Ru	n Informa	ition					
Buildi	ng Code	Test Criteria	$aSP-OS_{DS}(g)$	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CDC	. 2022		2.0	1.0	1.5	2.20	2.40	1.67	0.67	
CBC	2022	ICC-ES AC156	$\frac{1}{2}$		1.5	3.20	2.40	1.67	0.67	

Test Mounting Details:



AHU was mounted to the shake tables interface frame using six (6) 5/8" SAE Grade 8 bolts. The base frame was mounted to the table using thirty-six (36) 1-1/4" SAE Grade 8 bolts.

Mounting details for the Ultra Sorb LV within the AHU are detailed on the next page.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.



UUT 37

N/A

1800819-CR-001-R6



Manufacturer:	DriSteem Corporation			
Model Line:	VLC, STS, VM, XTP, GTS LX, Mini-Bank, Ultra-So	orb, RX		UUT 37
Model Number:	40"x40" Ultra Sorb LV (AHU Mounted)	Serial Number:	N/A	

Seismic Upgrades Implemented:

UUT37 was mounted within the AHU and seismic upgrades consisted of mounting a 1-5/8" stainless steel 12 ga. Unistrut (P1000) cut to the width of the unit and mounted to the wall and vertical Unistrut support of the humidifier. The wall and Unistrut interface connection consisted of a 3/8" stainless steel bolt and 1/4" stainless steel Unistrut L-bracket (P1026), while the Unistrut to Unistrut connection consisted of a 3/8" stainless steel bolt, strut nut, and 1/4" Unistrut L-bracket (P1026). UUT37 was mounted to the Unistrut with 3/8" bolts, nyloc nuts and washers at 24" intervals and screwed to the wall with #12 self-drilling screws.



1800819-CR-001-R6

Manufacturer: **DriSteem Corporation**

Model Line: VLC, STS, VM, XTP, GTS LX, Mini-Bank, Ultra-Sorb, RX Model Number:

107"x102" Ultra Sorb LV (AHU Mounted)

Serial Number: N/A

Product Construction Summary:

Constructed of a light gauge stainless steel header, sill and 1.5" dia. stainless steel tubes with nozzles punched along their length. The tubes are oriented vertical to the ground and perpendicular to the AHU air flow.

Options/Subcomponent Summary:

There are no other internal components.

			UUT Pro	perties								
Weight		Dimension (in)			Lowest Natural Frequency (Hz)							
(lb)	Depth	n Width		ght	Front-Back		Side-Side		Vertical			
279	5.0	107.0	10	2.0	10,1		10).0	25	5.1		
		UUT Highest	Passed Se	ismic Run	Informa	tion						
Buildi	ng Code	Test Criter	iaSP-	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)		
CBC	2022	ICC-ES AC15			1.0	1.5	3.20	2.40	1.67	0.67		
CDC	. 2022	RCC-ESACI:	ohamn	na 2.5 (a	rin0.0	1.5	3.20	2.40	1.07	0.07		

Test Mounting Details:



UUT38 was base mounted- rigid onto the seismic table interface frame using twelve (12) 3/4" SAE Grade 8 bolts. Mounting details for the Ultra Sorb LV within the AHU are detailed on the next page. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.



1800819-CR-001-R6



Manufacturer:	DriSteem Corporation			
Model Line:	VLC, STS, VM, XTP, GTS LX, Mini-Bank, Ultra-S	orb, RX		UUT 38
Model Number:	107"x102" Ultra Sorb LV (AHU Mounted)	Serial Number:	N/A	

Seismic Upgrades Implemented:

The seismic upgrade for UUT10 consisted of mounting a 16ga 2"x4" stainless steel channel that was cut to length to bear against the edge of the drain pan and the bottom of the humidifier header tube. The channel was mounted to the blank off using (2) #12-3/4" self tapping screws.



1800819-CR-001-R6

Manufacturer: DriSteem Corporation

Model Line: VLC, STS, VM, XTP, GTS LX, Mini-Bank, Ultra-Sorb, RX

Model Number: 120"x120" Ultra Sorb LH (AHU Mounted)

Serial Number: N/A

Product Construction Summary:

Constructed of a light gauge stainless steel header, sill and 1.5" dia. stainless steel tubes with nozzles punched along their length. The tubes are oriented horizontal to the ground and perpendicular to the AHU air flow.

Options/Subcomponent Summary:

There are no other internal components.

			UUT Pro	perties									
Weight	Dimension (in)					Lowest Natural Frequency (Hz)							
(lb)	Depth	Width	Hei	ght	It Front-Back		Side-Side		Ver	tical			
347	347 5.0		12	0.0	15.4		29.3		21.7				
		UUT Highest I	Passed Se	ismic Run	Informa	tion							
Buildi	ng Code	Test Criter	aSP-	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)			
CRC	. 2022				1.0	1.5	2.20	2.40	1.67	0.67			
CDC	CBC 2022	ICC-ES AC156		na 2.5 (a	rin0.0	1.5	3.20	2.40	1.07	0.67			

Test Mounting Details:



UUT39 was mounted to an I-beam test frame using twenty-four (24) 3/4" SAE grade 8 bolts with flat washers (spaced at 24" OC max along the long directions).

Strut-rails (1-5/8" 12 gauge) placed vertically along each side and center of unit and secured with 3/8" dia. bolts spaced at 6" on center. Strut-rails secured to the AHU at roof and floor level using 3 sets of ¼" dia. self taping screws through ¼" thick angle plate.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.



1800819-CR-001-R6

Manufacturer: DriSteem Corporation

Model Line:VLC, STS, VM, XTP, GTS LX, Mini-Bank, Ultra-Sorb, RXModel Number:12"x12" Ultra Sorb MP (AHU Mounted)SolutionSolution

Serial Number: N/A

Product Construction Summary:

Constructed of a light gauge stainless steel header, sill and 1.5" dia. stainless steel tubes with nozzles punched along their length. The tubes are oriented vertical to the ground and perpendicular to the AHU air flow.

Options/Subcomponent Summary:

There are no other internal components.

			UUT Pro	operties								
Weight		Dimension (in)				Lowest Natural Frequency (Hz)						
(lb)	Depth	Width	Не	ight	Front-Back		ont-Back Side-S		le-Side Vert			
30	30 7.2		12	2.0 15.4		15.4 29.3).3	21	7		
		UUT Highest	Passed Se	eismic Run	Informa	tion						
Buildi	ng Code	Test Criter	iaSP-	S _{DS} (g)	z/h	L _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)		
CRC	. 2022			2.0	1.0	1.5	3.20	2.40	1.67	0.67		
CDC	CBC 2022	ICC-ES AC156		na 2.5 (a	rin0.0	1.5	3.20	2.40	1.07	0.67		

Test Mounting Details:



UUT40 was mounted to an I-beam test frame using twenty-four (24) 3/4" SAE grade 8 bolts with flat washers (spaced at 24" OC max along the long directions).

Strut-rails (1-5/8" 12 gauge) placed vertically along each side and center of unit and secured with 3/8" dia. bolts spaced at 6" on center. Strut-rails secured to the AHU at roof and floor level using 3 sets of ¼" dia. self taping screws through ¼" thick angle plate.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

OSP-0216



1800819-CR-001-R6

Model Line:

Manufacturer: DriSteem Corporation

VLC, STS, VM, XTP, GTS LX, Mini-Bank, Ultra-Sorb, RX

Model Number: 110"x116" Ultra Sorb MP (AHU Mounted)

Product Construction Summary:

Constructed of a light gauge stainless steel header, sill and 1.5" dia. stainless steel tubes with nozzles punched along their length. The tubes are oriented vertical to the ground and perpendicular to the AHU air flow.

Serial Number:

N/A

Options/Subcomponent Summary:

There are no other internal components.

			UUT Pro	operties								
Weight	Dimension (in)				Lowest Natural Frequency (Hz)							
(lb)	Depth	Width Height		ght	Front-Back		Side-Side		Vertical			
308	7.2	110.0 116.0		6.0	15.4		29.3		21.7			
		UUT Highest I	Passed Se	ismic Run	Informa	tion						
Buildi	ng Code	Test Criter	iaSP-	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)		
CPC	2022		C C C C C C C C C C C C C C C C C C C	2.0	1.0	1.5	3.20	2.40	1.67	0.67		
CDC	. 2022	ICC-ES AC156		na 2.5 (a	rin0.0	1.5	3.20	2.40	1.07	0.67		

Test Mounting Details:



The AHU was mounted to an I-beam test frame using twenty-four (24) 3/4" SAE grade 8 bolts with flat washers (spaced at 24" OC max along the long directions).

Strut-rails (1-5/8" 12 gauge) placed vertically along each side and center of unit and secured with 3/8" dia. bolts spaced at 6" on center. Strut-rails secured to the AHU at roof and floor level using 3 sets of ¼" dia. self taping screws through ¼" thick angle plate.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

OSP-0216



1800819-CR-001-R6

Manufacturer: DriSteem Corporation

Model Line: VLC, STS, VM, XTP, GTS LX, Mini-Bank, Ultra-Sorb, RX

Model Number: 110"x116" Ultra Sorb XV (AHU Mounted)

Serial Number: N/A

Product Construction Summary:

Constructed of a light gauge stainless steel header, sill and 1.5" dia. stainless steel tubes with nozzles punched along their length. The tubes are oriented vertical to the ground and perpendicular to the AHU air flow.

