APPLICATION FOR HCAI SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0537

HCAI 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.

Mounting Description: Varies, (see attachment)

Tested Seismic Enhancements: Seismic enhancements made to the test units and/or modifications required to address anomalies during the tests shall be incorporated into the production units.

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:

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CALIFORNIA BUILDING CODE, 2019

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
- [x] 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 75229-3513

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

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Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) = 1.50

S_{DS} (Design spectral response acceleration at short period, g) = 2.00

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

Natural frequencies (Hz) = See Attachment

Overall dimensions and weight = See Attachment

HCAI Approval (For Office Use Only) - **Approval Expires on 11/03/2028**

Date: 11/3/2022

Name: Timothy Piland Title: Senior Structural Engineer

Special Seismic Certification Valid Up to: S_{DS} (g) = 2.00 z/h = 1

Condition of Approval (if applicable):

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SPECIAL SEISMIC CERTIFICATION
CERTIFIED COMPONENT MATRIX

2000559-CR-001-R2

TRU COMPLIANCE

Manufacturer:	Mitsubishi Electric Corporation	**TABLE 1**
Model Line:	P-Type, S-Type, and City Multi	

Certified Product Construction Summary:
Carbon steel cabinet construction

Certified Options Summary:
PUZ and PUY: 208/230, Heat Pump and cooling only
PUMY, TUMY, MXZ: 208/230V Single Phase, 208/230V 3 Phase, and 460V 3 Phase Heat Pump and Heat Recovery
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 2022 ***Seismic Certification Limits:*** S_{DS}= ***2.00 g z/h=1.0*** S_{DS}= ***2.11 g z/h=0.0*** I_P= ***1.5***

Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
PUZ Outdoor Heat Pumps (P-Type)[2,3]	PUZ-A12NKA7	11.6	31.5	23.6	90		1
	PUZ-A12	11.6	31.5	23.6	90	TRUZA012 ASUZA012	Interp.
	PUZ-A18[1]	11.8	31.9	24.8	99	TRUZA018 ASUZA018	Interp.
	PUZ-A24[1]	13.0	37.4	37.1	151	TRUZA024 ASUZA024	Interp.
	PUZ-A30[1]	13.0	37.4	37.1	151	TRUZA030 ASUZA030	Interp.
	PUZ-A36[1]	13.0	37.4	53.2	258	TRUZA036 ASUZA036	Interp.
	PUZ-A36NKA7[1,4]	13.0	37.4	53.2	258		2
	PUZ-A42[1,4]	13.0	41.3	52.7	258	TRUZA042 ASUZA042	Extrap.

[1] Requires seismic enhancement: (1) additional 1/8" x 16.5" x 1" carbon steel flat bar attached to unit with (3) #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] PUZ-A36NKA7 and PUZ-A42NKA7 vary only in software.

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SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2000559-CR-001-R2

TRU COMPLIANCE

Manufacturer: Mitsubishi Electric Corporation
Model Line: P-Type, S-Type, and City Multi

TABLE 1

Certified Product Construction Summary:
Carbon steel cabinet construction

Certified Options Summary:
PUZ and PUY: 208/230, Heat Pump and cooling only
PUMY, TUMY, MXZ: 208/230V Single Phase, 208/230V 3 Phase, and 460V 3 Phase Heat Pump and Heat Recovery
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 2022 ***Seismic Certification Limits:*** S_{DS}= *2.00 g z/h=1.0* S_{DS}= *2.11 g z/h=0.0* I_P= *1.5*

Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
PUY[2,3,5] Outdoor Condensers, Cooling Only (P-Type)	PUY-A12	11.8	31.9	24.8	92	TRUYA012 ASUYA012	Interp.
	PUY-A18[1]	11.8	31.9	24.8	99	TRUYA018 ASUYA018	Interp.
	PUY-A24[1]	13.0	37.4	37.1	151	TRUYA024 ASUYA024	Interp.
	PUY-A30[1]	13.0	37.4	37.1	151	TRUYA030 ASUYA030	Interp.
	PUY-A36[1]	13.0	41.3	52.7	258	TRUYA036 ASUYA036	Interp.
	PUY-A42[1]	13.0	41.3	52.7	258	TRUYA042 ASUYA042	Interp.
PUMY/TUMY[6] City Multi S-Type Heat Pump Air Conditioners	PUMY-P36	13.0	37.4	52.7	269	TUMYP036	Extrap.
	PUMY-HP36	13.0	41.3	52.7	277	TUMYH036	Extrap.
	PUMY-P48	13.0	37.4	52.7	287	TUMYP048	Extrap.
	PUMY-HP48	13.0	41.3	52.7	277	TUMYH048	Extrap.
	PUMY-P48NHMU1	13.0	37.4	52.7	287		6

[1] Requires seismic enhancement: (1) additional 1/8" x 16.5" x 1" carbon steel flat bar attached to unit with (3) #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.
[5] PUY is a depopulated PUZ unit.
[6] PUMY-P###NKMU1 are same as PUMY-P###NKMU2/3 except for software.

