

DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

OFFICE USE ONLY APPLICATION FOR HCAI SPECIAL SEISMIC **CERTIFICATION PREAPPROVAL (OSP) APPLICATION #: OSP-0583 HCAI Special Seismic Certification Preapproval (OSP)** Type: New Renewal **Manufacturer Information** Manufacturer: Climatec, LLC Manufacturer's Technical Representative: Cory Amick Mailing Address: 2150 South Towne Center Place Suite 200, Anaheim, CA 92806 Telephone: (949) 474-0955 Email: corya@climatec.com **Product Information** Product Name: HVAC Control Panels and Network Switches Product Model Number(s): See attached **Product Category:** Industrial Control Panels **HVAC Control Panels** Product Sub-Category: General Description: Control panels containing transformer, PCB controllers, relays, and switches. Tripp Lite Wall Rack SRW6U required for some installations; see UUT Sheets and end of OSP for rack reference. Mounting Description: Units are rigid or flexibly wall mounted 6/2025 None Tested Seismic Enhancements: **Applicant Information** Applicant Company Name: DCL Labs, LLC Contact Person: Kelly Laplace

Mailing Address: 1315 Greg St, Sparks, NV 89431

Telephone: (775) 358-5085 Email: kelly.laplace@thevmcgroup.com

Title: Business Manager



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DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

California Licensed Structural En	gineer Respo	nsible for the Engin	eering and Test Repo	ort(s)
Company Name: THE VMC GROUP				
Name: Kenneth Tarlow		California Lice	ense Number: S2851	
Mailing Address: 980 9th Street, 16th I	loor, Sacramen	to, CA 95814		
Telephone: (832) 627-2214	Ema	ail: ken.tarlow@thevm	ncgroup.com	
Certification Method				
GR-63-Core X ICC-E	ES AC156	IEEE 344	IEEE 693	NEBS 3
Other (Please Specify):				
	5.0	RCODECO		
Testing Laboratory				
Company Name: DYNAMIC CERTIFIC	ATION LABOR	ATORY (DCL)		
Contact Person: Josh Sailer		M-XAX	2	
Mailing Address: 1315 Greg St., Ste 1	09, Sparks NV 8	9431 - U583	11/16/	
Telephone: (775) 358-5085	By Em:	ail: josh@shaketest.co	m	
	DATE	: 05/06/2025		
	V. WARRANGE			

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STATE OF CALIFORNIA - HEALTH AND HUMAN SERVICES AGENCY



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION OFFICE OF STATEWIDE HOSPITAL PLANNING AND DEVELOPMENT

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Design Basis of Equipment or Components (F_p/W_p) = 1.44 (SDS=2.00, z/h=1), 1.13 (SDS=2.50, z/h=0)

SDS (Design spectral response acceleration at short period, g) = 2.0 @ z/h = 1.0; 2.5@z/h=0

ap (Amplification factor) = 1.0

 R_p (Response modification factor) = 2.5

 Ω_0 (System overstrength factor) = 2.0

 I_p (Importance factor) = 1.5

z/h (Height ratio factor) = 1 and 0

Natural frequencies (Hz) = See Attachment

Overall dimensions and weight = See Attachment

HCAI Approval (For Office Use Only) - Approval Expires on 05/06/2031

Date: 5/6/2025 OSP-0583

Name: Mohammad Karim Title: Supervisor, Health Facilities

z/h =

Special Seismic Certification Valid Up to: Sps (g) = 2.0

Condition of Approval (if applicable):

HCAi

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STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY

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DCL Project Number: 05400-2501

Manufacturer: Climatec

Product Line: HVAC Control Panels and Network Switches

Mounting: Rigid or Isolated Wall Mounted

Certified Seismic Levels: Sds 2.0g at z/h=1.0 and Sds 2.5g at z/h=0

Model Number		Dimensions [in.]		Weight	D.C	l I mile
Model Number	Depth	Width	Height	[lb.]	Mounting	Unit
			Custom Control Pan	els		
aaa-XXXX	4.0	6.0-12.0	6.0-14.0	<17		Extrapolated
FCU-1800	4.0	12.0	14.0	17		UUT1a,b
SMK-1100	8.3	23.6	23.6	68		UUT7a,b
aaa-XXXX	4.0-10.0	12.0-24.0	14.0-24.0	17 - 75		Interpolated
HHW-1100	11.0	24.0	24.0	75	Digid and Isolated M/all	UUT3a,b
aaa-XXXX	9.0-10.0	24.0-36.0	24.0-48.0	75 - 130	Rigid and Isolated Wall	Interpolated
AHU-1800	9.0	36.0	48.0	200		UUT2a,b
aaa-XXXX	9.0-10.0	36.0	48.0	200 - 214		Interpolated
CHW-1100	11.0	36.0	2 48.0	205		UUT4a,b
CHW-1200	8.3	35.5	47.3	214		UUT8a,b
	•		Network Switches	5		
NET-1101	17.5	23.5	14.5	34	Park Manustard (Birdal and	UUT6a,b
NET-xxxx	17.5	23.5	14.5	34 - 63	Rack Mounted (Rigid and Isolated Wall)	Interpolated
NET-1100	17.5	23.5	14.5	63	Jointed Wally	UUT5a,b

OSP-0583

BY: Mohammad Karim

DATE: 05/06/2025

Table 2 - Nomenclature Chart



DCL Project Number: 05400-2501

Certified Seismic Levels: Sds 2.0g at z/h=1.0 and Sds 2.5g at z/h=0

Sample Part Number: aaa-XXXX									
Nomenclature	Allowable Value	Allowable Value Description	UUT						
	AHU	Air Handling Unit	UUT2a,b						
	CHW	Chilled Water System	UUT4a,b, UU8a,b						
	HHW	Heating Hot Water System	UUT3a,b						
	FCU	Fan Coil Unit	UUT1a,b						
aaa¹	SMK	Smoke Control Panel	UUT7a,b						
	EXH	Exhaust Fan System	Same as UUT1, 2, 3, 4, 7, 8						
	ELC	Electrical Systems	Same as UUT1, 2, 3, 4, 7, 8						
	PLM	Plumbing Systems	Same as UUT1, 2, 3, 4, 7, 8						
	NET	Network Switch	UUT5a,b, UUT6a,b						
XXXX	0000-9999	Internally Applied Serial Number	All Interpolated and Tested UUTs						

Note:

