

APPLICATION FOR OSHPD SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)		
OSHPD Special Seismic Certification Preapproval (OSP)	APPLICATION #:	OSP – 0378
Type: New Renewal		
Manufacturer Information		
Manufacturer: Price Industries Limited		
Manufacturer's Technical Representative:	gner	
Mailing Address:638 Raleigh Street, Winnipeg, Manitoba, R2K 3Z9, 0	Canada	
Telephone: _204-669-4220 ext. 7929	w@priceindustries.com	<u>n</u>
Product Information	MA	
Product Name: Horizontal Fan Coils, Horizontal High Performance Fa	an Coils, Horizontal Blo	ower Coils
Product Type: Fan Coils OSP-0378	- Cr	
Product Model Number: FCHCB, FCHCP, FCHE, FCHG, FCHGQ, BC (List all unique product identification numbers and/or part numbers) Fan coil units in standard sizes with coil config General Description: Fan coil units in standard sizes with coil config Seismic enhancements made to the test units and modifications requirests shall be incorporated into the production units Mounting Description: Ceiling suspended, rigidly on hanger rods or set	nd jurations in several opti nired to address anoma	lies observed during the
sway bracing.		
Applicant Information	2011	
Applicant Company Name: The VMC Group		
Contact Person:		
Mailing Address: <u>113 Main Street, Bloomingdale, NJ, 07403</u>		
Telephone: <u>973-838-1780</u> Email: <u>john.g</u>	uliano@thevmcgroup.c	<u>com</u>
I hereby agree to reimburse the Office of Statewide Health I accordance with the California Administrative Code, 2016. Signature of Applicant:	, in the second s	opment review fees in e: <u>5/14/19</u>
"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs" STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY	MAM	OSHPD
OSH-FD-759 (REV 12/16/15)	a de la compansión de la c	Page 1 of 3



California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)
Company Name:
Name: Kenneth Tarlow California License Number: SE2851
Mailing Address:113 Main Street, Bloomingdale, NK 07403
Telephone: 973-838-1780 Email: Ken.tarlow@thevmcgroup.com
Supports and Attachments Preapproval
 Supports and attachments are preapproved under OPM- (Separate application for OSHPD Preapproval of Manufacturer's Certification (OPM) of Supports and attachments is required) Supports and attachments are not preapproved
Certification Method
 ☑ Testing in accordance with: ☑ Other (Please Specify): ☑ OSP-0378
BY:Timothy J Piland
Testing Laboratory DATE: 04/16/2021
Company Name: UC Berkeley, PEER Labs
Contact Name: Amarnath Kasalanati
Mailing Address:
Telephone: _510-642-6475 Email: <u>Amarnath1@berkeley.edu</u>

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OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Seismic Parameters

Design in accordance with ASCE 7-10 Chapter 13: 🛛 Yes 🗌 No	
$\begin{array}{c} \text{Rigid:} 1.50 \ (\text{S}_{\text{E}}) \\ \text{Design Basis of Equipment or Components } (\text{F}_{\text{p}}/\text{W}_{\text{p}}) = \underline{\text{Isolated: } 4.50 \ (\text{S}_{\text{E}})} \\ \end{array}$	os = 2.00; z/h = 1); 1.13 (S _{DS} = 2.50; z/h = 0) os = 2.00; z/h = 1); 1.88 (S _{DS} = 2.50; z/h = 0)
S _{DS} (Design spectral response acceleration at short period, g) =	2.00 (z/h = 1); 2.50 (z/h = 0)
a_p (In-structure equipment or component amplification factor) =	2.5
R _p (Equipment or component response modification factor) =	6.0 (Rigid); 2.0 (Isolated)
Ω_0 (System overstrength factor) = _2.0	
I_p (Importance factor) = 1.5	
z/h (Height factor ratio) = <u>1 and 0</u>	
Equipment or Component Natural Frequencies (Hz) = <u>See att</u>	ached
Overall dimensions and weight (or range thereof) = 0 <u>See att</u>	ached
Equipment or Components @ grade designed in accordance with ASCE	7-10 Chapter 15: 🗌 Yes 🛛 No
Design Basis of Equipment or Components (V/W) =	YZ.
S_{DS} (Design spectral response acceleration at short period, g) =	
S _{D1} (Design spectral response acceleration at 1 second period,	g) =
R (Response modification coefficient) =	nd maintain and an and an
Ω_0 (System overstrength factor) =	
C_d (Deflection amplification factor) = $D_{ATE} = 04/16/2021$	
I_{P} (Importance factor) = 1.5	<u>\$</u>
Height to Center of Gravity above base =	2
Equipment or Component Natural Frequencies (Hz) =	DE
Overall dimensions and weight (or range thereof) =	01
Tank(s) designed in accordance with ASME BPVC, 2015:	No
List of Attachments Supporting Special Seismic Certification	l de la construcción de la constru
 ☑ Test Report(s) ☑ Drawings ☑ Other(s) (Please Specify): 	Manufacturer's Catalog
OSHPD Approval (For Office Use Only) – Approval Expires on	December 31, 2025
1/1/10	
Signature:	
Print Name: Timothy U. Piland	_ Title: <u>SSE</u>
Special Seismic Certification Valid Up to: $S_{DS}(g) = \underline{See Above}$	
Condition of Approval (if applicable):	
"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"	OSHPE
STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-759 (REV 12/16/15)	Page 3 of 3

Price Fan Coils OSHPD OSP Certified Product Matrix

Table 1 - Certified Components

Mounting: Ceiling Suspended

Product Family	Model	Size	Height (in)	Width (in)	Max Depth (in)	Max Weight (Ibs)	Non-Isolated	Isolated	Sds (g)	z/h
		2	10.6	28.1	22.5	30	extrapolated	extrapolated	İ	
		3	10.6	37.4	22.5	50	UUT 1 (a)	UUT 1 (b)		
	FCHCB	6	10.6	42.1	22.5	68	interpolated	interpolated		
	гопов	8	10.6	42.1	22.5	80	interpolated	interpolated		
		10	10.6	62.1	22.5	100	interpolated	interpolated		
		12	10.6	71.8	22.5	120	interpolated	interpolated		
		2	10.6	28.1	24.8	48	interpolated	interpolated		
Horizontal Fan Coils		3	10.6	37.4	24.8	65	interpolated	interpolated		
	FCHCP	6	10.6	42.1	24.8	80	interpolated	interpolated		
	FUNCE	8	10.6	42.1	24.8	95	interpolated	interpolated		
		10	10.6	62.1	24.8	120	interpolated	interpolated		
		12	10.6	71.8	24.8	135	UUT 2 (a)	UUT 2 (b)		
	FCHE	10	12.0	36	-30	105	interpolated	interpolated		
		20	12.0	45	30	135	interpolated	interpolated		
		30	12.0	50	30	160	interpolated	interpolated		
		40	12.0	70	30	245	UUT 3 (a)	UUT 3 (b)		
	FCHG	20	13.5	35	97.69	995	extrapolated	extrapolated		
		30	13.5	35	97.69	195	UUT 4 (a)	UUT 4 (b)	SDS	= 2.0
		40	15.5	40	97.69	220	interpolated	interpolated	@ z/h	= 1.0
		50	13.5	5 Y 56	100.19	300	interpolated	interpolated		
		60	15.5	62	100.19	360	interpolated	interpolated	8	x
Horizontal High		70	15.5	74	121.19	470	interpolated	interpolated		
Performance Fan		20	13.5	JA35=:	133.69	∠U 465	UUT 5 (a)	UUT 5 (b)	SDS	
Coils		20	13.5	35	133.69	265	interpolated	n/a	@ z/h	= 0.0
		30	13.5	35	133.69	265	interpolated	n/a		
	FCHGQ	40	15.5	40	133.69	305	interpolated	n/a		
		50	13.5	56	136.19	420	interpolated	n/a		
		60	15.5	62	136.19	510	Vinterpolated	n/a		
		70	15.5	74	157.19	720	UUT 6 (a)	n/a		
		8	15.5	30	D (82 L L	275	UUT 7 (a)	UUT 7 (b)		
		12	15.5	38	82	338	interpolated	interpolated		
	BCH	16	18.0	44	84.5	421	interpolated	interpolated		
	всп	20	18.0	50	84.5	451	interpolated	interpolated		
		30	25.0	52	98.5	633	interpolated	interpolated		
Horizontal Blower		40	25.0	65	98.5	796	interpolated	interpolated	1	
Coils		8	15.5	30	118	325	interpolated	interpolated]	
		12	15.5	38	118	390	interpolated	interpolated]	
	BCHO	16	18.0	44	120.5	495	interpolated	interpolated]	
	BCHQ	20	18.0	50	120.5	550	interpolated	interpolated]	
		30	25.0	52	134.5	760	interpolated	interpolated]	
		40	25.0	65	134.5	945	UUT 8 (a)	UUT 8 (b)]	



