

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 X 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@clima	tec.com
Product Information	
Product Name: HVAC Control Panels and Network Switches	
Product Model Number(s): See attached	E.
Product Category: Industrial Control Panels OSP-0583	i i i i i i i i i i i i i i i i i i i
Product Sub-Category: HVAC Control Panels	
General Description: Control panels containing transformer, PCB cor SRW6U required for some installations; see UL	ntrollers, relays, and switches. Tripp Lite Wall Rack JT Sheets and end of OSP for rack reference.
Mounting Description: Units are rigid or flexibly wall mounted 06/202	25
Tested Seismic Enhancements: None	S'
Applicant Information	
Applicant Company Name: DCL Labs, LLC	600
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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OSP-0583



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Seismic Parameters

Design Basis of Equipment or Components	s (Fp/Wp) = 1.44 (SDS=2.00, z/h=1), 1.13 (SDS=2.50, z/h=0)
SDS (Design spectral response accele	eration at short period, g) = $2.0 @ z/h = 1.0; 2.5 @ z/h=0$
ap (Amplification factor) =	1.0
Rp (Response modification factor) =	2.5
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
	NEDFO
HCAI Approval (For Office Use Only) -	
Date: <u>5/6/2025</u>	OSP-0583
Name: Mohammad Karim	Title: Supervisor, Health Facilities
Special Seismic Certification Valid Up to: SE	ps (g) = 2.0 z/h = 1
Condition of Approval (if applicable):	DATE: 05/06/2025
	OPNIA BUILDING CODE



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OSP-0583

Special Seismic Certification Table 1 - Certified Components



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

ified Seismic Levels: Sds 2.0	g at z/n=1.0 and Sds 2.5	g at z/n=0				
Model Number		Dimensions [in.]		Weight	Mounting	Unit
Model Number	Depth	Width	Height	[lb.]	Woulding	ome
			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	Rigid and Isolated Wall	UUT3a,b
aaa-XXXX	9.0-10.0	24.0-36.0	24.0-48.0	75 - 130	Rigiu anu isolateu wali	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) F	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	Pack Mounted (Digid 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		UUT5a,b



Special Seismic Certification 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
	СНЖ	Chilled Water System	UUT4a,b, UU8a,b
	ннพ	Heating Hot Water System	UUT3a,b
	FCU	Fan Coil Unit	UUT1a,b
aaa ¹	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

Mohammad Karim

05/06/

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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	manufacturer	Rating	Height	Width	Depth	Guuge	Material	[lb.]						
	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		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					
	A-12N128 + A12N12P	NK.	1, 4	12	12	8	16		17	Interpolated					
	A-16N126 + A16N12P		1, 4	16	12	6	16	Powder coated carbon steel	17	Interpolated					
	A-14N128M + A1412P		1, 4	14	12	8	16		18	Interpolated					
Enclosures	A-16H12ALP + A16P12	Hoffman	1, 4	16	12	6	16		21	Interpolated					
Eliciosures	A-16H12BLP + A16P12	Homman	1, 4	516-(15123	8	16		24	Interpolated					
	A-16H16ALP + A16P16		1, 4	16	16	6	16		29	Interpolated					
	A-20H16ALP + A20P1 <mark>6</mark>		1, 4	20	16	6	16		32	Interpolated					
	A-20H16BLP + A20P16		1,4/0	hazonn	nat K	arim	16		35	Interpolated					
	A-20H20ALP + A20P2 <mark>0</mark>		1, 4	20	20	6	16		37	Interpolated					
	A-20H20BLP + A20P2 <mark>0</mark>		1, 4	20	20	8	16		41	Interpolated					
	A-24H20ALP + A24P20		Δ1,4 -	245/()620()	25	16		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	P/	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, 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