Options/Subcomponent Summary:

There are no other internal components.

		OF	JUT Properties							
Weight		Dimension (in)	Lowest Natural Frequency (Hz)							
(lb)	Depth	Width	Height	Front-Back		Side-Side		Vertical		
352	7.2	110.0	116.0	k	5.4	29	9.3	21	L.7	
		UUT Highest Pa	ssed Seismic Ru	n Informa	ition					
Buildi	ng Code	Test Criteria	SP-OS _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CDC	2 2022		2.0	1.0	1.5	2 20	2.40		0.67	
CBC	2022	ICC-ES AC156	25/		1.5	3.20	2.40	1.67	0.67	

Test Mounting Details:



The AHU was mounted to an I-beam test frame using twenty-four (24) 3/4" SAE grade 8 bolts with flat washers (spaced at 24" OC max along the long directions).

Strut-rails (1-5/8" 12 gauge) placed vertically along each side and center of unit and secured with 3/8" dia. bolts spaced at 6" on center. Strut-rails secured to the AHU at roof and floor level using 3 sets of ¼" dia. self taping screws through ¼" thick angle plate.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.



1800819-CR-001-R6

Manufacturer:	DriSteem Co	orporation								
Model Line:	VLC, STS, VM	1, XTP, GTS LX, Mini-	Bank, Ul	tra-Sorb, R	х			U	UT 4	3
Model Number:	Ultra-Sorb L	Н			Serial Nı	umber:	1281776-	06-01		
Product Construc	tion Summary:									
Constructed of a	ight gauge stainles	ss steel header, sill a	and 1.5" (dia. stainle	ss steel ti	ubes wit	h nozzles p	ounched	along the	ir
ength. The tubes	are oriented horiz	ontal to the ground	•							
Options/Subcom	ponent Summary:									
There are no othe	r internal compon	ents.								
Waisht		Dimension (in)	UUT Pr	operties			+ Notural	F wa eu a e	ev / / / = \	
Weight (lb)	Donth	Dimension (in)	RLU	DDE C	- Crient		st Natural Side-			tical
211.3	Depth 5.0	Width 80.0	RARAAAA	ight 0.0		-Back				
211.3	5.0	UUT Highest H				/A	N,	/A	IN	/A
Buildir	g Code	Test Criteri		S _{DS} (g)	z/h	Zł _P	A(g)	A	A _{FLX-V} (g)	Anaví
	-	41	OSP-	2.0	1.0	1.5	7 FLX-H \8/	**RIG-H \8/	· +LX-V \8/	
CBC	2022	ICC-ES AC15	6	2.5	0.0	1.5	3.20	2.40	1.67	0.67
Test Mounting De	tails:		chamr	nad Kai						
				C2/2O2	Crank C	(1260)	R AND DUCT 3 LITS MAX.)	ROD ST	"SAE GRADE 6 STE 44" SAE GRADE 5 STE 18ISMIC ROD CLAMP S4" THREADED ROC FFFENING UNISTRU 123 34" SAE GRADE FFFENING UNISTRU 123 34" SAE GRADE 500 - 100 -	S BOLTS ND BOTTOM
				4	SCB-4 V	W/ 1-1/4" SAE GRA	DE 5 STEEL BOLT	Rage	- Yr	1

Duct mounted using twenty (20) #10 self tapping screws at vertical mounting junctions, screws 6" O.C. Unit mounted to horizontal mounting junction using twenty-one (21) 1/4" ø thru bolts spaced at 6" O.C. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

1800819-CR-001-R6

	DriSteem (Corporation								Л
Model Line:	VLC, STS, V	/M, XTP, GTS LX, Mini	-Bank, Ul	tra-Sorb, R	X			U	UT 4	-4
Model Number:	Ultra-Sorb	LV			Serial N	lumber:	1281776-	-05-01		
	ction Summary:									
		ess steel header, sill	and 1.5"	dia. stainle	ss steel	tubes wit	h nozzles p	ounched	along thei	ir
ength. The tubes	s are oriented ver	tical to the ground.								
Options/Subcom	ponent Summary	y:								
There are no oth	er internal compo	onents.								
Weight		Dimension (in)					st Natural			
(lb)	Depth	Width		ight		t-Back		-Side	Vert	
223.5	5.0	80.0		0.0		N/A	N,	/A	N,	/A
		UUT Highest		11 A XXXXXXX		ation	-		1	
Buildi	ng Code	Test Criter	ia	S _{DS} (g)	z/h	lp.	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (§
CBC	2022	CBC 2022		2.0	1.0	1.5	3.20	2.40	1.67	0.67
					0.0	1.5				
Test Mounting Do	etails:			02/202	rim	- Fri	STRUCTURE		4" SAE GRADE 5 STE 3/4" SAE GRADE 5 ST SEISMIC ROD CLAMP 1/4" THREADED ROD	s
Test Mounting D	etails:			mad Kai	rim 2		ER GALVANIZED RAFT CABLE. 7X19	UUCS	SEISMIC ROD CLAMP	S BOLTS

vertical mounted using twenty (20) #10 self tapping screws at horizontal mounting junctions, screws 6" O.C. Unit mounted to vertical mounting junction using twenty-one (21) 1/4" ø thru bolts spaced at 6" O.C. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

1800819-CR-001-R6

COMPLIANCE

Manufacturer:	DriSteem (Corporation							
Model Line:	VLC, STS, V	/M, XTP, GTS LX, Mini-B	ank, Ultra-Sorb, F	RX			U	UT 4	-5
Model Number:	Ultra-Sorb	XV		Serial N	umber:	1281776	-07-01		
Product Construc	tion Summary:								
		ess steel header, sill an	d 1.5" dia. stainle	ess steel t	ubes with	h nozzles p	ounched	along the	ir
length. The tubes	are oriented ver	tical to the ground.							
Options/Subcom	-								
There are no othe	r internal compo	nents.							
			UUT Properties						
Weight		Dimension (in)	CODE		Lowes	st Natural	Frequen	cy (Hz)	
(lb)	Depth	Width	Height	Fron	t-Back		-Side		tical
261.4	7.2	80.0	80.0		I/A	N	/A	N	/A
		UUT Highest Pa	ssed Seismic Run	Informa	tion	·	-		-
Buildin	g Code	Test Criteria	S _{DS} (g)	z/h	24p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC	2022	ICC-ES AC156	SP-022.06	1.0	1.5	3.20	2.40	1.67	0.67
Test Mounting De			2.5	0.0	1.5				
			09/02/202	CTARY-	Jag DAIMETER A (1200 LBS STEEL AIRCRAF STEAN D CORE	SALVANIZED T CABLE, 7X19		SAE GRADE 5 STE I* SAE GRADE 5 ST I* SAE GRADE I*	5 BOLTS ID BOTTOM

Duct mounted using twenty-one (21) #10 self tapping screws at horizontal mounting junctions, screws 6" O.C. Unit mounted to vertical mounting junction using twenty-one (21) 1/4" ø thru bolts spaced at 6" O.C. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

> TRU Compliance, by Structural Integrity Associates, Inc. 844-TRU-0200 | info@trucompliance.com

1800819-CR-001-R6

Manufacturer:	DriSteem Co	orporation								
Model Line:	VLC, STS, VN	I, XTP, GTS LX, Min	i-Bank, Ul	tra-Sorb, R	Х			U	UT 4	10
Model Number:	Ultra-Sorb N	1P			Serial Ni	umber:	1281776-	-08-01		
Product Construc	tion Summary:									
Constructed of a l	ght gauge stainle	ss steel header, sill	and 1.5" o	dia. stainle	ss steel t	ubes wit	h nozzles p	ounched	along the	ir
ength. The tubes	are oriented verti	cal to the ground.								
Options/Subcomp	onent Summary:									
There are no othe	r internal compon	ents.								
W - ! - -			UUT Pr	operties		•		F	(11)	
Weight (lb)	Danth	Dimension (in)	RCU	DEC	25.00		st Natural			
	Depth	Width		ight		-Back		-Side		tical
232.4	7.2	80,0		0.0		/A	IN	/A	IN	/A
Buildin	a Codo	Test Crite		S _{DS} (g)	z/h	LIOIT Lp	A (a)	A (a)	A (a)	A (
Buituin	gcoue		OSP-	2.00	1.0	1.5	AFLX-H (B)	A _{RIG-H} (g)	AFLX-V (B)	ARIG-V (
CBC	2022	ICC-ES AC1	56	2.5	0.0	1.5	3.20	2.40	1.67	0.67
Test Mounting De	taile			nad Ka						
			UILL STEELBOLT	ADE 5	2 Fine P	HUMEDIFIER AN (1280 LBS			SAE GRADE 5 STEE IIG ROD CLAMPS THREADED ROD INNG UNISTRUT SA' SAE GRADE 5 SA' SAE GRADE 5 ASHERS TOP AND TOTAL TOTAL	
				J. S.K.		3/8° DAIMETER G STEEL AIRCRAFT STRAND CORE 1/4° SAE GRADE 5	CABLE, 7X19	45	CB-4 W/ 1-1/4* SAE RADE 5 STEEL BOL	Ţ

Duct mounted using twenty-seven (27) #10 self tapping screws on top horizontal mounting junctions and twenty (20) #10 self tapping screws on bottom horizontal mounting junctions. Unit mounted to vertical mounting junction (flange) using twenty-one (21) 1/4" ø thru bolts spaced at 6" O.C.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