Table 2 - External Sheeting

EXTERIOR Wall/Roof/Floor Panel Material	Thickness	Unit			
	Thickness	Non-Isolated	Isolated		
Galvanized Carbon Steel	18 ga	UUT 3,7,8 (a)	UUT 3,7,8 (b)		
Galvanized Carbon Steel	20 ga	UUT 1,2,4,5,6 (a)	UUT 1,2,4,5 (b)		

Table 3 - Insulation

MFR	Material	Thickness	Unit		
WIFK	Wateria	Material		Isolated	
Johns Manville	File and a c	0.500	UUT 2, 4 (a)	UUT 2, 4 (b)	
Johns Manville	Fiberglass	1.000	Extrapolated ¹	Extrapolated ¹	
Johns Manville	Fiberboard	0.625	Extrapolated	Extrapolated	
Johns Manville	Fiberboard	1.000	UUT 7 (a)	UUT 7 (b)	
Johns Manville	Fiberglass with Solid Metal	0.500	UUT 5 (a)	UUT 5 (b)	
Johns Manville	Fiberglass with Solid Metal	1.000	UUT 8 (a)	UUT 8 (b)	
Johns Manville	Fiberglass with Perforated Metal	0.500	UUT 6 (a)	UUT 6 (b)	
Nomaco		0.500	UUT 3 (a)	UUT 3 (b)	
Nomaco	Fiberfree	1.000	Extrapolated ¹	Extrapolated ¹	
Insulation tested on UUT 7 a	ind UUT 8	OSP-0378			
	14	036-0310			
e 4 - Hydronic Coils					

Table 4 - Hydronic Coils

Material: Galvanized Carbon Steel (Casing), Copper (Tubes and Header), Aluminum (Fins)

MFR	Dimer	Dimensions B		JPLan	Unit		
WER	Height [in.]	Width [in.]	Coil Row Qty	Pipe Qty	Non-Isolated	Isolated	
		16-25	1-8	2, 4	Extrapolated	Extrapolated	
		25	31/10	$\sqrt{2}$	UUT 1 (a)	UUT 1 (b)	
	8.75	25-50 D	ATE: 1-84/10)/2/2,4	Interpolated	Interpolated	
	8.75	50	4		UUT 3 (a)	UUT 3 (b)	
		50-60	1-8	2, 4	Interpolated	Interpolated	
		60	4	2	UUT 2 (a)	UUT 2 (b)	
Drice	10	21	6	2	UUT 4 (a)	UUT 4 (b)	
Price	10	21	1	2	UUT 5 (a)	UUT 5 (b)	
	10	21-60	1-8	2, 4	Interpolated	Interpolated	
	12.5	21-60	1-8	2, 4	Interpolated	Interpolated	
	12.5	60	A 6RIIII	DIN4U	UUT 6 (a)	Interpolated	
	12.5	22	801		UUT 7 (a)	UUT 7 (b)	
	12.5-21.25	22-56	1-8	2, 4	Interpolated	Interpolated	
	21.25	56	8	4	UUT 8 (a)	UUT 8 (b)	

Note: Tube outer diameter is 0.5", tube wall thickness is 0.016", fin thickness is 0.0045"



Table 5 - Fan Motor

			Tested Voltage				U	Init
MFR	Туре	HP	(V) - Phase Certified Voltage (V) -Phase		Speeds	Weight (lbs)	Non-Isolated	Isolated
		1/30	115 -1	115/208/240/277 -1	3	10	UUT 1 (a)	UUT 1 (b)
	Permanent Split	1/10	208/240 -1	115/208/240/277 -1	3	10	UUT 2 (a)	UUT 2 (b)
	Capacitor	1/8	115 -1	115/208/240/277 -1	3	10	UUT 5 (a)	UUT 5 (b)
	Capacitor	1/4	interpolated	115/208/240/277 -1	3	15	Interpolated	Extrapolated
Contor		1/2	115 -1	115/208/240/277 -1	3	20	UUT 6 (a)	Extrapolated
Genteq	Electronically Commutated	1/15	208/240 -1	115/208/240/277 -1	3	10	UUT 3 (a)	UUT 3 (b)
		1/8	208/240 -1	115/208/240/277 -1	3	15	UUT 3 (a)	UUT 3 (b)
		1/3	208/240 -1	115/208/240/277 -1	3	10	UUT 4 (a)	UUT 4 (b)
	Motor	1/2	interpolated	115/208/240/277 -1	3	15	Interpolated	Extrapolated
		3/4	208/240 -1	115/208/240/277 -1	3	20	UUT 6 (a)	Extrapolated
		1/2	extrapolated	115/208/240/277 -1	1	23	Extrapolated	Extrapolated
		3/4	115 -1	115/208/240/277 -1		27	UUT 7 (a)	UUT 7 (b)
		1.0	interpolated	115/208/240/277 -1	1	31	Interpolated	Interpolated
		1.5	interpolated	115/208/240/277 -1	1	37	Interpolated	Interpolated
Marathon	Permanent Split	3/4	interpolated	208/230/460/575 - 3		31	Interpolated	Interpolated
Marathon	Capacitor	1.0	interpolated	208/230/460/575 - 3	1	42	Interpolated	Interpolated
		1.5	interpolated	208/230/460/575 - 3		44	Interpolated	Interpolated
		2.0	interpolated	208/230/460/575 - 3	1 1	47	Interpolated	Interpolated
		3.0	interpolated	208/230/460/575 - 3	////1/	87	Interpolated	Interpolated
		5.0	460 -3	208/230/460/575 - 3	······································	89	UUT 8 (a)	UUT 8 (b)

Table 6a - Housed Fans (Direct Drive)

BY:Timothy J Piland

Material: Galvanized Steel (Wheel and Housing)