Special Seismic Certification Table 4 - Certified Subcomponents

DCL Project Number: 05400-2501

(()) DCL DYNAMIC CERTIFICATION LABORATORIES,LLC

Cubeenmenent		twork Switches			Dimensions				Mainht	
Subcomponent Type	Model Number	Manufacturer	NEMA Rating	Uninht		Denth	Gauge	Material	Weight [lb.]	Unit
	CSD12106 + CP1210		4 & 12	Height 12	Width 10	Depth 6	18		14	Interpolated
	CSD12100 + CP1210		4 & 12	12	10	6	18	-	15	Interpolated
	CSD16126 + CP1612	4	4 & 12	12	12	6	18	ł	19	Interpolated
	CSD161210 + CP1612	4	4 & 12	16	12	10	16	ł	21	Interpolated
	CSD16128 + CP1612	4	4 & 12	16	12	8	18	ł	21	Interpolated
	CSD16166 + CP1616	1	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	1	4 & 12	20	20	8	18		30	Interpolated
	CSD20168 + CP2016	1	4 & 12	20	16	8	18	İ	32	Interpolated
	CSD24166 + CP2416	1	4 & 12	24	16	6	18	İ	34	Interpolated
	CSD20206 + CP2020	1	4 & 12	R 20	20	6	18	İ	36	Interpolated
	CSD202010 + CP2020	1	4 & 12	20	20	- 10/	16	İ	38	Interpolated
	CSD241610 + CP2416		4 & 12	24	16	10	16	1	39	Interpolated
	CSD162010 + CP1620	2.	4 & 12	16	20	10	16	Ι	42	Interpolated
	CSD24206 + CP2420		4 & 12	24	20	6	18		42	Interpolated
	CSD24168 + CP2416		4 & 12	24	16	8	18		44	Interpolated
	CSD242010 + CP2420	Hoffman	4 & 12	24 D	0 24 0 2	10	16	Powder coated carbon 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		m^{24} k	a 10	16		53	Interpolated
	CSD24248 + CP2424		4 & 12	24	24	8	16		53	Interpolated
	CSD302010 + CP3020		4 & 12	30	20	10	16		55	Interpolated
	CSD302410 + CP3024		4 & 12	- 24		10	16		65	Interpolated
	CSD30248 + CP3024		4 & 12	- 30		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		4 & 12	30	30	8	14	-	89	Interpolated
	CSD303010 + CP3030		4 & 12	30	30	10	14		93	Interpolated
	CSD482410 + CP4824		4 & 12	48	24	10	14		103	Interpolated
	CSD36308 + CP3630	1	4 & 12	36	30	8	14		109	Interpolated
	CSD363010 + CP3630	4	4 & 12	36	30	10	14		112	Interpolated
	CSD36368 + CP3636	4	4 & 12	36	36	8	14		122	Interpolated
	CSD363610 + CP3636	4	4 & 12	36	36	10	14		126	Interpolated
	CSD423610 + CP4236	4	4 & 12	42	36	10	14		150	Interpolated
	CSD483610 + CP4836		4 & 12	48	36	10	14	Devidence stad sould an	174	UUT4a,b
	SRW6U	Tripp Lite	N/A	15	24	18	14	Powder coated carbon steel	30	UUT5a,b, UUT6a,b
	WM161206NC	1	4 & 12	16	12	6	15		19	Interpolated
	WM161606NC	1	4 & 12	16	16	6	15	ļ	19	Interpolated
	WM242006NC	4	4 & 12	24	20	6	15	ļ	21	Interpolated
	WM162006NC	4	4 & 12	16	20	6	15	ļ	27	Interpolated
	WM201606NC	4	4 & 12	20	16	6	15		31	Interpolated
	WM241606NC	4	4 & 12	24	16	6	15	ł	35	Interpolated
	WM202006NC		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	4 & 12	30	24	8	15	ł	67	Interpolated
	WM303008NC	4	4 & 12	30	30	8	15	ł	88	Interpolated
	WM244208NC	4	4 & 12	24	42	8	12	ł	101	Interpolated
	WM363008NC	$\frac{1}{2}$	4 & 12	36	30	8	12	ł	110	Interpolated
	WM423008NC WM363608NC	4	4 & 12	42	30	8	12	ł	138	Interpolated
		1	4 & 12	36	36	8	12]	149	Interpolated