1. AHU, CHW, SMK, HHW, FCU, EXH, ECL, PLM only differ by software.



Special Seismic Certification Table 3 - Certified Subcomponents



DCL Project Number: 05400-2501

Product Line: HVAC Control Panels and Network Switches

Subcomponent Type	Model Number ¹	Manufacturer	NEMA		Dimensions	;	Gauge	Material	Weight	Unit
Subcomponent Type	Woder Number	Manadactarci	Rating	Height	Width	Depth	Gauge	Material	[lb.]	O.I.I.
	A-6N64 + A6N6P		1, 4	6	6	4	16		5	Extrapolated
	A-8N64 + A8N6P		1, 4	8	6	4	16		6	Extrapolated
	A-8N84 + A8N8P		1, 4	8	8	4	16		7	Extrapolated
	A-8N86 + A8N8P		1, 4	8	8	6	16		7	Extrapolated
	A-10N84 + A10N8P		1, 4	10	8	4	16		8	Extrapolated
	A-10N104 + A10N10P		1, 4	10	10	4	16		9	Extrapolated
	A-10N86 + A10N8P		1, 4	10	8	6	16		10	Extrapolated
	A-10N106 + A10N10P		1, 4	10	10	6	16		11	Extrapolated
	A-12N104 + A12N10P		1, 4	12	10	4	16		11	Extrapolated
	A12N106 + A12N10P		1, 4	12	10	6	16		12	Extrapolated
	A-12N124 + A12N12P		1, 4	12	12	4	16		13	Extrapolated
	A-14N124 + A14N12P	Hoffman	1, 4	14	12	4	16		14	UUT1a,b
	A-12N126 + A12N12P		1,4	12	12	6	16		15	Interpolated
	A-14N126 + A14N12P		1, 4	14	12	6/	16		16	Interpolated
Ì	A-12N128 + A12N12P		1, 4	12	12	8	16	Powder coated carbon steel	17	Interpolated
	A-16N126 + A16N12P		1, 4	16	12	6	16		17	Interpolated
	A-14N128M + A1412P		1, 4	14	12	8	16		18	Interpolated
Enclosures	A-16H12ALP + A16P12		1, 4	16	12	6	16		21	Interpolated
Liiciosures	A-16H12BLP + A16P12	, ioiiiiaii	1, 4	16 -	12 3	8	16		24	Interpolated
	A-16H16ALP + A16P16		1, 4	16	16	6	16		29	Interpolated
	A-20H16ALP + A20P16		1, 4	20	16	6	16		32	Interpolated
	A-20H16BLP + A20P16	b MARIB	1,4/0	haonn	1a ₁₆ K	arim	16		35	Interpolated
	A-20H20ALP + A20P20	WXXXXX	1, 4	20	20	6	16		37	Interpolated
	A-20H20BLP + A20P20	Maria Maria	1, 4	20	20	8	16		41	Interpolated
	A-24H20ALP + A24P20		1,4	24	620	25	16	<u></u>	45	Interpolated
	A-24H20BLP + A24P20		1, 4	24	20	8	16	//	52	Interpolated
	A-24H24ALP + A24P24		1, 4	24	24	6	16		53	Interpolated
	A-24H24BLP + A24P24		1, 4	24	24	8	16		57	Interpolated
	A-30H24ALP + A30P24		1, 4	30	24	6	16		73	Interpolated
	A-30H24BLP + A30P24	71	1, 4	30	24	8	14		77	Interpolated
	A-36H24ALP + A36P24		1, 4	36	24	6	16		83	Interpolated
	A-36H24BLP + A36P24		1, 4	36	T 24	8	14		89	Interpolated
	A-36H30BLP + A36P30	1	1, 4	36	30	8	14		110	Interpolated
	A-42H36BLP + A42P36		1, 4	42	36	8	14		156	Interpolated
	A-42H30BLP + A42P30		1, 4	42	30	8	14		160	Interpolated
	A-48H36BLP + A48P36		1, 4	48	36	8	14		185	UUT2a,b

^{1.} Model number includes enclosure and back panel.

Continued on next page

Table 4 - Certified Subcomponents



Product Line: HV	AC Control Panels and Net	work Switches								
Subcomponent	Model Number	Manufacturer	NEMA Rating		Dimensions		Gauge	Material	Weight	Unit
Туре	Woder Number	Wandlacturer	NEIVIA Natilig	Height	Width	Depth	Gauge	iviaterial	[lb.]	Oiiit
	CSD12106 + CP1210		4 & 12	12	10	6	18		14	Interpolated
	CSD12126 + CP1212		4 & 12	12	12	6	18		15	Interpolated
	CSD16126 + CP1612	<u> </u>	4 & 12 16 12	12	6	18		19	Interpolated	
	CSD161210 + CP1612		4 & 12	16	12	10	16		21	Interpolated
	CSD16128 + CP1612		4 & 12	16	12	8	18		21	Interpolated
	CSD16166 + CP1616		4 & 12	16	16	6	18		24	Interpolated
	CSD16168 + CP1616	1	4 & 12	16	16	8	18		26	Interpolated
	CSD161610 + CP1616	1	4 & 12	16	16	10	16		28	Interpolated
	CSD20166 + CP2016	1	4 & 12	20	16	6	18		30	Interpolated
	CSD20208 + CP2020	<u> </u>	4 & 12	20	20	8	18		30	Interpolated
	CSD20168 + CP2016	<u> </u>	4 & 12	20	16	8	18		32	Interpolated
	CSD24166 + CP2416	<u> </u>	4 & 12	24	16	6	18		34	Interpolated
	CSD20206 + CP2020	1	4 & 12	20	20	6	18		36	Interpolated
	CSD202010 + CP2020		4 & 12	20	20	10/	16		38	Interpolated
	CSD241610 + CP2416		4 & 12	24	16	10	16		39	Interpolated
	CSD162010 + CP1620	1.5	4 & 12	16	20	10	16		42	Interpolated
	CSD24206 + CP2420		4 & 12	24	20	6	18		42	Interpolated
	CSD24168 + CP2416		4 & 12	24	16	V V X X 8 AAAA	18	Powder coated carbon	44	Interpolated
	CSD242010 + CP2420	Hoffman	4 & 12	24	24	10	16	steel	46	UUT3a,b
	CSD24208 + CP2420		4 & 12	24	20	8	18		47	Interpolated
	CSD24246 + CP2424	+	4 & 12	24	24	6	16		52	Interpolated
	CSD242410 + CP2424		4 & 12	loham	mad k	arim	16		53	Interpolated
	CSD24248 + CP2424		4 & 12	24	24	8	16		53	Interpolated
	CSD302010 + CP3020	1	4 & 12	30	20	10	16	y	55	Interpolated
	CSD302410 + CP3024		4 & 12	_ 24	10 ³⁰ /20	20	16		65	Interpolated
	CSD30248 + CP3024		4 & 12	_ 30	24 -	12 8	14		67	Interpolated
Enclosures	CSD36248 + CP3624		4 & 12	36	24	8	16		81	Interpolated
	CSD362410 + CP3624		4 & 12	36	24	10	16		83	Interpolated
	CSD30308 + CP3030	+ \C	4 & 12	30	30	8	14	-	89	Interpolated
	CSD303010 + CP3030	+	4 & 12	30 48	30	10	14		93	Interpolated
	CSD482410 + CP4824		4 & 12	17.17(1)	24	10	14		103	Interpolated
	CSD36308 + CP3630 CSD363010 + CP3630	+	4 & 12	36_	30	10	14 14	+	109	Interpolated
	CSD363010 + CP3630 CSD36368 + CP3636	+	4 & 12 4 & 12	36	36	8	14		112	Interpolated
	CSD363610 + CP3636	1	4 & 12	36	36	10	14		126	Interpolated Interpolated
	CSD423610 + CP4236	1	4 & 12	42	36	10	14		150	Interpolated
	CSD483610 + CP4836	1	4 & 12	48	36	10	14		174	UUT4a,b
								Powder coated carbon		,
	SRW6U	Tripp Lite	N/A	15	24	18	14	steel	30	UUT5a,b, UUT6a,b
	WM161206NC	<u> </u>	4 & 12	16	12	6	15		19	Interpolated
	WM161606NC	1	4 & 12	16	16	6	15		19	Interpolated
	WM242006NC	1	4 & 12	24	20	6	15		21	Interpolated
	WM162006NC	<u> </u>	4 & 12	16	20	6	15		27	Interpolated
	WM201606NC	<u> </u>	4 & 12	20	16	6	15		31	Interpolated
	WM241606NC	<u> </u>	4 & 12	24	16	6	15		35	Interpolated
	WM202006NC	<u> </u>	4 & 12	20	20	6	15	Powder coated carbon	36	Interpolated
	WM242408NC	Rittal	4 & 12	24	24	8	15	steel	50	UUT7a,b
	WM302408NC		4 & 12	30	24	8	15		67	Interpolated
	WM303008NC		4 & 12	30	30	8	15	1	88	Interpolated
	WM244208NC		4 & 12	24	42	8	12	1	101	Interpolated
	WM363008NC	1	4 & 12	36	30	8	12		110	Interpolated
	WM423008NC	1	4 & 12	42	30	8	12		138	Interpolated
	WM363608NC	1	4 & 12	36	36	8	12		149	Interpolated
	WM483608NC		4 & 12	48	36	8	12		184	UUT8a,b