MFR	Fan Size (Dia x		Motor HP	Motor Weight	/ Fan Class	Unit		
WIEN	R Fan Size (Dia x Width) Fan Weight (lbs) Motor HP D ATE (lbs) (lbs)		Non-Isolated	Isolated				
	6" x 6"	7	1/30	7	1	OUUT 1 (a)	UUT 1 (b)	
Yilida	6" x 6"	7	-1/10	10	1	UUT 2 (a)	UUT 2 (b)	
	6" x 6"	7	1/15 & 1/8	10	1	UUT 3 (a)	UUT 3 (b)	
	9" x 4"	12	1/8	10	1	UUT 5 (a)	UUT 5 (b)	
Morrison	10" x 4"	15	1/2	15	1	UUT 4 (a)	UUT 4 (b)	
	12" x 6"	25	3/4	17		UUT6 (a)	Extrapolated	
ole 6b - Hou	sed Fans (Belt I	Drive)		A BUIL	DING			

Table 6b - Housed Fans (Belt Drive)

Material: Galvanized Steel (Wheel, Housing, and Fan Base)

Fan MFR	Fan Size (Dia x Width)	Fan Weight	Motor HP	Motor Woight	otor Weight Fan Class Non-Isolated	s Unit Isolated Isolated	
			Motor III	Motor Weight			
BCH	9" x 6"	15 lbs	1	30 lbs	1	UUT 7 (a)	UUT 7 (b)
BCHQ	15" x 9"	50 lbs	5	75 lbs	1	UUT 8 (a)	UUT 8 (b)



Table 7 - Flat Filter Rack and Options

MFR	Type	Frame Material Options	Dimensions		Unit	
	Туре	Frame Material Options	Width	Height	Non-Isolated	Isolated
	Bottom Slide-In w/ Bend Tabs	Galvanized Carbon Steel	25"	10"	UUT 2 (a)	UUT 2 (b)
	Swing-Down Access Panel	Painted Cold Rolled Carbon Steel	60"	10"	UUT 3 (a)	UUT 3 (b)
Price	Side Access Slide-In	Galvanized Carbon Steel	21"	10"	UUT 4 (a)	UUT 4 (b)
	Side Access Slide-In	Galvanized Carbon Steel	21"	10"	UUT 5 (a)	UUT 5 (b)
	Side Access Slide-In	Galvanized Carbon Steel	60"	12"	UUT 6 (a)	Interpolated
	Side Access Slide-In	Galvanized Carbon Steel	22"	15"	UUT 7 (a)	UUT 6 (b)
	Side Access Slide-In	Galvanized Carbon Steel	55"	24"	UUT 8 (a)	UUT 7 (b)
AAF	Media Option (Qty: 2)	Non Woven Synthetic	1" 1	hick	UUT 2, 3 (a)	UUT 2, 3 (b
AAF	Media Option (Qty: 2)	Non Woven Synthetic	2" Thick		UUT 5, 6 (a)	UUT 5 (b)
0	Media Option (Qty: 1)	Non Woven Synthetic	thetic 1"		UUT 4 (a)	UUT 4 (b)
Camfil Farr	Media Option (Qty: 2)	Non Woven Synthetic	2" Thick		UUT 7, 8 (a)	UUT 7, 8 (b

Table 8 - Electric Heat

MFR	kW	Tested Voltage (V) - Phase	Certified Voltage (V) - Phase	U	nit
	KVV	rested voltage (v) - Phase	Certified Voltage (V) - Fildse	Non-Isolated	Isolated
	0.5	208/240 -1	115/208/240/277 -1, 208/240/480/600-3	UUT 4 (a)	UUT 4 (b)
	1	Q-115-1 ()SP-	115/208/240/277 -1, 208/240/480/600-3	UUT 7 (a)	UUT 7 (b)
Price	1.5 - 12	interpolated	115/208/240/277 -1, 208/240/480/600-3	Interpolated	Interpolated
FIICE	13	208/240 -1	115/208/240/277 -1, 20 <mark>8/240/4</mark> 80/600-3	UUT 6 (a)	Interpolated
	14 - 35	interpolated	115/208/240/277 -1, 208/240/480/600-3	Interpolated	Interpolate
	40	480 -3 BY 0010V	115/208/240/277 -1, 208/240/480/600-3	UUT 8 (a)	UUT 8 (b)

Table 9 - Controls

MFR	Turne D	ATE: Weight	/ Voltage,	U	nit
	Туре	weight	Amperage	Non-Isolated	Isolated
	FC-PCS3 3 Speed Controller(250000-450)	< 1 lb		UUT 1, 2, 5 (a)	UUT 1, 2, 5 (b)
	PIC DDC Controller (250000-110)	< 1 lb		UUT 4, 6 (a)	UUT 4 (b)
-	PIC-FC DDC Controller (250000-210)	< 1 lb	N/A	UUT 1-3, 5, 7, 8 (a)	UUT 1-3, 5, 7, 8 (b)
Price Electronics	VAV Module (250000-160)	< 1 lb		UUT 4 (a)	UUT 4 (b)
	BACnet Module (250000-360)	< 1 lb		UUT 7, 8 (a)	UUT 7, 8 (b)
	SCR-DAT, 1 Phase	< 1 lb	480V, 10-45A	UUT 4, 6 (a)	UUT 4 (b)
	SCR-DAT, 3 Phase	< 1 lb	480V, 10-45A	UUT 7 (a)	UUT 7 (b)



Table 10 - Disconnect

MED	MFR Type Weight Voltage Rating		Amperage	Unit		
WIFK	туре	weight	vollage Ralling	Rating	Non-Isolated	Isolated
Legrand	Toggle Switch, Single Pole	< 1 lb	115V, 277V	15A	UUT 1, 3, 5 (a)	UUT 1, 3, 5 (b)
Legrand	Toggle Switch, Double Pole	< 1 lb	208V, 240V	30A	UUT 2 (a)	UUT 2 (b)
Eaton	Door Interlock Disconnect Switch	< 1 lb	600V	40A/60A/25A	UUT 4, 6-8 (a)	UUT 4, 7, 8 (b)

Table 11 - Fusing

MFR	Turne	Mainhé	Voltore Deting	Amperage	Unit		
MER	Туре	Weight	Voltage Rating	Rating	Non-Isolated	Isolated	
Littelfuse	Motor Fuse	< 1 lb	500V	1A - 20A	UUT 1-6 (a)	UUT 1-5 (b)	
Littelluse	Motor Fuse		600V	7A - 30A	UUT 7, 8 (a)	UUT 7, 8, (b)	
Table 12 - Contactors		OFUR CODE CON	10				

Table 12 - Contactors

MFR	Tune	Weight	Voltage Rating	Amperage	Unit	
WER	Туре	Weight	voltage Rating	Rating	Non-Isolated	Isolated
Hartland Controls	Magnetic Contactor, 1 Pole		24V	30A	UUT 4, 6 (a)	UUT 4 (b)
Hartiand Controls	Magnetic Contactor, 3 Pole	< 1 lb	24V	30A	UUT 7 (a)	UUT 7 (b)
Table 13 - Transformer	A	OSP-0378	(m)			