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SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2000559-CR-001-R2

TRU COMPLIANCE

Manufacturer: Mitsubishi Electric Corporation
Model Line: P-Type, S-Type, and City Multi

TABLE 1

Certified Product Construction Summary:
Carbon steel cabinet construction

Certified Options Summary:
PUZ and PUY: 208/230, Heat Pump and cooling only
PUMY, TUMY, MXZ: 208/230V Single Phase, 208/230V 3 Phase, and 460V 3 Phase Heat Pump and Heat Recovery
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 2022 ***Seismic Certification Limits:*** S_{DS}= *2.00 g z/h=1.0* S_{DS}= *2.11 g z/h=0.0* I_P= *1.5*

Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
PUMY/TUMY[2,6] City Multi S-Type Heat Pump Air Conditioners	PUMY-HP36[11]	13.0	41.3	52.7	277	TUMYH0361AK41NA Tested	42
	PUMY-HP48[11]	13.0	41.3	52.7	277	TUMYH048[7]	Interp.
	PUMY-P60[11]	13.0	37.4	53.2	306	TUMYP060	Interp.
	PUMY-P60NKMU1[11]	13.0	37.4	53.2	306		5
MXZ[2,8,9] City Multi M-Type Heat Pump Air Conditioners	MXZ-SM36NAM	13.0	37.4	52.7	269	NTXMSM36A142	Extrap.
	MXZ-SM36NAMHZ	13.0	41.3	52.7	277	NTXMSH36A142	Extrap.
	MXZ-SM42NAMHZ	13.0	41.3	52.7	277	NTXMSH42A152	Extrap.
	MXZ-SM48NAMHZ	13.0	41.3	52.7	277	NTXMSH48A152	Extrap.
	MXZ-SM48NAM	13.0	37.4	52.7	287	NTXMSM48A182	Extrap.
	MXZ-SM60NAM	13.0	37.4	53.2	306		Extrap.
MXZ[2,10] City Multi TAM-Type Heat Pump Air Conditioners	MXZ-SM72TAM	18.0	41.0	65.3	431	NTXMSM72	Extrap.
	MXZ-SM96TAM	18.0	41.0	65.3	431	NTXMSM96	Extrap.
	MXZ-SM120TAM	18.0	41.0	65.3	431	NTXMSM120	Extrap.
	MXZ-SM120TAM-U1	18.0	41.0	65.3	431		43

[2]Alternate model number for Trane branded product line. Unit is identical.
[6]PUMY-P###NKMU1 are same to PUMY-P###NKMU2/3 except for software.
[7]TUMYH0361AK41NA is same as interpolated TUMYH0481AK41NA except for software.
[8]PUMY-P###NKMU1 units are same as extrapolated MXZ-SM##NAM-U1 except for software.
[9]PUMY-HP##NKMU1/TUMYH0##1AK41NA are identical to extrapolated MXZ-SM##NAMHZ-U1.
[10]MXZ-SM120TAM is same as extrapolated MXZ-SM###TAM except for software.
[11]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, to be attached above foot. See UUT Summaries for further details.

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SPECIAL SEISMIC CERTIFICATION
CERTIFIED COMPONENT MATRIX

2000559-CR-001-R2

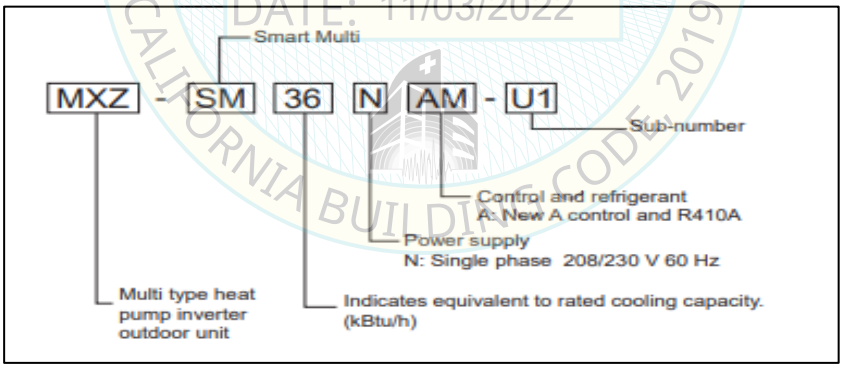
Manufacturer:	Mitsubishi Electric Corporation	**TABLE 1**
Model Line:	P-Type, S-Type and City Multi	

Product Nomenclature Details:

For reference only

P-Series ODU														
T	R	U	Z	A	0	1	2	1	L	A	8	0	N	A
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Brand Name		Configuration	Unit Type	Unit Type	Capacity (Btu/h)	Capacity (Btu/h)	Capacity (Btu/h)	Voltage	Chasis Generation	Controls	Generation Code	Futhure Use	Coil Coating	Minor Design
P = Mitsubishi		U:Single Outdoor	Z:Heat Pump Y: Cooling Only	A: Standard H: Hyper heat	012: 12,000 018: 18,000 024: 24,000 030: 30,000 036: 36,000 042: 42,000			0:115V, 1ph	K: Previous Generation	A: A Control	7th Generation		N: Standard	A: 1st Gen
TR = Trane								1: 208/230V, 1ph	H: Current Generation		8th Generation		B: BS Salt Protection	B: 2nd Gen
AS: American Standard														

