



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0537

OSHPD Special Seismic Certification Preapproval (OSP)

Type: ☐ New ☒ Renewal

Manufacturer Information

Manufacturer: Mitsubishi Electric US

Manufacturer's Technical Representative: Jeremy Tidd

Mailing Address: 1240 Satellite Blvd., Suwanee, GA 30024

Telephone: (770) 685-7387

Email: jtidd@hvac.mea.com

Product Information

Product Name: Air Conditioning Units

Product Type: Air Conditioning Units - Split

Product Model Number: Varies (See attachment)

General Description: HVAC equipment including outdoor units, indoor units, and system branch controllers. Seismic enhancements made to the test units and modifications required to address the anomalies observed during the tests shall be incorporated into the production units

Mounting Description: Varies (See attachment), Varies (See attachment)

Applicant Information

Applicant Company Name: TRU Compliance, by Structural Integrity Associates, Inc.

Contact Person: Katie Braman

Mailing Address: 5215 Hellyer Ave., Suite 210, San Jose, CA 95138

Telephone: (844) 878-0200

Email: kbraman@structint.com

Title:



**OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION**

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

Company Name: STRUCTURAL INTEGRITY ASSOCIATES, INC.

Name: Andrew Coughlin California License Number: S6082

Mailing Address: 5215 Hellyer Ave, Suite 101, San Jose, CA 951381025

Telephone: (415) 635-8461 Email: acoughlin@structint.com

Certification Method

☐ GR-63-Core ☒ ICC-ES AC156 ☐ IEEE 344 ☐ IEEE 693 ☐ NEBS 3
☐ Other (Please Specify): _____

Testing Laboratory

Company Name: ENVIRONMENTAL TESTING LABORATORIES, INC. (ETL)

Contact Person: Jeremy Lange

Mailing Address: 11034 Indian Trail, Dallas TX 75229

Telephone: (972) 247-9657 Email: Jeremy@etldallas.com

Company Name: UNIVERSITY OF CALIFORNIA, BERKELEY (PEER)

Contact Person: Nate Knight

Mailing Address: 1301 South 46th Street, Bldg 420, Richmond CA 94804

Telephone: (510) 665-2135 Email: peer_center@berkeley.edu

Company Name: QUALTECH/CURTISS WRIGHT/TRENTEC

Contact Person: Jerry Newberry

Mailing Address: 4600 East Tech Drive, Cincinnati OH 45245

Telephone: (513) 528-7900 Email: jnewberry@curtisswright.com



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) = 1.50 (SDS = 2.00 @ $z/h = 1$); 1.13 (SDS = 2.50 @ $z/h = 0$)

SDs (Design spectral response acceleration at short period, g) = 2.00 ($z/h = 1$); 2.50 ($z/h = 0$)

a_p (Amplification factor) = 2.5

R_p (Response modification factor) = 6.0

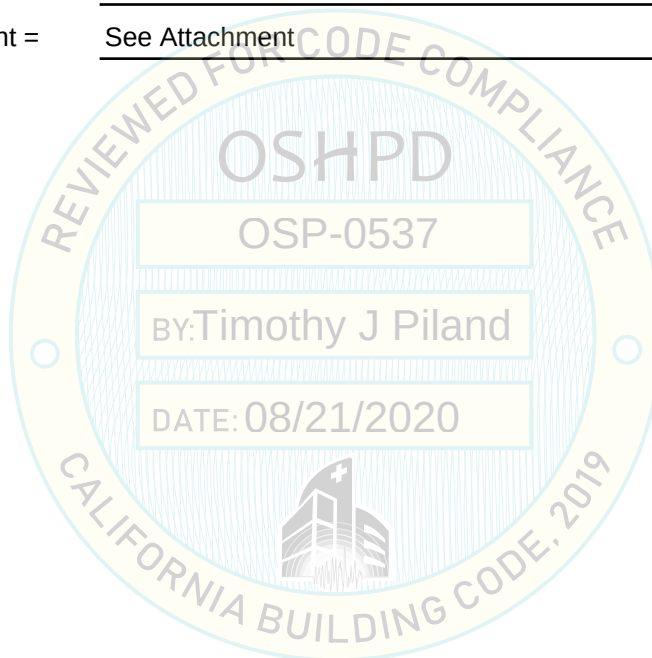
Ω_0 (System overstrength factor) = 2.0

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: 8/21/2020

Name: Timothy Piland

Title: Senior Structural Engineer

Special Seismic Certification Valid Up to: SDS (g) = See Above

z/h = See Above

Condition of Approval (if applicable): _____



SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

1800692-CR-002-R2



Manufacturer: Mitsubishi Electric US						TABLE 1	
Model Line: P-Series and S-Series Outdoor Base Mounted Units							
Certified Product Construction Summary: Carbon steel cabinet construction							
Certified Options Summary: UUT 1,2,5,6, 27, 28 :Single Phase, 60 Hz, 208/230V; Heat pump or cooling only UUTs 29-34: Three Phase, 60hZ, 208/230V or 460V Products ending in -BS (Mitsubishi) & -AB(Trane) are not included in tables, but are acceptable for installations as additional letter denotes corrosion resistant coating on coils which does not affect the mass of the unit.							
Mounting Configuration: Base Mounted - Rigid Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.							
Building Code:		CBC 2019		Seismic Certification Limits:		2.0 g z/h=1.0 I_p= 1.5	
Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
PUZ Outdoor Heat Pumps (P-Series)	PUZ-A12NKA7	11.6	31.5	23.6	90	² TRUZA0121KA70NA ³ ASUZA0121KA70NA	1
	PUZ-A18NKA7	11.8	31.9	24.8	99	² TRUZA0181KA70NA ³ ASUZA0181KA70NA	Interp
	PUZ-A24NHA7	13	37.4	37.1	151	² TRUZA0241HA70NA ³ ASUZA0241HA70NA	Interp
	PUZ-A30NHA7	13	37.4	37.1	151	² TRUZA0301HA70NA ³ ASUZA0301HA70NA	Interp
	PUZ-A36NKA7 ^{1,5}	13	37.4	53.2	258	² TRUZA0361KA70NA ³ ASUZA0361KA70NA	2
	PUZ-A42NKA7 ^{1,5}	13	41.3	52.7	258	² TRUZA0421KA70NA ³ ASUZA0421KA70NA	Extrap
PUY ⁴ Outdoor Condensers, Cooling Only (P-Series)	PUY-A12NKA7	11.8	31.9	24.8	92	² TRUYA0121KA70NA ³ ASUYA0121KA70NA	Interp
	PUY-A18NKA7	11.8	31.9	24.8	99	² TRUYA0181KA70NA ³ ASUYA0181KA70NA	Interp
	PUY-A24NHA7	13	37.4	37.1	151	² TRUYA0241HA70NA ³ ASUYA0241HA70NA	Interp
¹ Requires seismic enhancement: (1) additional 1/8" x 16.5" x 1" carbon steel flat bar attached to unit with 93) #12-3/4" screws and (1) #14 - 3/4" screw is to be attached above foot. ² Alternate model number for Trane branded product line. Unit is identical. ³ Alternate model number for American Standard branded product line. Unit is identical. ⁴ PUY units are identical to PUZ but lack a four-way valve. ⁵ PUZ-A36NKA7 and PUZ-A42NKA7 vary only in software.							

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

1800692-CR-002-R2



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Mounting Configuration: Base Mounted - Rigid Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.							
Building Code:		CBC 2019		Seismic Certification Limits:		2.0 g z/h=1.0 I_p= 1.5	
Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
PUY ⁴ Outdoor Condensers, Cooling Only (P-Series)	PUY-A30NHA7	13	37.4	37.1	151	² TRUYA0301HA70NA ³ ASUYA0301HA70NA	Interp
	PUY-A36NKA7 ¹	13	41.3	52.7	258	² TRUYA0361KA70NA ³ ASUYA0361KA70NA	Interp
	PUY-A42NKA7 ¹	13	41.3	52.7	258	² TRUYA0421KA70NA ³ ASUYA0421KA70NA	Interp
PUY/PUZ Outdoor Heat Pump Single Fan	PUY-A12NHA3	13.8	31.5	23.6	90		27
	PUY-A18	13.8	31.5	23.6	90		Interp
	PUY-A24	14.2	37.4	37.1	163		Interp
	PUY-A30	14.2	37.4	37.1	163		Interp
	PUY-A36	14.2	37.4	37.1	163		Interp
	PUZ-A18	14.2	31.5	37.1	165		Interp
	PUZ-A24	14.2	37.4	37.1	165		Interp
PUY/PUZ Outdoor Heat Pump Single Fan	PUZ-A30	14.2	37.4	37.1	165		Interp
	PUZ-A36NHA3	14.2	37.4	37.1	165		28
PUMY City Multi (S- Series)	PUMY-P36NKMU2 ^{1,6}	13	37.4	52.7	269	² TUMYP0361AK42BA	Extrap
	PUMY-P36NKMU1 ¹	13	37.4	52.7	287		Extrap

¹ Requires seismic enhancement: (1) additional 1/8" x 16.5" x 1" carbon steel flat bar attached to unit with 93) #12-3/4" screws and (1) #14 - 3/4" screw is to be attached above foot.

² Alternate model number for Trane branded product line. Unit is identical.

³ Alternate model number for American Standard branded product line. Unit is identical.

⁴ PUY units are identical to PUZ but lack a four-way valve.

⁶ PUMY-P####NKMU2 are identical to PUMY-P####NKMU1 except for software, resistors, and capacitors which all weigh less than 10lbs. Additionally, the PUMY-P####NKMU2 heat exchanger and condenser are lighter, but mounting/location is identical.

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Mounting Configuration: Base Mounted - Rigid Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.							
Building Code:		CBC 2019		Seismic Certification Limits:		2.0 g z/h=1.0 I _p = 1.5	
Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
PUMY City Multi (S-Series)	PUMY-P48NKMU2 ^{1,6}	13	37.4	52.7	287	² TUMYP0481AK42BA	Extrap
	PUMY-P48NKMU1 ¹	13	37.4	52.7	287		6
	PUMY-P60NKMU2 ^{1,6}	13	37.4	53.2	306	² TUMYP0601AK42BA	Interp
	PUMY-P60NKMU1 ¹	13	37.4	53.2	306		5
PQRY/PQHY Outdoor Heat Recovery/Heat Pump	PQRY-P72TLMU-A	21.7	34.7	43.3	380	² TQRYP0723AL41AN	29
	PQRY-P72YLMU-A	21.7	34.7	43.3	404	² TQRYP0724AL41AN	Interp
	PQHY-P72TLMU-A	21.7	34.7	43.3	384	² TQHYP0723AL41AN	Interp
	PQHY-P72YLMU-A	21.7	34.7	43.3	408	² TQHYP0724AL41AN	Interp
	PQRY-P96TLMU-A	21.7	34.7	43.3	380	² TQRYP0963AL41AN	Interp
	PQRY-P96YLMU-A	21.7	34.7	43.3	404	² TQRYP0964AL41AN	Interp
	PQHY-P96TLMU-A	21.7	34.7	43.3	384	² TQHYP0963AL41AN	Interp
	PQHY-P96YLMU-A	21.7	34.7	43.3	408	² TQHYP0964AL41AN	Interp
	PQRY-P120TLMU-A	21.7	34.7	43.3	380	² TQRYP1203AL41AN	Interp
	PQRY-P120YLMU-A	21.7	34.7	43.3	404	² TQRYP1204AL41AN	Interp
	PQHY-P120TLMU-A	21.7	34.7	43.3	384	² TQHYP1203AL41AN	Interp
	PQHY-P120YLMU-A	21.7	34.7	43.3	408	² TQHYP1204AL41AN	Interp
	PQRY-P144TLMU-A	21.7	34.7	57.1	479	² TQRYP1443AL41AN	Interp
	PQRY-P144YLMU-A	21.7	34.7	57.1	505	² TQRYP1444AL41AN	Interp
	PQHY-P144TLMU-A	21.7	34.7	57.1	481	² TQHYP1443AL41AN	Interp
	PQHY-P144YLMU-A	21.7	34.7	57.1	508	² TQHYP1444AL41AN	Interp

¹ Requires seismic enhancement: (1) additional 1/8" x 16.5" x 1" carbon steel flat bar attached to unit with 93) #12-3/4" screws and (1) #14 - 3/4" screw is to be attached above foot

² Alternate model number for Trane branded product line. Unit is identical.

⁶ PUMY-P####NKMU2 are identical to PUMY-P####NKMU1 except for software, resistors, and capacitors which all weigh less than 10lbs. Additionally, the PUMY-P####NKMU2 heat exchanger and condenser are lighter, but mounting/location is identical.

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Certified Options Summary: UUT 1,2,5,6, 27, 28 :Single Phase, 60 Hz, 208/230V; Heat pump or cooling only UUTs 29-34: Three Phase, 60hZ, 208/230V or 460V Products ending in -BS (Mitsubishi) & -AB(Trane) are not included in tables, but are acceptable for installations as additional letter denotes corrosion resistant coating on coils which does not affect the mass of the unit.							
Mounting Configuration: Base Mounted - Rigid Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.							
Building Code:		CBC 2019		Seismic Certification Limits:		2.0 g z/h=1.0 I_p= 1.5	
Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
PQRY/PQHY Outdoor Heat Recovery/Heat Pump	PQRY-P168TLMU-A	21.7	34.7	57.1	479	² TQRYP1683AL41AN	Interp
	PQRY-P168YLMU-A	21.7	34.7	57.1	505	² TQRYP1684AL41AN	Interp
	PQHY-P168TLMU-A	21.7	34.7	57.1	481	² TQHYP1683AL41AN	Interp
	PQHY-P168YLMU-A	21.7	34.7	57.1	508	² TQHYP1684AL41AN	Interp
	PQRY-P192TLMU-A	21.7	34.7	57.1	479	² TQRYP1923AL41AN	Interp
	PQRY-P192YLMU-A	21.7	34.7	57.1	505	² TQRYP1924AL41AN	Interp
	PQHY-P192TLMU-A	21.7	34.7	57.1	481	² TQHYP1923AL41AN	Interp
	PQHY-P192YLMU-A	21.7	34.7	57.1	508	² TQHYP1924AL41AN	Interp
	PQRY-P216TLMU-A	21.7	34.7	57.1	556	² TQRYP2163AL41AN	Interp
	PQRY-P216YLMU-A	21.7	34.7	57.1	571	² TQRYP2164AL41AN	Interp
	PQHY-P216TLMU-A	21.7	34.7	57.1	558	² TQHYP2163AL41AN	Interp
	PQHY-P216YLMU-A	21.7	34.7	57.1	574	² TQHYP2164AL41AN	Interp
	PQRY-P240TLMU-A	21.7	34.7	57.1	556	² TQRYP2403AL41AN	Interp
	PQRY-P240YLMU-A	21.7	34.7	57.1	571	² TQRYP2404AL41AN	Interp
	PQHY-P240TLMU-A	21.7	34.7	57.1	558	² TQHYP2403AL41AN	Interp
	PQHY-P240YLMU-A	21.7	34.7	57.1	574	² TQHYP2404AL41AN	30
PUHY/PURY Outdoor Heat Recovery Heat Pump Air Source	PUHY-P72TKMU-A	29.2	36.3	65.0	430		Extrap
	PUHY-P72YKMU-A	29.2	36.3	65.0	463		Extrap
	PURY-P72TLMU-A	29.2	36.3	65.0	444		Extrap
	PURY-P72YLMU-A	29.2	36.3	65.0	474		Extrap
	PUHY-P72TLMU-A	29.2	36.3	65.0	435		31
	PUHY-P72YLMU-A	29.2	36.3	65.0	468		Interp
	PURY-P72TKMU-A	29.2	48.1	65.0	503		Interp

² Alternate model number for Trane branded product line. Unit is identical.