Table 13 - Transformer

MFR Mode	el Number	Туре	Weight	Voltage Rating			
			Timothy I Dilon		Rating	Non-Isolated	Isolated
HCT	-01E/HCT- 01D	120/24V Transformer	21b	120/24V O	40VA/50VA	UUT 1, 5, 7 (a)	UUT 1, 5, 7 (b)
	-03E/HCT- 03D	277/24V Transformer	ATE: 04/12021	277/24V	40VA/50VA	UUT 3, 5, 6 (a)	3, 5 (b)
Hartland Controls Ho	CT-05D	120,277/24V Transformer	2 lb	120,277/24V	50VA	Interpolated	Interpolated
H	CT-09D	208,240/24V Transformer	2 lb	208,240/24V	50VA	UUT 2, 4 (a)	UUT 2, 4 (b)
H	CT-51D	347/24V Transformer	2 lb	347/24V	50VA	Interpolated	Interpolated
H	CT-76D	480/24V Transformer	2 lb	480/24V	50VA	Interpolated	Interpolated
H	CT-78D	480,575/24V Transformer	2 lb	480,575/24V	50VA	UUT 8 (a)	UUT 8 (b)

Table 14 - Relay

MED	Туре	Weight (lbs)	Voltage Bating	Amperage	Unit		
MFR	туре	Weight (lbs)	Voltage Rating	Rating	Non-Isolated	Isolated	
Hartland Controls	General Purpose Switching Relay	<1	24V - 277V	12A	UUT 1, 2, 5, 6 (a)	UUT 1, 2, 5 (b)	

Table 15 - Airflow Switch

ſ	MFR	Turne	Waight	Pressure Setting	voltage Rating		Unit	
		Туре	Weight	Range	vollage Ralling	Rating	Non-Isolated	Isolated
	Cleveland Controls	Airflow Switch, SPDT	< 1 lb	0.05 in. WC	115V - 277V	15A, 300VA	UUT 7, 8 (a)	UUT 7, 8 (b)



Table 16 - Horizontal Oriented Dampers

Material: Galvanized Carbon Steel (Frame and Blades)

MFR	Hoight (in)	Width (in)	Diameter (in)	Other	U	nit
	Height (in)	Width (in)	Diameter (in)	Qty	Non-Isolated	Isolated
	N/A	N/A	8.00	2	Extrapolated	Extrapolated
	N/A	N/A	9.00	2	UUT 4 (a)	UUT 4 (b)
	N/A	N/A	10.00	2	Extrapolated	Extrapolated
	8.00	16.00	-	2	Interpolated	Interpolated
Price	8.00	21.00	-	2	Interpolated	Interpolated
	9.00	28.00	-	2	UUT 6 (a)	Interpolated
FILCE	9.25	16.25	-	2	UUT 7 (a)	UUT 7 (b)
	9.25	24.25	-	2	Interpolated	Interpolated
	11.25	30.25	-		Interpolated	Interpolated
	11.00	36.25	-	CARUSUECO	Interpolated	Interpolated
	16.25	37.25	-		Interpolated	Interpolated
	16.25	48.00		2	UUT 8 (a)	UUT 8 (b)
Damper actu	uators by Belimo (as	tested in UUT4,6,7	7,8)	OSHPD	4	

Table 17 - Accessories

Manufacturer	Description	Materials —	Unit			
Manufacturer	OSD-0378		Non-Isolated	Isolated		
	Mixing Box	Galv Carbon Steel	UUT 4,6,7,8 (a)	UUT 4,7,8 (b)		
	Primary/Fresh Air Inlet	Galv Carbon Steel	UUT 5 (a)	UUT 5 (b)		
Price	Inlet Silencer	Galv Carbon Steel	UUT 5,6 (a)	UUT 5 (b)		
Flice	Discharge Silencer	Galv Carbon Steel	UUT 5,6,8 (a)	UUT 5, 8 (b)		
	Drain Pan	Galv Carbon Steel	UUT 1-8 (a)	UUT 1-5, 7, 8 (b)		
	Access Panel	Galv Carbon Steel	UUT 3-8 (a)	UUT 3-5, 7, 8 (b)		



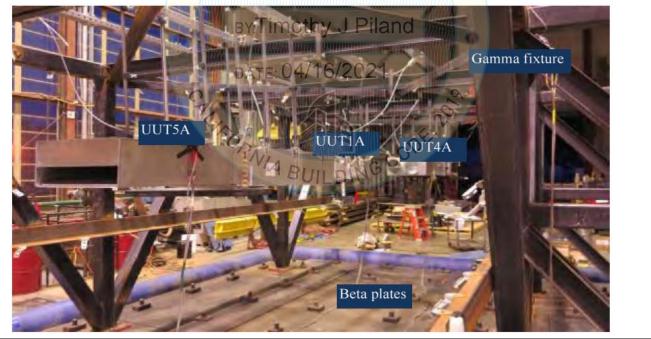


UUT #1A

Model Series: FCHCB Size 03

t Construction Summary:							
20 Gauge galvanized carbon steel							
20 Gauge galvanized carbon steel							
20 Gauge galvanized carbon steel							
nent Summary:							
ltom	[Dimension	S	Operating	Lowest	Natural Fr	equency
ltem	Depth	Width	Height	Weight	F-B	S-S	V
	38"	24"	10"	50 lb	na	na	na
Fan							
							\sim
	200	ODE					\sim
c Test Parameters:	COKL	ODE (
Qualification Method	Sds (g)	z/h	lp 🖉	A _{flx} -H (g)	A_{rig} -H (g)	A_{flx} -V (g)	A_{rig} -V (g)
	2.00	1.0	1.5	3.20	2.40	N/A	N/A
100-E3 A0130	2.50	0.0	1.5	N/A	N/A	1.67	0.67
	20 Gauge galvanized carbon steel nent Summary: Item Fan c Test Parameters:	20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel nent Summary: Item Item Salar Fan C Test Parameters: Qualification Method Sds (g) ICC-FS AC156	20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel nent Summary: Item Dimensions Depth Width 38" 24" Fan C Test Parameters: Qualification Method Sds (g) 2/h 2.00	20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel nent Summary: Item Dimensions Depth Width Height 38" 24" Fan 10" Fan 10" C Test Parameters: 0 Qualification Method Sds (g) z/h ICC-FS AC156 2.00 1.0 1.5	20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel nent Summary: Item Depth Width Height 38" 24" 10" 50 lb Fan 10" 50 lb Fan 10" 100 10" 100 10" 100 10" 100 10" 100 10" 100 10" 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 </td <td>20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel nent Summary: Item Dimensions Operating Lowest Bepth Width Height F-B 38" 24" 10" 50 lb na Fan Image: Solution of the state of the stat</td> <td>20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel nent Summary: Item Dimensions Operating Lowest Natural Free Bepth Width Height F-B S-S 38" 24" 10" 50 lb na na Fan 1 1 1 1 1 1 Crest Parameters: Qualification Method Sds (g) z/h Ip A_{ftx}-H (g) A_{ftx}-V (g) ICC-FS AC156 2.00 1.0 1.5 3.20 2.40 N/A</td>	20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel nent Summary: Item Dimensions Operating Lowest Bepth Width Height F-B 38" 24" 10" 50 lb na Fan Image: Solution of the state of the stat	20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel nent Summary: Item Dimensions Operating Lowest Natural Free Bepth Width Height F-B S-S 38" 24" 10" 50 lb na na Fan 1 1 1 1 1 1 Crest Parameters: Qualification Method Sds (g) z/h Ip A _{ftx} -H (g) A _{ftx} -V (g) ICC-FS AC156 2.00 1.0 1.5 3.20 2.40 N/A

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 Mounting Description:

Ceiling suspended unit, (4) 3/8" A307 rods spaced at 27" in depth and 3" in width, (4) L1x1x1/4 Angle Rod Stiffeners, (12) VMC SRBC-1 Rod Clamps, (4) VMC SB-125 Cable Brackets, (4) 1/8" Cables