Special Seismic Certification Table 5 - Certified Subcomponents





bcomponent 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	Interpolate
	VLC-550				<1	Interpolated
	VLC-1600				<1	Interpolated
	VLC-16160				<1	Interpolate
	VLC-16160-S				<1	Interpolate
	VLC-853				<1	UUT1a,b
	VLC-660R				<1	Interpolate
	VLC-651R			Back Panel	<1	Interpolate
	VLC-1188-S				<1	Interpolate
	VLC-1188	r CODA			<1	UUT2a,b
	BTI-S		COMP		<1	Interpolated
	VLC-550-E		-VA		<1	
						Interpolated
	VLC-651R-E				<1	Interpolated
	VLC-660R-E			1	<1	Interpolated
	VLC-853-E	Alerton	Plastic	6	<1	Interpolate
	VLC-1188-E	OSP-058	33	2	<1	Interpolate
	VLC-1600-E			111	<1	Interpolate
	VLC16160-E				<1	Interpolate
	ALERVIEW-WHT	lohammad	Karim	Cover	<1	UUT4a,b
	ACM				<1	UUT2a,b
	VXIO-322-H <mark>OA (WEB</mark> -03022H) ¹				<1	UUT4a,b
	ES-EIS8-100T	F: 05/06/2	2025		<1	Interpolated
Controller	VGC-S	05/00/		· Y	<1	UUT7a,b
	VLC-1188-E-S			6	<1	Interpolated
	VLC-16160-E-S				<1	Interpolate
	VAV-DD7-E-S				<1	Interpolate
	VAV-SD-E-S			Din Rail	<1	Interpolated
	VLC16u8-IP-BLE		cov		1	UUT8a,b
	VLC8u8-IP	DITT	G		1	Interpolated
	VLC8u8-IP-BLE	and IInd			1	UUT8a,b
	VXIO-965-HOA (WEB-09056H) ¹				1	UUT4a,b
	VLC16u8-IP				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			<1	UUT7a,b
	XF821A	1			<1	UUT8a,b
		-				
	XF822A	-			<1	UUT8a,b
	XFR822A				<1	Interpolated
	XSU821-22				<1	Interpolated
	XF823A	l			<1	Interpolated
	XSU823	Honeywell	Plastic	Din Rail	<1	Interpolated
	XF824A	4			<1	Interpolated
	XFR824A	4			<1	UUT8a,b
	XFR825A	4			<1	Interpolate
	XSU824-25				<1	Interpolate
	XFU830A				<1	UUT8a,b
	XS830				<1	Interpolated
	10BASE-T1L-ADAPT	1		1	<1	UUT7a,b

Special Seismic Certification Table 6 - Certified Subcomponents



DCL Project Number: 05400-2501 Product Line: HVAC Control Panels and Network Switches

ubcomponent Type	Model Number	Manufacturer	Material	Interior Mounting	Weight [lb.]	Unit
	XS831				<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-03022H	-			1	UUT7a,b
	N-ADV-112-H-C	_			1	Interpolated
		- COD			1	
	N-ADV-133-H-C	RHoneywell	Blactic	Din Rail		Interpolated
	N-ADV-134-H-C	Honeyweir	Plastic	DIII Kali	1	UUT8a,b
	UN-RS0844ES24NMC		AND YON		1	Interpolated
	UN-RS0844TS24NMC				1	Interpolated
	UN-RS0844MS24NMC				1	UUT8a,b
	UN-RS0844ESB24NMC			7	1	Interpolated
	UN-RS0844TSB24NMC			5	1	Interpolated
	UN-RS0844MSB24NMC	05P-058	53		1	Interpolated
	UN-RL1 <mark>644ES24</mark> NMC			11.	1	Interpolated
	UN-RL1644TS24NMC	****			1	Interpolated
	UN-RL1644MS24NMC	lohammad	Karim		1	UUT8a,b
	UN-RL1 <mark>644ESB</mark> 24NMC				1	Interpolated
	UN-RL1 <mark>644TSB2</mark> 4NMC				1	Interpolated
	UN-RL1644MSB24NMC	E: 05/06/2	2025		1	Interpolated
Controller	WEB-HMI7/C	00/00/			2	UUT8a,b
	HMI-WL		CHERTHERE	O'/	<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		COV		<1	Extrapolated
	PXXDI-COMMSPK	RITTOTA	G		<1	Extrapolated
	PXXDI-COMINISER	POILDIN			<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	Interpolated
	CDIY-S1028-MS-00	1			<1	Interpolated
	CDIY-S1028ENVY-MS-00	1			<1	Interpolated
	CDIY-S1048-00	1			<1	Interpolated
	CDIY-S1048ENVY-00	1			<1	Interpolated
	CDIY-S1048-MS-00	4			<1	Interpolated
		1				
	CDIY-S1048ENVY-MS-00	Continued on nex			<1	Interpolate

