APPLICATION FOR OSHPD SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0583

OSHPD 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: Industrial Control Panels

Product Type: HVAC Control Panels

Product Model Number: See attached

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

Tested Seismic Enhancements: None

Applicant Information

Applicant Company Name: DCL Labs

Contact Person: Kelly Laplace

Mailing Address: 1315 Greg St, Sparks, NV 89431

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

Title: Business Manager

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)

Company Name: THE VMC GROUP

Name: Kenneth Tarlow California License Number: S2851

Mailing Address: 980 9th Street, 16th Floor, Sacramento, CA 95814

Telephone: (832) 627-2214 Email: ken.tarlow@thevmcgroup.com

Certification Method

☐ GR-63-Core ☒ ICC-ES AC156 ☐ IEEE 344 ☐ IEEE 693 ☐ NEBS 3

☐ Other (Please Specify):

Testing Laboratory

Company Name: DYNAMIC CERTIFICATION LABORATORY (DCL)

Contact Person: Josh Sailor

Mailing Address: 1315 Greg St., Ste 109, Sparks NV 89431

Telephone: (775) 358-5085 Email: josh@shaketest.com

Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) = 2.40

S_{DS} (Design spectral response acceleration at short period, g) = 2.0

a_p (Amplification factor) = 1.0

R_p (Response modification factor) = 1.5

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

OSHPD Approval (For Office Use Only) - Approval Expires on 12/31/2025

Date: 2/1/2021

Name: Timothy Piland Title: Senior Structural Engineer

Special Seismic Certification Valid Up to: S_{DS} (g) = 2.0 z/h = See Above

Condition of Approval (if applicable): Tripp Lite Wall Rack SRW6U required for some installations.

See UUT Sheets and end of OSP for rack reference.

Table 1 - Certified Components

Material: Powder Coated Carbon Steel

Model Number	Manufacturer	Max. Dimensions (in)			Max. Weight (lb)	Mounting	Unit
		Depth	Width	Height			
Custom Control Panels							
aaa-XXXX	Climatec, LLC	4.0	6.0-12.0	6.0-14.0	<17	Rigid and Isolated Wall	Extrapolated
FCU-1800	Climatec, LLC	4.0	12.0	14.0	17		UUT1a,b
aaa-XXXX	Climatec, LLC	4.0-10.0	12.0-24.0	14.0-24.0	17-75		Interpolated
HHW-1100	Climatec, LLC	10.0	24.0	24.0	75		UUT3a,b
aaa-XXXX	Climatec, LLC	9.0-10.0	24.0-36.0	24.0-48.0	75-200		Interpolated
AHU-1800	Climatec, LLC	9.0	36.0	48.0	200		UUT2a,b
aaa-XXXX	Climatec, LLC	9.0-10.0	36.0	48.0	200-205		Interpolated
CHW-1100	Climatec, LLC	10.0	36.0	48.0	205		UUT4a,b
Network Switches							
NET-1101	Climatec, LLC	17.5	23.5	14.5	34	Rack Mounted (Rigid and Isolated Wall)	UUT6a,b
NET-xxxx	Climatec, LLC	17.5	23.5	14.5	34-63		Interpolated
NET-1100	Climatec, LLC	17.5	23.5	14.5	63		UUT5a,b

Note:
1. Reference Table 2 for nomenclature chart

Table 2 - Nomenclature Chart

Nomenclature: aaa-XXXX			
Nomenclature	**Allowable Value**	**Allowable Value Description**	**Unit**
aaa[1]	AHU	Air Handling Unit	UUT2a,b
	CHW	Chilled Water System	UUT4a,b
	HHW	Heating Hot Water System	UUT3a,b
	FCU	Fan Coil Unit	UUT1a,b
	EXH	Exhaust Fan System	Same as UUT1, 2, 3, 4
	ELC	Electrical Systems	Same as UUT 1, 2, 3, 4
	PLM	Plumbing Systems	Same as UUT 1, 2, 3, 4
	NET	Network Switch	UUT5a,b, UUT6a,b
XXXX	0000-9999	Internally Applied Serial Number	All Interpolated and Tested UUTs

Notes:

1. AHU, CHW, HHW, FCU, EXH, ELC, PLM only differ by sofware

Table 3 - Subcomponents - Enclosures

Material:	Powder coated carbon steel
Mounting:	Hoffman: Rigid and Isolated Wall
	Tripp Lite: Rack Mounted on a Rigid and Isolated Wall

Model Number[1]	Manufacturer	NEMA Rating	Max. Dimensions (in)			Thickness (gauge)	Max. Weight (lb)	Unit
			Height	Width	Depth			
A-6N64 + A6N6P	Hoffman	1, 4	6.0	6.0	4.0	16	4.5	Extrapolated
A-8N64 + A8N6P	Hoffman	1, 4	8.0	6.0	4.0	16	5.8	Extrapolated
A-8N84 + A8N8P	Hoffman	1, 4	8.0	8.0	4.0	16	7.0	Extrapolated
A-8N86 + A8N8P	Hoffman	1, 4	8.0	8.0	6.0	16	7.0	Extrapolated
A-10N84 + A10N8P	Hoffman	1, 4	10.0	8.0	4.0	16	8.0	Extrapolated
A-10N104 + A10N10P	Hoffman	1, 4	10.0	10.0	4.0	16	9.0	Extrapolated
A-10N86 + A10N8P	Hoffman	1, 4	10.0	8.0	6.0	16	9.5	Extrapolated
A-10N106 + A10N10P	Hoffman	1, 4	10.0	10.0	6.0	16	10.5	Extrapolated
A-12N104 + A12N10P	Hoffman	1, 4	12.0	10.0	4.0	16	11.0	Extrapolated
A12N106 + A12N10P	Hoffman	1, 4	12.0	10.0	6.0	16	12.0	Extrapolated
A-12N124 + A12N12P	Hoffman	1, 4	12.0	12.0	4.0	16	12.5	Extrapolated
A-14N124 + A14N12P	Hoffman	1, 4	14.0	12.0	4.0	16	14.0	UUT1a,b
A-12N126 + A12N12P	Hoffman	1, 4	12.0	12.0	6.0	16	14.5	Interpolated
A-14N126 + A14N12P	Hoffman	1, 4	14.0	12.0	6.0	16	16.0	Interpolated
A-12N128 + A12N12P	Hoffman	1, 4	12.0	12.0	8.0	16	16.5	Interpolated
A-16N126 + A16N12P	Hoffman	1, 4	16.0	12.0	6.0	16	17.0	Interpolated
A-14N128M + A1412P	Hoffman	1, 4	14.0	12.0	8.0	16	18.0	Interpolated
A-16H12ALP + A16P12	Hoffman	1, 4	16.0	12.0	6.0	16	21.4	Interpolated
A-16H12BLP + A16P12	Hoffman	1, 4	16.0	12.0	8.0	16	23.5	Interpolated
A-16H16ALP + A16P16	Hoffman	1, 4	16.0	16.0	6.0	16	29.4	Interpolated
A-20H16ALP + A20P16	Hoffman	1, 4	20.0	16.0	6.0	16	31.5	Interpolated
A-20H16BLP + A20P16	Hoffman	1, 4	20.0	16.0	8.0	16	34.7	Interpolated
A-20H20ALP + A20P20	Hoffman	1, 4	20.0	20.0	6.0	16	36.7	Interpolated
A-20H20BLP + A20P20	Hoffman	1, 4	20.0	20.0	8.0	16	41.4	Interpolated
A-24H20ALP + A24P20	Hoffman	1, 4	24.0	20.0	6.0	16	45.1	Interpolated
A-24H20BLP + A24P20	Hoffman	1, 4	24.0	20.0	8.0	16	51.7	Interpolated
A-24H24ALP + A24P24	Hoffman	1, 4	24.0	24.0	6.0	16	53.0	Interpolated
A-24H24BLP + A24P24	Hoffman	1, 4	24.0	24.0	8.0	16	57.0	Interpolated
A-30H24ALP + A30P24	Hoffman	1, 4	30.0	24.0	6.0	16	72.7	Interpolated
A-30H24BLP + A30P24	Hoffman	1, 4	30.0	24.0	8.0	14	76.7	Interpolated
A-36H24ALP + A36P24	Hoffman	1, 4	36.0	24.0	6.0	16	83.0	Interpolated
A-36H24BLP + A36P24	Hoffman	1, 4	36.0	24.0	8.0	14	89.0	Interpolated
A-36H30BLP + A36P30	Hoffman	1, 4	36.0	30.0	8.0	14	109.6	Interpolated
A-42H36BLP + A42P36	Hoffman	1, 4	42.0	36.0	8.0	14	156.0	Interpolated
A-42H30BLP + A42P30	Hoffman	1, 4	42.0	30.0	8.0	14	159.9	Interpolated
A-48H36BLP + A48P36	Hoffman	1, 4	48.0	36.0	8.0	14	184.5	UUT2a,b