1800819-CR-001-R6

Madallina	DriSteem	Corporation						UT 4	7
Model Line:	VLC, STS,	VM, XTP, GTS LX, Mini-Ba	nk, Ultra-Sorb, R	Х			U	014	• 1
Model Number:	Ultra-Sor	b MP		Serial N	umber:	1281776-	08-01		
Product Constru	•								
		nless steel header, sill and	1.5" dia. stainle	ss steel t	ubes wit	h nozzles p	ounched	along the	ir
length. The tube	s are oriented ve	rticalto the ground.							
Options/Subcom	ponent Summa	ry:							
There are no oth	er internal comp	onents.							
		U	UT Properties						
Weight		Dimension (in)	CODEC		Lowes	st Natural	Frequen	cy (Hz)	
(lb)	Depth	Width	Height	Front	t-Back	Side	Side	Vert	ical
29.5	7.2	12,0	12.0	N	I/A	N,	/A	N	/A
		UUT Highest Pas	sed Seismic Run	Informa	tion			-	
Buildi	ng Code	Test Criteria	S _{DS} (g)	z/h	2hp	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g
CBC	2022	ICC-ES AC156	SP-022.06	1.0	1.5	3.20	2.40	1.67	0.67
CDC	2022	ICC-LS ACISO	2.5	0.0	1.5	5.20	2.40	1.07	0.01
					2				
			Provide and the second		METER METER FT CARE FXTE FT CAR	Slotted	UCO - SEISA 1/2" RCD ST UNIT TRU 3CRH-0 1.587 30 1.587 30	UARE WASHER	Rod

UUT47 was ceiling mounted - rigid with 1/2" threaded rod, rod stiffening Unistrut, and Mason SCB-0/SCBH-0. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

1800819-CR-001-R6

Manufacturer: DriSteem Corporation

Model Line: VLC, STS, VM, XTP, GTS LX, Mini-Bank, Ultra-Sorb, RX

Model Number: GTS LX-50 Indoor w/ Enclosure

Serial Number: 1281776-01-01

Product Construction Summary:

Constructed of carbon steel base and aluminum with carbon steel enclosure.

Options/Subcomponent Summary:

Tank Weld Flange (600436-10x), Steam Distributions (250540-00x), Primary Heat Exchangers (600553-076, 600533-075), Secondary Heat Exchangers (600373), Burner Assembly (600445), Probe (184315-003), Ignition Control (405811-011), Pressure Switch (127601-001), Thermal Cut-Out (409560-001), Tank Temperature Sensor (405763), Drain Sensor (406774-002), Flue Sensor (600430), Fill Assembly (600432-001), Drain Manifold-SS (600024), Drain Assembly (600199-100), Control Cabinet (600284-001)

		L.	UUT P	roperties		-				
Weight		Dimension (in)			Lowes	t Natural	Frequen	cy (Hz)	
(lb)	Depth	Width	OSR	eight 16	Front	-Back	Side	-Side	Ver	tical
326.5	36.0	27.4		57.0	12	2.1	12	2.6	19	9.5
		UUT Highe	st Passed S	Seismic Run	Informa	tion				
Buildi	ng Code	Test Crit	eria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
СВС	2022		156 09	/02/ <u>202</u> 2.5	$2^{1.0}_{0.0}$	1.5	3.20	2.40	1.67	0.67

Test Mounting Details:



UUT48 was base mounted-rigid to shake table with two (2) 3/8" grade 8 bolts and washers in each DriSteem seismic angle (PN: 600783). Each of the two seismic angle attached to the sides of the unit with two (2) 1/4"-20 grade 5 integral washer self tapping screws.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.



1800819-CR-001-R6

Manufacturer: DriSteem Corporation

Model Line: VLC, STS, VM, XTP, GTS LX, Mini-Bank, Ultra-Sorb, RX

Model Number: GTS LX-50 Outdoor w/ Enclosure

Serial Number: 1281776-02-01

Product Construction Summary:

Constructed of carbon steel base and aluminum with carbon steel enclosure.

Options/Subcomponent Summary:

Tank Weld Flange (600436-10x), Primary Heat Exchangers (600553-076, 600533-075), Heater (600390), Burner Assembly (600445), Probe (184315-003), Ignition Control (405811-011), Pressure Switch (127601-001), Thermal Cut-Out (409560-001), Tank Temperature Sensor (405763), Drain Sensor (406774-002), Flue Sensor (600430), Fill Assembly (600432-001), Drain Manifold-Aluminum (600024-100), Drain Assembly (600199-103), Control Cabinet (600284-002)

		L.	UUT Pr	operties		5				
Weight		Dimension (in)/mWerMhered			Lowes	t Natural	Frequen	cy (Hz)	
(lb)	Depth	Width	OSHe	right 16	Front	t-Back	Side	-Side	Ver	tical
578.5	36.0	27.4	5	7.0	17	7.72	5.	27	>3	3.3
		UUT Highe	est Passed S	eismic Run	Informa	tion				
Buildi	ng Code	Test Cri	teria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CDC	2022	ICC-ESA		2.0	1.0	1.5	3.20	2.40	1.67	0.67
CBC	2022	CC-ESA	¢120 09/	2.5	² 0.0	1.5	3.20	2.40	1.07	0.67

Test Mounting Details:





UUT49 was mounted to DriSteem curb (PN: 600683-001). A bead of Dowsil 732 RTV (PN: 732-300ML CLR MIL-A-46106) was placed on the top of the curb before the unit was attached with twenty-two (22) 1/4"-20 bolts and washer on both sides of the curb-unit junction. Five (5) bolts were used on the shorter side of the unit space 6" O.C. "and Six (bolts) were used on the long side of the unit spaced 6" O.C. Curb mounted to the shake table with sixteen 3/8" Grade 8 bolts and washers, four (4) per side of unit. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.



1800819-CR-001-R6

Manufacturer: DriSteem Corporation

Model Line: VLC, STS, VM, XTP, GTS LX, Mini-Bank, Ultra-Sorb, RX

Model Number: GTS LX-50 Indoor w/o Enclosure

Serial Number: 1281776-01-01

Product Construction Summary:

Constructed of carbon steel base and aluminum and carbon steel frame.

Options/Subcomponent Summary:

Sub Panel Cover (600105), Flue adaptor bracket (127593-001), Tank Weld Flange (600436-10x), Steam Distributions (250540-00x), Primary Heat Exchangers (600533-075, 600533-76), Secondary Heat Exchangers (600373), Burner Assembly (600445), Probe (184315-003), Ignition Control (405811-011), Pressure Switch (127601-001), Thermal Cut-Out (409560-001), Tank Temperature Sensor (405763), Drain Sensor (406774-002), Flue Sensor (600430), Fill Assembly (600432-001), Drain Manifold-SS (600024), Drain Assembly (600199-100), Control Cabinet (600284-001)

		Į.ų		UUT P	roperties						
Weight		Dim	ension (in)				Lowes	t Natural	Frequen	cy (Hz)	
(lb)	Depth	121	Width	OSR	eight 16	Front	t-Back	Side	-Side	Ver	tical
310	23.3		23.3		43.0	4.	.98	7.	52	7.	58
			UUT Highes	t Passed S	Seismic Run	Informa	tion				
Buildi	ng Code		Test Crit	eria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
СВС	2022	CP	IC <mark>C-ES AC</mark>	156 09	/02/ <u>2.0</u> 2.5	$2\frac{1.0}{0.0}$	1.5	3.20	2.40	1.67	0.67

Test Mounting Details:



UUT50 was base mounted-rigid to shake table with two (2) 3/8" grade 8 bolts and washers in each DriSteem seismic angle (PN: 600783). Each of the two seismic angle attached to the sides of the unit with two (2) 1/4"-20 grade 5 integral washer self tapping screws.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

OSP-0216



1800819-CR-001-R6

Manufacturer: DriSteem Corporation

Model Line: VLC, STS, VM, XTP, GTS LX, Mini-Bank, Ultra-Sorb, RX

Model Number: GTS LX-600 Indoor w/ Enclosure

Serial Number: 1281776-04-01

Product Construction Summary:

Constructed of carbon steel base and aluminum with carbon steel enclosure.

Options/Subcomponent Summary:

Tank Weld Flange (600087-xxx), Primary Heat Exchangers (600088-001, 600088), Secondary Heat Exchangers (600190), Burner Assembly (600396), Probe (184315-003), Ignition Control (405811-011), Pressure Switch (127601-001), Thermal Cut-Out (409560-001), Tank Temperature Sensor (405763), Drain Sensor (406774-002), Flue Sensor (600430), Fill Assembly (600432-001), Drain Manifold-(600024), Drain Assembly (600199-100), Control Cabinet (600562-001)

			UUT Pro	operties		-				
Weight		Dimension (in)	11/11/11/11/12/2017			Lowes	t Natural	Frequen	cy (Hz)	
(lb)	Depth	Width	OSHei	ght 16	Front	-Back	Side	-Side	Ver	tical
1,338.5	57.4	39.1	62	2.0	9.	00	8.	99	26	.11
Buildi	ng Code	Test Crite	liehamn	S _{DS} (g)	rinz/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CDC	2022	ICC-ES AC1	EC	2.0	1.0	1.5	3.20	2.40	1.67	0.67
CBC	2022	ICC-ESACI		2.5	0.0	1.5	3.20	2.40	1.67	0.67

Test Mounting Details:



UUT51 was base mounted-rigid to shake table with five (5) 3/8" grade 8 bolts and square washers in each DriSteem seismic angle (PN: 600781). Angle attached to unit with four (4) 1/4"-20 grade 5 integral washer self tapping screws. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.