Special Seismic Certification Table 7 - Certified Subcomponents

DCL Project Number: 05400-2501



bcomponent 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	Interpolate
	CDIY-4UI4UO-00				<1	Interpolate
	CDIY-4UI4UOHOA-00				<1	Interpolate
	CDIY-8UI6UO-00				<1	Interpolate
	CDIY-8UI6UOHOA-00				<1	Interpolate
	CDIY-8UI6DOT-00				<1	Interpolat
	CDIY-8UI6DOTHOA-00				<1	Interpolat
	CDIY-16DI-00				<1	Interpolate
	CDIY-6UO-00	COD			<1	Interpolate
	CDIY-6UOHOA-00	RLUDE			<1	Interpolate
	CDIB-103X-01		CONIDI		<1	UUT3a,b
	CDIDI-BOS8USWIFI		VIS.		<1	UUT4a,b
	CDIB-203X-00				<1	UUT4a,b
	CDIB-2038-00				<1	Interpolate
	CDIB-300X-00	da n Werd Werere Kast Were		2	<1	Interpolate
	CDIB-203U-00	OSP-058	22	6	<1	Interpolat
	CDIB-2000-00	037-030	S	m	<1	Interpolat
					1	
	CDIB-400U-00		1/ a mina		1	Interpolat
	CDIB-600U-00 BY:	Mohammad	Karim			Interpolat
	CDIX-400U-00				1	Interpolat
Cantrallan	07CBL-ECLYPSE6HD1590	Sitted of /		Dia Dall	1	Interpolat
Controller	EIS8-100T	Distech 06/2	202 ^{Blastic}	Din Rail	1	Interpolat
	EIS6-100T/FC		199444444444444444444444		1	Interpolat
	CDIB-253X-00			2	1	Interpolat
	CDIB-350X-00				1	Interpolat
	CDIB-400X-00				1	Interpolat
	CDIB-403X-00				1	Interpolat
	CDIB-410X-00				1	Interpolat
	CDIB-413X-00	110 MI	JG		1	Interpolat
	CDIB-600X-00	OILDIN			1	Interpolat
	CDIB-610X-00				1	UUT4a,b
	CDIX-400X-00				1	Interpolat
	CDIX-410X-00				1	Interpolat
	CDIX-420X-00				1	Interpolate
	CDIX-400U-00	4			1	Interpolate
	CDIY-303-IMP-01				1	Interpolate
	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				1	UUT8a,b
	CDIY-600X-C1-20				1	UUT8a,b
	CDIY-S1048-C1-20				1	Interpolat
	CDIY-APEX-21	7			2	Interpolate
	CDIB-VAXU-IMP-10	7			2	UUT8a,b
	PW-TR100VA002	7			4	UUT7a,b
	PW-PSB100AB10	7			5	UUT7a,b
		1				