Notes:

1. Model number includes enclosure and back panel.

Table 4 - Subcomponents - Enclosures, Continued

Material:	Powder coated carbon steel
Mounting:	Hoffman, Rigid and Isolated Wall Mounted
	Tripp Lite, Rack Mounted in a Rigid and Isolated Wall Mounted

Model Number[1]	Manufacturer	NEMA Rating	Max. Dimensions (in)			Thickness (gauge)	Max. Weight (lb)	Unit
			Height	Width	Depth			
CSD12106 + CP1210	Hoffman	4 & 12	12.0	10.0	6.0	18	13.5	Extrapolated
CSD12126 + CP1212	Hoffman	4 & 12	12.0	12.0	6.0	18	14.8	Extrapolated
CSD16126 + CP1612	Hoffman	4 & 12	16.0	12.0	6.0	18	19.1	Extrapolated
CSD161210 + CP1612	Hoffman	4 & 12	16.0	12.0	10.0	16	20.5	Extrapolated
CSD16128 + CP1612	Hoffman	4 & 12	16.0	12.0	8.0	18	20.9	Extrapolated
CSD16166 + CP1616	Hoffman	4 & 12	16.0	16.0	6.0	18	23.9	Extrapolated
CSD16168 + CP1616	Hoffman	4 & 12	16.0	16.0	8.0	18	26.2	Extrapolated
CSD161610 + CP1616	Hoffman	4 & 12	16.0	16.0	10.0	16	28.4	Extrapolated
CSD20166 + CP2016	Hoffman	4 & 12	20.0	16.0	6.0	18	29.5	Extrapolated
CSD20208 + CP2020	Hoffman	4 & 12	20.0	20.0	8.0	18	30.4	Extrapolated
CSD20168 + CP2016	Hoffman	4 & 12	20.0	16.0	8.0	18	31.5	Extrapolated
CSD24166 + CP2416	Hoffman	4 & 12	24.0	16.0	6.0	18	34.4	Extrapolated
CSD20206 + CP2020	Hoffman	4 & 12	20.0	20.0	6.0	18	36.0	Extrapolated
CSD202010 + CP2020	Hoffman	4 & 12	20.0	20.0	10.0	16	38.0	Extrapolated
CSD241610 + CP2416	Hoffman	4 & 12	24.0	16.0	10.0	16	38.8	Extrapolated
CSD162010 + CP1620	Hoffman	4 & 12	16.0	20.0	10.0	16	41.5	Extrapolated
CSD24206 + CP2420	Hoffman	4 & 12	24.0	20.0	6.0	18	42.2	Extrapolated
CSD24168 + CP2416	Hoffman	4 & 12	24.0	16.0	8.0	18	44.2	Extrapolated
CSD242010 + CP2420	Hoffman	4 & 12	20.0	24.0	10.0	16	46.4	UUT3a,b
CSD24208 + CP2420	Hoffman	4 & 12	24.0	20.0	8.0	18	46.9	Interpolated
CSD24246 + CP2424	Hoffman	4 & 12	24.0	24.0	6.0	16	51.9	Interpolated
CSD242410 + CP2424	Hoffman	4 & 12	24.0	24.0	10.0	16	52.9	Interpolated
CSD24248 + CP2424	Hoffman	4 & 12	24.0	24.0	8.0	16	53.0	Interpolated
CSD302010 + CP3020	Hoffman	4 & 12	30.0	20.0	10.0	16	54.9	Interpolated
CSD302410 + CP3024	Hoffman	4 & 12	24.0	30.0	10.0	16	65.2	Interpolated
CSD30248 + CP3024	Hoffman	4 & 12	30.0	24.0	8.0	14	67.0	Interpolated
CSD36248 + CP3624	Hoffman	4 & 12	36.0	24.0	8.0	16	81.0	Interpolated
CSD362410 + CP3624	Hoffman	4 & 12	36.0	24.0	10.0	16	82.8	Interpolated
CSD30308 + CP3030	Hoffman	4 & 12	30.0	30.0	8.0	14	88.8	Interpolated
CSD303010 + CP3030	Hoffman	4 & 12	30.0	30.0	10.0	14	93.0	Interpolated
CSD482410 + CP4824	Hoffman	4 & 12	48.0	24.0	10.0	14	102.8	Interpolated
CSD36308 + CP3630	Hoffman	4 & 12	36.0	30.0	8.0	14	108.5	Interpolated
CSD363010 + CP3630	Hoffman	4 & 12	36.0	30.0	10.0	14	112.4	Interpolated
CSD36368 + CP3636	Hoffman	4 & 12	36.0	36.0	8.0	14	121.7	Interpolated
CSD363610 + CP3636	Hoffman	4 & 12	36.0	36.0	10.0	14	126.0	Interpolated
CSD423610 + CP4236	Hoffman	4 & 12	42.0	36.0	10.0	14	150.0	Interpolated
CSD483610 + CP4836	Hoffman	4 & 12	48.0	36.0	10.0	14	173.5	UUT4a,b
SRW6U	Tripp Lite	N/A	14.5	23.6	17.5	14	29.8	UUT5a,b, UUT6a,b