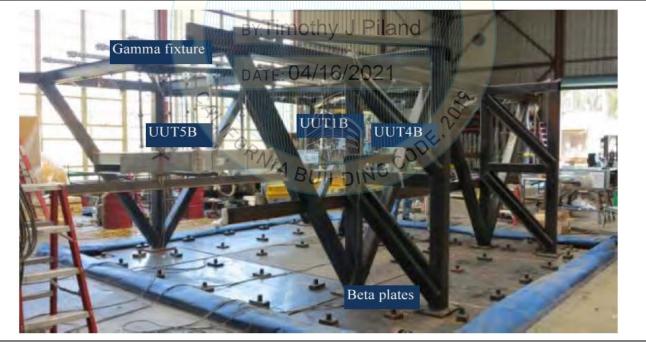


UUT #1B

Model Series: FCHCB Size 03

t Construction Summary:							
20 Gauge galvanized carbon steel							
20 Gauge galvanized carbon steel							
20 Gauge galvanized carbon steel							
nent Summary:							
ltom	[Dimension	S	Operating	Lowest	Natural Fr	equency
Item	Depth	Width	Height	Weight	F-B	S-S	V
	38"	24"	10"	50 lb	na na na		
Fan							
	00	ODE			\sim		\sim
c Test Parameters:	COKU	ODE (c_{0}	-	n		r
Qualification Method	Sds (g)	z/h	lp	A _{flx} -H (g)	A_{rig} -H (g)	A_{flx} -V (g)	A _{rig} -V (g)
	2.00	1	1.5	3.20	2.40	N/A	N/A
100-E3 A0150	2.50	0.0	1.5	N/A	N/A	1.67	0.67
	20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel nent Summary: Item Fan c Test Parameters:	20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel nent Summary: Item Depth 38" Fan C Test Parameters: Qualification Method Sds (g) ICC-FS AC156	20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel nent Summary: Item Dimension Depth Width 38" 24" Fan C Test Parameters: Qualification Method Sds (g) 2/h 1/2 2/2 2/3 3/3 3/3 3/3 3/3	20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel nent Summary: Item Dimensions Depth Width Height 38" 24" Fan 10" Fan 10" C Test Parameters: 2000 Qualification Method Sds (g) z/h ICC-FS AC156 2.00 1 1.5	20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel nent Summary: Item Depth Width Height 38" 24" 10" 50 Ib Fan 10" 50 Ib Fan 10" 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 100 10 <td< td=""><td>20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel nent Summary: Item Dimensions Operating Lowest F-B 38" 24" 10" 50 lb na Fan 38" 24" 10" 50 lb na Fan 1 1 1 1 1 1 C Test Parameters: Qualification Method Sds (g) z/h 1p A_{ftx}-H (g) A_{rig}-H (g) ICC-FS AC156 2.00 1 1.5 3.20 2.40</td><td>20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel nent Summary: Item Depth Width Height F-B S-S 38" 24" 10" 50 lb na na Fan 10" 50 lb na Crest Parameters: 200 Qualification Method Sds (g) 2.00 1 1.5 3.20 2.40 N/A</td></td<>	20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel nent Summary: Item Dimensions Operating Lowest F-B 38" 24" 10" 50 lb na Fan 38" 24" 10" 50 lb na Fan 1 1 1 1 1 1 C Test Parameters: Qualification Method Sds (g) z/h 1p A _{ftx} -H (g) A _{rig} -H (g) ICC-FS AC156 2.00 1 1.5 3.20 2.40	20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel nent Summary: Item Depth Width Height F-B S-S 38" 24" 10" 50 lb na na Fan 10" 50 lb na Crest Parameters: 200 Qualification Method Sds (g) 2.00 1 1.5 3.20 2.40 N/A

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 Mounting Description:

Ceiling suspended unit, (4) 3/8" A307 rods spaced at 27" in depth and 3" in width, (4) L1x1x1/4 Angle Rod Stiffeners, (12) VMC SRBC-1 Rod Clamps, (4) VMC SB-125 Cable Brackets, (4) 1/8" Cables, (4) VMC HRSA-1B-20 Hanger Box Vibration Isolators



UUT #2A

Model Series: FCHCP Size 12

t Construction Summary:							
20 Gauge galvanized carbon steel							
20 Gauge galvanized carbon steel							
20 Gauge galvanized carbon steel							
nent Summary:							
ltem		Dimension	S		Lowest	Natural Fr	equency
Item	Depth	Width	Height	Weight	F-B	S-S	V
	73"	31"	10"	135 lb	na	na	na
Fan							
	200	ODE					
c Test Parameters:	COKC	ODE (c_{0}	-	r	1	r
Qualification Method	Sds (g)	z/h	lp	A _{flx} -H (g)	A_{rig} -H (g)	A_{flx} -V (g)	A _{rig} -V (g)
	2.00	1	1.5	3.20	2.40	N/A	N/A
100-20 A0100	2.50	0.0	1.5	N/A	N/A	1.68	0.68
	20 Gauge galvanized carbon steel nent Summary: Item Fan c Test Parameters:	20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel nent Summary: Item Depth 73" Fan C Test Parameters: Qualification Method Sds (g) ICC-FS AC156	20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel nent Summary: Item Dimension Depth Width 73" 31" Fan C Test Parameters: Qualification Method Sds (g) 2/0	20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel nent Summary: Item Dimensions Depth Width Height 73" 31" Fan 10" Fan 10" C Test Parameters: 20 Gauge galvanized carbon steel Qualification Method Sds (g) z/h ICC-FS AC156 2.00 1 1.5	20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel nent Summary: Item Depth Width Height Weight 73" 31" 10" 135 lb Fan Item Fan Item Item Item 0 Item 73" 31" 10" 135 lb Fan Item Item Item 73" 31" 10" 135 lb Fan Item Item Item Item	20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel nent Summary: Item Dimensions Operating Lowest F-B 73" 31" 10" 135 lb na Fan Item I	20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel 20 Gauge galvanized carbon steel nent Summary: Item Depth Width Height F-B S-S 73" 31" 10" 135 lb Fan Image: Comparison of the status

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 Mounting Description:

Ceiling suspended unit, (4) 3/8" A307 rods spaced at 63" in depth and 18" in width, (4) L1x1x1/4 Angle Rod Stiffeners, (12) VMC SRBC-1 Rod Clamps, (4) VMC SB-250 Cable Brackets, (4) 1/4" Cables



UUT #2B

Model Series: FCHCP Size 12

Cabine	t Construction Summary:							
Base:	20 Gauge galvanized carbon steel							
Walls:	20 Gauge galvanized carbon steel							
Roof:	20 Gauge galvanized carbon steel							
Compo	nent Summary:							
	Item	[Dimension	S	Operating	Lowest	Natural Fr	equency
	item	Depth	Width	Height	Weight	F-B	S-S	V
Cabinet		73"	31"	10"	135 lb	na na na		
Housed	Fan							
Coil								
		00	ODE					
Seismie	c Test Parameters:	COKU	UDE (-	-		-
	Qualification Method	Sds (g)	z/h	1p	A _{flx} -H (g)	A_{rig} -H (g)	A_{flx} -V (g)	A_{rig} -V (g)
	ICC-ES AC156	2.00	. 1	1.5	3.20	2.40	N/A	N/A
	100-E0 A0150	2.50	0.0	1.5	N/A	N/A	1.67	0.67