MXZ City Multi M-Type Heat Pump Air Conditioners



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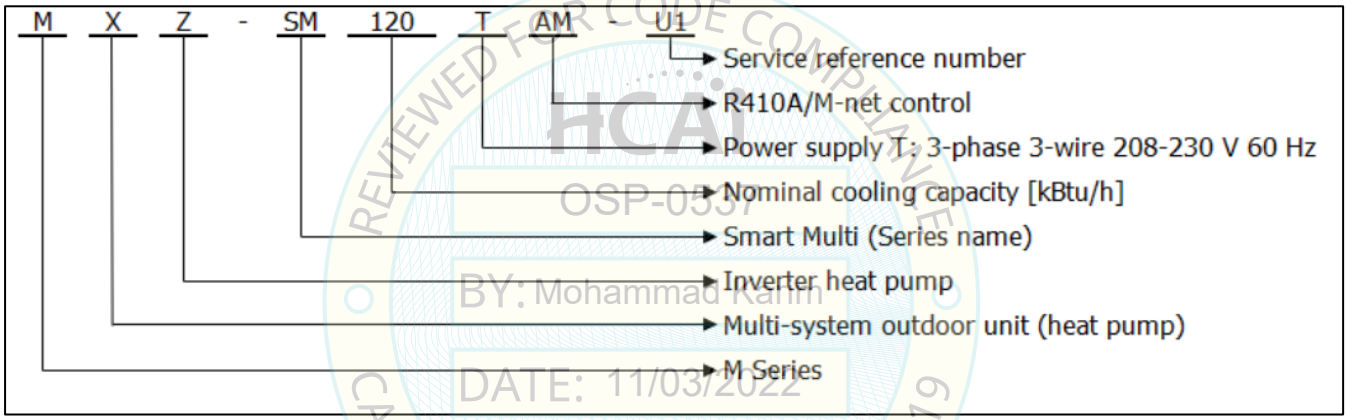
Manufacturer:	Mitsubishi Electric Corporation
Model Line:	P-Type, S-Type and City Multi

TABLE 1

Product Nomenclature Details:

For reference only

MXZ City Multi TAM-Type Heat Pump Air Conditioners



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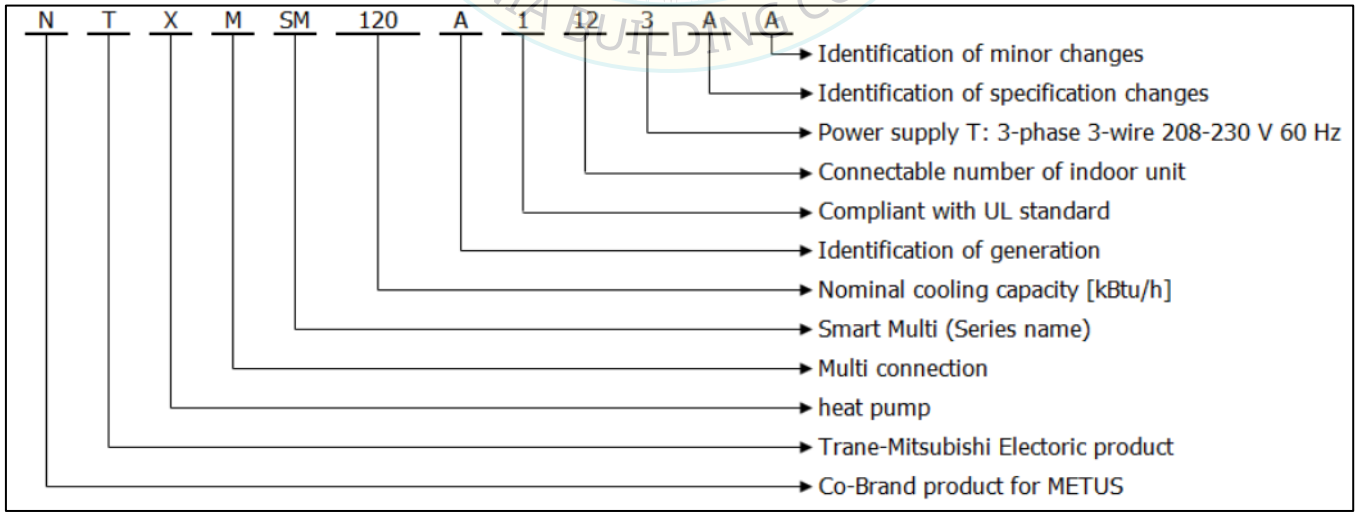
Alternate model number for Trane branded product line. Unit is identical.



SPECIAL SEISMIC CERTIFICATION
CERTIFIED COMPONENT MATRIX

2000559-CR-001-R2

Manufacturer:	Mitsubishi Electric Corporation	**TABLE 1**
Model Line:	P-Type, S-Type and City Multi	

Product Nomenclature Details:

For reference only

Model Name (City Multi Outdoor)

City Multi ODU

T	U	R	Y	P	1	6	8	3	A	L	4	0	A	N
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Digit #1 = **Brand Name**
- T = Trane

Digit #2 = **Configuration**
- U = Air Cooled
- Q = Water Cooled

Digit #3 = **Unit Type**
- H = Heat pump
- R = Heat Recovery
- M = Single Phase HP

Digit #4 =
- Y = Inverter Compressor

Digit #5 = **Performance**
- P = Standard Efficiency
- H = Hyper Heat
- E = High Efficiency