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Mounting Configuration:							
Base Mounted - Rigid							
Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.							
Building Code:		CBC 2019		Seismic Certification Limits:		2.0 g z/h=1.0 I _p = 1.5	
Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
PUHY/PURY Outdoor Heat Recovery Heat Pump Air Source	PURY-P72YKMU-A	29.2	48.1	65.0	534		Interp
	PURY-HP72TKMU-A-H	29.2	48.1	65.0	552		Interp
	PURY-HP72YKMU-A	29.2	48.1	65.0	574		Interp
	PURY-HP72YKMU-A-H	29.2	48.1	65.0	580		Interp
	PURY-HP72TNU-A	29.3	49.3	71.6	609	² TURYH0723AN40AN	Interp
	PURY-HP72YNU-A	29.3	49.3	71.0	609	² TURYH0724AN40AN	Interp
	PURY-EP72TNU-A	29.2	36.3	71.6	580	² TURYE0723AN40AN	Interp
	PURY-EP72YNU-A	29.2	36.3	71.6	580	² TURYE0724AN40AN	Interp
	PUHY-HP72TNU-A	29.3	49.3	71.6	609	² TUHYH0723AN40AN	Interp
	PUHY-HP72YNU-A	29.3	49.3	71.0	609	² TUHYH0724AN40AN	Interp
	PUHY-EP72TNU-A	29.2	36.3	71.6	580	² TUHYE0723AN40AN	Interp
	PUHY-EP72YNU-A	29.2	36.3	71.6	580	² TUHYE0724AN40AN	Interp
	PURY-P96TLMU-A	29.2	48.1	65.0	503		Interp
	PURY-P96YLMU-A	29.2	48.1	65.0	534		Interp
	PUHY-P96TLMU-A	29.2	48.1	65.0	499		Interp
	PUHY-P96YLMU-A	29.2	48.1	65.0	532		Interp
	PUHY-P96TKMU-A	29.2	48.1	65.0	532		Interp
	PUHY-P96YKMU-A	29.2	48.1	65.0	558		Interp
	PUHY-EP96TNU-A	29.2	49.3	71.6	628	² TUHYE0963AN40AN	Interp
	PUHY-EP96YNU-A	29.2	49.3	71.6	628	² TUHYE0964AN40AN	Interp
	PUHY-HP96TNU-A	29.2	49.3	71.6	688	² TUHYH0963AN40AN	Interp
	PUHY-HP96YNU-A	29.2	49.3	71.6	688	² TUHYH0964AN40AN	Interp
	PURY-P96TKMU-A	29.2	48.1	65.0	538		Interp

² Alternate model number for Trane branded product line. Unit is identical.

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Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
PUHY/PURY Outdoor Heat Recovery Heat Pump Air Source	PURY-P96YKMU-A	29.2	48.1	65.0	574		Interp
	PURY-HP96TKMU-A-H	29.2	48.1	65.0	552		Interp
	PURY-HP96YKMU-A	29.2	48.1	65.0	576		Interp
	PURY-HP96YKMU-A-H	29.2	48.1	65.0	580		Interp
	PURY-EP96TNU-A	29.2	48.9	71.6	580	² TURYE0963AN40AN	Interp
	PURY-EP96YNU-A	29.2	48.9	71.6	580	² TURYE0964AN40AN	Interp
	PURY-HP96TNU-A	29.2	49.3	71.6	688	² TURYH0963AN40AN	Interp
	PURY-HP96YNU-A	29.2	49.3	71.6	688	² TURYH0964AN40AN	Interp
	PURY-HP120TNU-A	29.2	49.3	71.6	691	² TURYH1203AN40AN	Interp
	PURY-HP120YNU-A	29.2	49.3	71.6	691	² TURYH1204AN40AN	Interp
	PUHY-P120TKMU-A	29.2	65.0	68.9	697		Interp
	PUHY-P120YKMU-A	29.2	65.0	68.9	726		Interp
	PURY-P120TKMU-A	29.2	65.0	68.9	715		Interp
	PURY-P120YKMU-A	29.2	65.0	68.9	743		Interp
	PURY-P120TLMU-A	29.2	65.0	68.9	695		Interp
	PURY-P120YLMU-A	29.2	65.0	68.9	730		Interp
	PUHY-P120TLMU-A	29.2	65.0	68.9	671		Interp
	PUHY-P120YLMU-A	29.2	65.0	68.9	706		Interp
	PURY-EP120TNU-A	29.2	48.9	71.6	706	² TURYE1203AN40AN	Interp
	PURY-EP120YNU-A	29.2	48.9	71.6	706	² TURYE1204AN40AN	Interp
	PUHY-EP120TNU-A	29.2	48.9	71.6	706	² TUHYE1203AN40AN	Interp
	PUHY-EP120YNU-A	29.2	48.9	71.6	706	² TUHYE1204AN40AN	Interp
	PUHY-HP120TNU-A	29.2	49.3	71.6	691	² TUHYH1203AN40AN	Interp

² Alternate model number for Trane branded product line. Unit is identical.

² Alternate model number for Trane branded product line. Unit is identical.

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

1800692-CR-002-R2



Manufacturer: Mitsubishi Electric US						TABLE 1	
Model Line: P-Series and S-Series Outdoor Base Mounted Units							
Certified Product Construction Summary: Carbon steel cabinet construction							
Certified Options Summary: UUT 1,2,5,6, 27, 28 :Single Phase, 60 Hz, 208/230V; Heat pump or cooling only UUTs 29-34: Three Phase, 60hZ, 208/230V or 460V Products ending in -BS (Mitsubishi) & -AB(Trane) are not included in tables, but are acceptable for installations as additional letter denotes corrosion resistant coating on coils which does not affect the mass of the unit.							
Mounting Configuration: Base Mounted - Rigid Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.							
Building Code:		CBC 2019		Seismic Certification Limits:		2.0 g z/h=1.0 I_p= 1.5	
Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
PUHY/PURY Outdoor Heat Recovery Heat Pump Air Source	PUHY-HP120YNU-A	29.2	49.3	71.6	691	² TUHYH1204AN40AN	Interp
	PURY-P144TLMU-A	29.2	65.0	68.9	695		Interp
	PURY-P144YLMU-A	29.2	65.0	68.9	730		Interp
	PUHY-P144TLMU-A	29.2	65.0	68.9	671		Interp
	PUHY-P144YLMU-A	29.2	65.0	68.9	706		Interp
	PUHY-P144TKMU-A	29.2	65.0	68.9	697		Interp
	PUHY-P144YKMU-A	29.2	65.0	68.9	726		Interp
	PURY-P144TKMU-A	29.2	65.0	68.9	715		Interp
	PURY-P144YKMU-A	29.2	65.0	68.9	743		Interp
	PURY-EP144TNU-A	29.2	48.9	71.6	743	² TURYE1443AN40AN	Interp
	PURY-EP144YNU-A	29.2	48.9	71.6	743	² TURYE1444AN40AN	Interp
	PUHY-EP144TNU-A	29.2	48.9	71.6	743	² TUHYE1443AN40AN	Interp
	PUHY-EP144YNU-A	29.2	48.9	71.6	743	² TUHYE1444AN40AN	Interp
	PURY-P168TLMU-A	29.2	65.0	68.9	702		Interp
	PUHY-P168TLMU-A	29.2	65.0	68.9	702		Interp
	PUHY-P168YLMU-A	29.2	65.0	68.9	702		Interp
	PURY-P168YLMU-A	29.2	65.0	68.9	702		32
	PURY-EP168YNU-A	29.2	68.9	71.6	741	² TURYE1684AN40AN	Interp
	PURY-EP168TNU-A	29.2	68.9	71.6	741	² TURYE1683AN40AN	Interp
	PUHY-EP168YNU-A	29.2	68.9	71.6	741	² TUHYE1684AN40AN	33
	PUHY-EP168TNU-A	29.2	68.9	71.6	775	² TUHYE1683AN40AN	Interp
	PURY-EP192YNU-A	29.2	68.9	71.6	775		Interp
	PURY-EP192TNU-A	29.2	68.9	71.6	775		Interp

² Alternate model number for Trane branded product line. Unit is identical.

² Alternate model number for Trane branded product line. Unit is identical.

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SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

1800692-CR-002-R2



Manufacturer: Mitsubishi Electric US						TABLE 2	
Model Line: P-Series Ducted Indoor Ceiling Suspended Units							
Certified Product Construction Summary: Carbon steel cover							
Certified Options Summary: PAC-SJ41TM-E certified for PLFY units multifunction casements.							
Mounting Configuration: Ceiling Suspended/Mounted - Rigid Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.							
Building Code:		CBC 2019		Seismic Certification Limits:		2.0 g z/h=1.0 I_p= 1.5	
Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
PEAD Horizontal Ducted	PEAD-A09AA7	29	39.4	9	58	² TPEADA0091AA70A	Extrap
	PEAD-A12AA7	29	39.4	9	58	² TPEADA0121AA70A	3
	PEAD-A15AA7	29	39.4	9.9	62	² TPEADA0151AA70A	Interp
	PEAD-A18AA7	29	39.4	9.9	62	² TPEADA0181AA70A	Interp
	PEAD-A24AA7	29	39.4	9.9	73	² TPEADA0241AA70A	Interp
	PEAD-A30AA7	29	39.4	9.9	73	² TPEADA0301AA70A	Interp
	PEAD-A36AA7	29	39.4	9.9	91	² TPEADA0361AA70A	Interp
	PEAD-A42AA7	29	59	14	91	² TPEADA0421AA70A	4
PMFY Indoor Ceiling Cassette 1-Way	PMFY-P06NBMU-E	32.0	15.6	9.2	38	² TPMFYP006BM140F	15
	PMFY-P06	32.0	15.6	9.2	38	² TPMFYP006BM140F	Interp
	PMFY-P08	32.0	15.6	9.2	38	² TPMFYP008BM140F	Interp
	PMFY-P12	32.0	15.6	9.2	38	² TPMFYP012BM140F	Interp
	PMFY-P15	32.0	15.6	9.2	38	² TPMFYP015BM140F	Interp
	PMFY-P15NBMU-E	32.0	15.6	9.2	38	² TPMFYP015BM140F	16
PLFY Indoor Ceiling Cassette 4-Way	PLFY-P05	24.6	24.6	8.6	42	² TPLFYP005FM140A	Extrap
	PLFY-EP06	33.1	33.1	10.2	46	² TPLFYP006EM140A	Extrap
	PLFY-P08	33.1	33.1	10.2	42	² TPLFYP008FM140A	Extrap
	PLFY-EP08	33.1	33.1	10.2	46	² TPLFYP006EM140A	Extrap
	PLFY-P12NBMU-E	33.1	33.1	10.2	49	² TPLFYP012FM140A	17
	PLFY-P12NF	37.3	37.3	15	76	UUT: with PAC-SJ41TM-E accessory ² TPLFYP012FM140A	12
	PLFY-EP12	33.1	33.1	10.2	46	² TPLFYP012EM140A	Interp
Note: ² Alternate model number for Trane branded product line. Unit is identical.							

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

1800692-CR-002-R2



Manufacturer: Mitsubishi Electric US						TABLE 2	
Model Line: P-Series Ducted Indoor Ceiling Suspended Units							
Certified Product Construction Summary: Carbon steel cover							
Certified Options Summary: PAC-SJ41TM-E certified for PLFY units multifunction casements.							
Mounting Configuration: Ceiling Suspended/Mounted - Rigid Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.							
Building Code:		CBC 2019		Seismic Certification Limits:		2.0 g z/h=1.0 I_p= 1.5	
Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
PLFY Indoor Ceiling Cassette 4-Way	PLFY-P15	33.1	33.1	10.2	42	² TPLFY-P15FM140A	Interp
	PLFY-EP15	33.1	33.1	10.2	46	² TPLFY-P15EM140A	Interp
	PLFY-P18	33.1	33.1	10.2	42	² TPLFY-P18FM140A	Interp
	PLFY-EP18	33.1	33.1	10.2	46	² TPLFY-P18EM141A	Interp
	PLFY-P24	33.1	33.1	10.2	46		Interp
	PLFY-EP24	33.1	33.1	11.8	55	² TPLFY-P24EM140A	Interp
	PLFY-P30	33.1	33.1	10.2	51		Interp
	PLFY-EP30	33.1	33.1	11.8	55	² TPLFY-P30EM140A	Interp
	PLFY-P36	33.1	33.1	11.8	51		Interp
	PLFY-EP36	33.1	33.1	11.8	55	² TPLFY-P36EM140A	Interp
	PLFY-P48NEMU-E	33.1	33.1	11.8	55		18
	PLFY-EP48	33.1	33.1	11.8	55	² TPLFY-P48EM140A	Interp
PLA ¹ Indoor Ceiling Cassette 4-Way	PLA-A12	33.1	33.1	10.2	49	² TPLA-A0121EA70A ³ APLA-A0121EA70A	Interp
	PLA-A18	33.1	33.1	10.2	49	² TPLA-A0181EA70A ³ APLA-A0181EA70A	Interp
	PLA-A24	33.1	33.1	10.2	51	² TPLA-A0241EA70A ³ APLA-A0241EA70A	Interp
	PLA-A30	33.1	33.1	10.2	51	² TPLA-A0301EA70A ³ APLA-A0301EA70A	Interp
Note: ¹ Equivalent to PLFY (software and branding) ² Alternate model number for Trane branded product line. Unit is identical. ³ Alternate model number for American Standard branded product line. Unit is identical.							