1800819-CR-001-R6

Manufacturer: DriSteem Corporation

Model Line: VLC, STS, VM, XTP, GTS LX, Mini-Bank, Ultra-Sorb, RX

Model Number: GTS LX-600 Outdoor w/ Enclosure

Serial Number: 1281776-03-01

Product Construction Summary:

Constructed of carbon steel base and aluminum with carbon steel enclosure.

Options/Subcomponent Summary:

Tank Weld Flange (600295-xxx), Steam Distributions (205500-0xx, 205500-004), Primary Heat Exchangers (600088-001, 600088), Secondary Heat Exchangers (600190), Heater (600390), Burner Assembly (600396), Probe (184315-003), Ignition Control (405811-011), Pressure Switch (127601-001), Thermal Cut-Out (409560-001), Tank Temperature Sensor (405763), Drain Sensor (406774-002), Flue Sensor (600430), Fill Assembly (600432-001), Drain Manifold-(600024), Drain Assembly (600199-103), Control Cabinet (600562-002)

		, Li	UUT Pr	operties		-				
Weight		Dimension (in)\			Lowes	t Natural	Frequen	cy (Hz)	
(lb)	Depth	Width	OSHe	ight 16	Front	-Back	Side	-Side	Ver	tical
1,795.5	57.4	39.1	6	2.0	7.	05	7.	82	26	.65
		UUT Highe	est Passed Se	eismic Run	Informa	tion				
Buildi	ng Code	Test Cri	teria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
СВС	2022		C156 09/	2.0	2 ^{1.0} 0.0	1.5	- 3.20	2.40	1.67	0.67

Test Mounting Details:





UUT52 was mounted to DriSteem curb (PN: 600683-004). A bead of Dowsil 732 RTV (PN: 732-300ML CLR MIL-A-46106) was placed on the top of the curb before the unit was attached with thirty-four (34) 1/4"-20 bolts and washer on both sides of the curb-unit junction. Seven (7) bolts were used on the shorter side of the unit space 6" O.C. "and ten (10) bolts were used on the long side of the unit spaced 6" O.C. Curb mounted to the shake table with sixteen 3/8" Grade 8 bolts and washers, four (4) per side of unit. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.



1800819-CR-001-R6

Manufacturer: DriSteem Corporation

Model Line: VLC, STS, VM, XTP, GTS LX, Mini-Bank, Ultra-Sorb, RX

Model Number: GTS LX-600 Indoor w/o Enclosure

Serial Number: 1281776-04-01

Product Construction Summary:

Constructed of carbon steel base and aluminum.

Options/Subcomponent Summary:

Test Mounting Details:

Sub Panel Cover(600105), Flue adaptor bracket (600133), Tank Weld Flange (60087-xxx), Primary Heat Exchangers (600088-001, 600088), Secondary Heat Exchangers (600190), Burner Assembly (600396), Probe (184315-003), Ignition Control (405811-011), Pressure Switch (127601-001), Thermal Cut-Out (409560-001), Tank Temperature Sensor (405763), Drain Sensor (406774-002), Flue Sensor (600430), Fill Assembly (600432-001), Drain Manifold-(60024), Drain Assembly (600199-100), Control Cabinet (600562-001)

				UUT Pro	operties		4				
Weight		Dimen	sion (in)	wWwWheedK	74777777777777777777777777777777777777		Lowes	t Natural	Frequen	cy (Hz)	
(lb)	Depth	Wi	idth	OSHei	ght 16	Front	t-Back	Side	-Side	Ver	tical
1,286	56.0	3	4.0	53	3.0	8.	.52	8.	14	8.	56
		UU	T Highest	Passed Se	ismic Run	Informa	tion				
Buildi	ng Code	Т	Fest Crite	ria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
СВС	2022		CC-ES AC1	56 09/($\frac{2.0}{2.5}$	$2^{1.0}_{0.0}$	1.5	3.20	2.40	1.67	0.67



UUT53 was base mounted-rigid to shake table with five (5) 3/8" grade 8 bolts and square washers in each DriSteem seismic angle (PN:600781). Mounting angle attached to unit with four (4) 1/4"-20 grade 5 integral washer self tapping screws. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.





1800819-CR-001-R6



Manufacturer: Model Line:	Dristeem	Corporation							
		, VM, XTP, GTS LX, Mi	ni-Bank. Ultra-So	rb. RX			U	UT 5	54
Model Number:		Outdoor w/ Enclosu			al Number:	1300984-	-04-01		
Product Construc		1							
Constructed of ga	-								
Outions (Cubose									
Options/Subcom Tank Assembly (6		ry: /el Probe (406303-11/	6) Tank temp Sor	nsor (600	804) Drain to	mn Sonco	r (600073) Hestin	7
		ve (505077-004), Fill \	•••••••	•		•	•		
		Assembly-Outdoor I				•			
	e (000390), Pan	Assembly-Outdool 1		J-005), Cl		1 (000010-	004), Disp	Jiay (400-	194-100)
		OF		SON	1				
		NED							
		E.	UUT Properti	es					
Weight		Dimension (in)			Lowes	st Natural	-	<u> </u>	
(lb)	Depth	Width	OS Height 1	6 F	ront-Back	Side	-Side	Ver	tical
571.6	53.6	32.8	62.0		5.52	7.	87	12	.63
		UUT Highes	t Passed Seismic	Run Info	rmation			•	
Buildin	g Code	Test Crite	eria S _{DS}	(g) z	/h I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g
CBC	2022		156 09/0 2/2		.0 .0	3.20	2.40	1.67	0.67
Test Mounting De		Con and a second			Ster.				
				GC					
	-	to shake table with sirity and remained fur	-						

1800819-CR-001-R6



Mar. J. 1 1 200 a	DriSteem (Corporation								F
Model Line:	VLC, STS, V	/M, XTP, GTS LX,	Mini-Bank, Ult	tra-Sorb, R	Х			U	UT 5	00
Model Number:	RX-324-4 O	utdoor Enclosu	re w/ Curb		Serial Nu	mber:	1300984	-05-01		
Product Construc	=									
Carbon steel curb	with galvanized	steel enclosure								
Options/Subcom Tank Assembly (6	-		116) Tank ter	nn sensor	(600804)	Drain te	amp sensor	r (600973)	Heating	
Element (600931- Outdoor Enclosur	XXX), Drain Valve	(505077-004), F	ill Valve (60056	68-001, -00	2, -003, -0	04), Sul	opanel O.E	. (198200-	-450), Hea	ater-
			UUT Pro	operties		*				
Weight		Dimension (Lowe	st Natural	Frequen	cy (Hz)	
(lb)	Depth	Width	OSHe	OS Height 16		Front-Back		-Side	Ver	tical
794	62.8	32.8	62	2.0	5.84		8.29		32.19	
		UUT Higl	ne <mark>st Passed</mark> Se	eismic Run	Informat	rion				
Buildin	g Code	Test C	riteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g
CBC	2022		AC156 09/	2.0	$\frac{1.0}{0.0}$	1.5	3.20	2.40	1.67	0.67
Test Mounting De	tails:					N.				

UUT55 was base mounted-rigid on 14"curb (PN: 600683-003) to shake table with twenty-six (26) 3/8" grade 8 bolts and washers. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

1800819-CR-001-R6

Manufacturer:	DriSteem	Corporation					· · ·		
Model Line:		VM, XTP, GTS LX, Mini	i-Bank, Ultra-Sorb, I	RX			υ	UT 5	6
Model Number:	RX-243-3 I	Indoor w/ Enclosure		Serial Nun	nber ¹ :	1300984	-03-01		
Product Constru	iction Summary:								
Aluminum Enclo	sure								
¹ The serial numb	er for UUT 56 and	d UUT 57 are identica	l. UUT 57 is fully por	pulated and	1 UUT 50	6 is depop	oulated.		
	nponent Summar	=							
		el Probe (406303-116)	•			•			-
	1-XXX), Drain Valv	ve (505077-003), Fill V	alve (600568-001, -0	002, -003, -0	104), Cor	ntrol Cabi	net (6006	10-103),[Display
(408494-100)			RCODEC						
		DFU		OMp;					
		AL.							
	r		UUT Properties		7			>	
Weight		Dimension (in)	OSP 0216			t Natural			
(lb)	Depth	Width	OS Height 16	Front-E		Side-Side		Vertical	
462	37.4	21.6	41.3	6.97		8.31		12.22	
Duildi			Passed Seismic Rur	·····		(-)	· · · ·	- (-)	. (-)
Bullar	ing Code	Test Criter		z/h	Ip	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC	C 2022	ICC-ES AC1	56 09/ 02/202	1.0	1.5	3.20	2.40	1.67	0.67
Test Mounting D		Z	2.5	0.0	5				
			BUH DING						

UUT56 was base mounted-rigid to shake table with six (6) 3/8" grade 8 bolts and washers. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

DriSteem Corporation

1800819-CR-001-R6

Manufacturer:

COMPLIANCE

0.67

UUT 57 Model Line: VLC, STS, VM, XTP, GTS LX, Mini-Bank, Ultra-Sorb, RX Serial Number¹: 1300984-03-01 Model Number: RX-324-4 Indoor w/ Enclosure Product Construction Summary: Galvanized steel enclosure ¹The serial number for UUT 56 and UUT 57 are identical. UUT 57 is fully populated and UUT 56 is depopulated. **Options/Subcomponent Summary:** Tank Assembly (600595-300), Level Probe (406303-116), Tank temp sensor (600804), Drain temp sensor (600973), Heating Element (600931-XXX), Drain Valve (505077-003), Fill Valve (600568-001, -002, -003, -004), Control Cabinet (600610-103), Display (408494 - 100)**UUT** Properties Weight **Dimension** (in) Lowest Natural Frequency (Hz) (lb) Width Height Side-Side Vertical Depth Front-Back 469 37.4 21.6 41.3 15.73 8.76 17.04 **UUT Highest Passed Seismic Run Information Building Code Test Criteria** z/h $S_{DS}(g)$ I_P $A_{FLX-H}(g) | A_{RIG-H}(g) | A_{FLX-V}(g) | A_{RIG-V}(g)$ 2.0 1.0 3.20 CBC 2022 ICC-ES AC156 2.40 1.67 1.5 2.5 0.0 Test Mounting Details:

UUT57 was base mounted-rigid to shake table with six (6) 3/8" grade 8 bolts and washers. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

OSP-0216

1800819-CR-001-R6



Manufacturer:	DriSteem	Corporation						.0	
Model Line:	VLC, STS,	, VM, XTP, GTS LX, Mi	ni-Bank, Ultra-Sorb, F	XX		<u> </u>	UT 5	8	
Model Number:	RX-75-1 li	ndoor w/ Enclosure		Serial Number:	1300984	01-01			
Product Construct Aluminum Enclosu	-	:							
	0595-100), Lev	vel Probe (406303-11)	6), Tank temp sensor /alve (600568-001, -00		•				
		.U.	UUT Properties						
Weight		Dimension (in)	ไหนโละสถิบระสมัทร์ไปป้องสัตร์ไปป้	Lowe	st Natural	Frequency (Hz)			
(lb)	Depth	Width			Side-Side		Vertical		
142.2	24.8	16.4	24.9	N/A	N	N/A		N/A	
		UUT Highes	t Passed Seismic Run	Information		-		1	
Building	Code	Test Crite	eria S _{DS} (g)	z/h I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)	
CBC 2	022		156 09/ 02/202	$\frac{1.0}{0.0}$ 1.5	3.20	2.40	1.67	0.67	
Test Mounting Det	ails:								

UNIS8 was wall mounted-rigid to shake table wall fixture with four (4) 3/8" grade 8 bolts and square washers. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

1800819-CR-001-R6



Manufacturer:	DriSteem	Corporation								
Model Line:	VLC, STS,	VM, XTP, GTS LX, N	Mini-Bank, U	ltra-Sorb, R	XX			U	UT 5	9
Model Number:	RX-162-2	Indoor w/ Enclosu	re		Serial Nu	ımber:	1300984	-02-01		
Product Constru	ction Summary:									
Aluminum Enclo	sure									
Options/Subcorr	nponent Summai	ry:								
		rel Probe (406303-1 re (505077-003), Fil		•			•		. 0	
		, SY		roperties	X					
Weight		Dimension (in		opercies		Lowes	t Natural	Frequen	cv (Hz)	
(lb)	Depth	Width OS Height 16		Front	Lowest Natural Front-Back Side		-Side		Vertical	
265.1	26.1	21.0		31.4			N/A		N/A	
L		******	est Passed S					1	ļ	
Buildi	ng Code	Test Cri	iteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g
СВС	2022			/02/ <u>2.0</u> 2.5	2 ^{1.0} 0.0	1.5	3.20	2.40	1.67	0.67
Test Mounting D	etails:					2		•		
			BUIL	DING				5. 		

were included in testing per operating conditions.

1800819-CR-001-R6



Manufacturer:	DriSteem Co	proration							
Model Line:		•	ii-Bank, Ultra-Sorb	, RX				UT 6	0A
Model Number:	XTP002AL			Serial Nu	umber:	1311421-	-01-01		
Product Constru	ction Summary:								
Carbon steel NEI	MA 3R enclosure								
	ponent Summary:								
	m (601033-001), Bo				alve: OE	M Solution	ns Inc. (40	05901)	
	l Controls (601038); 1bly: DriSteem (198	-			90 6003	90-001)			
	Mechatronics (407		RUSUE		50,0005	50-001/,			
				MA					
		SL	UUT Properties						
Weight		Dimension (in)	001 Properties		Towes	st Natural	Frequen	cv (Hz)	
(lb)	Depth	Width	OS Height 16	Front	Front-Back		Side-Side		tical
149	18.0	26.0	42.0		N/A		N/A		/A
			Passed Seismic R				,		,
Buildi	ng Code	Test Crite			I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC	2022	ICC-ESACI	2.0	1.0	1.5	3.20	2.40	1.67	0.67
СЫС	. 2022	T ICC-ESTICI	2.5	44 0.0		5.20	2.40	1.07	0.01
		PRAVIA.	BUILDING	00					

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.



1800819-0	CR-001-R6								COM	IPLIA	NCE	
Manufacturer:	DriSteem	Corporati	ion									
Model Line:	VLC, STS,	VM, XTP, 0	GTS LX, Mi	ni-Bank, Ult	ra-Sorb, R	х			U	JT 6	DR	
Model Number:	XTP002AL					Serial Nu	ımber:	1311421-	-01-01			
	ction Summary:											
Carbon steel NEI	MA 3R enclosure											
-	nponent Summar	-										
Fill Valve: Detro	em (601033-001), l Controls (60103 nbly : DriSteem (1	8), Fill Cu	p Assemb	ly: DriSteer	n (194605-	200),			ns Inc. (40)5901)		
	Mechatronics (4			DRCO	DEC	Mp,		,,				
		L.		UUT Pro	operties		Z					
Weight		Dime	ension (in)	hmWheelWheel			Lowes	Т		requency (Hz)		
(lb)	Depth	2	Nidth		ght 16	Front-Back		Side	Side-Side		tical	
149	18.0		26.0		2.0		.71	24	24.67		>33.33	
				t Passed Se							r	
Buildi	ng Code		Test Crite			z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g	
CBC	2022	C	ICC-ES AC	156 09/	$\frac{2.0}{2.5}$	$\frac{1.0}{0.0}$	1.5	3.20	2.40	1.67	0.67	
Test Mounting D	vetails:											

UUT60B was base mounted - rigid with four (4) 3/8"-3" stainless steel bolts into wood. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.



1800819-0	CR-001-R6									IFLIA	NCE		
Manufacturer:	DriSteem	Corpora	ation								1 ^		
Model Line:	VLC, STS,	VM, XTF	P, GTS LX, Min	i-Bank, Ul	tra-Sorb, R	X				UT 6	IA		
Model Number:	XTP048L3	8				Serial Ni	umber:	1311421	-02-01				
	iction Summary:												
Carbon steel NE	MA 3R enclosure												
	nponent Summa	-											
	em (601033-001),	-					alve: OE	M Solution	ns Inc. (40)5901)			
	l Controls (60103			-									
	nbly: DriSteem (1			- Enclosur	e: Chroma	lox (6003	90, 6003	90-001),					
Ventilation Fan	: Mechatronics (4	07109-0	002)			Ms							
		X		UUT Pr	operties		T						
Weight		Din	nension (in)	wWeelWweel			Lowes	st Natural	t Natural Frequency (Hz)				
(lb)	Depth	2	Width	OSHe	ight 16	Front-Back		Side-Side		Vertical			
207	18.0		26.0	4	2.0	N/A N		N	N/A		N/A		
			UUT Highest	Passed Se	eismic Run	Informa	tion 💦			-	-		
Buildi	ing Code		Test Crite	ria	S _{DS} (g)	z/h	Ι _Ρ	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)		
СВО	2022	Ç	IC <mark>C-ES AC</mark> 1	56 09/	$\frac{2.0}{2.5}$	2 1.0 2 0.0	1.5	3.20	2.40	1.67	0.67		
Test Mounting D	etails:		PANA										

UUT61A was wall mounted - rigid with four (4) 3/8" lag bolts and washers. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.