Digit #6,7,8 = **Capacity (Btu/h)**
- 072 = 72,000
- 120 = 120,000
- 144 = 144,000
- 168 = 168,000
- 192 = 192,000
- 216 = 216,000

Digit #9 = **Voltage**
- 3 = 208V/3P/60hz
- 4 = 460v/3P/60hz
- 1 = 208v/1p/60hz

Digit #10 = **Modules**
- A = Single
- B = Double
- C = Triple

Digit #11 = **Generation Code**
- K = 7th Generation
- L = 8th Generation
- N = 9th Generation

Digit #12 = **Refrigerant**
- 4 = R410a

Digit #13 = **Major Change**
- 0 = 1st Gen
- 1 = 2nd Gen
- 2 = 3rd Gen

Digit #14 = **Minor Change**
- A = 1st Gen
- B = 2nd Gen

Digit #15 = **Coil Coating**
- N = Standard no coating
- B = BS Salt Protection

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SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2000559-CR-001-R2

TRU COMPLIANCE

Manufacturer: Mitsubishi Electric Corporation
Model Line: P-Type, S-Type, and City Multi

TABLE 2

Certified Product Construction Summary:
Carbon steel cabinet construction

Certified Options Summary:
PQRY, PQHY, PURY, and PUHY: 208/230V Single Phase, 208/230V 3 Phase, and 460V 3 Phase Heat Pump and Heat Recovery 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 2022 ***Seismic Certification Limits:*** S_{DS}= *2.00 g z/h=1.0* S_{DS}= *2.11 g z/h=0.0* I_P= *1.5*

Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
PQRY/PQHY Outdoor Heat Recovery/Heat Pump[1,2]	PQRY-P72TLMU-A	21.7	34.7	43.3	380		29
	PQRY-P72	21.7	34.7	43.3	404	TQRYP072	Interp.
	PQHY-P72	21.7	34.7	43.3	408	TQHYP072	Interp.
	PQRY-P96	21.7	34.7	43.3	380	TQRYP096	Interp.
	PQHY-P96	21.7	34.7	43.3	408	TQHYP096	Interp.
	PQRY-P120	21.7	34.7	43.3	404	TQRYP120	Interp.
	PQHY-P120	21.7	34.7	43.3	408	TQHYP120	Interp.
	PQRY-P144	21.7	34.7	57.1	505	TQRYP144	Interp.
	PQHY-P144	21.7	34.7	57.1	508	TQHYP144	Interp.
	PQRY-P168	21.7	34.7	57.1	505	TQRYP168	Interp.
	PQHY-P168	21.7	34.7	57.1	508	TQHYP168	Interp.
	PQRY-P192	21.7	34.7	57.1	505	TQRYP192	Interp.
	PQHY-P192	21.7	34.7	57.1	508	TQHYP192	Interp.
	PQRY-P216	21.7	34.7	57.1	571	TQRYP216	Interp.
	PQHY-P216	21.7	34.7	57.1	574	TQHYP216	Interp.
	PQRY-P240	21.7	34.7	57.1	571	TQRYP240	Interp.
	PQHY-P240	21.7	34.7	57.1	558	TQHYP240	Interp.
	PQHY-P240YLMU-A	21.7	34.7	57.1	574		30

[1]Alternate model number for Trane branded product line. Unit is identical.
[2]PQRY/PQHY-P###TLMU-A are same as interpolated PQRY/PQHY-P###TLMU-A1 except for software.

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SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2000559-CR-001-R2

TRU COMPLIANCE

Manufacturer: Mitsubishi Electric Corporation
Model Line: P-Type, S-Type, and City Multi

TABLE 2

Certified Product Construction Summary:
Carbon steel cabinet construction

Certified Options Summary:
PQRY, PQHY, PURY, and PUHY: 208/230V Single Phase, 208/230V 3 Phase, and 460V 3 Phase Heat Pump and Heat Recovery 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 2022 ***Seismic Certification Limits:*** S_{DS}= *2.00 g z/h=1.0* S_{DS}= *2.11 g z/h=0.0* 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[1]	PUHY-P72TLMU-A	29.2	36.3	65.0	435		31
	PUHY-P72	29.2	36.3	71.6	503	TUHYP072	Interp.
	PURY-P72	29.2	36.3	71.6	516	TURYP072	Interp.
	PURY-HP72	29.3	49.3	71.0	644	TURYH072	Interp.
	PURY-EP72	29.2	36.3	71.6	552	TURYE072	Interp.
	PUHY-HP72	29.3	49.3	71.0	644	TUHYH072	Interp.
	PUHY-EP72	29.2	36.3	71.6	545	TUHYE072	Interp.
	PUHY-P96	29.2	48.8	65.0	532	TUHYP096	Interp.
	PURY-P96	29.2	48.8	71.6	611	TURYP096	Interp.
	PURY-EP96	29.2	48.8	71.6	649	TURYE096	Interp.
	PURY-HP96	29.4	49.3	71.6	697	TURYH096	Interp.
	PUHY-HP96	29.2	49.3	71.6	688	TUHYH096	Interp.
	PUHY-EP96	29.2	48.8	71.6	657	TUHYE096	Interp.
	PUHY-P120	29.2	48.8	71.6	706	TUHYP120	Interp.
	PURY-P120	29.2	48.8	65.0	633	TURYP120	Interp.
	PURY-EP120	29.2	48.9	71.6	657	TURYE120	Interp.
	PUHY-EP120	29.2	48.9	71.6	668	TUHYE120	Interp.
	PURY-HP120	29.4	49.3	71.6	697	TURYH120	Interp.
	PUHY-HP120	29.2	49.3	71.6	691	TUHYH120	Interp.
	PUHY-P144	29.2	48.8	65.0	706	TUHYP144	Interp.
	PUHY-P144[3]	29.2	72.5	65.0	870	TUHYP144	Interp.