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 Mounting Description:

Ceiling suspended unit, (4) 3/8" A307 rods spaced at 63" in depth and 18" in width, (4) L1x1x1/4 Angle Rod Stiffeners, (12) VMC SRBC-1 Rod Clamps, (4) VMC SB-250 Cable Brackets, (4) 1/4" Cables, (4) VMC HRSA-1B-50 Hanger Box Vibration Isolators



UUT #3A

Model Series: FCHE Size 40

Cabinet	Construction Summary:							
Base:	18 Gauge galvanized carbon steel							
Walls:	18 Gauge galvanized carbon steel							
Roof:	18 Gauge galvanized carbon steel							
Component Summary:								
	ltem	[Dimension	S	Operatin	Lowest	Natural Fr	equency
Depth Width Height g Weight F-B S-S V							V	
Cabinet		70"	30"	12"	245 lb	na	na	na
Housed	Fan							
Coil								
		00	ODE					
Seismic	: Test Parameters:	SOKC	ODE (\sim				
	Qualification Method	Sds (g)	z/h	lp S	A _{flx} -H (g)	A_{rig} -H (g)	A_{flx} -V (g)	A_{rig} -V (g)
	ICC-ES AC156	2.00	. 1	1.5	3.20	2.40	N/A	N/A
		2.50	0.0	1.5	N/A	N/A	1.67	0.67

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 Mounting Description:

Ceiling suspended unit, (4) 3/8" A307 rods spaced at 67" in depth and 26" in width, (4) L1x1x1/4 Angle Rod Stiffeners, (12) VMC SRBC-1 Rod Clamps, (4) VMC SB-250 Cable Brackets, (4) 1/4" Cables



UUT #3B

Model Series: FCHE Size 40

Cabinet	t Construction Summary:							
Base:	18 Gauge galvanized carbon steel							
Walls:	18 Gauge galvanized carbon steel							
Roof:	18 Gauge galvanized carbon steel							
Compo	nent Summary:							
	ltem	[Dimension	S	Operatin	Lowest	Natural Fr	equency
	liem	Depth	Width	Height	g Weight	F-B	S-S	V
Cabinet		70"	30"	12"	245 lb	na	na	na
Housed	Fan							
Coil								
		00	ODD					
Seismic	: Test Parameters:	COKL	ODE (
	Qualification Method	Sds (g)	z/h	1p	A _{flx} -H (g)	A_{rig} -H (g)	A_{flx} -V (g)	A_{rig} -V (g)
	ICC-ES AC156	2.00	1	1.5	3.20	2.40	N/A	N/A
		2.50	0.0	1.5	N/A	N/A	1.67	0.67

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 Mounting Description:

Ceiling suspended unit, (4) 1/2" A307 rods spaced at 67" in depth and 26" in width, (4) L1x1x1/4 Angle Rod Stiffeners, (12) VMC SRBC-1 Rod Clamps, (4) VMC SB-250 Cable Brackets, (4) 1/4" Cables, (4) VMC HRSA-1C-100 Hanger Box Vibration Isolators

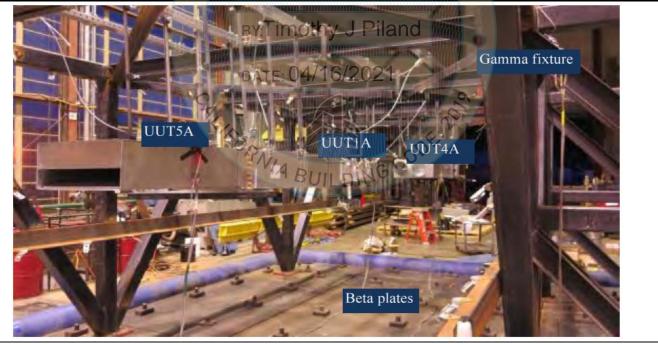


UUT #4A

Model Series: FCHG Size 30

Cabinet	Construction Summary:							
Base:	20 Gauge galvanized carbon steel							
Walls:	20 Gauge galvanized carbon steel							
Roof:	20 Gauge galvanized carbon steel							
Compon	ent Summary:							
	Item	[Dimension	S	Operating	Lowest	Natural Fr	equency
	item	Depth	Width	Height	Weight	F-B	S-S	V
Cabinet		39"	66"	10.5"	195 lb	na	na	na
Housed F	Fan							
Coil								
Electric H	leater							
Mixing Bo	OX							
		200	ODD					
Seismic	Test Parameters:	COKU	UDE (-		-
	Qualification Method	Sds (g)	z/h	lp	A _{flx} -H (g)	A_{rig} -H (g)	A_{flx} -V (g)	A_{rig} -V (g)
	ICC-ES AC156	2.00	1	1.5	3.20	2.40	N/A	N/A
	100-E0 A0100	2.50	0.0	1.5	N/A	N/A	1.67	0.67

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 Mounting Description:

Ceiling suspended unit, (6) 3/8" A307 rods, spaced at 23" in depth and 29,17" in width (6) L1x1x1/4 Angle Rod Stiffeners, (18) VMC SRBC-1 Rod Clamps, (4) VMC SB-250 Cable Brackets, (4) 1/4" Cables

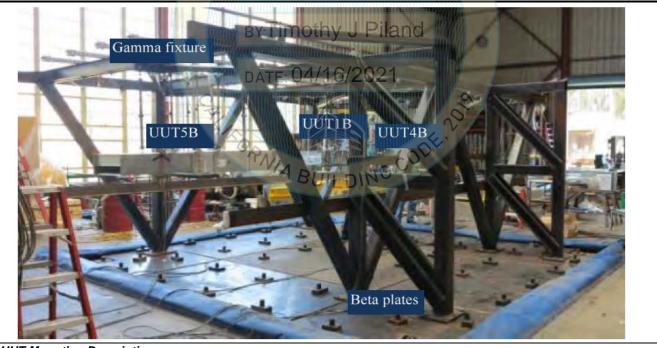


UUT #4B

Model Series: FCHG Size 30

Cabinet	t Construction Summary:							
Base:	20 Gauge galvanized carbon steel							
Walls:	20 Gauge galvanized carbon steel							
Roof:	20 Gauge galvanized carbon steel							
Component Summary:								
	ltem	[Dimension	S	Operating	Lowest	Natural Fr	equency
	item	Depth	Width	Height	Weight	F-B	S-S	V
Cabinet		39"	66"	10.5"	195 lb	na	na	na
Housed	Fan							
Coil								
Electric								\sim
Mixing E	Box							\sim
								\sim
		00	ODE			\sim	\sim	\sim
Seismic	c Test Parameters:	SOKC	UDE (
	Qualification Method	Sds (g)	z/h	lp 🖉	A _{flx} -H (g)	A_{rig} -H (g)	A_{flx} -V (g)	A_{rig} -V (g)
	ICC-ES AC156	2.00	1	1.5	3.20	2.40	N/A	N/A
	ICC-ES ACTO	2.50	0.0	1.5	N/A	N/A	1.67	0.67

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 Mounting Description:

Ceiling suspended unit, (6) 3/8" A307 rods spaced at 23" in depth and 29, 17" in width, (6) L1x1x1/4 Angle Rod Stiffeners, (18) VMC SRBC-1 Rod Clamps, (4) VMC SB-250 Cable Brackets, (4) 1/4" Cables, (6) VMC HRSA-1B-35 Hanger Box Vibration Isolators