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

1800692-CR-002-R2



Manufacturer: Mitsubishi Electric US						TABLE 2	
Model Line: P-Series Ducted Indoor Ceiling Suspended Units							
Certified Product Construction Summary: Carbon steel cover							
Certified Options Summary: PAC-SJ41TM-E certified for PLFY units multifunction casements.							
Mounting Configuration: Ceiling Suspended/Mounted - Rigid Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.							
Building Code:		CBC 2019		Seismic Certification Limits:		2.0 g z/h=1.0 I_p= 1.5	
Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
PLA ¹ Indoor Ceiling Cassette 4-Way	PLA-A36	33.1	33.1	11.8	55	² TPLA0A0361EA70A ³ APLA0A0361EA70A	Interp
	PLA-A42BA	33.1	33.1	11.8	55	² TPLA0A0421EA70A ³ APLA0A0421EA70A	19
PEFY Indoor Ceiling Concealed	PEFY-P06NMSU-E	27.6	31.1	7.9	42		20
	PEFY-P08NMSU	27.6	31.1	7.9	42		Interp
	PEFY-P12NMSU	27.6	31.1	7.9	46		Interp
	PEFY-P15NMSU	27.6	39.0	7.9	54		Interp
	PEFY-P18NMSU	27.6	39.0	7.9	54		Interp
	PEFY-P24NMSU	27.6	46.9	7.9	62		Interp
	PEFY-P06NMAU	28.9	27.6	9.9	49	² TPEFY-P006MA143A	Interp
	PEFY-P08NMAU	28.9	27.6	9.9	49	² TPEFY-P008MA143A	Interp
	PEFY-P12NMAU	28.9	27.6	9.9	49	² TPEFY-P012MA143A	Interp
	PEFY-P15NMAU	28.9	35.4	9.9	58	² TPEFY-P015MA143A	Interp
	PEFY-P18NMAU	28.9	35.4	9.9	58	² TPEFY-P018MA143A	Interp
	PEFY-P24NMAU	28.9	35.4	9.9	67	² TPEFY-P024MA143A	Interp
	PEFY-P27NMAU	28.9	43.3	9.9	67	² TPEFY-P027MA143A	Interp
	PEFY-P30NMAU	28.9	43.3	9.9	67	² TPEFY-P030MA143A	Interp
	PEFY-P36NMAU	28.9	55.1	9.9	86	² TPEFY-P036MA143A	Interp
	PEFY-P48NMAU	28.9	55.1	9.9	86	² TPEFY-P048MA143A	Interp
	PEFY-P54NMAU	28.9	63.0	9.9	93	² TPEFY-P054MA143A	Interp
Notes: ¹ Equivalent to PLFY (software and branding) ² Alternate model number for Trane branded product line. Unit is identical. ³ Alternate model number for American Standard branded product line. Unit is identical.							

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

1800692-CR-002-R2



Manufacturer: Mitsubishi Electric US						TABLE 2	
Model Line: P-Series Ducted Indoor Ceiling Suspended Units							
Certified Product Construction Summary: Carbon steel cover							
Certified Options Summary: PAC-SJ41TM-E certified for PLFY units multifunction casements.							
Mounting Configuration: Ceiling Suspended/Mounted - Rigid Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.							
Building Code:		CBC 2019		Seismic Certification Limits:		2.0 g z/h=1.0 I_p= 1.5	
Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
PEFY Indoor Ceiling Concealed	PEFY-P15NMHU	35.4	29.2	15.0	98	² TPEFY-P015MH142A	Interp
	PEFY-P18NMHU	35.4	29.2	15.0	100	² TPEFY-P018MH142A	Interp
	PEFY-P24NMHU	35.4	29.2	15.0	100	² TPEFY-P024MH142A	Interp
	PEFY-P27NMHU	35.4	39.4	15.0	111	² TPEFY-P027MH142A	Interp
	PEFY-P30NMHU	35.4	39.4	15.0	111	² TPEFY-P030MH142A	Interp
	PEFY-P36NMHU	35.4	47.3	15.0	155	² TPEFY-P036MH142A	Interp
	PEFY-P48NMHU	35.4	47.3	15.0	155	² TPEFY-P048MH142A	Interp
	PEFY-P54NMHU	35.4	47.3	15.0	155	² TPEFY-P054MH142A	Interp
	PEFY-P72NMHU	44.1	49.2	18.6	214	² TPEFY-P072MH140A	Interp
	PEFY-P72NMHSU	44.1	49.2	18.6	214	² TPEFY-P096MH140A	Interp
	PEFY-P96NMHSU	44.1	49.2	18.6	221	² TPEFY-P072MH140A	Interp
	PEFY-P96NMHU-E	44.1	49.2	18.6	221	² TPEFY-P096MH140A	21
	PEFY-AF1200CFM	55.1	49.3	18.6	309	² TPEFY120AF140A	Interp
	PEFY-AF1200CFMR	55.1	49.3	18.6	309	² TPEFY120AR140A	22
PVA/PVFY	PV FY-P12NAMU-E	50.3	17.0	21.6	113	Tested with heater accessory ² TPV FY-P012AM141A	23
	PVA-A12	50.3	17.0	21.6	113	² TPVA0A0121AA70A ³ APVA0A0121AA70A	Interp
	PV FY-P18	50.3	17.0	21.6	113	² TPV FY-P018AM141A	Interp
	PVA-A18	50.3	17.0	21.6	113	² TPVA0A0181AA70A ³ APVA0A0181AA70A	Interp
	PV FY-P24	50.3	17.0	21.6	141	² TPV FY-P024AM141A	Interp
Notes: ² Alternate model number for Trane branded product line. Unit is identical. ³ Alternate model number for American Standard branded product line. Unit is identical.							

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

1800692-CR-002-R2



Manufacturer: Mitsubishi Electric US						TABLE 2	
Model Line: P-Series Ducted Indoor Ceiling Suspended Units							
Certified Product Construction Summary: Carbon steel cover							
Certified Options Summary: PAC-SJ41TM-E certified for PLFY units multifunction casements.							
Mounting Configuration: Ceiling Suspended/Mounted - Rigid Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.							
Building Code:		CBC 2019		Seismic Certification Limits:		2.0 g z/h=1.0 I_p= 1.5	
Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
PVA/PVFY	PVA-A24	54.3	21.0	21.6	141.0	² TPVA0A0241AA70A ³ APVA0A0241AA70A	Interp
	PVFY-P30	54.3	21.0	21.6	141	² TPVFYP030AM141A	Interp
	PVA-A30	54.3	21.0	21.6	141	² TPVA0A0301AA70A ³ APVA0A0301AA70A	Interp
	PVFY-P36	54.3	21.0	21.6	141	² TPVFYP036AM141A	Interp
	PVA-A36	59.5	25.0	21.6	172	² TPVA0A0361AA70A ³ APVA0A0361AA70A	Interp
	PVA-A42	59.5	25.0	21.6	172	² TPVA0A0421AA70A ³ APVA0A0421AA70A	Interp
	PVFY-P48	59.5	25.0	21.6	172	² TPVFYP048AM141A	Interp
	PVFY-P54NAMU-E	59.5	25.0	21.6	227	Tested with heater accessory ² TPVFYP054AM141A	24
PCA	PCA-A24KA7	27.0	47.5	9.0	71	² TPCA0A0241KA70A ³ APLA0A0121EA70A	9
	PCA-A30KA7	27.0	50.4	9.0	71	² TPCA0A0301KA70A ³ APCA0A0301KA70A	Interp
	PCA-A36KA7	27.0	63.0	9.1	79	² TPCA0A0361KA70A ³ APCA0A0361KA70A	Interp
	PCA-A42KA7	27.0	63.0	9.1	88	² TPCA0A0421KA70A ³ APCA0A0421KA70A	37
Notes: ² Alternate model number for Trane branded product line. Unit is identical. ³ Alternate model number for American Standard branded product line. Unit is identical.							

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

1800692-CR-002-R2



Manufacturer: Mitsubishi Electric US						TABLE 2	
Model Line: P-Series Ducted Indoor Ceiling Suspended Units							
Certified Product Construction Summary: Carbon steel cover							
Certified Options Summary: PAC-SJ41TM-E certified for PLFY units multifunction casements.							
Mounting Configuration: Ceiling Suspended/Mounted - Rigid Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.							
Building Code:		CBC 2019		Seismic Certification Limits:		2.0 g z/h=1.0 I_p= 1.5	
Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
BC Controllers ⁴ : Single BC	CMB-P105NU-G1	17.0	25.6	11.2	72		25
	CMB-P106	17.0	25.6	11.2	76		Interp
	CMB-P108	17.0	25.6	11.2	84		Interp
	CMB-P1010	17.0	25.6	11.2	94		Interp
	CMB-P1013	17.0	43.3	11.2	126		Interp
	CMB-P1016	17.0	43.3	11.2	138		Interp
BC Controllers: Sub BC	CMB-P104	17.0	25.5	11.2	62		Interp
	CMB-P108	17.0	25.5	11.2	82		Interp
	CMB-P1016	17.0	43.3	11.2	136		Interp
BC Controllers: Main BC	CMB-P108	20.5	43.8	11.4	122		Interp
	CMB-P1010	20.5	43.8	11.4	132		Interp
	CMB-P1013	20.5	43.8	11.4	148		Interp
	CMB-P1016NU-HA1	20.5	43.8	11.4	162		26
BC Controller: Small Capacity	CMB-P104NU-J1	16	25	10	56	² TCMBG0104SJ11N4	35
	CMB-P106NU-J1	16	25	10	62	² TCMBG0106SJ11N4	Interp
	CMB-P108NU-J1	16	25	10	82	² TCMBG0108SJ11N4	Interp
BC Controller: Small Capacity	CMB-P104NU-KB1	16	25	10	56	² TCMBS0104KB11N4	Interp
	CMB-P108NU-KB1	16	25	10	82	² TCMBS0108KB11N4	Interp
BC Controller: Medium Capacity	CMB-P1012NU-J1	21.5	35.9	10	131	² TCMBG1012SJ11N4	Interp
	CMB-P108NU-JA1	21.5	35.9	10	82	² TCMBM0108JA11N4	Interp
Notes: ² Alternate model number for Trane branded product line. Unit is identical. ⁴ G1 to HA1 Generation Branch Controllers							

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SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

1800692-CR-002-R2



Manufacturer: Mitsubishi Electric US						TABLE 3	
Model Line: P Series Indoor Wall Mounted Units							
Certified Product Construction Summary: Plastic Cover UUT 7 & 8, UUT 13 Carbon Steel Enclosure							
Certified Options Summary: UUTs 7 & 8: Single Phase, 60 Hz, 208/230V; Heat pump or cooling only							
Mounting Configuration: Wall mounted - rigid Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.							
Building Code:		CBC 2019		Seismic Certification Limits:		2.0 g z/h=1.0 I_p= 1.5	
Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
PKFY Indoor Wall Mounted	PKFY-P04	8.9	32.1	11.6	22.0	¹ TPKFYP004LM140A	Extrap
	PKFY-P06NBMU-E	8.9	32.1	11.6	22.0	¹ TPKFYP006BM142B	7
	PKFY-P08	9.8	35.4	11.6	29.0	¹ TPKFYP008HM142A	Interp
	PKFY-P12	9.8	35.4	11.6	29.0	¹ TPKFYP012HM142A	Interp
	PKFY-P15	9.8	35.4	11.6	29.0	¹ TPKFYP015HM142A	Interp
	PKFY-P18	9.8	35.4	11.6	29.0	¹ TPKFYP018HM142A	Interp
	PKFY-P24	11.6	46.1	14.4	46.0	¹ TPKFYP024KM142A	Interp
	PKFY-P30	11.6	46.1	14.4	46.0	¹ TPKFYP030KM142A	Interp
PKA Indoor Wall Mounted	PKA-A12	9.8	35.4	11.6	29.0	¹ TPKA0A0121HA70A ² APKA0A0121HA70A	Interp
	PKA-A18	9.8	35.4	11.6	29.0	¹ TPKA0A0181HA70A ² APKA0A0181HA70A	Interp
	PKA-A24	11.6	46.1	14.4	46.0	¹ TPKA0A0241KA70A ² APKA0A0241KA70A	Interp
	PKA-A30	11.6	46.1	14.4	46.0	¹ TPKA0A0301KA70A ² APKA0A0301KA70A	Interp
	PKA-A36KA	11.6	46.1	14.4	46.0	¹ TPKA0A0361KA70A ¹ APKA0A0361KA70A	8

Notes:
¹Alternate model number for Trane branded product line. Unit is identical.
²Alternate model number for American Standard branded product line. Unit is identical.

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SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

1800692-CR-002-R2



Manufacturer: Mitsubishi Electric US		Table Description: Heat Exchangers - Base Mounted Units			TABLE 5
Model Line: P-Series and S-Series AHUs					
Building Code: CBC 2019 Seismic Certification Limits: $S_{DS} = 2.0 g$ $z/h = 1.0$ $I_p = 1.5$					
Component Type	Manufacturer	Model	Description	Notes	UUT
Heat Exchanger (Outdoor PUZ)	Mitsubishi Electric	R01 H55 408	Copper and Aluminum	Corrosion Resistant Variant	1
		R01 H50 408			Interp
		T7W E84 408			Interp
		R01 H52 408			2
Heat Exchanger (Outdoor PUZ & PUY)	Mitsubishi Electric	R01 H33 408	Copper and Aluminum		27
		T7W E57 408			Interp
		T7W E59 408			Interp
		T7W E60 408			28
Heat Exchanger (Outdoor PUZ & PUY Double Fan)	Mitsubishi Electric	R01 H01 408	Copper and Aluminum		Interp
		T7W E61 408			Interp
Heat Exchanger (PUMY P36 to P60- Double Fan)	Mitsubishi Electric	T7W E41 408	Copper and Aluminum		6
		T7W E82 408			5
Heat Exchanger (PQRY & PQHY)	Alfa Laval Inc.	R61 987 480	Copper and Aluminum		29
		R61 990 480			Interp
		R61 A02 480			Interp
		R61 991 480			30
Heat Exchanger Assembly (Outdoor PURY and PUHY)	Mitsubishi Electric	R61 929 480	Copper and Aluminum		31
		R61 930 480			Interp
		R61 931 480			Interp

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Manufacturer: Mitsubishi Electric US		Table Description: Heat Exchangers - Base Mounted Units			TABLE 5
Model Line: P-Series and S-Series AHUs					
Building Code: CBC 2019		Seismic Certification Limits: $S_{DS} = 2.0 g$ $z/h = 1.0$ $I_p = 1.5$			
Component Type	Manufacturer	Model	Description	Notes	UUT
Heat Exchanger Assembly (Outdoor PURY and PUHY)	Mitsubishi Electric	R61 933 480	Copper and Aluminum		Interp
		R61 935 480			Interp
		R61 936 480			Interp
		R61 937 480			32
		R61 939 480			32
		KD00B592			Interp
		KD00B591			Interp
		KS01R178			Interp
		KS01R179			Interp
		KS01T158			Interp
		KD00B658			Interp
		KD00B659			Interp
		KD00B660			Interp
		KS00R751			Interp
		KS00R752			33
		KD00B581			Interp
		KD00B582			Interp
		KD00B583			Interp
		KS00R753			Interp
		KS00R754			Interp
		KS00R755			Interp
		KS00R756			Interp
		KD00B585			Interp