Special Seismic Certification Table 8 - Certified Subcomponents

DCL Project Number: 05400-2501



					[lb.]	
	NC-ONS-C401i				1	UUT4a,b
	NC-ONS-C801pi			Din Rail	2	UUT4a,b
	ONS-CR2420GT			Dill Kall	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	CODE			<1	Interpolated
	NC-ONS-YPD-2	RCUDE			<1	Interpolated
	NC-ONS-YPD-4		COA		<1	Interpolated
	NC-ONS-TPD-4		145		<1	Interpolate
			CONIDI			Interpolate
	NC-ONS-YPG-6				<1	
	NC-ONS-YPG-8 NC-ONS-YRS-8			7.	<1	Interpolate
				6	<1	Interpolate
	NC-ONS-YRS-16	032-030	55	'mil	<1	Interpolate
	NC-ONS-YRS-32				<1	Interpolate
	NC-ONS-YPS-2				<1	UUT4a,b
	NC-ONS-YPS-2-A05	lohammad	Karim		<1	Interpolate
	NC-ONS-YPS-2-A10				<1	Interpolate
	NC-ONS-YPS-2-A15				<1	Interpolate
	NC-ONS-YPS-3-A10	E: 05/06/2	2025	Din Rail	<1	Interpolate
Optical Switch	NC-ONS-YPS-2-L		Carbon Steel		<1	Interpolate
	NC-ONS-YPS-2-A05-L		IG CODE	D'	<1	Interpolate
	NC-ONS-YPS-2-A05-LR			<i>x</i> /	<1	Interpolate
	NC-ONS-YPS-2-A10-L				<1	Interpolate
	NC-ONS-YPS-2-A10-LR				<1	Interpolate
	NC-ONS-YPS-2-A15-L				<1	Interpolate
	NC-ONS-YPS-2-A15-LR	RI ITI DIN			<1	Interpolate
	NC-ONS-YPS-3-A10-L	OILDIN			<1	Interpolate
	NC-ONS-YPS-3-A10-LR				<1	Interpolate
	NC-ONS-YPS-4-L				<1	Interpolate
	NC-ONS-YPS-8-L				<1	Interpolate
	NC-ONS-YPG-1-L				<1	Interpolate
	NC-ONS-YPG-2-L				<1	Interpolate
	NC-ONS-YPG-4-L				<1	Interpolate
	NC-ONS-YPG-6-L				<1	Interpolate
	NC-ONS-YPG-8-L				<1	Interpolate
	NC-ONS-YPS-16-L				<1	Interpolate
	NC-ONS-YRD-8				4	Interpolate
	NC-ONS-YRD-16				4	Interpolate
	NC-ONS-YRD-32				4	Interpolate
					9	UUT5a,b
etwork Controller	NC-ONS-NC-600	Optigo	Carbon Steel	Rack		
Diselas	NC-ONS-S8	Dist. 1		6-1	10	UUT5a,b
Display	Ecx-Display	Distech	Plastic	Cover	<1	UUT3a,b
I/O Expansion	AXM-10-12-0		_		<1	UUT2a,b
Module	AXM-10-4-8	Alerton	Plastic	Din Rail	<1	Interpolate
	AXM-22-0-0 ACM-BATT				<1	UUT2a,b UUT4a,b

Special Seismic Certification Table 9 - Certified Subcomponents

DCL Project Number: 05400-2501 Product Line: HVAC Control Panels and Network Switches



Product Line: HVAC Con	trol Panels and Network Swi	tches					
Subcomponent Type	Model Number	Description	Manufacturer	Material	Interior Mounting	Weight [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
Balava	VMD1B-F24A	24VAC SPDT Relay		Plastic	Back Panel	<1	UUT1a,b
Relays	VMD2B-F24A	24VAC DPDT Relay		Plastic	Dack Pallel	<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
Koulei	BASRTLX-B	BACnet 50 BBMD Capacity	Controls	Carbon Steel	DITI Kali	<1	UUT2a,b
	1085254	10/100/1000 Mbps 5 Port	Rhooniy Contact	Plastic	Din Bail	<1	Extrapolated
	1085243	0/100/1000 Mbps 8 Port	Phoenix Contact	Plastic	Din Rail	<1	UUT8a,b
Ethernet Switch	EISK5-GT/H	5 Port Ethernet Switch Gigabit	UDE C			1	Interpolated ³
	EIGR-C3	4 Port Cellular IP Router	Contemporary Controls	Carbon Steel	Din Rail	1	Interpolated ³
	EISK8-GT/H	8 Port Ethernet Switch Gigabit	Controls	MS.		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) Ethernet, Cellular		Carbon Steel	Din Rail	1	UUT8a,b
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
	PS5R-VB24	120V/24VDC 15 W Slim Style	nmad Kari		Din Rail	<1	Interpolated
DC Power Supply	PS5R-VC24	120V/24VDC 30 W Slim Style	IDEC	Plastic		<1	UUT2a,b
-	PS5R-VD24	120V/24VDC 60 W Slim Style				<1	UUT4a,b
	NC-ACC-PS-24V10W	DATE: 0	5/06/2025			<1	UUT4a,b
	NC-ACC-PS-48V300W	Power Supply	Optigo	Carbon Steel	Din Rail	2	UUT4a,b
	X050COB	120/208/240/277/480 ¹	+ #######	HHHA O		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 w/Receptacle			Back Panel	5	Interpolated ³
	PSH100A100AB10	120VAC to 24VAC Dual Power Supply	Functional Devices	Carbon Steel		9	UUT2a,b
Surge Protector	DTK-120HW	19.5KA	DITEK	Plastic	Din Rail	<1	UUT2a,b
Surge Protector	DTK-120SRD	54KA	DIDHER	Flastic	Diri Kali	<1	UUT2a,b
Pressure Transmitter	PX3ULX05	Differential Pressure Transmitter	Veris	Plastic	Back Panel	<1	UUT4a,b
Fressure fransmitter	2671-001WD-11-A1-FD	Differential Pressure fransmitter	Setra	Plastic	Back Panel	<1	UUT2a,b
	BAS34U24V		CyberPower	Plastic	Din Rail	3	UUT3a,b
LIDC	SDU500B		5014			11	UUT8a,b
UPS	SDU500	Uninterruptable Power Supply	SOLA	Carbon Steel	Back Panel	11	UUT2a,b
	SUA500PDR-S		APC			28	UUT3a,b
Cooling For	HF0424414	Cido Mount Filter Fore	Hoffman	Diastia	Sido Danal	1	UUT3a,b
Cooling Fan	HF0924414	Side-Mount Filter Fans	Hoffman	Plastic	Side Panel	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