Table 5 - Certified Subcomponents



Subcomponent Type	Model Number	Manufacturer	Material	Interior Mounting	Weight [lb.]	Unit
	VLC-444				<1	UUT2a,b
	VAV-DD7				<1	Interpolated
	VAV-DD				<1	Interpolated
	VAV-SD				<1	Interpolated
	VAV-SD2A				<1	Interpolated
	VLC-550				<1	Interpolated
	VLC-1600				<1	Interpolated
	VLC-16160				<1	Interpolated
	VLC-16160-S				<1	Interpolated
	VLC-853				<1	UUT1a,b
	VLC-660R				<1	Interpolated
	VLC-651R			Back Panel	<1	Interpolated
	VLC-1188-S	600			<1	Interpolated
	VLC-1188	R CUDA	Ca		<1	UUT2a,b
	BTI-S		COMPL		<1	Interpolated
	VLC-550-E		140		<1	Interpolated
	VLC-651R-E				<1	Interpolated
	VLC-660R-E	### X (MW) <u>A</u> Y			<1	Interpolated
-	VLC-853-E	11M13M2253X12M325		7.	<1	Interpolated
-	VLC-1188-E	Alerton	Plastic		<1	Interpolated
-	VLC-1600-E	U3P-U38	55	TII I	<1	Interpolated
-	VLC16160-E			1	<1	Interpolated
-	ALERVIEW-WHT		17	Cover	<1	UUT4a,b
	ACM ACM	lohammad	Karim	Cover	<1	UUT2a,b
	VXIO-322-HOA (WEB-03022H) ¹				<1	UUT4a,b
	ES-EIS8-100T				<1	Interpolated
Controller	VGC-S	E: 05/06/2	2025	\sim	<1	UUT7a,b
Controller			The concessor	N/	<1	•
-	VLC-1188-E-S VLC-16160-E-S			2/	<1	Interpolated
				//		Interpolated
-	VAV-DD7-E-S VAV-SD-E-S			Din Rail	<1	Interpolated
-	VLC16u8-IP-BLE			Dili Kali	1	Interpolated UUT8a,b
-	VLC30u8-IP-BLE	TAIN IN TAIN			1	
-		SIII DIN	JG C		1	Interpolated
-	VLC8u8-IP-BLE	OILDI				UUT8a,b
-	VXIO-965-HOA (WEB-09056H) ¹ VLC16u8-IP				1	UUT4a,b
-					1	Interpolated
-	VIP-363-HOA (WEB-C3036EPVBNH) ¹				1	UUT4a,b
-	VLCA-1688				2	UUT 2a,b
-	WEB-EHSERIESNX26ND				<1	UUT8a,b
-	WEB-C3036EPUBNH				<1	UUT7a,b
	XF821A				<1	UUT8a,b
	XF822A				<1	UUT8a,b
	XFR822A				<1	Interpolated
	XSU821-22				<1	Interpolated
	XF823A		-1		<1	Interpolated
	XSU823	Honeywell	Plastic	Din Rail	<1	Interpolated
	XF824A				<1	Interpolated
	XFR824A				<1	UUT8a,b
	XFR825A				<1	Interpolated
	XSU824-25				<1	Interpolated
	XFU830A				<1	UUT8a,b
	XS830				<1	Interpolated
	10BASE-T1L-ADAPT				<1	UUT7a,b
1. Alternately branded a	s Honeywell (second model number listed is Honeyw					
		Continued on nex	t page			

Table 6 - Certified Subcomponents



Product Line:	HVAC Control	i Paneis and i	Network Switches

Subcomponent Type	ntrol Panels and Network Switches Model Number	Manufacturer	Material	Interior Mounting	Weight	Unit
	XS831	- The late of Ci		, and the state of	[lb.] <1	Interpolated
	IO-16DI-S-S				<1	Interpolated
	IO-8DOR-S-S				<1	Interpolated
	IOD-8DOR-S-S				<1	UUT8a,b
	IO-16UI-S-S				<1	Interpolated
	IO-16UIO-S-S				<1	Interpolated
	IOD-16UIO-S-S				<1	UUT8a,b
	HMI-CABLE-L				<1	UUT8a,b
	HMI-CABLE-S				<1	UUT8a,b
	WEB-09056H				1	UUT7a,b
	WEB-O3022H				1	UUT7a,b
	N-ADV-112-H-C				1	Interpolated
	N-ADV-133-H-C	2 CODE			1	Interpolated
	N-ADV-134-H-C	Honeywell	Plastic	Din Rail	1	UUT8a,b
	UN-RS0844ES24NMC	THE			1	Interpolated
	UN-RS0844TS24NMC				1	Interpolated
	UN-RS0844MS24NMC	M PARKYAY			1	UUT8a,b
	UN-RS0844ESB24NMC				1	Interpolated
	UN-RS0844TSB24NMC	<u> </u>			1	Interpolated
	UN-RS0844MSB24NMC	OSP-058	33		1	Interpolated
	UN-RL1644ES24NMC	V/2///2///			1	Interpolated
	UN-RL1644TS24NMC				1	Interpolated
	UN-RL1644MS24NMC	lohammad	Karim		1	UUT8a,b
	UN-RL1644ESB24NMC				1	Interpolated
	UN-RL1 <mark>644TSB2</mark> 4NMC				1	Interpolated
	UN-RL1644MSB24NMC	F: 05/06/2	2025		1	Interpolated
Controller	WEB-HMI7/C	00/00//	1020	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	2	UUT8a,b
	HMI-WL		CHERRICA .	5//	<1	Extrapolated
	HMI-DN	Honeywell	Carbon Steel	Din Rail	<1	UUT8a,b
	JACE-9000	Tridium	Plastic	Din Rail	<1	UUT8a,b
	CDIDI-BOS8USWIFIU				<1	Extrapolated
	PDIDI-NPB82X485U-00		(0)		<1	Extrapolated
	PXXDI-COMMSPK	BLITIDIA	16		<1	Extrapolated
	PXXDI-IOSPK	OILDI			<1	Extrapolated
	PXXDI-PWRSPK				<1	Extrapolated
	PXXDI-TRIACSPK				<1	Extrapolated
	PXXDI-INSIK-01				<1	Extrapolated
	PXXDI-DCSIK				<1	Extrapolated
	PDIDI-NPB82X485-00				<1	UUT4a,b
	CDIY-RS485-00				<1	UUT4a,b
	CDIY-NLINT-01				<1	Interpolated
	CDIY-PS100240-00	Distech	Plastic	Din Rail	<1	UUT4a,b
	CDIY-8DOR-00				<1	Interpolated
	CDIY-8DORHOA-00				<1	UUT4a,b
	CDIY-PS24-00				<1	UUT4a,b
	CDIY-S1028-00				<1	Interpolated
	CDIY-S1028ENVY-00	1			<1	Interpolated
	CDIY-S1028-MS-00]			<1	Interpolated
	CDIY-S1028ENVY-MS-00				<1	Interpolated
	CDIY-S1048-00				<1	Interpolated
	CDIY-S1048ENVY-00				<1	Interpolated
	CDIY-S1048-MS-00	1			<1	Interpolated
	CDIY-S1048ENVY-MS-00	1			<1	Interpolated
		Continued on nex	t page	•	•	