[1]Alternate model number for Trane branded product line. Unit is identical.
[3]Nominal capacity can be achieved by using a single module or multiple modules of smaller capacity. Model shows option for multiple modules inline to achieve identical nominal capacity.

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SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

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TRU COMPLIANCE

Manufacturer: Mitsubishi Electric Corporation
Model Line: P-Type, S-Type, and City Multi

TABLE 2

Certified Product Construction Summary:
Carbon steel cabinet construction

Certified Options Summary:
PQRY, PQHY, PURY, and PUHY: 208/230V Single Phase, 208/230V 3 Phase, and 460V 3 Phase Heat Pump and Heat Recovery 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 2022 ***Seismic Certification Limits:*** S_{DS}= *2.00 g z/h=1.0* S_{DS}= *2.11 g z/h=0.0* 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[1]	PURY-P144	29.2	48.8	71.6	682	TURYP144	Interp.
	PURY-P144[3]	29.2	98.6	71.6	1,288	TURYP144	Interp.
	PURY-HP144	29.2	48.9	71.6	715	TURYH144	Interp.
	PURY-EP144	29.2	48.9	71.6	715	TURYE144	Interp.
	PUHY-HP144	29.2	48.9	71.6	715	TUHYH144	Interp.
	PUHY-EP144	29.2	48.9	71.6	715	TUHYE144	Interp.
	PUHY-P168	29.2	68.9	65.0	743	TUHYP168	Interp.
	PURY-P168YLMUA	29.2	65	68.9	702		32
	PURY-P168	29.2	68.9	71.6	774	TURYP168	Interp.
	PURY-EP168	29.2	68.9	71.6	807	TURYE168	Interp.
	PUHY-EP168TNU-A	29.0	69.0	72.0	741		33
	PUHY-P192[3]	29.2	105.1	65.0	1,174	TUHYP192	Interp.
	PURY-P192[3]	29.2	97.8	71.6	1,222	TURYP192	Interp.
	PUHY-HP192	29.2	68.9	71.6	745	TUHYH192	Interp.
	PUHY-HP192[3]	29.2	98.6	71.6	1,376	TUHYH192	Interp.
	PURY-HP192	29.2	68.9	71.6	745	TURYH192	Interp.
	PURY-EP192	29.2	68.9	71.6	873	TURYE192	Interp.
	PURY-EP192[3]	29.2	97.8	71.6	1,298	TURYE192	Interp.
	PUHY-EP192	29.2	68.9	71.6	745	TUHYE192	Interp.
	PUHY-EP192TNU-A	29.0	69.0	72.0	745		34
	PUHY-EP192[3]	29.2	97.8	71.6	1,314	TUHYE192	Interp.

[1]Alternate model number for Trane branded product line. Unit is identical.
[3]Nominal capacity can be achieved by using a single module or multiple modules of smaller capacity. Model shows option for multiple modules inline to achieve identical nominal capacity.

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SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2000559-CR-001-R2

TRU COMPLIANCE

Manufacturer: Mitsubishi Electric Corporation
Model Line: P-Type, S-Type, and City Multi

TABLE 2

Certified Product Construction Summary:
Carbon steel cabinet construction

Certified Options Summary:
PQRY, PQHY, PURY, and PUHY: 208/230V Single Phase, 208/230V 3 Phase, and 460V 3 Phase Heat Pump and Heat Recovery 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 2022 ***Seismic Certification Limits:*** S_{DS}= *2.00 g z/h=1.0* S_{DS}= *2.11 g z/h=0.0* 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[1]	PUHY-P216[3]	29.2	117	65.0	1,238	TUHYP216	Interp.
	PURY-P216[3]	29.2	97.8	71.6	1,244	TURYE216	Interp.
	PUHY-EP216[3]	29.2	68.9	71.6	904	TUHYP216	Interp.
	PUHY-EP216[3]	29.2	97.8	71.6	1,325	TUHYP216	Interp.
	PURY-EP216[3]	29.2	68.9	71.6	873	TURYP216	Interp.
	PURY-EP216[3]	29.2	97.8	71.6	1,306	TURYE216	Interp.
	PUHY-P240[3]	29.2	137.8	65	1,412	TUHYP240	Interp.
	PURY-P240[3]	29.2	97.8	71.6	1,266	TURYP240	Interp.
	PUHY-HP240[3]	29.2	98.6	71.6	1,382	TUHYH240	Interp.
	PURY-HP240[3]	29.2	98.6	71.6	1,394	TURYH240	Interp.
	PUHY-EP240	29.3	68.9	71.6	904	TUHYE240	Interp.
	PUHY-EP240[3]	29.3	97.8	71.6	1,336	TUHYE240	Interp.
	PURY-EP240[3]	29.2	68.9	71.6	873	TURYE240	Interp.
	PURY-EP240TNU-A	29.3	68.9	71.6	873		38
	PURY-EP240[3]	29.3	97.8	71.6	1314	TURYE240	Interp.
	PUHY-EP240YNU-A	29.2	68.9	71.6	887		39
	PUHY-P264[3]	29.2	141.1	65	1,642	TUHYP264	Extrap.
	PURY-P264[3]	29.2	97.8	71.6	1,315	TURYP264	Extrap.
	PUHY-EP264[3]	29.2	134	71.6	1,859	TUHYE264	Extrap.
	PURY-EP264[3]	29.2	97.8	71.6	1,372	TURYE264	Extrap.