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

Model Number	Name Dating		Dimensions [in.]		Weight	Manuatina	DCL Test Report	Unit
woder Number	Nema Rating	Length	Width	Height	[lb.]	Mounting	Number	Unit
FCU-1800	1	4.0	12.0	14.0	17	Rigid Wall	05416-1801	UUT1a
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	UUT6
NET-1101	N/A	17.5	23.5	14.5	34	Isolated Wall (Rack)	00211-2001	UUT6
NET-1100	N/A	17.5	23.5	14.5	63	Rigid Wall (Rack)	00211-2001	UUT5
NET-1100	N/A	17.5	23.5	14.5	63	Isolated Wall (Rack)	00211-2001	UUT5
SMK-1100	4 & 12	8.3	23.6	23.6	68	Rigid Wall	05400-2501	UUT7
SMK-1100	4 & 12	8.3	23.6	23.6	68	Isolated Wall	05400-2501	UUT7
HHW-1100	4 & 12	11.0	24.0	24.0	75	Rigid Wall	00211-2001	UUT3
HHW-1100	4 & 12	11.0	24.0	24.0	75	Isolated Wall	00211-2001	UUT3
AHU-1800	4	9.0	36.0	48.0	200	Rigid Wall	05416-1801	UUT2
AHU-1800	4	9.0	36.0	48.0	200	Isolated Wall	05416-1801	UUT2
CHW-1100	4 & 12	11.0	36.0	48.0	205	Rigid Wall	00211-2001	UUT4
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	UUT8
CHW-1200	4 & 12	8.3	35.5	47.3-01	214	Isolated Wall	05400-2501	UUT8

BY: Mohammad Karim DATE: 05/06/2025

UUT1a



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		Dimensi	mensions (inches) Lowest Natural Frequency (ncy (Hz)				
(lb)	Depth	Wie	dth		eight	Front-Back	Side-Side	Vertical				
17	4.0	12	12.0 14.0				N/A	N/A				
		(EV	Seismic T	est Paramet	ters ()							
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				
	ICC-L3 ACI30	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

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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.

			υυτ	Properties							
Operating Weight		Dimensi	ons (inches	;)		Lowest N	Lowest Natural Frequency (Hz)				
(lb)	Depth	Wie	th C		eight	Front-Back	Side-Side	Vertical			
17	4.0	12	12.0 14.0				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	1.5	3.20	2.40	N/A	N/A			
CBC 2022	ICC-L3 ACI30	2.50	0.00	2-0583	N/A	N/A	1.67	0.67			

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.



Overall view of UUT1b

UUT6a



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 Natural Frequency (Hz)							
(lb)	Depth	Wie	dth		eight	Front-Back	Side-Side	Vertical				
34	17.5	23	23.5 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	1.5	3.20	2.40	N/A	N/A				
CBC 2022	ICC-L3 ACI30	2.50	0.00	2-0583	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 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		Dimensi	ions (inches)		Lowest Natural Frequency (Hz)				
(lb)	Depth	Width				Front-Back	Side-Side	Vertical		
34	17.5	23	23.5 R CODE 14.5				N/A	N/A		
		10.5	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-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