1800819-0	CR-001-R6									IPLIA	NUE	
Manufacturer:	DriSteem	Corporati	on									
Model Line:	VLC, STS,	VM, XTP, O	GTS LX, Mi	ni-Bank, Ult	ra-Sorb, R	Х			U	JT 6 :	IR	
Model Number:	XTP048L3					Serial Nu	mber:	1311421-	02-01			
	iction Summary: MA 3R enclosure											
Cabinet: DriStee Fill Valve: Detro Subpanel Assen	nponent Summan em (601033-001), I Controls (60103 nbly: DriSteem (1 : Mechatronics (4	Boiling Cl 9), Fill Cu .98411-XX	p Assemb X). Heater	ly: DriSteem	า (194605-	200),			ns Inc. (40)5901)		
		J.J.		UUT Pro	perties		T					
Weight			nsion (in)				Lowes	st Natural	ural Frequency (Hz)			
(lb)	Depth		Vidth	OSHei	-	1000	-Back	Side	Side	le Vertica		
207	18.0		26.0	42		18.		24	24.14		3.33	
		U	UT Highes	t Passed Se	ismic Run	Informa	tion 💦					
Buildi	ng Code		Test Crite	eria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g	
CBO	2022	G	ICC-ES AC	156 09/6	2.0	$2^{1.0}_{0.0}$	1.5	3.20	2.40	1.67	0.67	
Test Mounting D	petails:		PRNA									

UUT61B was base mounted - rigid with four (4) 3/8"-3" stainless steel bolts into wood. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.
Seismic

Certification Option



Warnings and cautions

۱	WARNING	CAUTION								
	es a hazardous situation that could result in death or injury if instructions are not followed.	Indicates a hazardous situation that could result in damage to a destruction of property if instructions are not followed.								
	WARNING									
	Read all warnings and instructions This page provides important safety instructions; it is intended to supplement – not replace – the humidifier's Installation Operation, and Maintenance Manual (IOM). Read the IOM that was provided with the humidifier before performing service or maintenance procedures on any part of the system other than installing the Seismic Certification option. Failur to follow all warnings and instructions could produce the hazardous situations described here and in the IOM, resulting in property damage, personal injury, or death.									
	If the IOM is missing, go to www.dristeem.com to download a replacement.									
X	Hot surfaces and hot water Steam humidification systems have extremely hot surfaces, and water in tanks, electrode cylinders, steam pipes, and dispersion assemblies can be as hot as 212 °F (100 °C). To avoid severe burns, allow the entire humidification system cool.									
	Follow the cool-down procedure in the humidifier's IOM part of the system.	before performing service or maintenance procedures on any								
	Shut down the energy source Before performing service or maintenance procedures on any part of the humidification system, verify that all energy sources are off. Energy sources can be electricity, gas, steam, or hot liquid. Failure to shut down the energy source could result in carbon monoxide poisoning, fire, explosion, electrical shock, and other hazardous conditions. These hazardous conditions could cause property damage, personal injury, or death.2									
¥	Contact with energized circuits can cause property damage, severe personal injury or death as a result of electrical shock or fire. Do not remove the shroud/cover, electrical panel cover/door, access panels, or heater terminal cover until electrical power is disconnected.									
4	Follow the shutdown procedure in the humidifier's IOM part of the system.	before performing service or maintenance procedures on any								
4		aintenance, severe bodily injury or death from electrical shock ure below before performing service or maintenance procedures drained):								
	1. Use the Vapor-logic keypad to change the control ma	ode to Standby.								
	2. Shut off all electrical power to the humidifier using th switches in the OFF position.	e field-installed fused disconnect, and lock all power disconnect								

$\underline{\wedge}$ caution

Damage from hot discharge water

Discharge water can be as hot as 212 °F (100 °C) and can damage the drain plumbing.

If the humidifier is equipped with a water tempering device such as a DriSteem Drane-kooler™, it needs fresh make-up water in order to function properly. Make sure the water supply to the Drane-kooler remains open during draining.

If the humidifier is not equipped with a water tempering device, allow the tank to cool before opening the drain valve.

Table of contents

Gas-to-Steam	· _
Floor mount installation drawing Outdoor enclosure installation drawing	2 3
Steam-to-Steam	
STS-25 through STS-100 floor mount installation drawing	
STS-200 through STS-800 floor mount installation drawing	
XT Series	
Resistive-to-Steam	
Mounting installation drawing	
Outdoor enclosure installation drawing	
Vaporstream	14
Floor mount installation drawing	. 14
Floor mount installation steps.	. 15
Weather cover installation drawing	10
Vapormist	10
Mini-bank	18
Installation drawing in a duct	. 19
Ultra-sorb	. 20
Model LV Installation drawing in a duct	. 21
Model LH Installation drawing in an air handling unit 2/2022. Model LH Installation drawing in a duct	.22 0
Model XV Installation drawing in a auct	24
Model XV Installation drawing in a duct.	
Model MP Installation drawing in an air handling unit	.26
Model MP Installation drawing in a duct	. 27

DriSteem humidification systems listed in this manual meet HCAI Seismic Certification Preapproval (OSP) requirements for healthcare facilities in California. These requirements also satisfy IBC 2015 and ICC-ES AC-156 test criteria throughout North America.

DriSteem's Seismic Certification option validates that the product meets OSP criteria for preapproval. It is available for specific configurations of GTS LX series, STS, RTS, Vapormist, Vaporstream, XT (humidifiers and steam blowers), Minibank, and Ultra-sorb.

The HCAI and IBC certificates are available on www.dristeem.com/home.

GTS humidifier LX series: Floor mount installation drawing

Mount humidifier per the instructions in this manual and to a structurally stable surface. Improper mounting of the humidifier can cause it to fall or to tip, resulting in severe personal injury or death. Refer to the GTS humidifier LX series IOM for all other installation, operation, and maintenance instructions. Complete the seismic installation as shown in Figure 2-1 and Figure 2-2.

NOTE: Use 3/8" grade 8 bolts and square washers in each DriSteem seismic angle.

FIGURE 2-1: LX SERIES FLOOR MOUNT SEISMIC

FIGURE 2-2: LX SERIES FLOOR MOUNT SEISMIC CERTIFICATION NO ENCLOSURE OPTION INSTALLATION



 Confirm the door of unit is attached with quarterturn before operating.

GTS humidifier LX series: Outdoor enclosure installation drawing

Mount humidifier per the instructions in this manual and to a structurally stable surface. Improper mounting of the humidifier can cause it to fall or to tip, resulting in severe personal injury or death. Refer to the GTS humidifier LX series IOM for all other installation, operation, and maintenance instructions. Complete the seismic installation as shown in Figure 3-1.

FIGURE 3-1: LX SERIES OUTDOOR ENCLOSURE SEISMIC CERTIFICATION CURB MOUNT OPTION INSTALLATION



STS-25 through STS-100 floor mount installation drawing

Mount humidifier per the instructions in this manual and to a structurally stable surface. Improper mounting of the humidifier can cause it to fall or to tip, resulting in severe personal injury or death. Refer to the STS IOM for all other installation, operation, and maintenance instructions. Complete the seismic installation as shown in Figure 4-1 and the installation steps on the next page.

FIGURE 4-1: STS-25 THROUGH STS-100 FLOOR MOUNT SEISMIC CERTIFICATION OPTION INSTALLATION



1. The height from floor to bottom of tank is $32 \frac{1}{8}$ in (815 mm).

2. All hardware shown supplied by DriSteem.

3. All cabinet mounted keypads require captive bracket. All controllers require captive standoffs.

DM-11911

STS-25 through STS-100 floor mount installation steps

- 1. Attach legs to tank assembly. See Detail A in Figure 4-1.
 - a. Identify "Front Right" and "Back Left" leg weldments. The side of the humidifier with the drain assembly and heat exchanger connections is the front. The two leg weldments with "R" marked on the bottom of the feet are used in these locations. Holding the leg weldments so that the angle iron is in the shape of an "L" when looking at it from the top, these have the fourth hole closer to the third hole on the horizontal part of the "L". Reference Figure 2-1 for proper locations.
 - b. The other two weldments, marked "L" on the bottom of the feet, are used in the "Front Left" and "Back Right" locations. See Figure 2-1 for back view callout. Callout will help orientation during installation.
 - c. Use supplied 1/4"-20 x 1/4" bolts to attach leg weldments to tank. Use all three bolt locations on all legs.
 - d. Leave these bolts loose until after cross braces are completely assembled and tightened in step 2.
- 2. Attach cross braces to legs. See Detail B in Figure 4-1.
 - a. Attach cross braces to legs as shown. Use three square spacers on each side of the outer cross braces to prevent bowing.
 - b. Torque all cross brace bolts to 30 ft-lbs (40 N-m)_____
- 3. Torque all leg bolts to 8 ft-lbs (10 N-m).
- 4. Attach legs to support structure using all four bolt hole locations and in accordance to instructions by the Structural Engineer of Record.
- 5. Refer to the STS IOM for all other installation, operation, and maintenance instructions.



Mount humidifier per the instructions in this manual and to a structurally stable surface. Improper mounting of the humidifier can cause it to fall or to tip, resulting in severe personal injury or death.

STS-200 through STS-800 floor mount installation drawing

Mount humidifier per the instructions in this manual and to a structurally stable surface. Improper mounting of the humidifier can cause it to fall or to tip, resulting in severe personal injury or death. Refer to the Steam-to-Steam (STS® humidifier) IOM for all other installation, operation, and maintenance instructions. Complete the seismic installation as shown in Figure 6-1 and the installation steps on the next page.

FIGURE 6-1: STS-200 THROUGH STS-800 FLOOR MOUNT SEISMIC CERTIFICATION OPTION INSTALLATION



1. The height from floor to bottom of tank is 23 7/8 in (606 mm).

2. All hardware shown supplied by DriSteem.

3. All cabinet mounted keypads require captive bracket. All controllers require captive standoffs.

STS-200 through STS-800 floor mount installation steps

- 1. Attach legs to tank assembly. See Detail A in Figure 6-1.
 - a. Use supplied 3/8" x 3" bolts to attach leg weldments to tank. Use both bolt locations on all legs.
 - b. Leave these bolts loose until after cross braces are completely assembled and tightened in step 2.
- 2. Attach cross-braces to legs. See Detail B in Figure 6-1.
 - a. Use supplied 3/8" x 31/2" bolts to attach cross braces to legs as shown. Use three square spacers on each side of the outer cross braces to prevent bending.
 - b. Torque all cross-brace bolts to 30 ft-lbs (40 N-m).
- 3. Torque all leg bolts to 30 ft-lbs (40 N-m).
- 4. Attach legs to support structure using all eight bolt hole locations and in accordance to instructions by the Structural Engineer of Record.
- 5. Refer to the STS IOM for all other installation, operation, and maintenance instructions.