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Manufacturer: Mitsubishi Electric US		Table Description: Heat Exchangers - Ceiling Suspended Units			TABLE 6
Model Line: P-Series and S-Series AHUs					
Building Code: CBC 2019		Seismic Certification Limits: $S_{DS} = 2.0 g$ $z/h = 1.0$ $I_p = 1.5$			
Component Type	Manufacturer	Model	Description	Notes	UUT
Heat Exchanger (PMFY Indoor Cassette)	Mitsubishi Electric	T7W H92 480	Copper & Aluminum		15
		T7W H93 480			16
Heat Exchanger (PLA and PLFY Indoor Cassette)	Mitsubishi Electric	R01 N00 480	Copper & Aluminum		17
		R01 L50 480			Interp
		T7W H86 480			Interp
		R01 N02 480			Interp
		T7W H61 480			Interp
		R01 L51 480			Interp
		R01 N03 480			Interp
		R01 L63 480			Interp
		T7W H88 480			19
		R01 N05 480			Interp
		R01 L57 480			Interp
		R01 AE3 480			Interp
		T7W H96 480			Interp
		R01 L59 480			Interp
		R01 L60 480			18
		E17 C23 620			12
		Heat Exchanger (PEFY Indoor Concealed)		Mitsubishi Electric	E17 402 620
E17 403 620			Interp		
E17 405 620			Interp		

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Manufacturer: Mitsubishi Electric US		Table Description: Heat Exchangers - Ceiling Suspended Units			TABLE 6
Model Line: P-Series and S-Series AHUs					
Building Code: CBC 2019		Seismic Certification Limits: $S_{DS} = 2.0 g$ $z/h = 1.0$ $I_p = 1.5$			
Component Type	Manufacturer	Model	Description	Notes	UUT
Heat Exchanger (PEFY Indoor Concealed)	Mitsubishi Electric	U41 003 480	Copper & Aluminum		Interp
		U41 004 480			Interp
		U41 005 480			Interp
		U41 006 480			Interp
		U41 007 480			Interp
		R61 618 480			Interp
		R61 Y38 483			21
		R61 326 480		main	22
		R61 327 480		reheat	22
Heat Exchanger (PVFY and PVA Indoor Multi-Position)	Mitsubishi Electric	U41 011 480	Copper & Aluminum		23
		U41 015 480			Interp
		U41 016 480			Interp
		U41 017 480			Interp
		U41 012 480			Interp
		U41 013 480			Interp
		U41 014 480			24
Heat Exchanger (PEAD Indoor)	Mitsubishi Electric	U41 020 480	Copper & Aluminum		3
		U41 021 480			Interp
		U41 022 480			Interp
		U41 023 480			Interp
		U41 024 480			4

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Manufacturer: Mitsubishi Electric US		Table Description: Compressors - Base Mounted Units			TABLE 8
Model Line: P-Series and S-Series AHUs					
Building Code: CBC 2019		Seismic Certification Limits: $S_{DS} = 2.0 g$ $z/h = 1.0$ $I_p = 1.5$			
Component Type	Manufacturer	Model	Description	Notes	UUT
Compressor (PUZ, PUMY, PUY)	Siam Compressor	T97 427 607	Carbon Steel		1
		T97 428 607		Corrosion Resistant Variant	Interp
		T97 426 607			Interp
		T97 427 677			2
		T92 577 280		Single Fan	27
		T92 508 801		Single Fan	28
		T97 415 790			Interp
		T92 415 767			Interp
		T97 415 779		Double Fan	6
		T97 415 789		Double Fan	5
Scroll Compressor (PUHY/PURY)	Mitsubishi Electric	R69 126 478	Carbon Steel		31
		R69 130 478			Interp
		R69 127 478			Interp
		R69 103 478			Interp
		R69 128 478			Interp
		R69 129 478			Interp
		R69 125 478			Interp
		R69 118 478			32
		R69 167 478			Interp
		R69 168 478			Interp
		HNK68FA-U			Interp
		HNK68FB-UT			Interp
		HNK68FA-YE			Interp

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Manufacturer: Mitsubishi Electric US		Table Description: Compressors - Base Mounted Units			TABLE 8
Model Line: P-Series and S-Series AHUs					
Building Code: CBC 2019		Seismic Certification Limits: $S_{DS} = 2.0 g$ $z/h = 1.0$ $I_p = 1.5$			
Component Type	Manufacturer	Model	Description	Notes	UUT
Scroll Compressor (PUHY/PURY)	Mitsubishi Electric	HNK68FA-YET	Carbon Steel		Interp
		HNK68FB-YET			Interp
		HNK68FA-YE			Interp
		HNK68FB-YE			34
		HNK97FA-U			Interp
		HNK97FB-UT			Interp
		HNK97FA-U-C			Interp
		HNK97FB-U			Interp
		HNK97FA-URC			Interp
		HNK97FA-YE			Interp
		HNK97FA-YET			Interp
		HNK97FA-YE-C			34
		HNK97FB-YE-C			Interp
		HNK97FB-YERC			Interp
		HNK97FB-YE			33
Scroll Compressor (PQRY and PQHY)	Mitsubishi Electric	R69 130 478	Carbon Steel		29
		R69 103 478			Interp
		R69 125 478			Interp
		R69 118 478			Interp
		R69 135 478			Interp
		R69 133 478			30

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Manufacturer: Mitsubishi Electric US		Table Description: Compressors - Base Mounted Units			TABLE 8
Model Line: P-Series and S-Series AHUs					
Building Code: CBC 2019		Seismic Certification Limits: $S_{DS} = 2.0 g$ $z/h = 1.0$ $I_p = 1.5$			
Component Type	Manufacturer	Model	Description	Notes	UUT
Compressor (PUZ, PUMY, PUY)	Siam Compressor	T97 427 607	Carbon Steel		1
		T97 428 607		Corrosion Resistant Variant	Interp
		T97 426 607			Interp
		T97 427 677			2
		T92 577 280		Single Fan	27
		T92 508 801		Single Fan	28
		T97 415 790			Interp
		T92 415 767			Interp
		T97 415 779		Double Fan	6
		T97 415 789		Double Fan	5
Scroll Compressor (PUHY/PURY)	Mitsubishi Electric	R69 126 478	Carbon Steel		31
		R69 130 478			Interp
		R69 127 478			Interp
		R69 103 478			Interp
		R69 128 478			Interp
		R69 129 478			Interp
		R69 125 478			Interp
		R69 118 478			32
		R69 167 478			Interp
		R69 168 478			Interp
		R69 169 478			33
		R69 170 478			Interp
		E27 R33 900			Interp

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Manufacturer: Mitsubishi Electric US		Table Description: Fan Motors - Base Mounted Units			TABLE 10
Model Line: P-Series and S-Series AHUs					
Building Code: CBC 2019		Seismic Certification Limits: $S_{DS} = 2.0 g$ $z/h = 1.0$ $I_p = 1.5$			
Component Type	Manufacturer	Model	Description	Notes	UUT
Fan Motor (PUZ, PUMY, PUY)	Siam Compressor	T7W A07 221	Carbon Steel		1
		R01 E80 221		Corrosion Resistant Varient	Interp
		T7W A05 221		Top Fan	2
		T7W A08 221		Bottom Fan	2
		T7W A06 221		Top and Bottom Fan Motor	5
		R01 E52 221		Single Fan	27
		T7W E27 763		Single Fan	28
		T7W E27 763		Double fan	Interp
		R01 E57 221		Top and Bottom Fan Motor	6
Fan Motor (PUHY & PURY)	Nidec TECNO Motor	R61 267 220	Carbon Steel		31
		R61 268 220			32
		R61 349 220			Interp
		R61 378 220			33
		R61 351 220			Interp
		R61 379 220			Interp
		R61 353 220			Interp
		R61 380 220			33
		E27 R13 301			34
		E27 J44 301			Interp
		E27 R14 301			Interp
		E27 J47 301			Interp
		E27 J50 301			Interp
		E27 R17 301			34

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Manufacturer: Mitsubishi Electric US		Table Description: Fans & Fan Motors Ceiling Suspended Units			TABLE 11
Model Line: P-Series and S-Series AHUs					
Building Code: CBC 2019		Seismic Certification Limits: $S_{DS} = 2.0 g$ $z/h = 1.0$ $I_p = 1.5$			
Component Type	Manufacturer	Model	Description	Notes	UUT
Fan Motor (PEAD)	Panasonic Corporation	U41 002 220	Carbon Steel		3
		U41 003 220			Interp
		U41 004 220			4
Fan Motor (PMFY)	Panasonic Corporation	R01 E32 114	Carbon Steel		15,16
Fan Motor (PLA/PLFY)	Panasonic Corporation	R01 E59 220	Carbon Steel		17
		R01 E66 220			19
		R01 E44 220			Interp
		E17 K05 300			12
	Nidec Techno	T7W L02 220	Carbon Steel		18
Fan Motor (PCA)	Nidec Techno	E17 648 300	Carbon Steel		9
Fan Motor (PEFY)	Nidec Shibaura Co.	E17 319 300	Carbon Steel		20
		U41 002 220			Interp
		U41 003 220			Interp
		U41 004 220			Interp
		R61 Y47 221			21
	SANSO Electric Co.	R61 205 220			22
Fan Motor (PVFY/PVA)	Nidec Shibaura Co.	U41 003 128	Carbon Steel		23
		U41 004 128			Interp
		U41 005 128			24
Line Flow Fan	Toray Industries	R01 E32 114	Styrene Acrylonitrite		15, 16

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Manufacturer: Mitsubishi Electric US		Table Description: Fans & Fan Motors Ceiling Suspended Units			TABLE 11
Model Line: P-Series and S-Series AHUs					
Building Code: CBC 2019		Seismic Certification Limits: S_{DS} = 2.0 g z/h = 1.0 I_p = 1.5			
Component Type	Manufacturer	Model	Description	Notes	UUT
Fan Motor	Sirocco Fan	R61 022 114	Carbon Steel		22
		R61 023 114			22
	Nidec Shibaura Co.	E17 648 500	Carbon Steel		9
Turbo Fan	Toray Industries Inc.	E17 C12 502	Styrene Acrylonitrile		12
		R01 E39 114			17
		R01 E34 114			19
		R01 E46 114			18
Fan Assembly	Sirocco	U41 002 114	Hard Plastic		3
		U41 001 114			4
Fan Case (PCA)	Mitsubishi Electric	E17 648 237	Hard Plastic		9
Fan Case (PVFY)	Mitsubishi Electric	U41 008 129	Hard Plastic		23
		U41 005 129			Interp
		U41 006 129			Interp
		U41 007 129			Interp
		U41 010 129			24

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Manufacturer: Mitsubishi Electric US		Table Description: Electronics - Base Mounted Units			TABLE 13
Model Line: P-Series and S-Series AHUs					
Building Code: CBC 2019 Seismic Certification Limits: $S_{DS} = 2.0g$ $z/h = 1.0$ $I_p = 1.5$					
Component Type	Manufacturer	Model	Description	Notes	UUT
Power Receiver	Qingdao	R01 E69 440	Stainless Steel		1
		R01 E65 440			Interp
		R01 E60 440			2
M-Net Power Board	Kyosha Co., Ltd.	R04 311	Hard Plastic		6
		R01 E04			5
Power Circuit Board	Shin-Asahi Electric	T7W B40 323	Hard Plastic		Extrap
		T7W B50 323			2
		R01 E65 313			6
		T7W AY0 323			5
Switch Board	Shirai Electronics	R01 E00 316	Hard Plastic		1
Control Board (PUZ,PUMY,PUY)	Shin-Asahi Electric	T7W H90 315	94V-0 Plastic		1
		T7W HA0 315			Interp
		T7W HB0 315			2
		R01 V14 310			6
		T7W GG2 315			5
		T7W F22 315		Single Fan	27
		T7W F00 315			28
		T7W F07 315		Double Fan	Interp
		T7W F14 315			Interp
		T7W F23 315		Double Fan	6
		T7W F23 315		Double Fan	5
Control Board (PQRY&PQHY)	Shin-Asahi Electric	R61 358 280	94V-0 Plastic		29
		R61 371 280			Interp

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Manufacturer: Mitsubishi Electric US		Table Description: Electronics - Base Mounted Units			TABLE 13
Model Line: P-Series and S-Series AHUs					
Building Code: CBC 2019 Seismic Certification Limits: $S_{DS} = 2.0 g$ $z/h = 1.0$ $I_p = 1.5$					
Component Type	Manufacturer	Model	Description	Notes	UUT
Control Board (PQRY&PQHY)	Shin-Asahi Electric	R61 339 280	94V-0 Plastic		Interp
		R61 340 280			30
Reactor	Tamura Corp.	T7W E28 259	Copper		1
		T7W E27 259			Interp
		T7W E30 259			2
		T7W E23 259			5
		T7W E70 716			1
Terminal Block	Hoppy	T7W E67 716	Hard Plastic		2
		T7W 603 246			5
		R01 E27 246			5
		T7W E80 315		94V-0 Plastic	PUY & PUZ - Single Fan
T7W E39 313		28			
R01 E72 313	PUY & PUZ and PUMY-P36 to P48 - Double Fan	6			
R01 E72 313	PUMY-P60 - Double Fan	5			
Inverter Board (PQRY&PQHY)	Shin-Asahi Electric	R61 353 280	94V-0 Plastic		29
		R61 355 280			Interp
		R61 188 280			Interp
		R61 341 280			Interp
		R61 385 280			Interp
		R61 372 280			30
		R61 342 280		94V-0 Plastic	
R61 347 280		Interp			
R61 352 280		Interp			

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Manufacturer: Mitsubishi Electric US		Table Description: Electronics - Base Mounted Units			TABLE 13
Model Line: P-Series and S-Series AHUs					
Building Code: CBC 2019 Seismic Certification Limits: S_{DS} = 2.0 g z/h = 1.0 I_p = 1.5					
Component Type	Manufacturer	Model	Description	Notes	UUT
PC Board Matl. (PUHY&PURY)	Shin-Asahi Electric	R61 354 280			32
		R61 A11 305			Interp
		R61 A13 305			Interp
		R61 A15 305			Interp
		R61 A17 305			Interp
		R61 A19 305			33
		E27 R33 081	94V-0 Plastic		Interp
		E27 R74 081			Interp
		E27 R34 081			Interp
		E27 R35 081			Interp
		E27 R36 081			Interp
		E27 R37 081			Interp
		E27 R38 081			34