Special Seismic Certification Table 7 - Certified Subcomponents

(()) DCL
DYNAMIC
CERTIFICATION

DCL Project Number: 05400-2501

Product Line: HVAC Control Panels and Network Switches

ocomponent Type	Model Number	Manufacturer	Material	Interior Mounting	Weight [lb.]	Unit
	CDIY-S1048ENVY-MS-00				<1	Interpolate
	CDIY-S1048ENVY-NL-00				<1	Interpolate
	CDIY-S1000-00				<1	UUT4a,b
	CDIY-S1000ENVY-00				<1	Interpolate
	CDIY-8UI-00	1			<1	Interpolate
	CDIY-4UI4UO-00				<1	Interpolate
	CDIY-4UI4UOHOA-00	7			<1	Interpolate
	CDIY-8UI6UO-00	7			<1	Interpolate
	CDIY-8UI6UOHOA-00	7			<1	Interpolate
	CDIY-8UI6DOT-00	7			<1	Interpolat
	CDIY-8UI6DOTHOA-00	7			<1	Interpolat
	CDIY-16DI-00				<1	Interpolat
	CDIY-6UO-00	a CODE			<1	Interpolat
	CDIY-6UOHOA-00	JK CODE	CO		<1	Interpolat
	CDIB-103X-01		012		<1	UUT3a,b
	CDIDI-BOS8USWIFI		COMPLY		<1	UUT4a,b
	CDIB-203X-00				<1	UUT4a,b
	CDIB-203E-00			7	<1	Interpolat
	CDIB-300X-00	ii iaWBadWWaaaKivaWWa	(////////////////////////////////////	7	<1	Interpolat
	CDIB-203U-00	OSP-059	33		<1	Interpolat
	CDIB-300U-00	001 -000		m	<1	Interpolat
	CDIB-400U-00				1	Interpolat
	CDIB-600U-00	Vahammad	Korim		1	Interpolat
_	CDIX-400U-00	<u>v</u> ionaminau	Karim		1	Interpolat
	07CBL-ECLYPSE6HD1590				1	Interpolat
Controller	EIS8-100T	Distech 6/	Plastic	Din Rail	1	Interpolat
Controller	EIS6-100T/FC	<u>-: 05/06/2</u>	2025 astic	Oli Kali	1	Interpolat
	CDIB-253X-00		Carranae		1	Interpolat
_	CDIB-350X-00			2/	1	
_				V /	1	Interpolat
_	CDIB-400X-00				1	Interpolat
	CDIB-403X-00					Interpolat
	CDIB-410X-00		IG C		1	Interpolat
_	CDIB-413X-00	ALU IIUD	10		1	Interpolat
_	CDIB-600X-00	O ILDI.			1	Interpolat
_	CDIB-610X-00	4			1	UUT4a,l
_	CDIX-400X-00	4			1	Interpolat
_	CDIX-410X-00	4			1	Interpolat
_	CDIX-420X-00	4			1	Interpolat
_	CDIX-400U-00	4			1	Interpolat
_	CDIY-303-IMP-01	4			1	Interpolat
_	CDIY-303M3-IMP-01				1	Interpolat
_	CDIB-450X-00				1	Interpolat
	CDIB-453X-00				1	Interpolat
	CDIB-650X-00				1	Interpolat
	CDIY-400X-C1-20	4			1	UUT8a,b
	CDIY-600X-C1-20	4			1	UUT8a,b
	CDIY-S1048-C1-20	_			1	Interpolat
	CDIY-APEX-21	_			2	Interpolat
	CDIB-VAXU-IMP-10	_			2	UUT8a,b
	PW-TR100VA002	_			4	UUT7a,b
	PW-PSB100AB10				5	UUT7a,b

Special Seismic Certification Table 8 - Certified Subcomponents

(()) DCL
DYNAMIC
CERTIFICATION
LABORATORIES,LLC

DCL Project Number: 05400-2501

Product Line: HVAC Cont	rol Panels and Network Switches					
Subcomponent Type	Model Number	Manufacturer	Material	Interior Mounting	Weight [lb.]	Unit
	NC-ONS-C401i				1	UUT4a,b
	NC-ONS-C801pi			Din Rail	2	UUT4a,b
	ONS-CR2420GT				3	Interpolated
Network Switch	NC-ONS-C1601pi	Optigo	Carbon Steel		3	UUT4a,b
	NC-ONS-C810p				4	UUT5a,b
	NC-ONS-C2401p			Rack	11	UUT5a,b
	NC-ONS-C4801p				14	UUT5a,b
	NC-ONS-YPS-8				<1	UUT4a,b
_	NC-ONS-YPS-4				<1	Interpolated
_	NC-ONS-YPG-1				<1	Interpolated
_	NC-ONS-YPG-2				<1	Interpolated
	NC-ONS-YPG-4				<1	Interpolated
_	NC-ONS-YPS-16	DCODE			<1	Interpolated
_	NC-ONS-YPD-2	KCODL	COMPL		<1	Interpolated
_	NC-ONS-YPD-4		MA		<1	Interpolated
_	NC-ONS-YPD-8				<1	Interpolated
_	NC-ONS-YPG-6	THE Y (MAY A V			<1	Interpolated
_	NC-ONS-YPG-8		/-////////////////////////////////////	7	<1	Interpolated
	NC-ONS-YRS-8	000 050			<1	Interpolated
	NC-ONS-YRS-16	USP-058	33		<1	Interpolated
	NC-ONS-YRS-32			1,,,	<1	Interpolated
_	NC-ONS-YPS-2				<1	UUT4a,b
_	NC-ONS-YPS-2-A05	lohammad	Karim	0	<1	Interpolated
_	NC-ONS-YPS-2-A10				<1	Interpolated
_	NC-ONS-YPS-2-A15				<1	Interpolated
	NC-ONS-YPS-3-A10	E: 05/06/2	2025		<1	Interpolated
Optical Switch	NC-ONS-YPS-2-L	Optigo	Carbon Steel	Din Rail	<1	Interpolated
_	NC-ONS-YPS-2-A05-L			9/	<1	Interpolated
_	NC-ONS-YPS-2-A05-LR			//	<1	Interpolated
_	NC-ONS-YPS-2-A10-L				<1	Interpolated
_	NC-ONS-YPS-2-A10-LR				<1	Interpolated
_	NC-ONS-YPS-2-A15-L	TAIN THE TAIN	JG CO		<1	Interpolated
_	NC-ONS-YPS-2-A15-LR	שוח ווחב			<1	Interpolated
_	NC-ONS-YPS-3-A10-L NC-ONS-YPS-3-A10-LR				<1	Interpolated
					<1	Interpolated
	NC-ONS-YPS-4-L NC-ONS-YPS-8-L				<1	Interpolated
_	NC-ONS-YPG-1-L				<1	Interpolated Interpolated
_	NC-ONS-TPG-1-L NC-ONS-YPG-2-L					
_	NC-ONS-YPG-4-L				<1	Interpolated Interpolated
_	NC-ONS-YPG-6-L				<1	Interpolated
_	NC-ONS-YPG-8-L				<1	Interpolated
_	NC-ONS-YPS-16-L				<1	Interpolated
_	NC-ONS-YRD-8				4	Interpolated
_	NC-ONS-YRD-16				4	Interpolated
	NC-ONS-YRD-32				4	Interpolated
	NC-ONS-IND-52 NC-ONS-NC-600				9	UUT5a,b
Network Controller	NC-ONS-S8	Optigo	Carbon Steel	Rack	10	UUT5a,b
Display	Ecx-Display	Distech	Plastic	Cover	<1	UUT3a,b
2.0p.uy	AXM-10-12-0	2.3.0011	. 105110	20701	<1	UUT2a,b
I/O Expansion	AXM-10-12-0	Alerton	Plastic	Din Rail	<1	Interpolated
Module	AXM-22-0-0			un Kail	<1	UUT2a,b
Battery	ACM-BATT	Alerton	Plastic	Din Rail	<1	UUT4a,b
	· · · · · · · · · · · · · · · · · · ·	1	1	1	<u> </u>	1