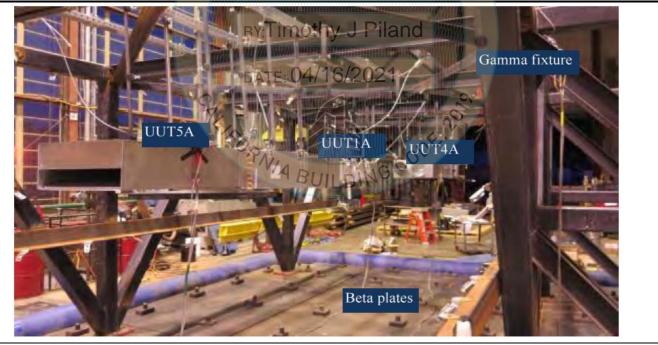


UUT #5A

Model Series: FCHGQ Size 20

Cabine	t Construction Summary:							
Base:	20 Gauge galvanized carbon steel							
Walls:	20 Gauge galvanized carbon steel							
Roof:	20 Gauge galvanized carbon steel							
Compo	nent Summary:							
	Item	[Dimension	S	Operating	Lowest	Natural Fr	equency
	Item	Depth	Width	Height	Weight	F-B	S-S	V
Cabinet		39"	91.5"	10.5"	165 lb	na	na	na
Housed	Fan							
Coil								
Dischar	ge Silencer							
Fresh A	ir Inlet						\sim	
							\sim	
		00	ODE				\sim	\sim
Seismic	c Test Parameters:	SOKC	UDE (
	Qualification Method	Sds (g)	z/h	lp 🖉	A _{flx} -H (g)	A_{rig} -H (g)	A_{flx} -V (g)	A_{rig} -V (g)
	ICC-ES AC156	2.00	1	1.5	3.20	2.40	N/A	N/A
	100-E3 A0150	2.50	0.0	1.5	N/A	N/A	1.67	0.67

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 Mounting Description:

Ceiling suspended unit, (10) 3/8" A307 rods spaced at 23" in depth and 13, 14, 16, 21" in width, (10) L1x1x1/4 Angle Rod Stiffeners, (30) VMC SRBC-1 Rod Clamps, (4) VMC SB-250 Cable Brackets, (4) 1/4" Cables

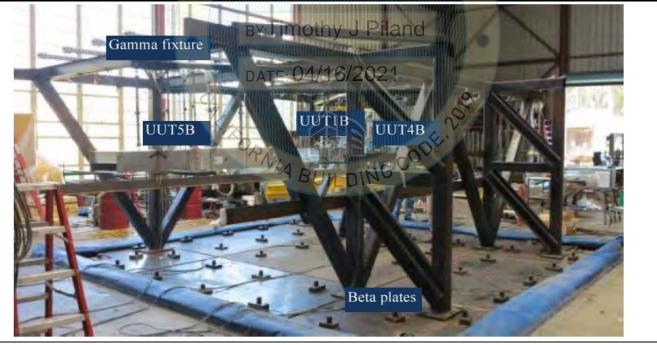


UUT #5B

Model Series: FCHGQ Size 20

Cabine	t Construction Summary:								
Base:	20 Gauge galvanized carbon steel								
Walls:	20 Gauge galvanized carbon steel								
Roof:	20 Gauge galvanized carbon steel								
Сотро	nent Summary:								
	Item	[Dimension	S	Operating	Lowest	Natural Fr	equency	
	item	Depth	Width	Height	Weight	F-B	S-S	V	
Cabinet		39"	91.5"	10.5"	165 lb	na	na na na		
Housed	Fan								
Coil								\sim	
Dischar	ge Silencer							\sim	
Fresh A	ir Inlet								
								\sim	
		00	ODE					\sim	
Seismi	c Test Parameters:	COKC	ODE (20,	T	r	n		
	Qualification Method	Sds (g)	z/h	lp	A _{flx} -H (g)	A_{rig} -H (g)	A_{flx} -V (g)	A_{rig} -V (g)	
	ICC-ES AC156	2.00	1	1.5	3.20	2.40	N/A	N/A	
	100-E0 A0150	2.50	0.0	1.5	N/A	N/A	1.67	0.67	

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 Mounting Description:

Ceiling suspended unit, (10) 3/8" A307 rods spaced at 23" in depth and 13, 14, 16, 21" in width, (10) L1x1x1/4 Angle Rod Stiffeners, (30) VMC SRBC-1 Rod Clamps, (4) VMC SB-250 Cable Brackets, (4) 1/4" Cables, (10) VMC HRSA-1B-35 Hanger Box Vibration Isolators



UUT #6A

Model Series: FCHGQ Size 70

Cabinet	Construction Summary:								
Base:	20 Gauge galvanized carbon steel								
Walls:	20 Gauge galvanized carbon steel								
Roof:	20 Gauge galvanized carbon steel								
Component Summary:									
	Item	[Dimension	S	Operating	Lowest	Natural Fr	equency	
	Item	Depth	Width	Height	Weight	F-B	S-S	V	
Cabinet 77" 148" 12.5" 720 lb na na na					na				
Housed Fan									
Coil									
Electric H									
Mixing B	OX								
Inlet Sile									
	e Silencer	00	ODE						
Seismic	Seismic Test Parameters:								
	Qualification Method	Sds (g)	z/h	1p	A _{flx} -H (g)	A _{rig} -H (g)	A_{flx} -V (g)	A_{rig} -V (g)	
	ICC-ES AC156	2.00	1	1.5	3.20	2.40	N/A	N/A	
	100-L3 A0130	2.50	0.0	1.5	N/A	N/A	1.67	0.67	

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 Mounting Description:

Ceiling suspended unit, (10) 5/8" A307 rods spaced at 62" in depth and 32, 36, 20, 39" in width, (10) L1x1x1/4 Angle Rod Stiffeners, (30) VMC SRBC-1 Rod Clamps, (8) VMC SB-250 Cable Brackets, (8) 1/4" Cables



UUT #7A

Model Series: BCH Size 08

Cabinet	Construction Summary:									
Base:	18 Gauge galvanized carbon steel									
Walls:	18 Gauge galvanized carbon steel									
Roof:	18 Gauge galvanized carbon steel									
Compo	Component Summary:									
	ltem	[Dimension	S	Operating	Lowest	Natural Fr	equency		
	Item	Depth	Width	Height	Weight	F-B	S-S	V		
Cabinet		30"	88"	15.6"	275 lb	na	na	na		
Housed	Fan									
Coil										
Electric								\sim		
Mixing B	Box							\sim		
								\sim		
		00	ODE			\sim	\sim	\sim		
Seismic	: Test Parameters:	COKC	ODE (\sim						
	Qualification Method	Sds (g)	z/h	lp	A _{flx} -H (g)	A_{rig} -H (g)	A_{flx} -V (g)	A_{rig} -V (g)		
	ICC-ES AC156	2.00	1	1.5	3.20	2.40	N/A	N/A		
		2.50	0.0	1.5	N/A	N/A	1.67	0.67		

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 Mounting Description:

Ceiling suspended unit, (8) 3/8" A307 rods spaced at 30" in depth and 22, 43, 18" in width, (8) L1x1x1/4 Angle Rod Stiffeners, (24) VMC SRBC-1 Rod Clamps, (4) VMC SB-250 Cable Brackets, (4) 1/4" Cables