Notes:

1. Model number includes enclosure and back panel.

Table 5 - Subcomponents - Controllers

Subcomponent	Manufacturer	Model Number	Description	Material	Interior Mounting	Weight (lb)	Unit
Controller	Alerton	ALERVIEW-WHT	Controller	Plastic	Cover	<1	UUT4a,b
	Alerton	VLC-444	Controller	Plastic	Back Panel	<1	UUT2a,b
	Alerton	VAV-DD7	Controller	Plastic	Back Panel	<1	Interpolated
	Alerton	VAV-DD	Controller	Plastic	Back Panel	<1	Interpolated
	Alerton	VAV-SD	Controller	Plastic	Back Panel	<1	Interpolated
	Alerton	VAV-SD2A	Controller	Plastic	Back Panel	<1	Interpolated
	Alerton	VLC-550	Controller	Plastic	Back Panel	<1	Interpolated
	Alerton	VLC-1600	Controller	Plastic	Back Panel	<1	Interpolated
	Alerton	VLC-16160	Controller	Plastic	Back Panel	<1	Interpolated
	Alerton	VLC-16160-S	Controller	Plastic	Back Panel	<1	Interpolated
	Alerton	VLC-853	Controller	Plastic	Back Panel	<1	UUT1a,b
	Alerton	VLC-660R	Controller	Plastic	Back Panel	<1	Interpolated
	Alerton	VLC-651R	Controller	Plastic	Back Panel	<1	Interpolated
	Alerton	VLC-1188-S	Controller	Plastic	Back Panel	<1	Interpolated
	Alerton	VLC-1188	Controller	Plastic	Back Panel	<1	UUT 2 a,b
	Alerton	BTI-S	Controller	Plastic	Back Panel	<1	Interpolated
	Alerton	VLC-550-E	Controller	Plastic	Back Panel	<1	Interpolated
	Alerton	VLC-651R-E	Controller	Plastic	Back Panel	<1	Interpolated
	Alerton	VLC-660R-E	Controller	Plastic	Back Panel	<1	Interpolated
	Alerton	VLC-853-E	Controller	Plastic	Back Panel	<1	Interpolated
	Alerton	VLC-1188-E	Controller	Plastic	Back Panel	<1	Interpolated
	Alerton	VLC-1600-E	Controller	Plastic	Back Panel	<1	Interpolated
	Alerton	VLC16160-E	Controller	Plastic	Back Panel	<1	Interpolated
	Alerton	ACM	Controller	Plastic	Din Rail	<1	UUT 2 a,b
	Alerton[1]	VXIO-322-HOA (WEB-03022H)	Controller	Plastic	Din Rail	<1	UUT4a,b
	Alerton[1]	VXIO-965-HOA (WEB-09056H)	Controller	Plastic	Din Rail	1	UUT4a,b
	Alerton[1]	VIP-363-HOA (WEB-C3036EPVBNH)	Controller	Plastic	Din Rail	1	UUT4a,b
	Alerton	VLCA-1688	Controller	Plastic	Din Rail	2	UUT 2 a,b
	Distech	PDIDI-NPB82X485-00	Controller	Plastic	Din Rail	<1	UUT4a,b
	Distech	CDIY-RS485-00	Controller	Plastic	Din Rail	<1	UUT4a,b
	Distech	CDIY-NLINT-01	Controller	Plastic	Din Rail	<1	Interpolated
	Distech	CDIY-PS100240-00	Controller	Plastic	Din Rail	<1	UUT4a,b
	Distech	CDIY-8DOR-00	Controller	Plastic	Din Rail	<1	Interpolated
	Distech	CDIY-8DORHOA-00	Controller	Plastic	Din Rail	<1	UUT4a,b
	Distech	CDIY-PS24-00	Controller	Plastic	Din Rail	<1	UUT4a,b
	Distech	CDIY-S1028-00	Controller	Plastic	Din Rail	<1	Interpolated
	Distech	CDIY-S1028ENVY-00	Controller	Plastic	Din Rail	<1	Interpolated
	Distech	CDIY-S1028-MS-00	Controller	Plastic	Din Rail	<1	Interpolated
	Distech	CDIY-S1028ENVY-MS-00	Controller	Plastic	Din Rail	<1	Interpolated
	Distech	CDIY-S1048-00	Controller	Plastic	Din Rail	<1	Interpolated
	Distech	CDIY-S1048ENVY-00	Controller	Plastic	Din Rail	<1	Interpolated
	Distech	CDIY-S1048-MS-00	Controller	Plastic	Din Rail	<1	Interpolated
	Distech	CDIY-S1048ENVY-MS-00	Controller	Plastic	Din Rail	<1	Interpolated
	Distech	CDIY-S1048ENVY-NL-00	Controller	Plastic	Din Rail	<1	Interpolated
	Distech	CDIY-S1000-00	Controller	Plastic	Din Rail	<1	UUT4a,b
	Distech	CDIY-S1000ENVY-00	Controller	Plastic	Din Rail	<1	Interpolated
	Distech	CDIY-8UI-00	Controller	Plastic	Din Rail	<1	Interpolated
	Distech	CDIY-4UI4UO-00	Controller	Plastic	Din Rail	<1	Interpolated
	Distech	CDIY-4UI4UOHOA-00	Controller	Plastic	Din Rail	<1	Interpolated
	Distech	CDIY-8UI6UO-00	Controller	Plastic	Din Rail	<1	Interpolated
	Distech	CDIY-8UI6UOHOA-00	Controller	Plastic	Din Rail	<1	Interpolated
	Distech	CDIY-8UI6DOT-00	Controller	Plastic	Din Rail	<1	Interpolated
	Distech	CDIY-8UI6DOTHOA-00	Controller	Plastic	Din Rail	<1	Interpolated
	Distech	CDIY-16DI-00	Controller	Plastic	Din Rail	<1	Interpolated
	Distech	CDIY-6UO-00	Controller	Plastic	Din Rail	<1	Interpolated
	Distech	CDIY-6UOHOA-00	Controller	Plastic	Din Rail	<1	Interpolated
	Distech	CDIY-303-IMP-01	Controller	Plastic	Din Rail	1	Interpolated
	Distech	CDIY-303M3-IMP-01	Controller	Plastic	Din Rail	1	Interpolated
	Distech	CDIB-103X-01	Controller	Plastic	Din Rail	<1	UUT3a,b