Special Seismic Certification Table 9 - Certified Subcomponents



	ntrol Panels and Network Swi		Manufastura	Material	Interior Manuativ	Weight	11-24
Subcomponent Type	Model Number	Description	Manufacturer	Material	Interior Mounting	[lb.]	Unit
Network Gateway	BB3-7101	Modbus to Bacnet Gateway	Babel Buster	Carbon Steel	Din Rail	2	UUT8a,b
	RE-12DC-SPDT	12 VDC Relay				<1	UUT8a,b
	RE-RT78724	12 VDC Relay	Distech			<1	UUT8a,b
	RE-PTML0024	LED Module				<1	UUT8a,b
Relays	VMD1B-F24A	24VAC SPDT Relay		Plastic	Back Panel	<1	UUT1a,b
ĺ	VMD2B-F24A	24VAC DPDT Relay			Buck Furier	<1	Interpolated
	RIBMN24S	Smoke Relay	Veris			<1	UUT4a,b
	VMD3B-F24A	24VAC 3PDT Relay				1	UUT2a,b
	VMD4B-C24A	24VAC 4PDT Relay				1	UUT2a,b
Router	BASRT-B	BACnet 5 BBMD Capacity	Contemporary	Carbon Steel	Din Rail	<1	Extapolated ²
	BASRTLX-B	BACnet 50 BBMD Capacity	Controls	00.205100.	5	<1	UUT2a,b
	1085254	10/100/1000 Mbps 5 Port	Phoenix Contact	Plastic	Din Rail	<1	Extrapolated
	1085243	0/100/1000 Mbps 8 Port	Thoenix contact	riastic	Birritan	<1	UUT8a,b
Ethernet Switch	EISK5-GT/H	5 Port Ethernet Switch Gigabit	Contemporary			1	Interpolated ³
	EIGR-C3	4 Port Cellular IP Router	Controls	Carbon Steel	Din Rail	1	Interpolated ³
	EISK8-GT/H	8 Port Ethernet Switch Gigabit		1/0.		1	UUT2a,b
	TB600PAC1	Power Cable		Copper, Plastic	N/A	<1	UUT8a,b
Cellular Router	TB4GM2-3M	Tosibox Antenna Kit	Tosibox			<1	UUT8a,b
	TBL670US	Tosibox Lock 670 (90 Mb/s)	**************************************	Carbon Steel	Din Rail	1	UUT8a,b
	1810/003	Ethernet, Cellular	0.583			1	00184,0
Fiber	EISK8M-100T/FCS	6 Port 10 / 100Mbps / 2 port 100 Mbps MM SC-Fiber	Contemporary Controls	Carbon Steel	Din Rail	1	UUT2a,b
	PS5R-VB05	120V/24VDC 10 W Slim Style				<1	UUT2a,b
DC Dower Supply	PS5R-VB24	120V/24VDC 15 W Slim Style	nmad Kari	Plastic	Din Rail	<1	Interpolated
DC Power Supply	PS5R-VC24	120V/24VDC 30 W Slim Style	IDEC	Plastic	Dili Kali	<1	UUT2a,b
	PS5R-VD24	120V/24VDC 60 W Slim Style				<1	UUT4a,b
	NC-ACC-PS-24V10W	Power Supply	0/06/2025 Optigo	Carbon Steel	Din Rail	<1	UUT4a,b
	NC-ACC-PS-48V300W	rower supply	Optigo	Carbon Steel	Dili Kali	2	UUT4a,b
	X050COB	120/208/240/277/480 ¹	Veris	Copper Winding	Pack Danel	3	UUT1a,b
AC Power Supply	X100CBB	120/208/240/277/480 ¹	veris	Copper Winding	Back Panel	4	UUT2a,b
	PSH100AB10	120VAC to 24VAC Power Supply			Back Panel	5	Interpolated ³
	PSH100A100AB10	w/Receptacle 120VAC to 24VAC Dual Power	Functional Devices	Carbon Steel		9	UUT2a,b
	DTK-120HW	Supply 19.5KA	DING '			<1	UUT2a,b
Surge Protector	DTK-120SRD	54KA	DITEK	Plastic	Din Rail	<1	UUT2a,b
	PX3ULX05	JARA	Veris	Plastic	Back Panel	<1	UUT4a,b
Pressure Transmitter	2671-001WD-11-A1-FD	Differential Pressure Transmitter	Setra	Plastic	Back Panel	<1	UUT2a,b
	BAS34U24V		CyberPower	Plastic	Din Rail	3	UUT3a,b
	SDU500B	-	Cyberrower	Flastic	Dili Kali	11	UUT8a,b
UPS		Uninterruptable Power Supply	SOLA	Carbon Steel	Back Panel		-
	SDU500	-	ADC	Carbon Steel	Dack Fallel	11	UUT2a,b
	SUA500PDR-S		APC			28	UUT3a,b
Cooling Fan	HF0424414	Side-Mount Filter Fans	Hoffman	Plastic	Side Panel	1	UUT3a,b
	HF0924414					2	UUT4a,b
Static Switch	AFS-460	Manual Reset Static Switch	Cleveland Controls	Carbon Steel	Back Panel	1	UUT2a,b
Circuit Breaker	UMBW-1B1-2	1POLE 2AMP	WEG Ind	Plastic	Din Rail	1	UUT2a,b
Plug	SYS1357-2412	AC adapter for 1214E Eth. Extender	Patton	Carbon Steel	Back Panel	2	UUT2a,b
		1100		·	· · · · · · · · · · · · · · · · · · ·	·	

^{1.} Transformer does not change based on input voltage, different input taps are used.

^{2.} Same as tested in UUT2a,b (software change only).

^{3.} Depopulated version of item tested in UUT2a,b.

Special Seismic Certification Table 10 - Tested Units



DCL Project Number: 05400-2501

Manufacturer: Climatec

Product Line: HVAC Control Panels and Network Switches

Mounting: Rigid or Flexibly Wall Mounted

Certified Seismic Levels: Sds 2.0g at z/h=1.0 and Sds 2.5g at z/h=0

Madal Number	Nama Datina		Dimensions [in.]		Weight	Manustina	DCL Test Report	Unit
Model Number	Nema Rating	Length	Width	Height	[lb.]	Mounting	Number	Unit
FCU-1800	1	4.0	12.0	14.0	17	Rigid Wall	05416-1801	UUT1
FCU-1800	1	4.0	12.0	14.0	17	Isolated Wall	05416-1801	UUT1
NET-1101	N/A	17.5	23.5	14.5	34	Rigid Wall (Rack)	00211-2001	UUTE
NET-1101	N/A	17.5	23.5	14.5	34	Isolated Wall (Rack)	00211-2001	UUTE
NET-1100	N/A	17.5	23.5	14.5	63	Rigid Wall (Rack)	00211-2001	UUTS
NET-1100	N/A	17.5	23.5	14.5	63	Isolated Wall (Rack)	00211-2001	UUTS
SMK-1100	4 & 12	8.3	23.6	23.6	68	Rigid Wall	05400-2501	UUT
SMK-1100	4 & 12	8.3	23.6	23.6	68	Isolated Wall	05400-2501	UUT
HHW-1100	4 & 12	11.0	24.0	24.0	75	Rigid Wall	00211-2001	UUTS
HHW-1100	4 & 12	11.0	24.0	24.0	75	Isolated Wall	00211-2001	UUTS
AHU-1800	4	9.0	36.0	48.0	200	Rigid Wall	05416-1801	UUT
AHU-1800	4	9.0	36.0	48.0	200	Isolated Wall	05416-1801	UUT
CHW-1100	4 & 12	11.0	36.0	48.0	205	Rigid Wall	00211-2001	UUT
CHW-1100	4 & 12	11.0	36.0	48.0	205	Isolated Wall	00211-2001	UUT4
CHW-1200	4 & 12	8.3	35.5	47.3	214	Rigid Wall	05400-2501	UUT
CHW-1200	4 & 12	1 ,8.3	35.5	47.3	214	Isolated Wall	05400-2501	UUT

BY: Mohammad Karim

DATE: 05/06/2025

UUT1a

(()) DCL

DCL Repot Number: 05416-1801

Manufacturer: Climatec

Product Line: HVAC Control Panels and Network Switches

Model Number: FCU-1800

Product Construction Summary: Powder coated carbon steel panel, NEMA rating 1

Options / Component Summary:

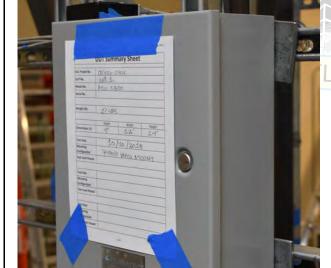
Controller, relay

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained.