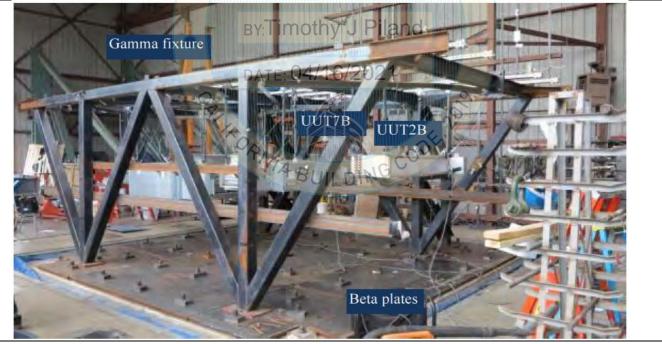


UUT #7B

Model Series: BCH Size 08

Cabinet	Construction Summary:							
Base:	18 Gauge galvanized carbon steel							
Walls:	18 Gauge galvanized carbon steel							
Roof:	18 Gauge galvanized carbon steel							
Component Summary:								
	ltem	[Dimension	S	Operating	Lowest	Natural Fr	equency
	item	Depth	Width	Height	Weight	F-B	S-S	V
Cabinet		30"	88"	15.6"	275 lb	na	na	na
Housed	Fan							
Coil								\sim
Electric								\sim
Mixing E	Box							\sim
								\sim
		00	ODE			\sim	\sim	\sim
Seismic	: Test Parameters:	SOKC	ODE (20.	-	n	r	
	Qualification Method	Sds (g)	z/h	lp 🖉	A _{flx} -H (g)	A_{rig} -H (g)	A_{flx} -V (g)	A_{rig} -V (g)
	ICC-ES AC156	2.00	1	1.5	3.20	2.40	N/A	N/A
	100-E3 AC130	2.50	0.0	1.5	N/A	N/A	1.67	0.67

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 Mounting Description:

Ceiling suspended unit, (6) 5/8" A307 rods spaced at 30" in depth and 22, 43, 18" in width, (6) L1x1x1/4 Angle Rod Stiffeners, (18) VMC SRBC-1 Rod Clamps, (4) VMC SB-250 Cable Brackets, (4) 1/4" Cables, (6) VMC HRSA-1B-50 Hanger Box Vibration Isolators



UUT #8A

Model Series: BCHQ Size 40

Cabinet	Construction Summary:							
Base:	18 Gauge galvanized carbon steel							
Walls:	18 Gauge galvanized carbon steel							
Roof:	18 Gauge galvanized carbon steel							
Compor	nent Summary:							
	Item	[Dimension	S	Operating	Lowest	Natural Fre	equency
	llem	Depth	Width	Height	Weight	F-B	S-S	V
Cabinet		65"	141"	25"	945 lb	na	na	na
Housed	Fan							
Coil								
Electric H	Heater							
Mixing B	OX							
Discharg	je Silencer							
		200	ODD			\sim		
Seismic	Test Parameters:	COKC	UDE (-	
	Qualification Method	Sds (g)	z/h	lp	A _{flx} -H (g)	A _{rig} -H (g)	A_{flx} -V (g)	A_{rig} -V (g)
	ICC-ES AC156	2.00	1	1.5	3.20	2.40	N/A	N/A
	100-L3 A0130	2.50	0.0	1.5	N/A	N/A	1.67	0.67

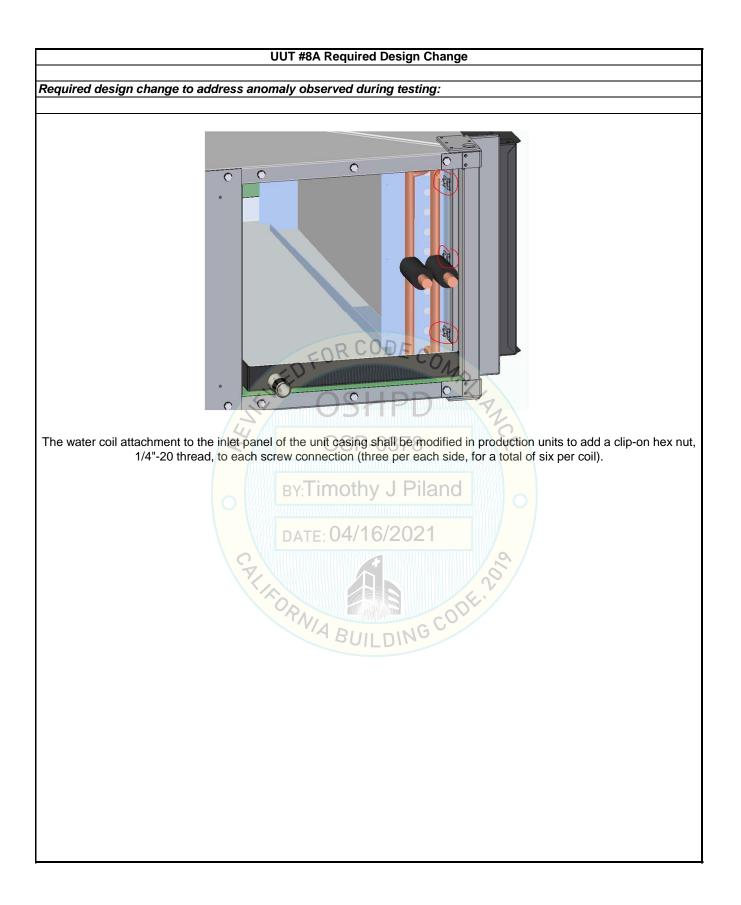
The UUT was operational before and after shaking and was full of operating content during the tests. The structural integrity of the component and attachment system and force-resisting systems was maintained, except for the anomaly resulting in the required design change noted on the following page.



UUT Mounting Description:

Ceiling suspended unit, (10) 3/8" A307 rods spaced at 65" in depth and 53, 1, 50, 27" in width, (10) L1x1x1/4 Angle Rod Stiffeners, (30) VMC SRBC-1 Rod Clamps, (12) VMC SB-250 Cable Brackets, (12) 1/4" Cables







UUT #8B

Model Series: BCHQ Size 40

Cabinet Construction Summary:								
Base:	18 Gauge galvanized carbon steel							
Walls:	18 Gauge galvanized carbon steel							
Roof:	18 Gauge galvanized carbon steel							
Component Summary:								
Item		Dimensions			Operating	Lowest Natural Frequency		
		Depth	Width	Height	Weight	F-B	S-S	V
Cabinet		65"	141"	25"	945 lb	na	na	na
Housed Fan								
Coil								
Electric Heater								
Mixing Box								
Discharge Silencer								
						\langle		
Seismic Test Parameters:								
	Qualification Method	Sds (g)	z/h	lp	A _{flx} -H (g)	A _{rig} -H (g)	A_{flx} -V (g)	A_{rig} -V (g)
	ICC-ES AC156		1	1.5	3.20	2.40	N/A	N/A
	100-L3 AC 130	2.50	0.0	1.5	N/A	N/A	1.67	0.67

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 Mounting Description:

Ceiling suspended unit, (8) 5/8" A307 rods spaced at 65" in depth and 53, 1, 50, 27" in width, (8) L1x1x1/4 Angle Rod Stiffeners, (24) VMC SRBC-1 Rod Clamps, (12) VMC SB-250 Cable Brackets, (12) 1/4" Cables, (8) VMC HRSA-1C-250 Hanger Box Vibration Isolators