1. Alternately branded as Honeywell (second model number listed is Honeywell model number)

Table 5 - Subcomponents - Controllers (Continued)							
Subcomponent	**Manufacturer (Alternate Manufacturer)**	**Model Number (Alternate Model Number)**	**Description**	**Material**	**Interior Mounting**	**Weight (lb)**	**Unit**
Controller	Distech	CDIDI-BOS8USWIFI	Controller	Plastic	Din Rail	<1	UUT4a,b
	Distech	CDIB-203X-00	Controller	Plastic	Din Rail	<1	UUT4a,b
	Distech	CDIB-203E-00	Controller	Plastic	Din Rail	<1	Interpolated
	Distech	CDIB-300X-00	Controller	Plastic	Din Rail	<1	Interpolated
	Distech	CDIB-203U-00	Controller	Plastic	Din Rail	<1	Interpolated
	Distech	CDIB-300U-00	Controller	Plastic	Din Rail	<1	Interpolated
	Distech	CDIB-253X-00	Controller	Plastic	Din Rail	1	Interpolated
	Distech	CDIB-350X-00	Controller	Plastic	Din Rail	1	Interpolated
	Distech	CDIB-400X-00	Controller	Plastic	Din Rail	1	Interpolated
	Distech	CDIB-403X-00	Controller	Plastic	Din Rail	1	Interpolated
	Distech	CDIB-410X-00	Controller	Plastic	Din Rail	1	Interpolated
	Distech	CDIB-413X-00	Controller	Plastic	Din Rail	1	Interpolated
	Distech	CDIB-450X-00	Controller	Plastic	Din Rail	1	Interpolated
	Distech	CDIB-453X-00	Controller	Plastic	Din Rail	1	Interpolated
	Distech	CDIB-600X-00	Controller	Plastic	Din Rail	1	Interpolated
	Distech	CDIB-610X-00	Controller	Plastic	Din Rail	1	UUT4a,b
	Distech	CDIB-650X-00	Controller	Plastic	Din Rail	1	Interpolated
	Distech	CDIB-400U-00	Controller	Plastic	Din Rail	1	Interpolated
	Distech	CDIB-600U-00	Controller	Plastic	Din Rail	1	Interpolated
	Distech	CDIX-400X-00	Controller	Plastic	Din Rail	1	Interpolated
	Distech	CDIX-410X-00	Controller	Plastic	Din Rail	1	Interpolated
	Distech	CDIX-420X-00	Controller	Plastic	Din Rail	1	Interpolated
	Distech	CDIX-400U-00	Controller	Plastic	Din Rail	1	Interpolated

Table 6 - Subcomponents - Additional Subcomponents

Subcomponent	Manufacturer	Model Number	Description	Material	Interior Mounting	Weight (lb)	Unit
Network Switch	Optigo	NC-ONS-C401i	Network Switch	Carbon Steel	Din Rail	1	UUT4a,b
	Optigo	NC-ONS-C801pi	Network Switch	Carbon Steel	Din Rail	2	UUT4a,b
	Optigo	NC-ONS-C1601pi	Network Switch	Carbon Steel	Din Rail	3	UUT4a,b
	Optigo	NC-ONS-C810p	Network Switch	Carbon Steel	Rack	4	UUT5a,b
	Optigo	NC-ONS-C2401p	Network Switch	Carbon Steel	Rack	11	UUT5a,b
	Optigo	NC-ONS-C4801p	Network Switch	Carbon Steel	Rack	14	UUT5a,b, UUT6a,b
Optical Switch	Optigo	NC-ONS-YPS-8	Optical Switch	Carbon Steel	Din Rail	<1	UUT4a,b
	Optigo	NC-ONS-YPS-4	Optical Switch	Carbon Steel	Din Rail	<1	Interpolated
	Optigo	NC-ONS-YPG-1	Optical Switch	Carbon Steel	Din Rail	<1	Interpolated
	Optigo	NC-ONS-YPG-2	Optical Switch	Carbon Steel	Din Rail	<1	Interpolated
	Optigo	NC-ONS-YPG-4	Optical Switch	Carbon Steel	Din Rail	<1	Interpolated
	Optigo	NC-ONS-YPS-16	Optical Switch	Carbon Steel	Din Rail	<1	Interpolated
	Optigo	NC-ONS-YPD-2	Optical Switch	Carbon Steel	Din Rail	<1	Interpolated
	Optigo	NC-ONS-YPD-4	Optical Switch	Carbon Steel	Din Rail	<1	Interpolated
	Optigo	NC-ONS-YPD-8	Optical Switch	Carbon Steel	Din Rail	<1	Interpolated
	Optigo	NC-ONS-YPG-6	Optical Switch	Carbon Steel	Din Rail	<1	Interpolated
	Optigo	NC-ONS-YPG-8	Optical Switch	Carbon Steel	Din Rail	<1	Interpolated
	Optigo	NC-ONS-YRS-8	Optical Switch	Carbon Steel	Din Rail	<1	Interpolated
	Optigo	NC-ONS-YRS-16	Optical Switch	Carbon Steel	Din Rail	<1	Interpolated
	Optigo	NC-ONS-YRS-32	Optical Switch	Carbon Steel	Din Rail	<1	Interpolated
	Optigo	NC-ONS-YPS-2	Optical Switch	Carbon Steel	Din Rail	<1	UUT4a,b
	Optigo	NC-ONS-YPS-2-A05	Optical Switch	Carbon Steel	Din Rail	<1	Interpolated
	Optigo	NC-ONS-YPS-2-A10	Optical Switch	Carbon Steel	Din Rail	<1	Interpolated
	Optigo	NC-ONS-YPS-2-A15	Optical Switch	Carbon Steel	Din Rail	<1	Interpolated
	Optigo	NC-ONS-YPS-3-A10	Optical Switch	Carbon Steel	Din Rail	<1	Interpolated
	Optigo	NC-ONS-YPS-2-L	Optical Switch	Carbon Steel	Din Rail	<1	Interpolated
	Optigo	NC-ONS-YPS-2-A05-L	Optical Switch	Carbon Steel	Din Rail	<1	Interpolated
	Optigo	NC-ONS-YPS-2-A05-LR	Optical Switch	Carbon Steel	Din Rail	<1	Interpolated
	Optigo	NC-ONS-YPS-2-A10-L	Optical Switch	Carbon Steel	Din Rail	<1	Interpolated
	Optigo	NC-ONS-YPS-2-A10-LR	Optical Switch	Carbon Steel	Din Rail	<1	Interpolated
	Optigo	NC-ONS-YPS-2-A15-L	Optical Switch	Carbon Steel	Din Rail	<1	Interpolated
	Optigo	NC-ONS-YPS-2-A15-LR	Optical Switch	Carbon Steel	Din Rail	<1	Interpolated
	Optigo	NC-ONS-YPS-3-A10-L	Optical Switch	Carbon Steel	Din Rail	<1	Interpolated
	Optigo	NC-ONS-YPS-3-A10-LR	Optical Switch	Carbon Steel	Din Rail	<1	Interpolated
	Optigo	NC-ONS-YPS-4-L	Optical Switch	Carbon Steel	Din Rail	<1	Interpolated
	Optigo	NC-ONS-YPS-8-L	Optical Switch	Carbon Steel	Din Rail	<1	Interpolated
	Optigo	NC-ONS-YPG-1-L	Optical Switch	Carbon Steel	Din Rail	<1	Interpolated
	Optigo	NC-ONS-YPG-2-L	Optical Switch	Carbon Steel	Din Rail	<1	Interpolated
	Optigo	NC-ONS-YPG-4-L	Optical Switch	Carbon Steel	Din Rail	<1	Interpolated
	Optigo	NC-ONS-YPG-6-L	Optical Switch	Carbon Steel	Din Rail	<1	Interpolated
	Optigo	NC-ONS-YPG-8-L	Optical Switch	Carbon Steel	Din Rail	<1	Interpolated
	Optigo	NC-ONS-YPS-16-L	Optical Switch	Carbon Steel	Din Rail	<1	Interpolated
	Optigo	NC-ONS-YRD-8	Optical Switch	Carbon Steel	Din Rail	4	Interpolated
	Optigo	NC-ONS-YRD-16	Optical Switch	Carbon Steel	Din Rail	4	Interpolated
	Optigo	NC-ONS-YRD-32	Optical Switch	Carbon Steel	Din Rail	4	Interpolated