UUT	Properties	
-		

Operating Weight		ons (inches)	Lowest Natural Frequency (Hz)								
(lb)	Depth	epth Width		Height		Front-Back	Side-Side	Vertical			
17	4.0	12	12.0		4.0	N/A	N/A	N/A			
Seismic Test Parameters											
Building Code	Test Criteria	Sds (g)	z/h	lp l	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)			
CBC 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	N/A	N/A			
CBC 2022	ICC-ES ACISO	2.50	0.00	-0583	N/A	N/A	1.67	0.67			

Unit Mounting Description: Rigid wall mount: UUT1a was mounted to the wall fixture, and the wall fixture was rigidly mounted to the shake table. The unit was mounted with (4) 1/4" Grade 5 bolts with a washer and a 3" x 3" x 3/16" low carbon steel plate washer spaced 11" on center in the horizontal direction and 11" on center in the vertical direction.





Overall view of UUT1a

UUT1b

DCL Repot Number: 05416-1801

Manufacturer: Climatec

Product Line: HVAC Control Panels and Network Switches

Model Number: FCU-1800

Product Construction Summary: Powder coated carbon steel panel, NEMA rating 1

Options / Component Summary:

Controller, relay

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained.

UUT Propertie	ς
---------------	---

Operating Weight		Dimensi	ons (inche	Lowest Natural Frequency (Hz)								
(lb)	Depth	Width		Height		Front-Back	Side-Side	Vertical				
17	4.0	12.0			14.0	N/A	N/A	N/A				
	Seismic Test Parameters											
Building Code	Test Criteria	Sds (g)	z/h	lp	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)				
CBC 2022	ICC-ES AC156	2.00	1.0		3.20	2.40	N/A	N/A				
CBC 2022	ICC-ES AC150	////		1.5	· · · · · · · · · · · · · · · · · · ·							

Unit Mounting Description: Flexible wall mount: UUT 1b was mounted to the wall fixture, and the wall fixture was mounted atop VMC Group isolators (model number: MSSH-1E-1700N) mounted to the DCL shake table. The unit was mounted to the wall fixture with (4) 1/4" Grade 5 bolts with a washer and a 3" x 3" x 3/16" low carbon steel plate washer spaced 11" on center in the horizontal direction and 11" on center in the vertical direction.

N/A

0.00



2.50





N/A

1.67

0.67

Overall view of UUT1b

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UUT6a

(()) DCL
DYNAMIC
CERTIFICATION

DCL Repot Number: 00211-2001

Manufacturer: Climatec

Product Line: HVAC Control Panels and Network Switches

Model Number: NET-1101

Product Construction Summary: Powder coated carbon steel panel

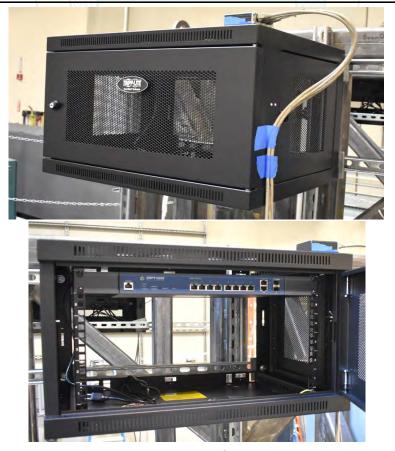
Options / Component Summary:

Network switch, network controller

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained.

			UUT	Properties				
Operating Weight		Dimensi	ons (inches	Lowest N	latural Frequer	ncy (Hz)		
(lb)	Depth	Width		Height		Front-Back	Side-Side	Vertical
34	17.5	23	23.5		N/A	N/A	N/A	
		(6)	Seismic Te	est Paramet	ters			
Building Code	Test Criteria	Sds (g)	z/h	lp	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)
CBC 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	N/A	N/A
CBC 2022	ICC-ES ACISO	2.50	0.00	0.500	N/A	N/A	1.67	0.67

Unit Mounting Description: Rigid wall mount (rack mounted in SRW6U Tripp Lite enclosure): UUT 6a rack was mounted to the wall fixture, and the wall fixture was rigidly mounted to the shake table. The rack was mounted to the wall fixture with (4) 5/16" Grade 5 bolts with a washer and a 3" x 3" x 1/4" low carbon steel plate washer spaced 21.5" on center in the horizontal direction and 10.8" on center in the vertical direction.



Overall view of UUT6a

UUT6b

DYNAMIC CERTIFICATION LABORATORIES,LLC

DCL Repot Number: 00211-2001

Manufacturer: Climatec

Product Line: HVAC Control Panels and Network Switches

Model Number: NET-1101

Product Construction Summary: Powder coated carbon steel panel

Options / Component Summary:

Network switch, network controller

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained.

UUT Properties

Operating Weight		Dimensions (inches	Lowest Natural Frequency (Hz)			
(lb)	Depth Width H			Front-Back	Side-Side	Vertical
34	17.5	23.5	JUE 14.5	N/A	N/A	N/A

Seismic Test Parameters

Building Code	Test Criteria	Sds (g)	z/h	lp (Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)
CBC 2022	ICC-ES AC156	2.00	1.0	W /1/E	3.20	2.40	N/A	N/A
CBC 2022	ICC-L3 AC130	2.50	0.00	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	N/A	N/A	1.67	0.67

Unit Mounting Description: Flexible wall mount (rack mounted in SRW6U Tripp Lite enclosure): UUT 6b rack was mounted to the wall fixture, and the wall fixture was mounted atop VMC Group isolators (model number: MSSH-1E-1700N) mounted to the DCL shake table. The rack was mounted to the wall fixture (4) 5/16" Grade 5 bolts with a washer and a 3" x 3" x 1/4" low carbon steel plate washer spaced 21.5" on center in the horizontal direction and 10.8" on center in the vertical direction.







Overall view of UUT6b

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UUT5a

DYNAMIC

DCL Repot Number: 00211-2001

Manufacturer: Climatec

Product Line: HVAC Control Panels and Network Switches

Model Number: NET-1100

Product Construction Summary: Powder coated carbon steel panel

Options / Component Summary:

Network switches, network controllers

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained.

UU	ΙT	Dri	nna	orti	oc
-	•	rıv	,,,	-, ,,	C 3

Operating Weight		Dimensi	ons (inches	s)		Lowest Natural Frequency (Hz)						
(lb)	Depth Width		dth		eight	Front-Back	Side-Side	Vertical				
63	17.5	23.5			4.5	N/A	N/A	N/A				
	Seismic Test Parameters											
Building Code	Test Criteria	Sds (g)	z/h	İp	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)				
CDC 2022	ICC ES AC1EC	2.00	1.0		3.20	2.40	N/A	N/A				
CBC 2022	ICC-ES AC156	2 50	0.00	1.5	N/A	N/A	1.67	0.67				

Unit Mounting Description: Rigid wall mount (rack mounted in SRW6U Tripp Lite enclosure): UUT 5a rack was mounted to the wall fixture, and the wall fixture was rigidly mounted to the shake table. The rack was mounted to the wall fixture with (4) 5/16" Grade 5 bolts with a washer and a 3" x 3" x 1/4" low carbon steel plate washer spaced 21.5" on center in the horizontal direction and 10.8" on center in the vertical direction.





Overall view of UUT5a

UUT5b

DCL Repot Number: 00211-2001

Manufacturer: Climatec

Product Line: HVAC Control Panels and Network Switches

Model Number: NET-1100

Product Construction Summary: Powder coated carbon steel panel

Options / Component Summary:

Network switches, network controllers

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained.