[1]Alternate model number for Trane branded product line. Unit is identical.
[3]Nominal capacity can be achieved by using a single module or multiple modules of smaller capacity. Model shows option for multiple modules inline to achieve identical nominal capacity.

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SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2000559-CR-001-R2

TRU COMPLIANCE

Manufacturer: Mitsubishi Electric Corporation
Model Line: P-Type, S-Type, and City Multi

TABLE 2

Certified Product Construction Summary:
Carbon steel cabinet construction

Certified Options Summary:
PQRY, PQHY, PURY, and PUHY: 208/230V Single Phase, 208/230V 3 Phase, and 460V 3 Phase Heat Pump and Heat Recovery 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 2022 ***Seismic Certification Limits:*** S_{DS}= *2.00 g z/h=1.0* S_{DS}= *2.11 g z/h=0.0* 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[1]	PUHY-P288[3]	29.2	153.25	65	1,706	TUHYP288	Extrap.
	PURY-P288[3]	29.2	97.8	71.6	1,364	TURYP288	Extrap.
	PUHY-EP288[3]	29.2	134	71.6	1,870	TUHYE288	Extrap.
	PURY-EP288[3]	29.2	97.8	71.6	1,430	TURYE288	Extrap.
	PUHY-P312[3]	29.2	174	65	1,880	TUHYP312	Extrap.
	PURY-P312[3]	29.2	117.7	71.6	1,456	TURYP312	Extrap.
	PUHY-EP312[3]	29.2	134	71.6	1,881	TUHYE312	Extrap.
	PURY-EP312[3]	29.2	117.7	71.6	1,522	TURYE312	Extrap.
	PUHY-P336[3]	29.2	174	65	1,899	TUHYP336	Extrap.
	PURY-P336[3]	29.2	137.8	71.6	1,548	TURYP336	Extrap.
	PUHY-EP336[3]	29.2	146.6	71.6	1,993	TUHYE336	Extrap.
	PURY-EP336[3]	29.2	137.8	71.6	1,614	TURYE336	Extrap.
	PUHY-EP360[3]	29.2	146.6	71.6	2,004	TUHYE360	Extrap.
	PUHY-P360[3]	29.2	206.7	71.6	2,118	TUHYP360	Extrap.
	PURY-EP336[3]	29.2	137.8	71.6	1,614	TURYE336	Extrap.
	PUHY-EP360[3]	29.2	146.6	71.6	2,004	TUHYE360	Extrap.
	PUHY-P360[3]	29.2	206.7	71.6	2,118	TUHYP360	Extrap.
	PUHY-EP384[3]	29.2	146.6	71.6	2,051	TUHYE384	Extrap.
	PURY-EP384[3]	29.2	137.8	71.6	1,746	TURYE384	Extrap.
	PUHY-EP408[3]	29.2	146.6	71.6	2,098	TUHYE408	Extrap.
	PUHY-P408[3]	29.2	146.6	71.6	2,098	TUHYP408	Extrap.

[1]Alternate model number for Trane branded product line. Unit is identical.
[3]Nominal capacity can be achieved by using a single module or multiple modules of smaller capacity. Model shows option for multiple modules inline to achieve identical nominal capacity.

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SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2000559-CR-001-R2

TRU COMPLIANCE

Manufacturer: Mitsubishi Electric Corporation
Model Line: P-Type, S-Type, and City Multi

TABLE 2

Certified Product Construction Summary:
Carbon steel cabinet construction

Certified Options Summary:
PQRY, PQHY, PURY, and PUHY: 208/230V Single Phase, 208/230V 3 Phase, and 460V 3 Phase Heat Pump and Heat Recovery 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 2022 ***Seismic Certification Limits:*** S_{DS}= *2.00 g z/h=1.0* S_{DS}= *2.11 g z/h=0.0* 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[1]	PUHY-P432[3]	29.2	146.6	71.6	2,145	TUHYP432	Extrap.
	PUHY-EP432[3]	29.2	146.6	71.6	2,145	TUHYE432	Extrap.
	PURY-EP432[3]	29.2	137.8	71.6	1,746	TURYE432	Extrap.

[1]Alternate model number for Trane branded product line. Unit is identical.
[3]Nominal capacity can be achieved by using a single module or multiple modules of smaller capacity. Model shows option for multiple modules inline to achieve identical nominal capacity.