BY: Mohammad Karim



Mount humidifier per the instructions in this manual and to a structurally stable surface. Improper mounting of the humidifier can cause it to fall or to tip, resulting in severe personal injury or death.

XT series humidifier: Indoor mounting

FIGURE 8-1: XT SERIES HUMIDIFIER SEISMIC CERTIFICATION OPTION WALL MOUNT INSTALLATION



	Model XTS / XTP							
Dimension	002, 003, 006		010, 017		025, 033, 0 <mark>42, 048</mark>		050*, 067*, 083*, 096*	
	inches	mm	inches	mm	inches	mm	inches	mm
А	3.9	100	7.1	180	7.5	190	14.0	356
В	3.0	75	3.6 D	92	G 3.4	86	3.3	84
С	3.2	81	4.4		4.1	104	4.1	104
D	14.0	355	16.3	414	18.9	480	18.9	480
E	-	_	_	_	_	_	19.0	483





XT series humidifier: Outdoor mounting

FIGURE 10-1: OUTDOOR ENCLOSURE



XT series humidifier: Outdoor mounting

FIGURE 11-1: XT OUTDOOR MOUNTING DIMENSIONS



- Mounting hardware to be four 3/8" diameter grade 8 bolts and washers.
- A rigid and structurally sound wall or equipment rails are required. Consult with the Structural Engineer on Record to determine acceptability of mounting structure.

FIGURE 11-2: XT OUTDOOR MOUNTING



NOTES:

- Loop strap through all slots on both side cylinder stabilizing brackets.
- Contact DriSteem for replacement retainer straps (part #: 408250-102).

RTS humidifier RX series: Mounting installation drawing

Mount humidifier per the instructions in this manual and to a structurally stable surface. Improper mounting of the humidifier can cause it to fall or to tip, resulting in severe personal injury or death. Refer to the RTS humidifier RX series IOM for all other installation, operation, and maintenance instructions. Complete the seismic installation as shown in Figure 12-1 and Figure 12-2.

NOTE: Use 3/8" grade 8 bolts and washers for mounting.

FOR CODE COA

FIGURE 12-1: RX-XX-3 AND RX-XX-4 INDOOR FLOOR MOUNT SEISMIC CERTIFICATION INSTALLATION

FIGURE 12-2: RX-XX-1 AND RX-XX-2 INDOOR WALL MOUNT SEISMIC CERTIFICATION INSTALLATION



 Confirm the door of unit is attached with quarterturn before operating. Confirm the door of unit is attached with quarterturn before operating.

RTS humidifier RX series: Outdoor enclosure installation drawing

Mount humidifier per the instructions in this manual and to a structurally stable surface. Improper mounting of the humidifier can cause it to fall or to tip, resulting in severe personal injury or death. Refer to the RTS humidifier RX series IOM for all other installation, operation, and maintenance instructions. Complete the seismic installation as shown in Figure 13-1.

FIGURE 13-1: RX SERIES OUTDOOR ENCLOSURE SEISMIC CERTIFICATION CURB MOUNT OPTION INSTALLATION



Vaporstream: Floor mount installation drawing

WARNING

Mount humidifier per the instructions in this manual and to a structurally stable surface. Improper mounting of the humidifier can cause it to fall or to tip, resulting in severe personal injury or death. Refer to the Vaporstream[®] IOM for all other installation, operation, and maintenance instructions. Complete the seismic installation as shown in Figure 14-1 and the installation steps on the next page.

FIGURE 14-1: VAPORSTREAM FLOOR MOUNT SEISMIC CERTIFICATION OPTION INSTALLATION



Notes:

14

- 1. The two leg weldments with "R" marked on the bottom of the feet are used in these locations. Holding the leg weldments so that the angle iron is in the shape of an "L" when looking at it from the top, these have the fourth hole closer to the third hole on the vertical part of the "L".
- 2. The height from floor to bottom of tank is 30 ½ in (774 mm).
- 3. All hardware shown supplied by DriSteem.
- 4. All cabinet mounted keypads require captive bracket. All controllers require captive standoffs.

DM-11906

Vaporstream: Floor mount installation steps

- 1. Attach legs to tank assembly See Detail A in Figure 14-1.
 - a. Vaporstream with remote control cabinet identify "Front Right" and "Back Left" leg weldments. Side of the tank with drain assembly and clean-out plate is front.
 - Weldments marked "L" on the bottom of feet are used in "Front Left" and "Back Right" locations.
 - Use 1/4"-20 x 1¼" bolts to attach leg weldments to tank. Use all three bolt locations on all legs.
 - Leave these bolts loose until after cross braces are completely assembled and tightened (Step 2).
 - b. Vaporstream with control cabinet factory mounted on humidifier identify "Front Right" and "Back Left" leg weldments. Side of the tank with drain assembly and clean-out plate is considered front. See Figure 14-1 for front view callout. Callout will help orientation during installation.
 - Remove the control cabinet from tank and support it within range of motion the flexible conduit allows.
 - Two weldments, marked "L" on the bottom of feet, are used in "Front Left" and "Back Right" locations.
 - Use included 1/4"-20 x 1¼" bolts to attach leg weldments to tank. Use all three bolt locations on all legs.
 - Note: Available space between control cabinet brackets and tank flange is tight. It is recommended to insert bolts and washers though the holes in leg assembly and tape them in place before assembling them to tank. Once washers and nuts are started on bolts, tape can be removed.
 - Leave bolts loose until after cross braces are completely assembled and tightened (Step 2).
- 2. Attach cross-braces to legs See Detail B in Figure 14-1.
 - a. Use square spacers on one of each side's set of cross-braces. Vaporstream with control cabinet factory mounted on humidifier:
 - Attach the cross-braces on the control cabinet side.
 - Attach cross-braces to legs.
 - Depending on tank and control cabinet size there may be slots in the control cabinet support brackets. Insert cross-braces through slots.
 - Torque all cross brace bolts to 30 ft-lbs (40.7 N-m).
 - Replace control cabinet onto tank.
- 3. Torque all leg bolts to 8 ft-lbs (10.8 N-m).
- 4. Attach legs to support structure using all four bolt hole locations and in accordance with instructions by the Structural Engineer of Record.



Mount humidifier per the instructions in this manual and to a structurally stable surface. Improper mounting of the humidifier can cause it to fall or to tip, resulting in severe personal injury or death.

Vaporstream: Weather cover installation drawing

Mount humidifier per the instructions in this manual and to a structurally stable surface. Improper mounting of the humidifier can cause it to fall or to tip, resulting in severe personal injury or death. Refer to the Vaporstream IOM for all other installation, operation, and maintenance instructions. Complete the seismic installation as shown in Figure 16-1.

FIGURE 16-1: VAPORSTREAM WEATHER COVER SEISMIC CERTIFICATION OPTION INSTALLATION



Vapormist: Wall mount installation drawing

Refer to the Vapormist[®] IOM for all other installation, operation, and maintenance instructions. Complete the seismic installation as shown in Figure 17-1.



Mount humidifier per the instructions in this manual and to a structurally stable surface. Improper mounting of the humidifier can cause it to fall or to tip, resulting in severe personal injury or death.

FOR CODE COA

FIGURE 17-1: VAPORMIST SEISMIC CERTIFICATION OPTION WALL MOUNT INSTALLATION



Mini-bank: Installation drawing in an air handling unit

Mount humidifier per the instructions in this manual and to a structurally stable surface. Improper mounting of the humidifier can cause it to fall or to tip, resulting in severe personal injury or death. Refer to the Steam Injection IOM for all other installation, operation, and maintenance instructions. Complete the seismic installation as shown in Figure 18-1.

FIGURE 18-1: MINI-BANK SEISMIC CERTIFICATION OPTION INSTALLATION IN AN AIR HANDLING UNIT



Note: Use Nylon style locking nuts on all UniStrut hardware connections.

Mini-bank: Installation drawing in a duct

Refer to the Steam Injection IOM for all other installation, operation, and maintenance instructions. Complete the seismic installation as shown in Figure 19-1.

Mount humidifier per the instructions in this manual and to a structurally stable surface. Improper mounting of the humidifier can cause it to fall or to tip, resulting in severe personal injury or death.

FIGURE 19-1: MINI-BANK SEISMIC CERTIFICATION OPTION INSTALLATION IN A DUCT



DM-11946

Ultra-sorb: Model LV Installation drawing in an air handling unit

Mount humidifier per the instructions in this manual and to a structurally stable surface. Improper mounting of the humidifier can cause it to fall or to tip, resulting in severe personal injury or death. Refer to the Ultra-sorb® Models LV and LH IOM for all other installation, operation, and maintenance instructions. Complete the seismic installation as shown in Figure 20-1.