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Manufacturer: Mitsubishi Electric US		Table Description: Electronics - Ceiling Suspended Units			TABLE 14
Model Line: P-Series and S-Series AHUs					
Building Code: CBC 2019 Seismic Certification Limits: $S_{DS} = 2.0g$ $z/h = 1.0$ $I_p = 1.5$					
Component Type	Manufacturer	Model	Description	Notes	UUT
Terminal Block Assembly (PEAD)	Hoppy	U41 003 246	Hard Plastic		3,4
Terminal Block (PCA)	Hoppy	E17 516 375	Hard Plastic		9
		E17 162 375			9
Terminal Block (MZ)	Hoppy	U41 002 246	Hard Plastic		11
		E17 154 373			11
		E17 156 375			11
Terminal Block (PLFY)	Hoppy	E17 K05 375	Hard Plastic		12
Terminal Block (PEAD)	Hoppy	U41 003 246	Hard Plastic		3,4
Reactor	Tamura Corp.	U41 001 259	Copper		3
		U41 002 259			4
Control Board (PMFY)	Shin-Asahi	T7W C04 310	94V-0 Plastic		15,16
Control Board (PLA/PLFY)		T7W C03 310			17
		T7W C19 310			19
Control Board (PLFY)	Seiryō-Technica	TTW M00 310	94V-0 Plastic		18
		E17 K05 447			12
Control Board (CMB&CMP)	Shikibo Electric	R63 044 280	94V-0 Plastic		25,26
Control Board (PCA)	Shin-Asahi	E17 D87 447	94V-0 Plastic		9,37
Control Board (MZ)	Shin-Asahi	U71 001 280	94V-0 Plastic		11
PCA Board (PEAD)	Shirai Electronics	U41 005 280	94V-0 Hard Plastic		3
		U41 006 280			4
		U41 025 280			3,4
PCA Board (PEFY)		E17 472 447			20

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Manufacturer: Mitsubishi Electric US		Table Description: Electronics - Ceiling Suspended Units			TABLE 14
Model Line: P-Series and S-Series AHUs					
Building Code: CBC 2019 Seismic Certification Limits: $S_{DS} = 2.0g$ $z/h = 1.0$ $I_p = 1.5$					
Component Type	Manufacturer	Model	Description	Notes	UUT
PCA Board (PEFY)	Shirai Electronics	U41 003 280	94V-0 Hard Plastic		Interp
		R61 182 280			Interp
		R61 181 280			21
	Shirai Electronics	R63 140 280	94V-0 Hard Plastic		Interp
		U41 001 280			Interp
		U41 002 280			Interp
		R61 226 280			22
PCA Assy	Shirai Electronics	U41 008 280	94V-0 Plastic		11
		U41 007 280			21,22
PCA Power (PEFY)	Shirai Electronics	U41 001 281	94V-0 Plastic		21
		U41 002 281			Interp
		U41 003 281			22
Relay Board Assy (CMB&CMP)	Shikibo Electric	R63 M82 280	94V-0 Hard Plastic		25, 26
M-Net Terminal Block (MZ)	Hoppy	U41 002 246	Hard Plastic		11
Relay(MZ)	Omron	U71 001 225	Plastic and Metal		11

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Manufacturer: Mitsubishi Electric US		Table Description: Valves - Base Mounted Units			TABLE 16
Model Line: P-Series and S-Series AHUs					
Building Code: CBC 2019		Seismic Certification Limits: S_{DS} = 2.0 g z/h = 1.0 I_p = 1.5			
Component Type	Manufacturer	Model	Description	Notes	UUT
Solenoid Coil (4-way Valve)	Seisakusyo Inc.	T7W E97 242	Brass		1
		T7W E92 242			Interp.
		T7W E98 242			2
		T7W E90 242			5
4-way valve	Saginomiya	T7W E08 403	Brass		1
		T7W E07 403			Interp.
		T7W E05 403			Interp.
		R01 E28 403		Single Fan	28
		R01 E40 403			5
		R61 013 403			29,30
		R61 018 403			Interp.
		R61 019 403			Interp.
		R61 020403			Interp.
		R61 021 403			33
		R61 022 403			33
		E27 R13 961			Interp.
		E27 R14 961			Interp.
		E27 R15 961			Interp.
		E27 R22 961			Interp.
		E27 R23 961			34
		E27 R27 961			34
		Reversing Valve (PUZ, PUMY, PUZ)		Fujikoki	R01 E36 403

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SPECIAL SEISMIC CERTIFICATION CERTIFIED SUBCOMPONENT MATRIX

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Manufacturer: Mitsubishi Electric US		Table Description: Accumulator - Base Mounted Units			TABLE 18
Model Line: P-Series and S-Series AHUs					
Building Code: CBC 2019 Seismic Certification Limits: $S_{DS} = 2.0 g$ $z/h = 1.0$ $I_p = 1.5$					
Component Type	Manufacturer	Model	Description	Notes	UUT
Accumulator (PUZ, PUMY)	Mitsubishi Electric	T7W E22 440	Carbon Steel		27
		R01 E57 440			28
		R01 E58 440			Interp
		R01 E60 440			Interp
		R01 E44 440			6
		R01 E67 440			5
Accumulator Assy.(PQRY, PQHY, PUHY, PURY)	Meiwa Co. Ltd.	R61 041 484	Carbon Steel		31
		R61 091 484			Interp
		R61 037 484			Interp
		R61 089 484			32
		R61 127 484			29
		R61 125 484			30
		R61 152 484			Interp
		R61 154 484			Interp
		KD54B568			34
		KD54B612			Interp
		KD54B367			Interp
		KD65B387			Interp
		KD54B358			Interp
		KD54B427			Interp
		KD54B387			Interp
		KD54B427			Interp
		KD54B612			33

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UNIT UNDER TEST (UUT) SUMMARY SHEET



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Manufacturer: Mitsubishi Electric US						
Model Line: P-Series and S-Series AHUs						
UUT	Unit Description	Report Number	Testing Laboratory	S _{DS}	z/h	I _p
1	PUZ-A12NKA7 (Base mounted - rigid)	1700802-TR-001, Rev.01	Pacific Earthquake Engineering Research Center (PEER)	2.0 2.5	1 0	1.5
2	PUZ-A36NKA7 (Base mounted - rigid)	1700802-TR-001, Rev.01	Pacific Earthquake Engineering Research Center (PEER)	2.0 2.5	1 0	1.5
3	PEAD-A12AA7 (Ceiling suspended - rigid)	1700802-TR-001, Rev.01	Pacific Earthquake Engineering Research Center (PEER)	2.0 2.5	1 0	1.5
4	PEAD-A42AA7 (Ceiling suspended - rigid)	1700802-TR-001, Rev.01	Pacific Earthquake Engineering Research Center (PEER)	2.0 2.5	1 0	1.5
5	PUMY-P60NKMU1 (Base mounted - rigid)	1700802-TR-001, Rev.01	Pacific Earthquake Engineering Research Center (PEER)	2.0 2.5	1 0	1.5
6	PUMY-P48NHMU (Base mounted - rigid)	Q0028.00 (UUT-5)	Curtiss Wright	2.0	1	1.5
7	PKFY-P06NBMU-E (Wall mounted - rigid)	Q0028.00 (UUT-14)	Curtiss Wright	2.0	1	1.5
8	PKA-A36KA (Wall mounted - rigid)	Q0028.00 (UUT-13)	Curtiss Wright	2.0	1	1.5
9	PCA-A24KA7 (Ceiling suspended - rigid)	15152, Rev.0 (UUT 4)	Environment Test Laboratory	2.0 2.5	1 0	1.5
11	MZ-A36AA7 w/ PAC-AH001-1 (Ceiling suspended - rigid)	15152, Rev.0 (UUT 3)	Environment Test Laboratory	2.0 2.5	1 0	1.5
12	PLFY-P12NF (Ceiling suspended - rigid)	15152, Rev.0 (UUT 6)	Environment Test Laboratory	2.0 2.5	1 0	1.5
13	PAC-AH001-1 (Wall mounted - rigid)	15152, Rev.0 (UUT 1)	Environment Test Laboratory	2.0 2.5	1 0	1.5
14	PAC-AH001-1 (Wall mounted - isolated)	15152, Rev.0 (UUT 2)	Environment Test Laboratory	2.0 2.5	1 0	1.5
15	PMFY-P06NBMU-E (Ceiling suspended - rigid)	Q1619.0	Curtiss Wright	2.90 3.15	1 0	1.5
16	PMFY-P15NBMU-E (Ceiling suspended - rigid)	Q1619.0	Curtiss Wright	2.9 3.15	1 0	1.5
17	PLFY-P12NBMU-E (Ceiling suspended - rigid)	Q0028.00 (UUT-7)	Curtiss Wright	2.0	1	1.5
Notes:						

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UNIT UNDER TEST (UUT) SUMMARY SHEET



1800692-CR-002-R2

Manufacturer: Mitsubishi Electric US						
Model Line: P-Series and S-Series AHUs						
UUT	Unit Description	Report Number	Testing Laboratory	S _{DS}	z/h	I _p
18	PLFY-P48NEMU-E (Ceiling suspended - rigid)	Q1653.00 (UUT-26)	Curtiss Wright	3.0 3.28	1 0	1.5
19	PLA-A42BA (Ceiling suspended - rigid)	Q0028.00 (UUT-10)	Curtiss Wright	2.0	1	1.5
20	PEFY-P06-NMSU-E (Ceiling suspended - rigid)	Q0028.00 (UUT-6)	Curtiss Wright	2.0	1	1.5
21	PEFY-P96-NMHU-E (Ceiling suspended - rigid)	Q0028.00 (UUT-1)	Curtiss Wright	2.0	1	1.5
22	PEFY-AF1200CFMR (Ceiling suspended - rigid)	Q0028.00 (UUT-3)	Curtiss Wright	2.0	1	1.5
23	PVIFY-P12NAMU-E (Ceiling suspended - rigid)	Q1619.0 (UUT-19)	Curtiss Wright	2.85 3.15	1 0	1.5
24	PVIFY-P54NAMU-E (Ceiling suspended - rigid)	Q1619.0 (UUT-20)	Curtiss Wright	2.85 3.15	1 0	1.5
25	CMB-P105NU-G (Ceiling suspended - rigid)	Q0028.00 (UUT-9)	Curtiss Wright	2.0	1	1.5
26	CMP-P1016NU-HA (Ceiling suspended - rigid)	Q0028.00 (UUT-12)	Curtiss Wright	2.0	1	1.5
27	PUY-A12NHA3 (Base mounted - rigid)	Q0028.00 (UUT-11)	Curtiss Wright	2.0	1	1.5
28	PUZA36NHA3 (Base mounted - rigid)	Q0028.00 (UUT-4)	Curtiss Wright	2.0	1	1.5
29	PQRY-P72TLMU-A (Base mounted - rigid)	Q1619.0 (UUT-24)	Curtiss Wright	2.75 3.15	1 0	1.5
30	PQHY-P240YLMU-A (Base mounted - rigid)	Q1619.0 (UUT-25)	Curtiss Wright	2.60 2.85	1 0	1.5
31	PUHY-P72TLMUA (Base mounted - rigid)	Q1619.0 (UUT-22)	Curtiss Wright	2.75 3.15	1 0	1.5
32	PURY-P168YLMUA (Base mounted - rigid)	Q1619.0 (UUT-23)	Curtiss Wright	2.75 3.15	1 0	1.5
33	PURY-EP168TNU-A (Base mounted - rigid)	15373, Rev.1	Environment Test Laboratory	2.0 2.5	1 0	1.5
Notes:						

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UNIT UNDER TEST (UUT) SUMMARY SHEET



1800692-CR-002-R2

Manufacturer:	Mitsubishi Electric Corporation	UUT 1
Model Line:	P-Series and S-Series	
Model Number:	PUZ-A12NKA7	
Serial Number:		75U01748C

Product Construction Summary:

Carbon steel housing

Options/Subcomponent Summary:

Fan Motor (PN: T7W A07 221), Compressor (PN: T97 427 607), Power Receiver (PN: R01 E69 440), 4-way Valve (PN: T7W E08 403), Solenoid Coil (PN: T7W E97 242), Heat Exchanger (PN: R01 H55 408), Reactor (PN: T7W E28 259), Control Board (PN: T7W H90 315), Terminal Block (PN: T7W E70 716), Switch Board (PN: R01 E00 316)

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
90	11.6	31.5	23.6	11.79	9.75	>33.3

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156	2.0	1.0	1.5	3.2	2.4	1.67	0.67
		2.5	0.0	1.5				

Test Mounting Details: Base mounted - rigid



Rigid base mounted with (4) 1/2" dia. SAE grade 8 bolts with washers at the mounting feet.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.

Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



1800692-CR-002-R2

Manufacturer:	Mitsubishi Electric Corporation	UUT 2
Model Line:	P-Series and S-Series	
Model Number:	PUZ-A36NKA7	
		Serial Number: 63U01108B

Product Construction Summary:

Carbon steel housing

Options/Subcomponent Summary:

2 Fan Motor (PN: T7W A05 221 and T7W A08 221), Compressor (PN: T97 427 677), Power Receiver (PN: R01 E60 440), 4-way Valve (PN: T7W E05 403), Solenoid Coil (PN: T7W E98 242), Heat Exchanger (PN: R01 H52 408), Reactor (PN: T7W E30 259), Control Board (PN: T7W E30 259), Terminal Block (PN: T7W E67 716), Power Circuit Board (PN: T7W B50 323).

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
258	13	37.4	53.2	5.82	5.72	>33.3

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156	2.0	1.0	1.5	3.2	2.4	1.67	0.67
		2.5	0.0	1.5				

Test Mounting Details: Base mounte - rigid



Rigid base mounted with (4) 1/2" dia. SAE grade 8 bolts with washers at the mounting feet. An additional 1/8" x 16.5" x 1" carbon steel flat bar attached with three (3) #12 - 3/4" screws and one (1) #14 - 3/4" screw is to be attached above foot.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.

Contents were included in testing per operating conditions.

TRU Compliance, by Structural Integrity Associates, Inc.

UNIT UNDER TEST (UUT) SUMMARY SHEET



1800692-CR-002-R2

Manufacturer:	Mitsubishi Electric Corporation	UUT 3
Model Line:	P-Series and S-Series	
Model Number:	PEAD-A12AA7	
		Serial Number: 76R00303

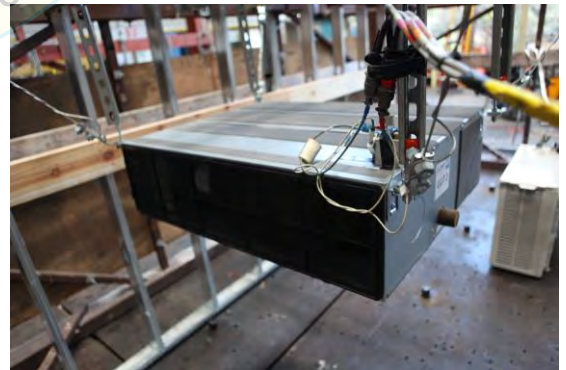
Product Construction Summary:

Options/Subcomponent Summary:

Fan Motor (PN: U41 002 220), Fan Assembly (PN:U41 002 114), Heat Exchanger (PN: U41 020 480), Reactor (PN: U41 001 259), Terminal Block (PN: U41 003 246), Terminal Block Assembly (PN: U41 004 246), PCA Board (PN:U41 005 280 and U41 025 280).