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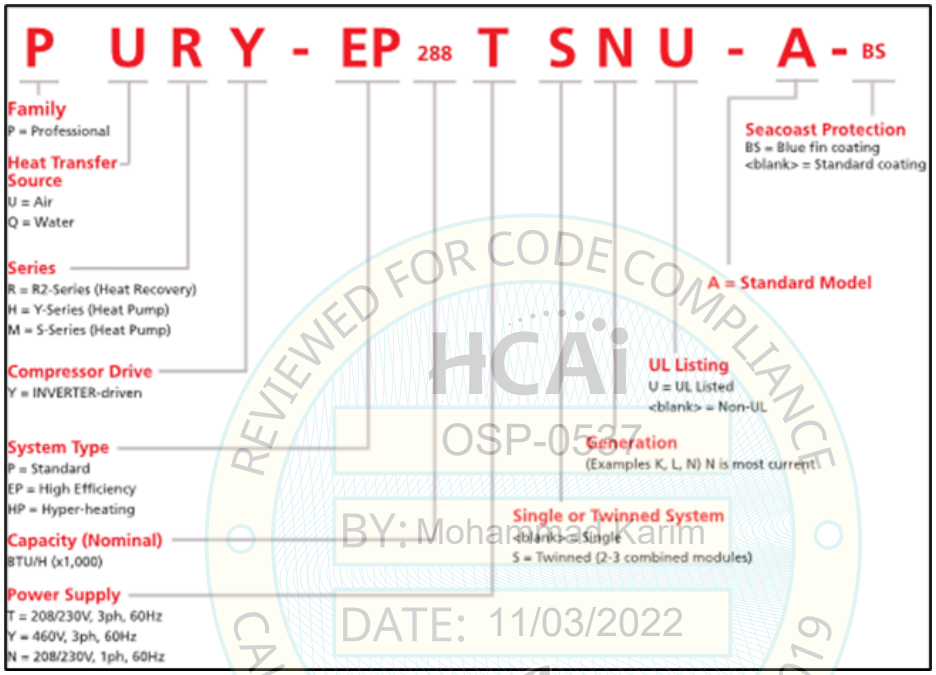
SPECIAL SEISMIC CERTIFICATION
CERTIFIED COMPONENT MATRIX

2000559-CR-001-R2

Manufacturer:	Mitsubishi Electric Corporation	**TABLE 2**
Model Line:	P-Type, S-Type and City Multi	

Product Nomenclature Details:

For reference only



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SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2000559-CR-001-R2

TRU COMPLIANCE

Manufacturer: Mitsubishi Electric Corporation
Model Line: P-Type, S-Type, and City Multi

TABLE 3

Certified Product Construction Summary:
Carbon steel casing

Certified Options Summary:
PAC-SJ42TM-E, multifunction casement accessory, certified for PLFY and PLA units

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 2022 ***Seismic Certification Limits:*** S_{DS}= *2.00 g z/h=1.0* S_{DS}= *2.11 g z/h=0.0* I_P= *1.5*

Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
PEAD Horizontal Ducted[1,2]	PEAD-A09	29	39.4	9	58	TPEADA009	Extrap
	PEAD-A12	29	39.4	9	58	TPEADA012	Extrap
	PEAD-A12AA7	29	39.4	9	58		3
	PEAD-A15	28.9	28.9	9.9	62	TPEADA015	Interp
	PEAD-A18	28.9	28.9	9.9	62	TPEADA018	Interp
	PEAD-A24	28.9	28.9	9.9	73	TPEADA024	Interp
	PEAD-A30	28.9	28.9	9.9	73	TPEADA030	Interp
	PEAD-A36	28.9	28.9	9.9	91	TPEADA036	Interp
	PEAD-A42A	29	59	14	91	TPEADA042	Interp
	PEAD-A42AA7	29	59	14	91		4
PMFY Indoor Ceiling Cassette 1-Way[2]	PMFY-P06NBMU-E	32.0	15.6	9.2	38		15
	PMFY-P06	32.0	15.6	9.2	38	TPMFYP006	Interp
	PMFY-P08	32.0	15.6	9.2	38	TPMFYP008	Interp
	PMFY-P12	32.0	15.6	9.2	38	TPMFYP012	Interp
	PMFY-P15	32.0	15.6	9.2	38	TPMFYP015	Interp
	PMFY-P15NBMU-E	32.0	15.6	9.2	38		16
PLFY Indoor Ceiling Cassette 4-Way[2]	PLFY-P05	22.4	22.4	8.2	42	TPLFYP005	Extrap
	PLFY-EP06	33.1	33.1	10.2	46	TPLFYP006E	Extrap
	PLFY-P08	22.4	22.4	8.2	42	TPLFYP008F	Extrap
	PLFY-EP08	33.1	33.1	10.2	46	TPLFYP008E	Extrap

Note:
[1] Requires seismic enhancements: (4) #12 self-tapping screws, (1) #14 self-tapping screw, and (1) additional washer in each mounting bracket.
[2] Alternate model number for Trane branded product line. Unit is identical.