UUT Properties

Operating Weight		Dimensions (inches	Lowest Natural Frequency (Hz)							
(lb)	Depth	Width	Height	Front-Back	Side-Side	Vertical				
63	17.5	23.5 R	JDF 14.5	N/A	N/A	N/A				
Seismic Test Parameters										

Building Code	Test Criteria	Sds (g)	z/h	lp	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)
CBC 2022	ICC-ES AC156	2.00	1.0	MA N	3.20	2.40	N/A	N/A
	ICC-ES ACISO	2.50	0.00	1.5	N/A	N/A	1.67	0.67

Unit Mounting Description: Flexible wall mount (rack mounted in SRW6U Tripp Lite enclosure): UUT 5b rack was mounted to the wall fixture, and the wall fixture was mounted atop VMC Group isolators (model number: MSSH-1E-1700N) mounted to the DCL shake table. The rack was mounted to the wall fixture (4) 5/16" Grade 5 bolts with a washer and a 3" x 3" x 1/4" low carbon steel plate washer spaced 21.5" on center in the horizontal direction and 10.8" on center in the vertical direction.







Overall view of UUT5b

UUT7a

DCL Repot Number: 05400-2501

Manufacturer: Climatec

Product Line: HVAC Control Panels and Network Switches

Model Number: SMK-1100

Product Construction Summary: Powder coated carbon steel panel, NEMA rating 4 & 12

2.50

Options / Component Summary:

Controllers

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained.

UUT Proper	ties
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Operating Weight		Dimensi	Lowest Natural Frequency (Hz)									
(lb)	(lb) Depth Width Height		Front-Back	Side-Side	Vertical							
68	8.3	23.6		AND COLOR	23.6	N/A	N/A	N/A				
	Seismic Test Parameters											
Building Code	Test Criteria	Sds (g)	z/h	lp	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)				
CBC 2022	ICC FC AC1FC	2.00	1.0		3.20	2.40	N/A	N/A				
CBC 2022	ICC-ES AC156	7111		1.5	· · · · · · · · · · · · · · · · · · ·							

Unit Mounting Description: Rigid wall mount: UUT7a was wall mounted to the DCL wall fixture using (4) 3/8" Grade 5 bolts, flat washers, 1 5/8 x 1 5/8 x ½" carbon steel plate washers and channel nuts. The bolts were spaced approximately 22" apart in x and z-directions measured on-center. The wall fixture was rigidly mounted to the shake table.

N/A

DATE: 05/06/2025

0.00





N/A

1.67

0.67

Overall view of UUT7a

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UUT7b

DCL Repot Number: 05400-2501

Manufacturer: Climatec

Product Line: HVAC Control Panels and Network Switches

Model Number: SMK-1100

Product Construction Summary: Powder coated carbon steel panel, NEMA rating 4 & 12

Options / Component Summary:

Controllers

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained.

UUT	Properties

Operating Weight		Dimensi	ons (inche	Lowest Natural Frequency (Hz)				
(lb)	Depth	Width		Height		Front-Back	Side-Side	Vertical
68	8.3	23.6		MAXXXXX	23.6	N/A	N/A	N/A
			Seismic 1	est Parame	eters //			
Building Code	Test Criteria	Sds (g)	z/h	lp lp	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)
	/ 5	2.00	1.0	- ** (XXX X**)	3.20	2.40	N/A	N/A

 Building Code
 Test Criteria
 Sds (g)
 z/h
 Ip
 Aflx-H (g)
 Arig-H (g)
 Aflx-V (g)
 Arig-V (g)

 CBC 2022
 ICC-ES AC156
 2.00
 1.0
 1.5
 3.20
 2.40
 N/A
 N/A

 N/A
 N/A
 N/A
 N/A
 1.67
 0.67

Unit Mounting Description: Isolated wall mount: UUT7b was wall mounted to the DCL wall fixture using (4) 3/8" Grade 5 bolts, flat washers, $15/8 \times 15/8 \times 1$ " carbon steel plate washers and channel nuts. The bolts were spaced approximately 22" apart in x and z-directions measured on-center. The wall fixture was mounted to the shake table using (4) VMC MSSH-1E-650 spring isolators.





Overall view of UUT7b

UUT3a

DCL Repot Number: 00211-2001

Manufacturer: Climatec

Product Line: HVAC Control Panels and Network Switches

Model Number: HHW-1100

Product Construction Summary: Powder coated carbon steel panel, NEMA rating 4 & 12

Options / Component Summary:

Controller, display, UPS, cooling fan

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained.

		001	Properties			
Operating Weight		Dimensions (inches	Lowest Natural Frequency (Hz)			
(lb)	Depth	Width	Height	Front-Back	Side-Side	Vertical
75	11.0	24.0	24.0	N/A	N/A	N/A
		Seismic 1	est Parameters			
						ſ

Building Code	Test Criteria	Sds (g)	z/h	lp l	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)
CBC 2022	ICC-ES AC156	2.00	1.0	1.5 -0583	3.20	2.40	N/A	N/A
		2.50	0.00		N/A	N/A	1.67	0.67

Unit Mounting Description: Rigid wall mount: UUT 3a was mounted to the wall fixture, and the wall fixture was rigidly mounted to the shake table. The unit was mounted to the wall fixture with (4) 3/8" Grade 5 bolts with a washer and a 3" x 3" x 1/4" low carbon steel plate washer spaced 22.5" on center in the horizontal direction and 22.5" on center in the vertical direction.

DATE: 05/06/2025





Overall view of UUT3a

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UUT3b

DCL Repot Number: 00211-2001

Manufacturer: Climatec

Product Line: HVAC Control Panels and Network Switches

Model Number: HHW-1100

Product Construction Summary: Powder coated carbon steel panel, NEMA rating 4 & 12

Options / Component Summary:

Controller, display, UPS, cooling fan

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained.

			UUT	Properties				
Operating Weight		Dimensi	ons (inches	Lowest Natural Frequency (Hz)				
(lb)	Depth	Wid	Width			Front-Back	Side-Side	Vertical
75	11.0	24.0		24.0		N/A	N/A	N/A
			Seismic T	est Paramet	ers //			
Building Code	Test Criteria	Sds (g)	z/h	lp\	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)
CBC 2022 ICC-ES AC1	ICC ES AC1E6	2.00	1.0	1.5	3.20	2.40	N/A	N/A
	ICC-E3 AC136	2.50	0.00	-0583	N/A	N/A	1.67	0.67

Unit Mounting Description: Flexible wall mount: UUT 3b was mounted to the wall fixture, and the wall fixture was mounted atop VMC Group isolators (model number: MSSH-1E-1700N) mounted to the DCL shake table. The unit was mounted to the wall fixture (4) 3/8" Grade 5 bolts with a washer and a 3" x 3" x 1/4" low carbon steel plate washer spaced 22.5" on center in the horizontal direction and 22.5" on center in the vertical direction.





Overall view of UUT3b

UUT2a

DCL Repot Number: 05416-1801

Manufacturer: Climatec

Product Line: HVAC Control Panels and Network Switches

Model Number: AHU-1800

Product Construction Summary: Powder coated carbon steel panel, NEMA rating 4

Options / Component Summary:

Controller, relay, I/O expansion modules, relays, router, ethernet switch, fiber, power supplies, surge protectors, pressure transmitter, UPS, static switch, circuit breaker, plug

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained.