UUT5a



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		Dimensi	ions (inches	5)		Lowest N	Lowest Natural Frequency (Hz)					
(lb)	Depth	Wi	dth C		eight	Front-Back	Side-Side	Vertical				
63	17.5	23	23.5 14,5			N/A	N/A	N/A				
	Seismic Test Parameters											
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				
CBC 2022	ICC-L3 ACI30	2.50	0.00	-0583	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 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		Dimensi	ions (inches)		Lowest N	Lowest Natural Frequency (Hz)					
(lb)	Depth	Wi	Width Height				Side-Side	Vertical				
63	17.5	23	23.5 R CDDF 14.5				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	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: 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

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 (inches	5)	Lowest Natural Frequency (Hz)							
(lb)	Depth	Wie	dth		eight	Front-Back	Side-Side	Vertical				
68	8.3	23	23.6 23.6				N/A	N/A				
			Seismic T	est Paramet	ers ()							
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				
CBC 2022	ICC-L3 ACI30	2.50	0.00	-0583	N/A	N/A	1.67	0.67				

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 ¼" 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.



Overall view of UUT7a

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 (inches	es) Lowest Natural Frequency (I					
(lb)	Depth	Wie	dth		Front-Back	Side-Side	Vertical		
68	8.3	23	23.6 23.6				N/A	N/A	
		KV.	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 AC156	2.00	1.0	1.5	3.20	2.40	N/A	N/A	
CBC 2022	ICC-LS ACISO	2.50	0.00	-0583	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, 1 5/8 x 1 5/8 x 1 5/8 x 4" 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.

			UUT	Properties					
Operating Weight		Dimensi	ons (inches	5)		Lowest Natural Frequency (Hz)			
(lb)	Depth	Wi	dth		eight	Front-Back	Side-Side	Vertical	
75	11.0	24	24.0 24.0				N/A	N/A	
		(EV	Seismic T	est Paramet	ters ()				
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	
CBC 2022	ICC-L3 ACI30	2.50	0.00	-0583	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

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.

			דטט	Properties					
Operating Weight		Dimensi	ons (inche	5)		Lowest Natural Frequency (Hz)			
(lb)	Depth	Wie	ith C		eight	Front-Back	Side-Side	Vertical	
75	11.0	24	24.0 24.0				N/A	N/A	
		EV.	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 AC156	2.00	1.0	1.5	3.20	2.40	N/A	N/A	
CBC 2022	ICC-LS ACISO	2.50	0.00	2-0583	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 (inche	inches) Lowest Natural Frequency (H								
(lb)	Depth	Wie	dth C		eight	Front-Back	Side-Side	Vertical				
200	9.0	36	36.0 48.0				N/A	N/A				
		EV.	Seismic 1	Test 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	2.00	1.0	1.5	3.20	2.40	N/A	N/A				
CBC 2022	ICC-LS ACISO	2.50	0.00	2_0583	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

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.

			וטט	Properties						
Operating Weight		Dimensi	ons (inche	Lowest Natural Frequency (Hz)						
(lb)	Depth	Wie	Width Height			Front-Back	Side-Side	Vertical		
200	9.0	36	.0		8.0	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		
		2.50	0.00		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	Wie	Width Height				Side-Side	Vertical			
205	11.0	36	.0		8.0	N/A	N/A	N/A			
	Seismic Test Parameters										
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			
		2.50	0.00	-0583	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.

DATE: 05/06/2025



Overall view of UUT4a

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.

			וטט	Properties						
Operating Weight		Dimensi	ons (inche	Lowest Natural Frequency (Hz)						
(lb)	Depth	Wie	Width CODE 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 i	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		
		2.50	0.00		N/A	N/A	1.67	0.67		

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

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.

			υυτ	Properties							
Operating Weight		Dimensi	ons (inches	;)	Lowest Natural Frequency (Hz)						
(lb)	Depth	Wie	Width Height				Side-Side	Vertical			
214	8.3	35	.5		7.3	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	1.5	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: 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 ¼" carbon steel plate washers and channel nuts. The bolts were spaced approximately 33 ¾" apart in x-direction and 45 ¾" apart in z-direction measured on-center. The wall fixture was rigidly mounted to the shake table.



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.

			דטט	Properties						
Operating Weight		Dimensi	ons (inche	5)	Lowest Natural Frequency (Hz)					
(lb)	Depth	Wig	Width Height			Front-Back	Side-Side	Vertical		
214	8.3	35	.5	47.3		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	1.5	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 1 5/8 x ¼" carbon steel plate washers and channel nuts. The bolts were spaced approximately 33 ¾" apart in x-direction and 45 ¾" 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