UUT Properties										
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)						
	Depth	Width	Height	Front-Back		Side-Side		Vertical		
58	29	39.4	9	N/A		N/A		N/A		
UUT Highest Passed Seismic Run Information										
Building Code		Test Criteria		S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019		ICC-ES AC156		2.0	1.0	1.5	3.2	2.4	1.67	0.67
				2.5	0.0	1.5				

Test Mounting Details: Ceiling suspended - rigid



The unit was ceiling suspended using (4) 3/8" A36 threaded rod (16" drop) with (2) Mason UCC rod stiffeners each and (4) 1/8" diagonal cable braces with Mason SCB-1/SCBH-1 clips at each end.
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



1800692-CR-002-R2

Manufacturer:	Mitsubishi Electric Corporation	UUT 4
Model Line:	P-Series and S-Series	
Model Number:	PEAD-A42AA7	
Serial Number:		75R00189

Product Construction Summary:

Options/Subcomponent Summary:
Fan Motor (PN:U41 004 220), Fan Assembly (PN: U41 001 114), Heat Exchanger (PN: U41 024 480), Reactor (PN: U41 002 259), Terminal Block (PN: U41 003 246), Terminal Block Assembly (PN: U41 004 246), PCA Board (PN: U41 006 280 and U41 025 280).

UUT Properties										
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)						
	Depth	Width	Height	Front-Back		Side-Side		Vertical		
91	29.0	55.1	9.9	N/A		N/A		N/A		
UUT Highest Passed Seismic Run Information										
Building Code		Test Criteria		S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019		ICC-ES AC156		2.0	1.0	1.5	3.2	2.4	1.67	0.67
				2.5	0.0	1.5				

Test Mounting Details: Ceiling suspended - rigid



The unit was ceiling suspended using (4) 3/8" A36 threaded rod (16" drop) with (2) Mason UCC rod stiffeners each and (4) 1/8" diagonal cable braces with Mason SCB-1/SCBH-1 clips at each end. The brackets will be attached using four (4) #12 self-tapping screws, 1 #14 self-tapping screw, and one additional washer as part of all future construction. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



1800692-CR-002-R2

Manufacturer:	Mitsubishi Electric Corporation	UUT 5
Model Line:	P-Series and S-Series	
Model Number:	PUMY-P60NKMU1	
Serial Number:		63U01949B

Product Construction Summary:

Carbon steel housing

Options/Subcomponent Summary:

2 Fan Motors (PN: T7W A06 221), Compressor (PN: T97 415 789), Accumulator (PN:R01 E67 440), 4-way Valve (PN:R01 E36 403), Solenoid Coil (PN:T7W E90 2422), Heat Exchanger (PN: T7W E82 408), Control Board (PN:R01 V14 310), M-Net Power Board (PN:R01 E04 311), Power Circuit Board (PN:R01 E65 313)

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
306	13	37.4	53.2	7.34	4.17	>33.3

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156	2.0	1.0	1.5	3.2	2.4	1.67	0.67
		2.5	0.0	1.5				

Test Mounting Details: Base mounted - rigid



Rigid base mounted with (4) 1/2" dia. SAE grade 8 bolts with washers at the mounting feet. An additional 1/8" x 16.5" x 1" carbon steel flat bar attached with three (3) #12 - 3/4" screws and one (1) #14 - 3/4" screw is to be attached above foot.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.

Contents were included in testing per operating conditions.

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UNIT UNDER TEST (UUT) SUMMARY SHEET



1800692-CR-002-R2

Manufacturer:	Mitsubishi Electric US	UUT 6
Model Line:	P-Series and S-Series AHUs	
Model Number:	PUMY-P48NHMU	
		Serial Number: N/A

Product Construction Summary:

Carbon steel housing

Options/Subcomponent Summary:

2 Fan Motors (PN: R01 E57 221), Compressor (PN: T97 415 779), Accumulator (PN: R01 E44 440), Reversing Valve (PN: R01 E36 403), Heat Exchanger (PN: T7W E41 408), Control Board (PN: T7W F23 315), M-Net Power Board (PN: R04 311), Power Inverter Board (PN: R01 E72 313)

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
287	13.2	37.4	53.2	3.7	6.2	>33.3

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.2	2.4	1.33	0.53
			0.0	1.5				

Test Mounting Details: Base mounted- rigid



Rigid base mounted with (4) 3/8" dia. SAE grade 5 bolts with washers.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.

Contents were included in testing per operating conditions.

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UNIT UNDER TEST (UUT) SUMMARY SHEET



1800692-CR-002-R2

Manufacturer:	Mitsubishi Electric US	UUT 7
Model Line:	P-Series and S-Series AHUs	
Model Number:	PKFY-P06NBMU-E	
Serial Number:		N/A

Product Construction Summary:

Plastic enclosure

Options/Subcomponent Summary:

Heat Exchanger (PN:R05 Y05 480), Fan Motor (PN: T7W E41 762), Line-Flow Fan (PN: R01 23A 114), Power PC Board (PN: T7W W37 313), Control PC Board (PN: T7W E84 310)

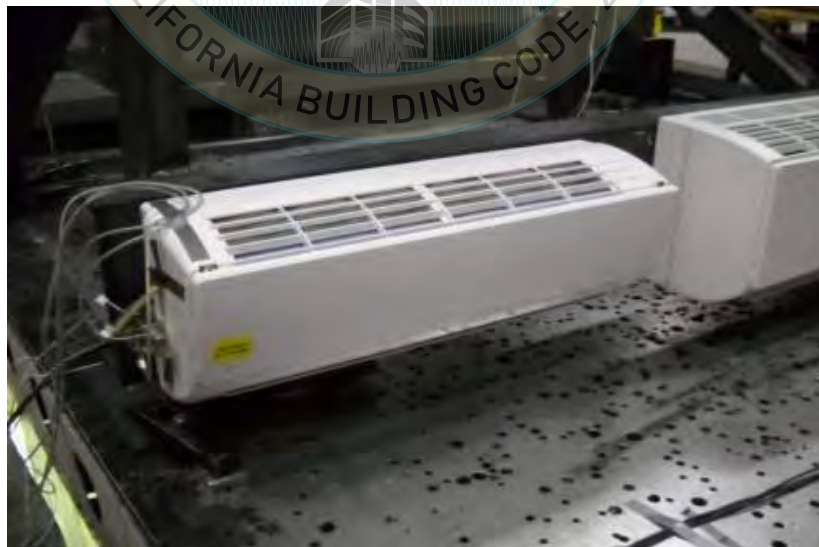
UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
22	8.9	32.1	11.6	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.2	2.4	1.33	0.53

Test Mounting Details: Wall mounted-rigid



UUT's backing plate was secured to test fixture with five (5) #10 bolts. Test unit clips into manufacturer provided backing plate. Unit maintained structural integrity and remained functional per manufacturer requirement. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



1800692-CR-002-R2

Manufacturer:	Mitsubishi Electric US	UUT 8
Model Line:	P-Series and S-Series AHUs	
Model Number:	PKA-A36KA	
Serial Number:		N/A

Product Construction Summary:

Plastic enclosure

Options/Subcomponent Summary:

Heat Exchanger (PN:E17 522 620), Fan Motor (PN: E12 C92 300), Line-Flow Fan (PN: E12 R79 302), Line-Flow Fan (PN: E12 C92 302), Control PC Board (PN: E17 D91 447)

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
46	11.6	46.1	14.4	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.2	2.4	1.33	0.53

Test Mounting Details: Wall mounted - rigid



UUT's backing plate was secured to test fixture with five (5) #10 bolts. Test unit clips into manufacturer provided backing plate. Unit maintained structural integrity and remained functional per manufacturer requirement. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



1800692-CR-002-R2

Manufacturer:	Mitsubishi Electric US	UUT 9
Model Line:	PCA	
Model Number:	PCA-A24KA7	
Serial Number:		N/A

Product Construction Summary:

Carbon steel and plastic enclosure

Options/Subcomponent Summary:

Sirocco Fan (PN: E17 648 500), Fan Case (PN: E17 648 237), Fan Motor (PN: E17 648 300), Heat Exchanger (PN: E17 664 620), Contoller Board (PN: E17 D87 447), Terminal Block (PN: E17 516 375 and E17 162 375)

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
71	27	47.5	9	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.20	2.40	1.67	0.67
		2.5	0.0	1.5				

Test Mounting Details: Ceiling suspended - rigid



Ceiling suspended rigid using (4) 3/8" A307 hanger rods w/ rod stiffeners (Drop=16-20"), (4) 3/32" diagonal cable braces w/ Mason SCB-0/SCBH-0 clips, (24) 3/8" nuts, (8) 3/8" square washers, (16) 3/8" flat washers, & (16) 3/8" locking washers.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.

Contents were included in testing per operating conditions.

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UNIT UNDER TEST (UUT) SUMMARY SHEET



1800692-CR-002-R2

Manufacturer:	Mitsubishi Electric US	UUT 11
Model Line:	LEV connected to MVZ-A36AA7	
Model Number:	MVZ-A36AA7 and PAC-AH001-1	
Serial Number:		91G0034

Product Construction Summary:

MVZ-A36AA7: Galvanized steel
PAC-AH001-1: Sheet metal enclosure

Options/Subcomponent Summary:

MVZ-A36AA7: Fan Motor (PN: U41 004 128), Fan Case (PN: U41 009 129), Heat Exchanger (PN: U41 016 480), Thermistor (PN: U41 004 200)
PACAH001-1: Control Board (PN: U71 001 280), Relay (PN: U71: 001 225), Terminal Block (PN: U41 002 246), M-Net Terminal Block (PN: U41 002 246)

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
11.5	4.7	12.8	19.5	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.20	2.40	1.67	0.67
		2.5	0.0	1.5				

Test Mounting Details: Ceiling mounted - rigid



PAC-AH001-1

UUT 3 was mounted onto a VAV box. Total weight of VAV and LEV was 172.5. LEV unit mounted to VAV box with (4) #14 x 1" self tapping screws. VAV unit suspended using (4) 3/8" A307 hanger rods w/ rod stiffeners (Drop=16-20"), (4) 3/32" diagonal cable braces w/ Mason SCB-0/SCBH-0 clips, (24) 3/8" nuts, (16) washers, (16) 3/8" locking washers, & (16) square washers. Test Report 15152 states dimension and weight including MVZ-A36AA7. It was used for mounting purposes only. Total weight 172.5 lbs. Total dimensions 21.6" x 21" X 54.25".

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

UNIT UNDER TEST (UUT) SUMMARY SHEET



1800692-CR-002-R2

Manufacturer:	Mitsubishi Electric US	UUT 12
Model Line:	PLFY	
Model Number:	PLFY-P12NF	
Serial Number:		N/A

Product Construction Summary:

Galvanized steel construction

Options/Subcomponent Summary:

Heat Exchanger (PN: E17 C23 620), Fan Motor (PN: E17 K05 300), Turbo Fan (PN: E17 C12 502), Linear Expansion Valve (PN: E17 C20 640), Condensate Pump (PN: E17 C12 355), Controller Board (PN: E17 K05 447), Terminal Block (PN: E17 154 375, E17 156 375, E17 K05 375)

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
76	22.4	22.4	8.2	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.20	2.40	1.67	0.67
		2.5	0.0	1.5				

Test Mounting Details: Ceiling suspended - rigid



Ceiling suspended rigid using (4) 3/8" A307 hanger rods w/ rod stiffeners (Drop=16-20"), (8) 3/32" diagonal cable braces w/ Mason SCB-0/SCBH-0 clips, (16) 3/8" flat washers, (16) Locking washers, (16) Square washers, & (20) 3/8" nuts.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.

Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



1800692-CR-002-R2

Manufacturer:	Mitsubishi Electric US	UUT 13
Model Line:	LEV	
Model Number:	PAC-AH001-1	
Serial Number:		91G00324

Product Construction Summary:

Sheet metal enclosure

Options/Subcomponent Summary:

Control Board (PN: U71 001 280), Relay (PN: U71: 001 225), Terminal Block (PN: U41 002 246), M-Net Terminal Block (PN: U41 002 246)

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
11.5	4.7	12.8	19.5	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.20	2.40	1.67	0.67
		2.5	0.0	1.5				

Test Mounting Details: Wall mounted - rigid



Wall mounted - rigid: Using (4) 1/4" lag bolts.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.

Contents were included in testing per operating conditions.

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UNIT UNDER TEST (UUT) SUMMARY SHEET



1800692-CR-002-R2

Manufacturer:	Mitsubishi Electric US	UUT 14
Model Line:	LEV	
Model Number:	PAC-AH001-1	
		Serial Number: 91G00323

Product Construction Summary:

Sheet metal enclosure

Options/Subcomponent Summary:

Control Board (PN: U71 001 280), Relay (PN: U71: 001 225), Terminal Block (PN: U41 002 246), M-Net Terminal Block (PN: U41 002 246)

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
11.5	4.7	12.8	19.5	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.20	2.40	1.67	0.67
		2.5	0.0	1.5				

Test Mounting Details: Wall mounted - flexible/isolated



Wall mounted - isolated: Using (4) 1/4" lags bolts.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.

Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



1800692-CR-002-R2

Manufacturer:	Mitsubishi Electric US	UUT 15
Model Line:	P-Series and S-Series AHUs	
Model Number:	PMFY-P06NBMU-E	
Serial Number:		N/A

Product Construction Summary:

Galvanized steel

Options/Subcomponent Summary:

Heat Exchanger (PN: TZW H08 480), Line Flow Fan (PN: R01 E32 14), Fan Motor (PN: R01 E49 220), Condensate Pump (PN: T7W E11 355), Control Board (PN: T7W C04 310), Intake Grille (PN: T7W E06 691)

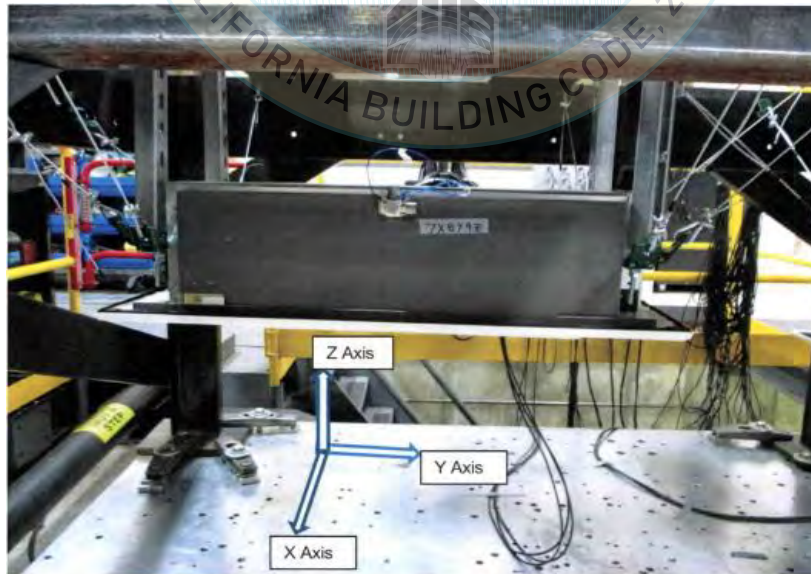
UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
38	32.0	15.6	9.1	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2015)	2.90	1.0	1.5	4.64	3.48	2.10	0.84
		3.15	0.0	1.5				

Test Mounting Details:



UUT suspended with four (4) -3/8" rods with stiffeners. Each corner has two (2) 1/8"Ø cable braces. Unit maintained structural integrity and remained functional per manufacturer requirement. Contents were included in testing per operating conditions.