UUT Properties										
Operating Weight		Dimensi	ons (inches	Lowest Natural Frequency (Hz)						
(lb)	Depth	Wid	Width			Front-Back	Side-Side	Vertical		
200	9.0	36.0		48.0		N/A	N/A	N/A		
			Seismic T	est Paramet	ers //					
Building Code	Test Criteria	Sds (g)	z/h	lp\	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)		
CDC 2022 ICC FC AC1	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	N/A	N/A		
CBC 2022	ICC-L3 ACI30	2.50	0.00		N/A	N/A	1.67	0.67		

Unit Mounting Description: Rigid wall mount: UUT 2a was mounted to the wall fixture, and the wall fixture was rigidly mounted to the shake table. The unit was mounted to the wall fixture with (4) 3/8" Grade 5 bolts with a washer and a 3" x 3" x 3/16" low carbon steel plate washer spaced 30" on center in the horizontal direction and 49.5" on center in the vertical direction.





Overall view of UUT2a

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UUT2b

DCL Repot Number: 05416-1801

Manufacturer: Climatec

Product Line: HVAC Control Panels and Network Switches

Model Number: AHU-1800

Product Construction Summary: Powder coated carbon steel panel, NEMA rating 4

Options / Component Summary:

Controller, relay, I/O expansion modules, relays, router, ethernet switch, fiber, power supplies, surge protectors, pressure transmitter, UPS, static switch, circuit breaker, plug

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained.

UUT Properties										
Operating Weight		Lowest N	latural Frequer	ıcy (Hz)						
(lb)	Depth	Wie	Width			Front-Back	Side-Side	Vertical		
200	9.0	36.0		48.0		N/A	N/A	N/A		
			Seismic Te	est Paramet	ers //					
Building Code	Test Criteria	Sds (g)	z/h	lp l	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)		
CBC 2022 ICC-ES AC156	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	N/A	N/A		
CBC 2022	ICC-L3 AC130	2.50	0.00	-0583	N/A	N/A	1.67	0.67		

Unit Mounting Description: Flexible wall mount: UUT 2b was mounted to the wall fixture, and the wall fixture was mounted atop VMC Group isolators (model number: MSSH-1E-1700N) mounted to the DCL shake table. The unit was mounted to the wall fixture (4) 3/8" Grade 5 bolts with a washer and a 3" x 3" x 3/16" low carbon steel plate washer spaced 30" on center in the horizontal direction and 49.5" on center in the vertical direction.





Overall view of UUT2b

UUT4a

DCL Repot Number: 00211-2001

Manufacturer: Climatec

Product Line: HVAC Control Panels and Network Switches

Model Number: CHW-1100

Product Construction Summary: Powder coated carbon steel panel, NEMA rating 4 & 12

Options / Component Summary:

Controllers, network switches, optical switches, battery, relay, power supplies, pressure transmitter, cooling fan

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained.

UUT Properties										
Operating Weight		Dimensi	ons (inches	Lowest Natural Frequency (Hz)						
(lb)	Depth	Wid	Width			Front-Back	Side-Side	Vertical		
205	11.0	36	.0)	48.0		N/A	N/A	N/A		
			Seismic T	est Paramet	ers //					
Building Code	Test Criteria	Sds (g)	z/h	lp\	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)		
CDC 2022 ICC FC AC1	ICC-ES AC156	2.00	1.0	1.5 2-0583	3.20	2.40	N/A	N/A		
CBC 2022	ICC-L3 ACI30	2.50	0.00		N/A	N/A	1.67	0.67		

Unit Mounting Description: Rigid wall mount: UUT 4a was mounted to the wall fixture, and the wall fixture was rigidly mounted to the shake table. The unit was mounted to the wall fixture with (4) 3/8" Grade 5 bolts with a washer and a 3" x 3" x 1/4" low carbon steel plate washer spaced 34.5" on center in the horizontal direction and 46" on center in the vertical direction.





Overall view of UUT4a

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UUT4b

DCL Repot Number: 00211-2001

Manufacturer: Climatec

Product Line: HVAC Control Panels and Network Switches

Model Number: CHW-1100

Product Construction Summary: Powder coated carbon steel panel, NEMA rating 4 & 12

Options / Component Summary:

Controllers, network switches, optical switches, battery, relay, power supplies, pressure transmitter, cooling fan

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained.

UUT Properties Dimensions (inches) Lowest Natural Frequency (Hz) Operating Weight (lb) Width Depth Height Front-Back Side-Side Vertical 205 11.0 36.0 48.0 N/A N/A N/A **Seismic Test Parameters Building Code Test Criteria** Sds (g) z/h lp Aflx-H (g) Arig-H (g) Aflx-V (g) Arig-V (g) 2.00 1.0 3.20 2.40 N/A N/A **CBC 2022** ICC-ES AC156 1.5 2.50 N/A N/A 1.67 0.67 0.00

Unit Mounting Description: Flexible wall mount: UUT 4b was mounted to the wall fixture, and the wall fixture was mounted atop VMC Group isolators (model number: MSSH-1E-1700N) mounted to the DCL shake table. The unit was mounted to the wall fixture (4) 3/8" Grade 5 bolts with a washer and a 3" x 3" x 1/4" low carbon steel plate washer spaced 34.5" on center in the horizontal direction and 46" on center in the vertical direction.



Overall view of UUT4b

UUT8a

DCL Repot Number: 05400-2501

Manufacturer: Climatec

Product Line: HVAC Control Panels and Network Switches

Model Number: CHW-1200

Product Construction Summary: Powder coated carbon steel panel, NEMA rating 4 & 12

2.50

Options / Component Summary:

Controllers, network gateway, relays, ethernet switch, cellular router, UPS

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained.

			UUT	Properties				
Operating Weight		Dimensi	ons (inches	5)		Lowest Natural Frequency (Hz)		
(lb)	Depth	Wid	Width			Front-Back	Side-Side	Vertical
214	8.3	35	.5	47.3		N/A	N/A	N/A
			Seismic T	est Parame	ters //			
Building Code	Test Criteria	Sds (g)	z/h	lp\	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)
CBC 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	N/A	N/A
CBC 2022	ICC-E3 AC130	////		1.5	XXX		4.6-	

Unit Mounting Description: Rigid wall mount: UUT8a was wall mounted to the DCL wall fixture using (4) 3/8" Grade 5 bolts, flat washers, 1 5/8 x 1 5/8 x ½" carbon steel plate washers and channel nuts. The bolts were spaced approximately 33 ½" apart in x-direction and 45 ½" apart in z-direction measured on-center. The wall fixture was rigidly mounted to the shake table.

N/A

0.00





N/A

1.67

Overall view of UUT8a

UUT8b

DCL Repot Number: 05400-2501

Manufacturer: Climatec

Product Line: HVAC Control Panels and Network Switches

Model Number: CHW-1200

Product Construction Summary: Powder coated carbon steel panel, NEMA rating 4 & 12

Options / Component Summary:

Controllers, network gateway, relays, ethernet switch, cellular router, UPS

Note: The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component attachment system and force-resisting systems was maintained.

UUT Properties

Operating Weight		Dimensions (inches	Lowest Natural Frequency (Hz)			
(lb)	Depth	Width	Height	Front-Back	Side-Side	Vertical
214	8.3	35.5	47.3	N/A	N/A	N/A
		Seismic 1	est Parameters			
Building Code	Test Criteria	Sds (g) z/h	lp Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)

Building Code	Test Criteria	Sds (g)	z/h	lp l	Aflx-H (g)	Arig-H (g)	Aflx-V (g)	Arig-V (g)
CBC 2022	ICC-ES AC156	2.00	1.0	1.5 -0583	3.20	2.40	N/A	N/A
		2.50	0.00		N/A	N/A	1.67	0.67

Unit Mounting Description: Isolated wall mount: UUT8b was wall mounted to the DCL wall fixture using (4) 3/8" Grade 5 bolts, flat washers, 1 5/8 x 1 5/8 x ½" carbon steel plate washers and channel nuts. The bolts were spaced approximately 33 ½" apart in x-direction and 45 ½" apart in z-direction measured on-center. The wall fixture was mounted to the shake table using (4) VMC MSSH-1E-650 spring isolators.





Overall view of UUT8b