Table 6 - Subcomponents - Additional Subcomponents (Continued)

Subcomponent	Manufacturer	Model Number	Description	Material	Interior Mounting	Weight (lb)	Unit
Network Controller	Optigo	NC-ONS-NC-600	Network Controller	Carbon Steel	Rack	9	UUT5a,b
	Optigo	NC-ONS-S8	Network Controller	Carbon Steel	Rack	10	UUT5a,b, UUT6a,b
Display	Distech	Ecx-Display	Visual Interface Display	Plastic	Cover	<1	UUT3a,b
I/O Expansion Module	Alerton	AXM-10-12-0	I/O Expansion Module	Plastic	Din Rail	<1	UUT2a,b
	Alerton	AXM-10-4-8	I/O Expansion Module	Plastic	Din Rail	<1	Interpolated
	Alerton	AXM-22-0-0	I/O Expansion Module	Plastic	Din Rail	<1	UUT2a,b
Battery	Alerton	ACM-BATT	Battery Pack	Plastic	Din Rail	<1	UUT4a,b
Relays	Veris	VMD1B-F24A	24VAC SPDT Relay	Plastic	Back Panel	<1	UUT1a,b
	Veris	VMD2B-F24A	24VAC DPDT Relay	Plastic	Back Panel	<1	Interpolated
	Veris	VMD3B-F24A	24VAC 3PDT Relay	Plastic	Back Panel	1	UUT2a,b
	Veris	VMD4B-C24A	24VAC 4PDT Relay	Plastic	Back Panel	1	UUT2a,b
	Veris	RIBMN24S	Smoke Relay	Plastic	Back Panel	<1	UUT4a,b
Router	Contemporary Controls	BASRT-B	BACnet 5 BBMD	Carbon steel	Din Rail	<1	Extrapolated[2]
	Contemporary Controls	BASRTLX-B	BACnet 50 BBMD	Carbon steel	Din Rail	<1	UUT2a,b
Ethernet Switch	Contemporary Controls	EIGR-C3	4 Port Cellular IP Router	Carbon Steel	Din Rail	1	Extrapolated[3]
	Contemporary Controls	EISK5-GT/H	5 Port	Carbon steel	Din Rail	1	Extrapolated[3]
	Contemporary Controls	EISK8-GT/H	8 Port	Carbon steel	Din Rail	1	UUT2a,b
Fiber	Contemporary Controls	EISK8M-100T/FCS	SC-Fiber	Carbon steel	Din Rail	1	UUT2a,b
DC Power Supply	IDEC	PS5R-VB05	120V/24VDC 10 W	Plastic	Din Rail	<1	UUT2a,b
	IDEC	PS5R-VB24	120V/24VDC 15 W	Plastic	Din Rail	<1	Interpolated
	IDEC	PS5R-VC24	120V/24VDC 30 W	Plastic	Din Rail	<1	UUT2a,b
	IDEC	PS5R-VD24	120V/24VDC 60 W	Plastic	Din Rail	<1	UUT4a,b
AC Power Supply	Optigo	NC-ACC-PS-24V10W	Power Supply	Carbon Steel	Din Rail	<1	UUT4a,b
	Optigo	NC-ACC-PS-48V300W	Power Supply	Carbon Steel	Din Rail	2	UUT4a,b
	Veris	X050COB	120/208/240/277/480[1]	Copper winding	Back Panel	3	UUT1a,b
	Veris	X100CBB	120/208/240/277/480[1]	Copper winding	Back Panel	4	UUT2a,b
	Functional Devices	PSH100AB10	120-24VAC w/Receptacle	Carbon steel	Back Panel	5	Extrapolated[3]
	Functional Devices	PSH100A100AB10	120VAC to 24VAC Dual	Carbon steel	Back Panel	9	UUT2a,b
Surge Protector	DITEK	DTK-120HW	19.5KA	Plastic	Din Rail	<1	UUT2a,b
	DITEK	DTK-120SRD	54KA	Plastic	Din Rail	<1	UUT2a,b
Pressure Transmitter	Veris	PX3ULX05	Pressure Transmitter	Plastic	Back Panel	<1	UUT4a,b
	Setra	2671-001WD-11-A1-FD	Pressure Transmitter	Plastic	Back Panel	<1	UUT2a,b
UPS	CyberPower	BAS34U24V	UPS	Plastic	Din Rail	3	UUT3a,b
	SOLA	SDU500	UPS	Carbon Steel	Back Panel	11	UUT2a,b
	APC	SUA500PDR-S	UPS	Carbon steel	Back Panel	28	UUT3a,b
Cooling Fan	Hoffman	HF0424414	Side-Mount	Plastic	Side Panel	1	UUT3a, b
	Hoffman	HF0924414	Side-Mount	Plastic	Side Panel	2	UUT4a,b
Static Switch	Cleveland Controls	AFS-460	Manual Reset	Carbon Steel	Back Panel	1	UUT2a,b
Circuit Breaker	WEG Ind	UMBW-1B1-2	1POLE 2AMP	Plastic	Din Rail	1	UUT2a,b
Plug	Patton	SYS1357-2412	AC adapter	Carbon steel	Back Panel	2	UUT2a,b