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UNIT UNDER TEST (UUT) SUMMARY SHEET



1800692-CR-002-R2

Manufacturer:	Mitsubishi Electric US	UUT 16
Model Line:	P-Series and S-Series AHUs	
Model Number:	PMFY-P15NMU-E	
Serial Number:		N/A

Product Construction Summary:

Galvanized steel

Options/Subcomponent Summary:

Grill (PN: PMP-16BMUW), Heat Exchanger (PN: T7W H09 480), Line Flow Fan (PN: R01 E32 114), Fan Motor (PN: R01 E49 220), Condensate Pump (PN: TW E11 355), Control Board (PN: T7W C04 310), Intake Grille (PN: T7W E06 691)

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
38	32	15.6	9.1	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2015)	2.90	1.0	1.5	4.64	3.48	2.10	0.84
		3.15	0.0	1.5				

Test Mounting Details:



UUT suspended with four (4) -3/8" rods with stiffeners. Each corner has two (2) 1/8"Ø cable braces. Unit maintained structural integrity and remained functional per manufacturer requirement. Contents were included in testing per operating conditions.

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UNIT UNDER TEST (UUT) SUMMARY SHEET



1800692-CR-002-R2

Manufacturer:	Mitsubishi Electric US	UUT 17
Model Line:	PLFY	
Model Number:	PLFY-P12NBMU-E	
Serial Number:		N/A

Product Construction Summary:

Galvanized steel

Options/Subcomponent Summary:

Heat Exchanger(PN: R01 N00 480), Fan Motor (PN: R01 E59 220), Turbo Fan (PN: R01 E39 114), Control Board (PN: T7W C03 310), Condensate Pump (PN: T7W E14 355)

UUT Properties									
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)*					
	Depth	Width	Height	Front-Back	Side-Side	Vertical			
49	33.1	33.1	10.2	N/A	N/A	N/A			
Building Code	Test Criteria			S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)
CBC 2019	ICC-ES AC156 (2015)			2.90	1.0	1.5	4.64	3.48	2.10
				3.15	0.0	1.5			

Test Mounting Details:



Suspended with 3/8" diameter hanger rods and (2) 1/8" diameter cable braces per corner (8 total).
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



1800692-CR-002-R2

Manufacturer:	Mitsubishi Electric US	UUT 18
Model Line:	P-Series and S-Series AHUs	
Model Number:	PLFY-P48NEMU-E	
Serial Number:		N/A

Product Construction Summary:

Galvanized steel

Options/Subcomponent Summary:

Heat Exchanger (PN: R01 L55 480), Fan Motor (PN: T7W L02 220), Turbon Fan (PN: R01 E46 114), Control Board (PN: T7W M00 310), Condensate Pump (PN: R01 E19 355)

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
55	33.1	33.1	11.8	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2015)	3.00	1.0	1.5	4.80	3.60	2.19	0.88
		3.28	0.0	1.5				

Test Mounting Details:



UUT ceiling suspended with four (4) 3/8" ϕ rods with stiffeners. Each corner had two (2) 1/8" ϕ cable braces (8 total). Unit maintained structural integrity and remained functional per manufacturer requirement. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



1800692-CR-002-R2

Manufacturer:	Mitsubishi Electric US	UUT 19
Model Line:	P-Series and S-Series AHUs	
Model Number:	PLA-A42BA	
Serial Number:		N/A

Product Construction Summary:

Galvanized steel

Options/Subcomponent Summary:

Heat Exchanger (PN: R01 AE3 480), Fan Motor (PN: R01 E66 220), Turbo Fan (PN: R01 E34 114), Control Board (PN: T7W C19 310), Condensate Pump (PN: T7W E14 355)

UUT Properties										
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)						
	Depth	Width	Height	Front-Back	Side-Side	Vertical				
55	33.1	33.1	11.8	N/A	N/A	N/A				
UUT Highest Passed Seismic Run Information										
Building Code		Test Criteria		S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019		ICC-ES AC156 (2015)		2.0	1.0	1.5	3.2	2.4	1.33	0.53

Test Mounting Details:



UUT ceiling suspended with four (4) 3/8" $\varnothing$ rods with stiffeners. Each corner had two (2) 1/8" $\varnothing$ cable braces (8 total). Unit maintained structural integrity and remained functional per manufacturer requirement. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



1800692-CR-002-R2

Manufacturer:	Mitsubishi Electric US	UUT 20
Model Line:	PEFY	
Model Number:	PEFY-P06NMSU-E	
Serial Number:		N/A

Product Construction Summary:

Galvanized steel

Options/Subcomponent Summary:

Heat Exchanger (PN: E17 402 620), Fan Motor (PN: E17 319 300), PCA Control (PN: E17 472 447)

UUT Properties									
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)*					
	Depth	Width	Height	Front-Back	Side-Side	Vertical			
42	27.6	31.1	7.9	N/A	N/A	N/A			
Building Code		Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019		ICC-ES AC156 (2015)	2.00	1.00	1.50	3.20	2.40	1.33	0.53

Test Mounting Details:



Suspended with 1/2" diameter hanger rods and (2) 1/8" diameter cable braces per corner (8 total).
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



1800692-CR-002-R2

Manufacturer:	Mitsubishi Electric US	UUT 21
Model Line:	PEFY	
Model Number:	PEFY-P96-NMHU-E	
Serial Number:		N/A

Product Construction Summary:

Galvanized steel

Options/Subcomponent Summary:

Heat Exchanger (PN: R61 Y38 483), Fan Motor (PN: R61 Y47 221), PCA Control (PN: R61 181 280)

UUT Properties										
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)*						
	Depth	Width	Height	Front-Back	Side-Side	Vertical				
221	44.1	49.2	18.2	N/A	N/A	N/A				
UUT Highest Passed Seismic Run Information										
Building Code		Test Criteria		S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019		ICC-ES AC156 (2015)		2.00	1.00	1.50	3.20	2.40	1.33	0.53

Test Mounting Details:



Suspended with 3/8" diameter hanger rods and (2) 1/8" diameter cable braces per corner (8 total).
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



1800692-CR-002-R2

Manufacturer:	Mitsubishi Electric US	UUT 22
Model Line:	PEFY	
Model Number:	PEFY-AF1200CFMR	
Serial Number:		N/A

Product Construction Summary:

Galvanized steel

Options/Subcomponent Summary:

Heat Exchanger (PN: R61 326 480), Heat Exchanger Re-Heat (PN: R61 327 480), Fan Motor (PN: R61 205 220), Line Flow Fan (PN: R61 022 114), Line Flow Fan (PN: R61 023 114), PCA Board (PN: R61 026 280)

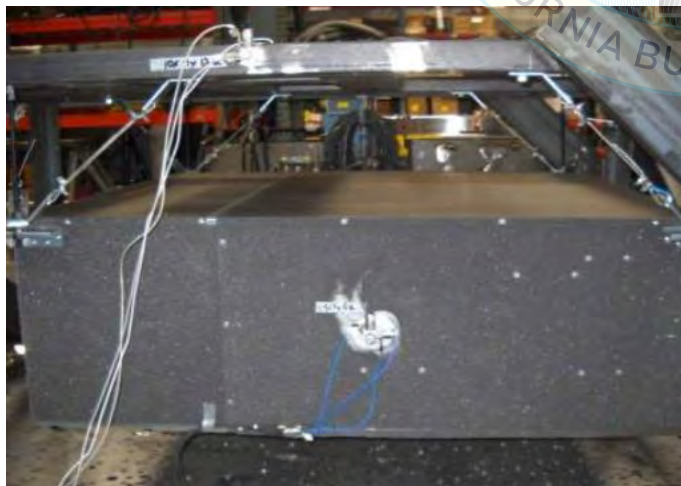
UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)*		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
309	55.1	49.3	18.6	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2015)	2.00	1.00	1.50	3.20	2.40	1.33	0.53

Test Mounting Details:



Suspended with 1/2" diameter hanger rods and (2) 1/8" diameter cable braces per corner (8 total).
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



1800692-CR-002-R2

Manufacturer:	Mitsubishi Electric US	UUT 23
Model Line:	P-Series and S-Series AHUs	
Model Number:	PVFX-P12NAMU-E	
Serial Number:		N/A

Product Construction Summary:

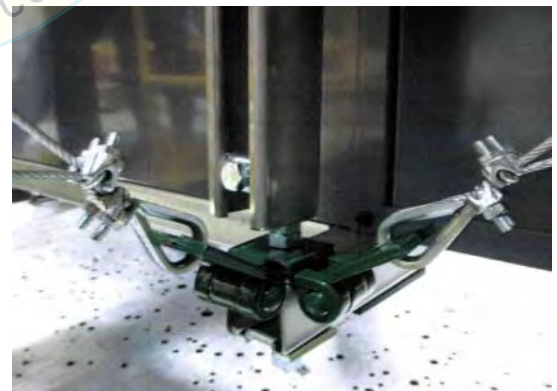
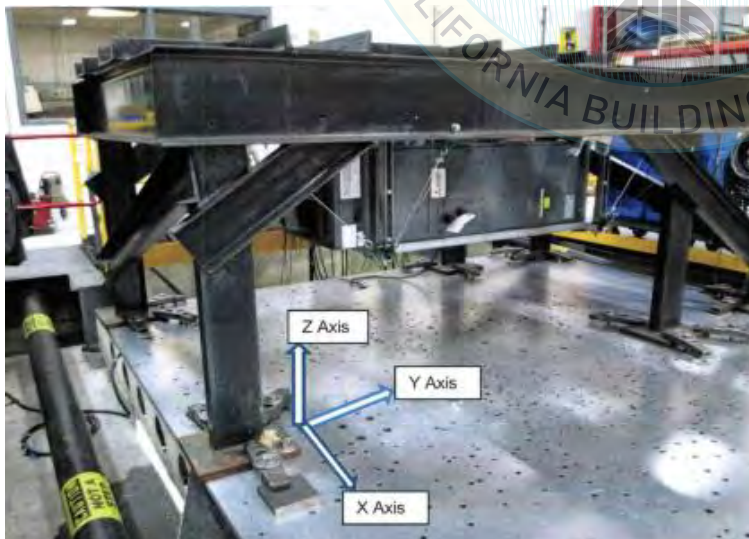
Galvanized steel

Options/Subcomponent Summary:

Electric Heater (PN: EH05-MPA-S), Heat Exchanger (PN: U41 011 480), Fan Motor (PN: U41 003 128), Fan Case (PN: U41 008 129), PCA Assy (PN: U41 007 280), PCA Power (PN: U41 001 281)

UUT Properties										
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)						
	Depth	Width	Height	Front-Back		Side-Side		Vertical		
113	21.6	50.3	17.0	N/A		N/A		N/A		
UUT Highest Passed Seismic Run Information										
Building Code		Test Criteria		S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019		ICC-ES AC156 (2015)		2.85	1.0	1.5	4.56	3.42	2.1	0.84
				3.15	0.0	1.5				

Test Mounting Details:



P1000 Unistruct platform with P1356 fittings was ceiling suspended with 3/8" diameter hanger rods and (2) 1/8" diameter cable braces per corner (8 total).

Unit maintained structural integrity and remained functional per manufacturer requirement.

Contents were included in testing per operating conditions.

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UNIT UNDER TEST (UUT) SUMMARY SHEET



1800692-CR-002-R2

Manufacturer:	Mitsubishi Electric US	UUT 24
Model Line:	P-Series and S-Series AHUs	
Model Number:	PVFY-P54AMUE-E	
Serial Number:		N/A

Product Construction Summary:

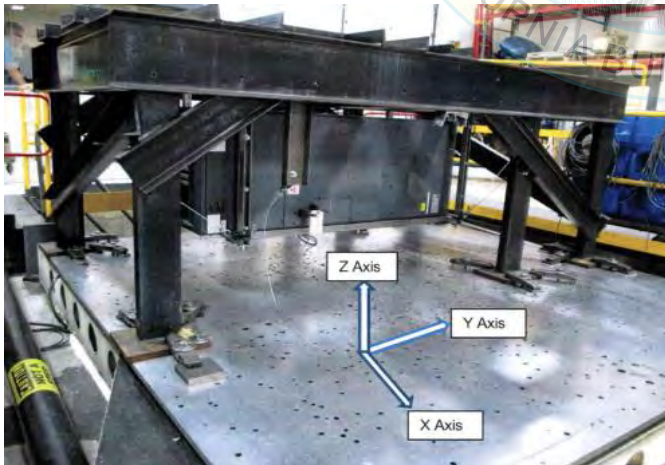
Galvanized steel

Options/Subcomponent Summary:

Electric Heater (PN: E17-MPAS-L), Heat Exchanger (PN: U41 014 480), Fan Motor (PN: U41 005 128), Fan Case (PN: U41 010 129), PCA ASSY. (PN: U41 007 280), PCA Power (PN: U41 003 281)

UUT Properties										
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)						
	Depth	Width	Height	Front-Back		Side-Side		Vertical		
172	59.5	25.0	21.6	N/A		N/A		N/A		
UUT Highest Passed Seismic Run Information										
Building Code		Test Criteria		S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019		ICC-ES AC156 (2015)		2.85	1.0	1.5	4.56	3.42	2.1	0.84
				3.15	0.0	1.5				

Test Mounting Details:



P1000 Unistruct platform with P1356 fittings was ceiling suspended with 3/8" diameter hanger rods and (2) 1/8" diameter cable braces per corner (8 total).

Unit maintained structural integrity and remained functional per manufacturer requirement.

Contents were included in testing per operating conditions.