FIGURE 20-1: ULTRA-SORB MODEL LV SEISMIC CERTIFICATION OPTION INSTALLATION IN AN AIR HANDLING UNIT



Notes:

• Use Nylon style locking nuts on all UniStrut hardware connections.

• Air handling unit end wall or lateral bracing shall be spaced at no great than 96" (2438 mm) o.c.

Ultra-sorb: Model LV Installation drawing in a duct

Refer to the Ultra-sorb Models LV and LH IOM for all other installation, operation, and maintenance instructions. Complete the seismic installation as shown in Figure 21-1.

Mount humidifier per the instructions in this manual and to a structurally stable surface. Improper mounting of the humidifier can cause it to fall or to tip, resulting in severe personal injury or death.

FIGURE 21-1: ULTRA-SORB MODEL LV SEISMIC CERTIFICATION OPTION INSTALLATION IN A DUCT



To avoid damaging the header, screws and drill bits must not penetrate more than 3/4" (20 mm) into the header assembly.

DM-11822

Ultra-sorb: Model LH Installation drawing in an air handling unit

Mount humidifier per the instructions in this manual and to a structurally stable surface. Improper mounting of the humidifier can cause it to fall or to tip, resulting in severe personal injury or death. Refer to the Ultra-sorb Models LV and LH IOM for all other installation, operation, and maintenance instructions. Complete the seismic installation as shown in Figure 22-1.

FIGURE 22-1: ULTRA-SORB MODEL LH SEISMIC CERTIFICATION OPTION INSTALLATION IN AN AIR HANDLING UNIT



Notes:

- Use Nylon style locking nuts on all UniStrut hardware connections.
- Air handling unit end wall or lateral bracing shall be spaced at no great than 96" (2438 mm) o.c.

DM-11814

Ultra-sorb: Model LH Installation drawing in a duct

Refer to the Ultra-sorb Models LV and LH IOM for all other installation, operation, and maintenance instructions. Complete the seismic installation as shown in Figure 23-1.

Note: For Model LH, seismic certification is only available with horizontal airflow.

A WARNING

Mount humidifier per the instructions in this manual and to a structurally stable surface. Improper mounting of the humidifier can cause it to fall or to tip, resulting in severe personal injury or death.

FIGURE 23-1: ULTRA-SORB MODEL LH SEISMIC CERTIFICATION OPTION INSTALLATION IN A DUCT



Note:

To avoid damaging the header, screws and drill bits must not penetrate more than 3/4" (20 mm) into the header assembly.

DM-11829

Ultra-sorb: Model XV Installation drawing in an air handling unit

Mount humidifier per the instructions in this manual and to a structurally stable surface. Improper mounting of the humidifier can cause it to fall or to tip, resulting in severe personal injury or death. mc 020212 1059 Refer to the Ultra-sorb Model XV IOM for all other installation, operation, and maintenance instructions. Complete the seismic installation as shown in Figure 24-1.

FIGURE 24-1: ULTRA-SORB MODEL XV SEISMIC CERTIFICATION OPTION INSTALLATION IN AN AIR HANDLING UNIT



Notes:

- Use Nylon style locking nuts on all UniStrut hardware connections.
- Air handling unit end wall or lateral bracing shall be spaced at no great than 96" (2438 mm) o.c.

Ultra-sorb: Model XV Installation drawing in a duct

Refer to the Ultra-sorb Model XV IOM for all other installation, operation, and maintenance instructions. Complete the seismic installation as shown in Figure 25-1.

Mount humidifier per the instructions in this manual and to a structurally stable surface. Improper mounting of the humidifier can cause it to fall or to tip, resulting in severe personal injury or death.

FIGURE 25-1: ULTRA-SORB MODEL XV SEISMIC CERTIFICATION OPTION INSTALLATION IN A DUCT



Note:

• To avoid damaging the header, screws and drill bits must not penetrate more than 3/4" (20 mm) into the header assembly.

DM-11844

Ultra-sorb: Model MP Installation drawing in an air handling unit

Mount humidifier per the instructions in this manual and to a structurally stable surface. Improper mounting of the humidifier can cause it to fall or to tip, resulting in severe personal injury or death. mc_020212_1059 Refer to the Ultra-sorb Model MP IOM for all other installation, operation, and maintenance instructions. Complete the seismic installation as shown in Figure 24-1.

FIGURE 26-1: ULTRA-SORB MODEL MP SEISMIC CERTIFICATION OPTION INSTALLATION IN AN AIR HANDLING UNIT



Notes:

- Use Nylon style locking nuts on all UniStrut hardware connections.
- Air handling unit end wall or lateral bracing shall be spaced at no great than 96" (2438 mm) o.c.

Ultra-sorb: Model MP Installation drawing in a duct

Refer to the Ultra-sorb Model MP IOM for all other installation, operation, and maintenance instructions. Complete the seismic installation as shown in Figure 25-1.

Mount humidifier per the instructions in this manual and to a structurally stable surface. Improper mounting of the humidifier can cause it to fall or to tip, resulting in severe personal injury or death.

FIGURE 27-1: ULTRA-SORB MODEL MP SEISMIC CERTIFICATION OPTION INSTALLATION IN A DUCT



Note:

• To avoid damaging the header, screws and drill bits must not penetrate more than 3/4" (20 mm) into the header assembly.

DM-15281

Notes



Notes



Expect quality from the industry leader

Since 1965, DriSteem has led the industry with innovative methods for humidifying and cooling air with precise control. Our focus on ease of ownership is evident in the design of the Wetted Media System. DriSteem also leads the industry with a Two-year Limited Warranty and optional extended warranty.

For more information

www.dristeem.com

sales@dristeem.com

For the most recent product information visit our website: www.dristeem.com

DRI-STEEM Corporation

a subsidiary of Research Products Corporation DriSteem U.S. operations are ISO 9001:2015 certified

U.S. Headquarters:

14949 Technology Drive

Eden Prairie, MN 55344

800-328-4447 or 952-949-2415

952-229-3200 (fax)

Continuous product improvement is a policy of DriSteem; therefore, product features and specifications are subject to change without notice.

DriSteem, STS, GTS, RTS, Ultra-sorb, Vapor-logic, Vapormist, and Vaporstream are registered trademarks of Research Products Corporation and are filed for trademark registration in Canada and the European community.

Product and corporate names used in this document may be trademarks or registered trademarks. They are used for explanation only without intent to infringe.

© 2022 Research Products Corporation

Form No. SEISMIC-IOM-EN-REVG-0722 Part No. 890000-450 Rev G

TWO-YEAR LIMITED WARRANTY

DRI-STEEM Corporation ("DriSteem") warrants to the original user that its products will be free from defects in materials and workmanship for a period of two (2) years after installation or twentyseven (27) months from the date DriSteem ships such product, whichever date is the earlier.

If any DriSteem product is found to be defective in material or workmanship during the applicable warranty period, DriSteem's entire liability, and the purchaser's sole and exclusive remedy, shall be the repair or replacement of the defective product, or the refund of the purchase price, at DriSteem's election. DriSteem shall not be liable for any costs or expenses, whether direct or indirect, associated with the installation, removal or reinstallation of any defective product. Excluded from the Limited Warranty are all consumable and wear and tear items such as cylinders, membranes, filters, or media replacements. These items are subject to usual wear and tear during usage.

DriSteem's Limited Warranty shall not be effective or actionable unless there is compliance with all installation and operating instructions furnished by DriSteem, or if the products have been modified or altered without the written consent of DriSteem, or if such products have been subject to accident, misuse, mishandling, tampering, negligence or improper maintenance. Any warranty claim must be submitted to DriSteem in writing within the stated warranty period. Defective parts may be required to be returned to DriSteem. Excluded from the Limited Warranty are all consumable and wear and tear items such as cylinders, membranes, filters, or media replacements. These items are subject to usual wear and tear during usage.

DriSteem's Limited Warranty is made in lieu of, and DriSteem disclaims all other warranties, whether express or implied, including but not limited to any IMPLIED WARRANTY OF MERCHANTABILITY, ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, any implied warranty arising out of a course of dealing or of performance, custom or usage of trade.

DriSteem SHALL NOT, UNDER ANY CIRCUMSTANCES BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, LOSS OF PROFITS, REVENUE OR BUSINESS) OR DAMAGE OR INJURY TO PERSONS OR PROPERTY IN ANY WAY RELATED TO THE MANUFACTURE OR THE USE OF ITS PRODUCTS. The exclusion applies regardless of whether such damages are sought based on breach of warranty, breach of contract, negligence, strict liability in tort, or any other legal theory, even if DriSteem has notice of the possibility of such damages.

By purchasing DriSteem's products, the purchaser agrees to the terms and conditions of this Limited Warranty.

EXTENDED WARRANTY

The original user may extend the term of the DriSteem Limited Warranty for a limited number of months past the initial applicable warranty period and term provided in the first paragraph of this Limited Warranty. All the terms and conditions of the Limited Warranty during the initial applicable warranty period and term shall apply during any extended term. An extended warranty term of an additional twelve (12) months or twenty four (24) months of coverage may be purchased. The extended warranty term may be purchased until eighteen (18) months after the product is shipped, after which time no extended warranties are available. When a Dristeem humidifier is purchased with a DriSteem RO system, an extended twenty-four (24) month coverage is included.

Any extension of the Limited Warranty under this program must be in writing, signed by DriSteem, and paid for in full by the purchaser.