Notes:
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

Table 7 - Tested Units

Model Number	Manufacturer	NEMA Rating	Dimensions (in)			Weight (lb)	Mounting	Unit
			Depth	Width	Height			
FCU-1800	Climatec, LLC	1	4.0	12.0	14.0	17	Rigid Wall	UUT 1a
FCU-1800	Climatec, LLC	1	4.0	12.0	14.0	17	Isolated Wall	UUT1b
AHU-1800	Climatec, LLC	4	9.0	36.0	48.0	200	Rigid Wall	UUT2a
AHU-1800	Climatec, LLC	4	9.0	36.0	48.0	200	Isolated Wall	UUT2b
HHW-1100	Climatec, LLC	4 & 12	10.0	24.0	24.0	75	Rigid Wall	UUT3a
HHW-1100	Climatec, LLC	4 & 12	10.0	24.0	24.0	75	Isolated Wall	UUT3b
CHW-1100	Climatec, LLC	4 & 12	10.0	36.0	48.0	205	Rigid Wall	UUT4a
CHW-1100	Climatec, LLC	4 & 12	10.0	36.0	48.0	205	Isolated Wall	UUT4b
NET-1100	Climatec, LLC	N/A	17.5	23.5	14.5	63	Rigid Wall (Rack)	UUT5a
NET-1100	Climatec, LLC	N/A	17.5	23.5	14.5	63	Isolated Wall (Rack)	UUT5b
NET-1101	Climatec, LLC	N/A	17.5	23.5	14.5	34	Rigid Wall (Rack)	UUT6a
NET-1101	Climatec, LLC	N/A	17.5	23.5	14.5	34	Isolated Wall (Rack)	UUT6b

UUT1a

UNIT UNDER TEST (UUT) Summary Sheet

Manufacturer: Climatec

Product Line: Control Panels

Model Number: FCU-1800

Product Construction Summary: Powder-coated carbon steel panel

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 and attachment system and force-resisting systems was maintained.

UUT Properties

Operating Weight (lb)	Dimensions (in)				Lowest Natural Frequency (Hz)		
		Length	Width	Height	Front-Back	Side-Side	Vertical
17	UUT1a	4.0	12.0	14.0	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 2019	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	N/A	N/A
		2.50	0.0		N/A	N/A	1.67	0.67

Unit Mounting Description:

Rigid wall mount: UUT 1a 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'' diameter, 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.

UUT1b

UNIT UNDER TEST (UUT) Summary Sheet

Manufacturer: Climatec

Product Line: Control Panels

Model Number: FCU-1800

Product Construction Summary: Powder-coated carbon steel panel

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 and attachment system and force-resisting systems was maintained.

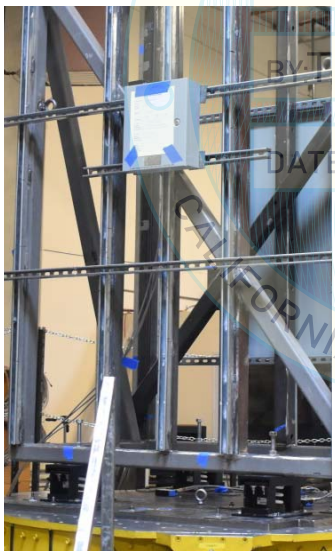
UUT Properties

Operating Weight (lb)	Dimensions (in)				Lowest Natural Frequency (Hz)		
		Length	Width	Height	Front-Back	Side-Side	Vertical
17	UUT1b	4.0	12.0	14.0	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 2019	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	N/A	N/A
		2.50	0.0		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'' diameter, 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.

UUT2a

UNIT UNDER TEST (UUT) Summary Sheet

Manufacturer: Climatec

Product Line: Control Panels

Model Number: AHU-1800

Product Construction Summary: Powder-coated carbon steel panel

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 and attachment system and force-resisting systems was maintained.

UUT Properties

Operating Weight (lb)	Dimensions (in)				Lowest Natural Frequency (Hz)		
		Length	Width	Height	Front-Back	Side-Side	Vertical
200	UUT 2a	9.0	36.0	48.0	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 2019	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	N/A	N/A
		2.50	0.0		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'' diameter, 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.

UUT2b

UNIT UNDER TEST (UUT) Summary Sheet

Manufacturer: Climatec

Product Line: Control Panels

Model Number: AHU-1800

Product Construction Summary: Powder-coated carbon steel panel

Options / Component Summary: Controller, relay, option modules

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

UUT Properties

Operating Weight (lb)	Dimensions (in)				Lowest Natural Frequency (Hz)		
		Length	Width	Height	Front-Back	Side-Side	Vertical
200	UUT 2b	9.0	36.0	48.0	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 2019	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	N/A	N/A
		2.50	0.0		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'' diameter, 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.

UUT3a

UNIT UNDER TEST (UUT) Summary Sheet

Manufacturer: Climatec

Product Line: Control Panels

Model Number: HHW-1100

Product Construction Summary: Powder-coated carbon steel panel

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 and attachment system and force-resisting systems was maintained.

UUT Properties

Operating Weight (lb)	Dimensions (in)				Lowest Natural Frequency (Hz)		
		Length	Width	Height	Front-Back	Side-Side	Vertical
75	UUT 3a	10.0	24.0	24.0	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 2019	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	N/A	N/A
		2.50	0.0		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'' diameter, 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.

UUT3b

UNIT UNDER TEST (UUT) Summary Sheet

Manufacturer: Climatec

Product Line: Control Panels

Model Number: HHW-1100

Product Construction Summary: Powder-coated carbon steel panel

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 and attachment system and force-resisting systems was maintained.

UUT Properties

Operating Weight (lb)	Dimensions (in)				Lowest Natural Frequency (Hz)		
		Length	Width	Height	Front-Back	Side-Side	Vertical
75	UUT 3b	10.0	24.0	24.0	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 2019	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	N/A	N/A
		2.50	0.0		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'' diameter, 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.

UUT4a

UNIT UNDER TEST (UUT) Summary Sheet

Manufacturer: Climatec

Product Line: Control Panels

Model Number: CHW-1100

Product Construction Summary: Powder-coated carbon steel panel

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 and attachment system and force-resisting systems was maintained.

UUT Properties

Operating Weight (lb)	Dimensions (in)				Lowest Natural Frequency (Hz)		
		Length	Width	Height	Front-Back	Side-Side	Vertical
205	UUT 4a	10.0	36.0	48.0	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 2019	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	N/A	N/A
		2.50	0.0		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'' diameter, 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.

UUT4b

UNIT UNDER TEST (UUT) Summary Sheet

Manufacturer: Climatec

Product Line: Control Panels

Model Number: CHW-1100

Product Construction Summary: Powder-coated carbon steel panel

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 and attachment system and force-resisting systems was maintained.

UUT Properties

Operating Weight (lb)	Dimensions (in)				Lowest Natural Frequency (Hz)		
		Length	Width	Height	Front-Back	Side-Side	Vertical
205	UUT 4b	10.0	36.0	48.0	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 2019	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	N/A	N/A
		2.50	0.0		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'' diameter, 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.

UUT5a

UNIT UNDER TEST (UUT) Summary Sheet

Manufacturer: Climatec

Product Line: Control Panels

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 and attachment system and force-resisting systems was maintained.