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UNIT UNDER TEST (UUT) SUMMARY SHEET



1800692-CR-002-R2

Manufacturer:	Mitsubishi Electric US	UUT 25
Model Line:	CMB	
Model Number:	CMB-P105NU-G	
Serial Number:		N/A

Product Construction Summary:

Galvanized steel

Options/Subcomponent Summary:

Linear Expansion Valve (PN: R63 R23 401), Solenoid Valve Coil (PN: R61 2A1 243), Solenoid Valve (PN: R63 4F3 232), Solenoid Valve (PN: R63 Yo7 232), Control Board (PN: R63 044 280), Relay Board Assy. (PN: R63 M82 280)

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)*		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
72	17	25.6	11.2	N/A	N/A	N/A

Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2015)	2.00	1.00	1.50	3.20	2.40	1.33	0.53

Test Mounting Details:



Suspended with 1/2" diameter hanger rods and (2) 1/8" diameter cable braces per corner (8 total).
Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



1800692-CR-002-R2

Manufacturer:	Mitsubishi Electric US	UUT 26
Model Line:	P-Series and S-Series AHUs	
Model Number:	CMP-P1016NU-HA	
Serial Number:		N/A

Product Construction Summary:

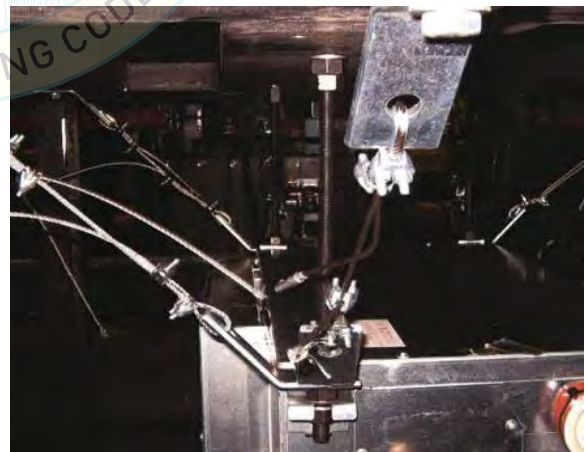
Carbon steel

Options/Subcomponent Summary:

Linear Expansion Valve (PN: R63 008 401), Solenoid Valve Coil (PN: R61 2A1 243), Solenoid Valve (PN: R63 4F3 232), Solenoid Valve (PN: R63 Y07 232), Control Board (PN: R63 044 280), Relay Board Assy. (PN: R63 M82 280)

UUT Properties										
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)						
	Depth	Width	Height	Front-Back	Side-Side	Vertical				
162	20.5	43.8	11.4	N/A	N/A	N/A				
UUT Highest Passed Seismic Run Information										
Building Code		Test Criteria		S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019		ICC-ES AC156 (2015)		2.0	1.0	1.5	3.20	2.40	1.33	0.53

Test Mounting Details:



UUT was ceiling suspended with 1/2" ϕ hanger rod and (2) 3/8" ϕ cable braces per corner (8 total).
Unit maintained structural integrity and remained functional per manufacturer requirement.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



1800692-CR-002-R2

Manufacturer:	Mitsubishi Electric US	UUT 27
Model Line:	P-Series and S-Series AHUs	
Model Number:	PUY-A12NHA3	
Serial Number:		N/A

Product Construction Summary:

Carbon Steel

Options/Subcomponent Summary:

Heat Exchanger (PN: R01H33 408), Compressor (PN: T92 577 280), Fan Motor (PN: R01 E52 221), Control Board (PN: T7W F22 315), Inverter Board (PN: T7W E80 315), Accumulator (PN: T7W E22 440)

UUT Properties										
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)						
	Depth	Width	Height	Front-Back	Side-Side	Vertical				
90	13.8	31.5	23.6	16.5	18.6	>33.3				
UUT Highest Passed Seismic Run Information										
Building Code		Test Criteria		S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019		ICC-ES AC156 (2015)		2.0	1.0	1.5	3.20	2.40	1.33	0.53

Test Mounting Details:



UUT was base mounted - rigid with four (4) 3/8" grade 5 bolts.
Unit maintained structural integrity and remained functional per manufacturer requirement.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



1800692-CR-002-R2

Manufacturer:	Mitsubishi Electric US	UUT 28
Model Line:	PUZ	
Model Number:	PUZ-A36NHA3	
Serial Number:		N/A

Product Construction Summary:

Carbon Steel

Options/Subcomponent Summary:

Heat Exchanger (PN: T7W E60 408), Compressor (PN: T92 508 801), Fan Motor (PN: T7W E27 763), Control Board (PN: T7W F00 315), Inverter Board (PN: T7W E39 313), Reversing Valve (PN: R01 E28 403), Accumulator (PN: R01 E57 440)

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)*		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
165	13	37.4	37.2	6.7	>33.3	>33.3

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.20	2.40	1.33	0.53

Test Mounting Details:



Rigid base mounted with (4) 3/8" diameter SAE grade 5 bolts.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.

Contents were included in testing per operating conditions.

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UNIT UNDER TEST (UUT) SUMMARY SHEET



1800692-CR-002-R2

Manufacturer:	Mitsubishi Electric US	UUT 29
Model Line:	P-Series and S-Series AHUs	
Model Number:	PQRY-P72TLMU-A	
Serial Number:		N/A

Product Construction Summary:

Galvanized steel

Options/Subcomponent Summary:

Scroll Compressor (PN: R69 130 478), Accumulator Assy. (PN: R61 127 484), Heat Exchanger (PN: R61 987 480), INV Heat Exchanger Assy. (PN: R61 928 480), Four Way Valve (PN: R61 013 403), Control Board (PN: R61 358 280), INV Board (PN: R61 353 280)

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
380	21.7	34.7	43.3	>33.3	26.2	>33.3

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2015)	2.75	1.0	1.5	4.40	3.30	2.10	0.84
		3.15	0.0	1.5				

Test Mounting Details:



UUT base mounted - rigid with four (4) 3/8" A307 bolts with flat and lock washers (tightened snug tight).
Unit maintained structural integrity and remained functional per manufacturer requirement.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



1800692-CR-002-R2

Manufacturer:	Mitsubishi Electric US	UUT 30
Model Line:	P-Series and S-Series AHUs	
Model Number:	PQHY-P40YLMUA	
Serial Number:		N/A

Product Construction Summary:

Galvanized steel

Options/Subcomponent Summary:

Scroll Compressor (PN: R69 133 478), Accumulator Assy. (PN: R61 125 484), Heat Exchanger (PN: R61 991 480), INV Heat Exchanger Assy. (PN: R61 928 480), Four Way Valve (PN: R61 013 403), Control Board (PN: R61 340 280), INV Board (PN: R61 372 280)

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
574	21.7	34.7	57.1	5.8	31.2	14.6

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2015)	2.6	1.0	1.5	4.16	3.12	1.9	0.76
		2.85	0.0	1.5				

Test Mounting Details:



UUT base mounted - rigid with four (4) 1/2" A307 bolts, flat washer, and lock washer (tightened snug tight).
Unit maintained structural integrity and remained functional per manufacturer requirement.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



1800692-CR-002-R2

Manufacturer:	Mitsubishi Electric US	UUT 31
Model Line:	P-Series and S-Series AHUs	
Model Number:	PUHY-P72TLMUA	
Serial Number:		N/A

Product Construction Summary:
Carbon steel

Options/Subcomponent Summary:
Compressor (PN: R69 126 478), Heat Exchanger (PN: R61 929 480), Fan Motor (PN: R61 267 220), Accumulator (PN: R61 041 484), Reversing Valve x 2 (PN: R61 013 403), PC Board Mat'l (PN: R61 342 280)

UUT Properties										
Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)						
	Depth	Width	Height	Front-Back	Side-Side	Vertical				
435	29.2	36.3	64.9	6.8	>33.3	>33.3				
UUT Highest Passed Seismic Run Information										
Building Code		Test Criteria		S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019		ICC-ES AC156 (2015)		2.75	1.0	1.5	4.4	3.3	2.1	0.84
				3.15	0.0	1.5				

Test Mounting Details:



Base mounted - rigid with four (4) 1/2" A307 bolts, flat washer, and lock washer.
Unit maintained structural integrity and remained functional per manufacturer requirement.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



1800692-CR-002-R2

Manufacturer:	Mitsubishi Electric US	UUT 32
Model Line:	P-Series and S-Series AHUs	
Model Number:	PURY-P168YLMUA	
Serial Number:		N/A

Product Construction Summary:

Carbon steel

Options/Subcomponent Summary:

Compressor (PN: R69 118 478), Heat Exchanger (PN: R61 937 480), Heat Exchanger (PN: R61 939 480), Fan Motor x2 (PN: R61 268 220), Accumulator (PN: R61 089 484), Reversing valve x2 (PN: R61 013 403), PC Board Mat'l (PN: R61 354 280)

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
702	29.2	65	68.9	>33.3	6.0	>33.3

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2015)	2.75	1.0	1.5	4.40	3.30	2.10	0.84
		3.15	0.0	1.5				

Test Mounting Details:



UUT base mounted - rigid with six (6) 1/2" diameter A 307 bolts with 1.063" OD flat and lock washers (tightened snug tight). Unit maintained structural integrity and remained functional per manufacturer requirement. Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



1800692-CR-002-R2

Manufacturer:	Mitsubishi Electric US	UUT 33
Model Line:	P-Series and S-Series AHUs	
Model Number:	PURY-EP168TNU-A	
Serial Number:		83W00017

Product Construction Summary:

Carbon steel

Options/Subcomponent Summary:

Compressor (PN: R69 169 478), Heat Exchanger Kit (PN: KS00R752), Fan Motor Left (PN: R61 380 220), Fan Motor Right (PN: R61 378 220), Accumulator (PN: KD54B568), Fan (PN: R61 047 114)

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
741	29	69	72	8.33	5.82	>33.3

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _p	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.20	2.40	1.67	0.67
		2.5	0.0	1.5				

Test Mounting Details:



UUT 33 was base mounted rigid with six (6) 1/2"-13 grade 8 bolts with flat washers.
Unit maintained structural integrity and remained functional per manufacturer requirement.
Contents were included in testing per operating conditions.

UNIT UNDER TEST (UUT) SUMMARY SHEET



1800692-CR-002-R2

Manufacturer:	Mitsubishi Electric US	UUT 34
Model Line:	P-Series and S-Series AHUs	
Model Number:	PUHY-EP-192TNU-A	
Serial Number:		93P00001

Product Construction Summary:

Carbon steel

Options/Subcomponent Summary:

Compressor (PN: E27 R37 900), Heat Exchanger (PN: KD00B670), Fan Motor Right (PN: E27 J44 301), Fan Motor Left (PN: E27 J50 301), Accumulator (PN: KD54B612), Reversing Valve (PN: E27 R17 961), Reversing Valve (PN: E27 R22 961), Reversing Valve (PN: E27 R27 961), PC Board Mat'l (PN: E27 R13 450)

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
744.5	29	69	72	8.10	5.99	>33.3

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.20	2.40	1.67	0.67
		2.5	0.0	1.5				

Test Mounting Details:



UUT 34 was base mounted rigid with six (6) 1/2"-13 grade 8 bolts with flat washers.
Unit maintained structural integrity and remained functional per manufacturer requirement.
Contents were included in testing per operating conditions.

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UNIT UNDER TEST (UUT) SUMMARY SHEET



1800692-CR-002-R2

Manufacturer:	Mitsubishi Electric US	UUT 35
Model Line:	P-Series and S-Series AHUs	
Model Number:	CMB-P104NU-J1	
Serial Number:		83W00016

Product Construction Summary:

Carbon steel

Options/Subcomponent Summary:

Linear Expansion Valve (PN: R61 107 401), Solenoid Valve Coil (PN: R61 052 243), Solenoid Valve Coil (PN: R61 053 243), Solenoid Valve Coil (PN: R61 067 243), Board Assembly (PN: R61 527 280)

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
56	16	25	10	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.20	2.40	1.67	0.67
		2.5	0.0	1.5				

Test Mounting Details:



Ceiling suspended rigid using (4) 3/8" A307 hanger rods w/ rod stiffeners (Drop=16-20"), (4) 3/32" diagonal cable braces w/ Mason SCB-0/SCBH-0 clips, (12) 3/8" nuts, (8) 3/8" square washers provide by manufacturer in mounting kit.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.

Contents were included in testing per operating conditions.

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UNIT UNDER TEST (UUT) SUMMARY SHEET



1800692-CR-002-R2

Manufacturer:	Mitsubishi Electric US	UUT 36
Model Line:	P-Series and S-Series AHUs	
Model Number:	CMB-P1016NU-KA1	
Serial Number:		N/A

Product Construction Summary:

Carbon steel

Options/Subcomponent Summary:

Linear Expansion Valve (PN: R61 107 401), Solenoid Valve Coil (PN: R61 052 243), Solenoid Valve Coil (PN: R61 053 243), Solenoid Valve Coil (PN: R61 054 243), Solenoid Valve Coil (PN: R61 067 243), Solenoid Valve Coil (PN: R61 068 243), Solenoid Valve (PN: R63 001 921), Solenoid Valve (PN: R63 040 232), Board Assembly (PN: R63 Mb2 280)

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
144.5	22	45	10	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.20	2.40	1.67	0.67
		2.5	0.0	1.5				

Test Mounting Details:



Ceiling suspended rigid using (4) 3/8" A307 hanger rods w/ rod stiffeners (Drop=16-20"), (4) 3/32" diagonal cable braces w/ Mason SCB-0/SCBH-0 clips, (12) 3/8" nuts, (8) 3/8" square washers provide by manufacturer in mounting kit.

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.

Contents were included in testing per operating conditions. Contents were included in testing per operating conditions.

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UNIT UNDER TEST (UUT) SUMMARY SHEET



1800692-CR-002-R2

Manufacturer:	Mitsubishi Electric US	UUT 37
Model Line:	P-Series and S-Series AHUs	
Model Number:	PCA-A42KA7	
		Serial Number: 8YM00587

Product Construction Summary:

Carbon steel and plastic

Options/Subcomponent Summary:

Sirocco Fan (PN: E17 648 500), Sirocco Fan (PN: E17 648 500), Fan Case (PN: E17 648 237), Fan Motor (PN: E17 649 300), Heat Exchanger (PN: E17 782 620), Contoller Board (PN: E17 D87 447), Terminal Block (PN: E17 516 375 and E17 162 375)

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
87.5	26.8	63	9.1	N/A	N/A	N/A

UUT Highest Passed Seismic Run Information

Building Code	Test Criteria	S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
CBC 2019	ICC-ES AC156 (2015)	2.0	1.0	1.5	3.20	2.40	1.67	0.67
		2.5	0.0	1.5				

Test Mounting Details:



Ceiling suspended rigid using (4) 3/8" A307 hanger rods w/ rod stiffeners (Drop=16-20"), (4) 3/32" diagonal cable braces w/ Mason SCB-0/SCBH-0 clips, (12) 3/8" nuts, (4) 3/8" square washers and (4) 3/8" round flat washers..

Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.

Contents were included in testing per operating conditions. Contents were included in testing per operating conditions.

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UNIT UNDER TEST (UUT) SUMMARY SHEET



1800692-CR-002-R2

Manufacturer: Mitsubishi Electric US
Model Line: P-Series and S-Series AHUs
Model Number: PCA-A42KA7

Serial Number: 8YM00587

UUT 37

Seismic Modification Details:



1/4"-14x 3/4" Self-tapping screws

Three (3) 1/4"-14X 3/4" hex head integral washer self tapping screws were added to each mounting bracket as shown in the above image.