UUT Properties

Operating Weight (lb)	Dimensions (in)				Lowest Natural Frequency (Hz)		
		Length	Width	Height	Front-Back	Side-Side	Vertical
63	UUT 5a	17.5	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 2019	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	N/A	N/A
		2.50	0.0		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'' diameter, 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.

UUT5b

UNIT UNDER TEST (UUT) Summary Sheet

Manufacturer: Climatec

Product Line: Control Panels

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 and attachment system and force-resisting systems was maintained.

UUT Properties

Operating Weight (lb)	Dimensions (in)				Lowest Natural Frequency (Hz)		
		Length	Width	Height	Front-Back	Side-Side	Vertical
63	UUT 5b	17.5	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 2019	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	N/A	N/A
		2.50	0.0		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'' diameter, 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.

UUT6a

UNIT UNDER TEST (UUT) Summary Sheet

Manufacturer: Climatec

Product Line: Control Panels

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 and attachment system and force-resisting systems was maintained.

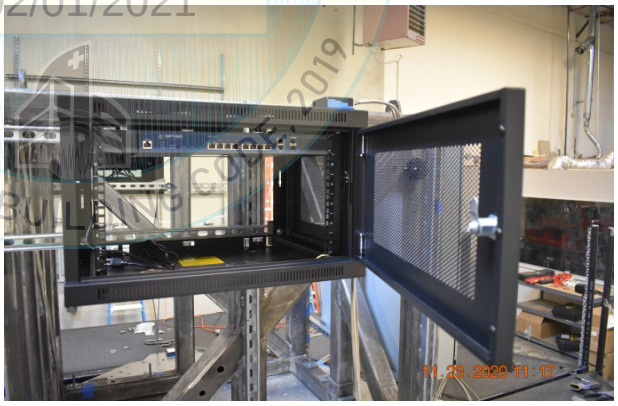
UUT Properties

Operating Weight (lb)	Dimensions (in)				Lowest Natural Frequency (Hz)		
		Length	Width	Height	Front-Back	Side-Side	Vertical
34	UUT 6a	17.5	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 2019	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	N/A	N/A
		2.50	0.0		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'' diameter, 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.

UUT6b

UNIT UNDER TEST (UUT) Summary Sheet

Manufacturer: Climatec

Product Line: Control Panels

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 and attachment system and force-resisting systems was maintained.

UUT Properties

Operating Weight (lb)	Dimensions (in)				Lowest Natural Frequency (Hz)		
		Length	Width	Height	Front-Back	Side-Side	Vertical
34	UUT 6b	17.5	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 2019	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	N/A	N/A
		2.50	0.0		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'' diameter, 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.

MODEL:

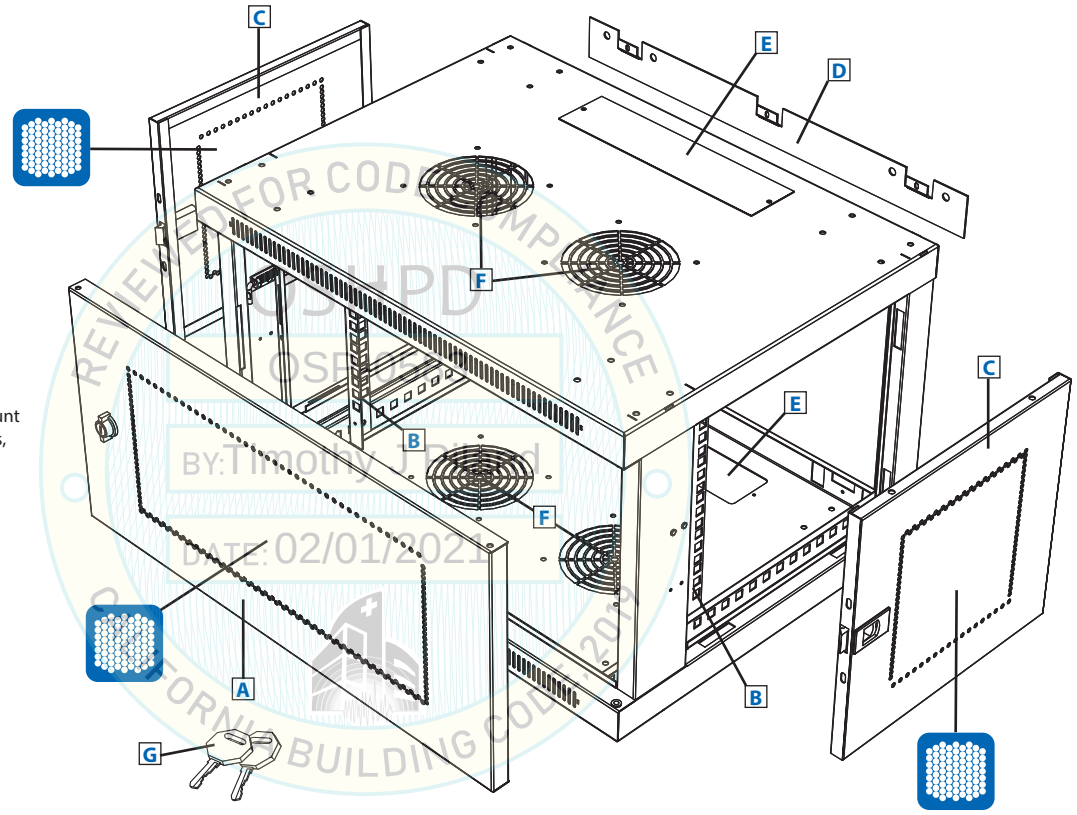
SRW6U

SmartRack® Wall-Mount Rack Enclosure Cabinet

- 6 Rack Units
- 200 lb. Load Rating
- Sturdy Steel Construction
- Locking Doors & Side Panels
- Standard 19" Rack Width
- Convenient Cable Access
- Adjustable Mounting Rails
- Ventilated for Ample Airflow
- Reversible Cabinet
- Square/Threaded Hole Mounting

- A Front Door (Lockable/Removable/Reversible)
- B Adjustable Mounting Rails (2)
- C Side Panels (2) (Lockable/Removable)
- D Mounting Plate (Removable. Includes mounting hooks for cabinet.)
- E Cable Access Port Covers (2) (Removable)
- F Ventilation Fan Ports (4) (Support optional SRFANWM fan kit.)
- G Keys (2)

Also Includes: Owner's manual, mounting plate screws (3), cabinet ground screw, pre-installed front door ground wire and rackmount equipment mounting hardware (12 cage nuts, 12 mounting screws, 12 nylon cup washers).



Specifications

Model	SRW6U
Rack Spaces	6U
Equipment Mounting Depth	Up to 16.5 in. / 419 mm
Load Rating*	200 lb. / 90.7 kg
Unit Dimensions (H x W x D)	14.5 x 23.63 x 17.5 in. / 368 x 600.2 x 445 mm
Shipping Dimensions (H x W x D)	17.5 x 26.5 x 20.5 in. / 445 x 673 x 521 mm
Unit Weight	29 lb. / 13.2 kg
Shipping Weight	32 lb. / 14.5 kg
Standards	Tested to EIA/ECA-310-E, UL/CSA 60950-1, NOM (Mexico), RoHS

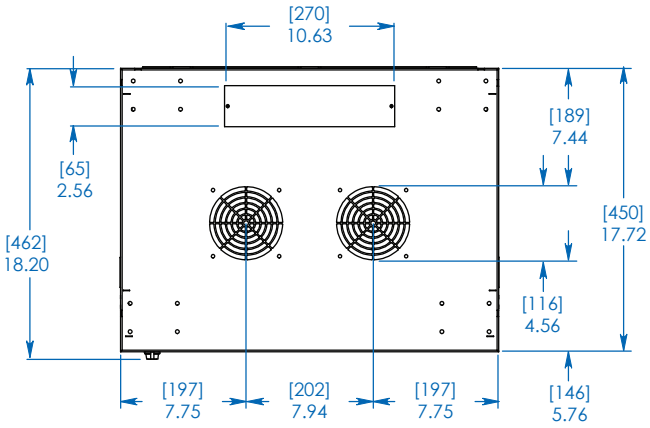
* The load rating includes the combined weight of the unit and installed equipment. The unit must be mounted to a stable surface with user-supplied anchors capable of bearing the full load.

- Wall-mount enclosures provide convenient, locking storage for rackmount IT devices and other equipment that should be off the floor, out of the way and secure
- The cabinet is fully reversible, allowing installers to change door hinges from left to right by simply rotating the unit 180 degrees before mounting

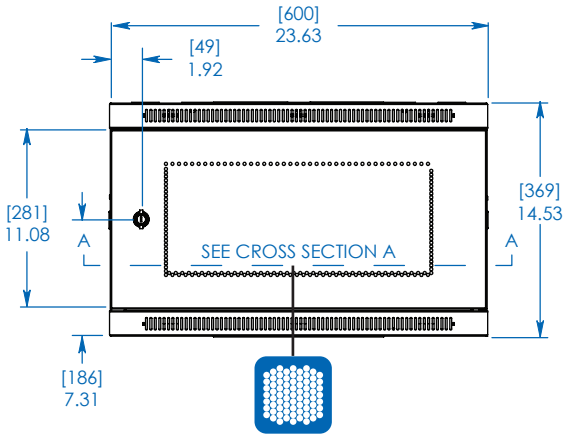
SEE NEXT PAGE FOR DETAILED UNIT MEASUREMENTS

TRIPP·LITE

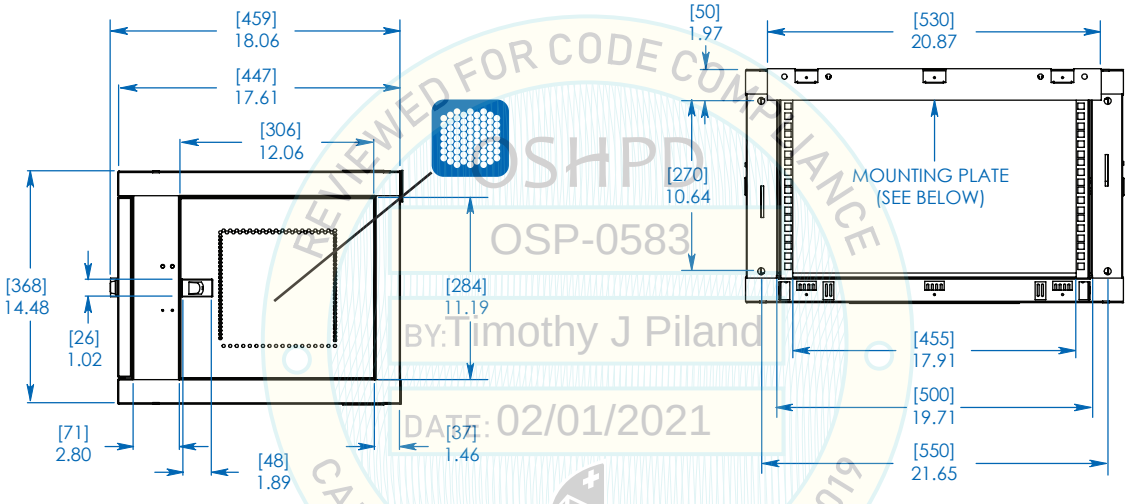
1111 W. 35th Street
Chicago, IL 60609 USA
773.869.1234
www.tripplite.com



TOP/BOTTOM VIEW

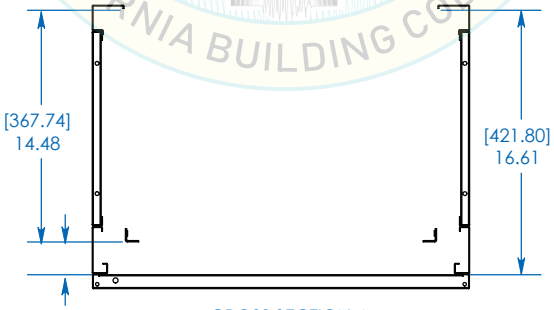


FRONT VIEW



SIDE VIEW

REAR VIEW (FRONT DOOR NOT SHOWN)



CROSS SECTION A
USABLE MOUNTING DEPTH

MODEL:
SRW6U

Dimensions: [mm] INCHES

Tripp Lite has a policy of continuous improvement. Specifications are subject to change without notice.

Tripp Lite
1111 W. 35th Street
Chicago, IL 60609 USA
Telephone: 773.869.1234
www.tripplite.com

Specifications

OVERVIEW	
UPC Code	037332154651
Device Compatibility	Patch Panel; Network Switch; UPS
Rack Type	Enclosure
PHYSICAL	
Color	Black
Maximum Device Depth (cm)	41.91
Maximum Device Depth (in.)	16.5
Maximum Device Depth (mm)	419
Minimum Device Depth (cm)	7.62
Minimum Device Depth (in.)	3
Minimum Device Depth (mm)	76
Cable Access Hole Measurement (inches)	9.812 x 2.35 (l x w)
Rack Height	6U
Shipping Dimensions (hwd / cm)	44.45 x 52.32 x 67.06
Shipping Dimensions (hwd / in.)	17.50 x 20.60 x 26.40
Shipping Weight (kg)	15.42
Shipping Weight (lbs.)	34.00
Unit Dimensions (hwd / cm)	36.83 x 60 x 44.45
Unit Dimensions (hwd / in.)	14.5 x 23.63 x 17.5
Unit Weight (kg)	13.15
Unit Weight (lbs.)	29
Weight Capacity - Stationary (kg)	91
Weight Capacity - Stationary (lbs.)	200
Rack Depth	Shallow
Number of Vertical Mounting Rails	2
SPECIAL FEATURES	
Grounding Lug	Front and Back door frames
Built-in Cable Management	No
Extra Wide	No