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SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2000559-CR-001-R2

TRU COMPLIANCE

Manufacturer: Mitsubishi Electric Corporation
Model Line: P-Type, S-Type, and City Multi

TABLE 3

Certified Product Construction Summary:
Carbon steel casing

Certified Options Summary:
PAC-SJ42TM-E, multifunction casement accessory, certified for PLFY and PLA units

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 2022 ***Seismic Certification Limits:*** S_{DS}= *2.00 g z/h=1.0* S_{DS}= *2.11 g z/h=0.0* I_P= *1.5*

Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
PLFY Indoor Ceiling Cassette 4-Way[2,3]	PLFY-P12NBMU-E	33.1	33.1	10.2	49		17
	PLFY-P12NFMU-E	22.4	22.4	8.2	76	UUT: Tested with PAC-SJ41TM-E accessory	12
	PLFY-P12	33.1	33.1	10.2	46	TPLFYP012F	Interp
	PLFY-EP12	33.1	33.1	10.2	46	TPLFYP012E	Interp
	PLFY-P15	22.4	22.4	8.2	42	TPLFYP015F	Interp
	PLFY-EP15	33.1	33.1	10.2	46	TPLFYP015E	Interp
	PLFY-P18	22.4	22.4	8.2	42	TPLFYP018F	Interp
	PLFY-EP18	33.1	33.1	10.2	46	TPLFYP018E	Interp
	PLFY-P24	22.4	22.4	8.2	46		Interp
	PLFY-EP24	33.1	33.1	11.8	55	TPLFYP024E	Interp
	PLFY-P30	22.4	22.4	8.2	51		Interp
	PLFY-EP30	33.1	33.1	11.8	55	TPLFYP030E	Interp
	PLFY-P36	22.4	22.4	8.2	51		Interp
	PLFY-EP36	33.1	33.1	11.8	55	TPLFYP036E	Interp
	PLFY-EP48	22.4	22.4	8.2	55	TPLFYP048E	Interp
	PLFY-P48	33.1	33.1	11.8	55		Interp
	PLFY-P48NEMU-E	33.1	33.1	11.8	55		18

Note:
[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.

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SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2000559-CR-001-R2

TRU COMPLIANCE

Manufacturer: Mitsubishi Electric Corporation
Model Line: P-Type, S-Type, and City Multi

TABLE 3

Certified Product Construction Summary:
Carbon steel casing

Certified Options Summary:
PAC-SJ42TM-E, multifunction casement accessory, certified for PLFY and PLA units

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 2022 ***Seismic Certification Limits:*** S_{DS}= *2.00 g z/h=1.0* S_{DS}= *2.11 g z/h=0.0* I_P= *1.5*

Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
PLA[4] Indoor Ceiling Cassette 4-Way[2,3,4]	PLA-A12	33.1	33.1	10.2	49	TPLA0A012 APLA0A012	Interp
	PLA-A18	33.1	33.1	10.2	49	TPLA0A018 APLA0A018	Interp
	PLA-A24	33.1	33.1	10.2	51	TPLA0A024 APLA0A024	Interp
	PLA-A30	33.1	33.1	10.2	51	TPLA0A030 APLA0A030	Interp
	PLA-A36	33.1	33.1	11.8	55	TPLA0A036 APLA0A036	Interp
	PLA-A42	33.1	33.1	11.8	55	TPLA0A042 APLA0A042	Interp
	PLA-A42BA	33.1	33.1	11.8	55		19
PEFY Indoor Ceiling Concealed[2]	PEFY-P06NMSU-E	27.6	31.1	7.9	42		20
	PEFY-P06	28.9	27.6	9.9	49	TPEFYP006	Interp
	PEFY-P08	28.9	27.6	9.9	49	TPEFYP008	Interp
	PEFY-P12	28.9	27.6	9.9	49	TPEFYP012	Interp
	PEFY-P15	35.4	29.2	15.0	98	TPEFYP015	Interp
	PEFY-P18	35.4	29.2	15.0	100	TPEFYP018	Interp
	PEFY-P24	35.4	29.2	15.0	100	TPEFYP024	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.
[4] PLFY equivalent to interpolated PLA except for software and branding.

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SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2000559-CR-001-R2

TRU COMPLIANCE

Manufacturer: Mitsubishi Electric Corporation
Model Line: P-Type, S-Type, and City Multi

TABLE 3

Certified Product Construction Summary:
Carbon steel casing

Certified Options Summary:
PAC-SJ42TM-E, multifunction casement accessory, certified for PLFY and PLA units

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 2022 ***Seismic Certification Limits:*** S_{DS}= *2.00 g z/h=1.0* S_{DS}= *2.11 g z/h=0.0* I_P= *1.5*

Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
PEFY Indoor Ceiling Concealed[2]	PEFY-P27	35.4	39.4	15.0	111	TPEFYP027	Interp
	PEFY-P30	35.4	39.4	15.0	111	TPEFYP030	Interp
	PEFY-P36	35.4	47.3	15.0	155	TPEFYP036	Interp
	PEFY-P48	35.4	47.3	15.0	155	TPEFYP048	Interp
	PEFY-P54	35.4	47.3	15.0	155	TPEFYP054	Interp
	PEFY-P72	44.1	49.2	18.6	214	TPEFYP072	Interp
	PEFY-P96	44.1	49.2	18.6	221	TPEFYP096	Interp
	PEFY-P96NMHU-E	44.1	49.2	18.6	221		21
	PEFY-AF-120	55.1	49.3	18.6	309	TPEFYP120	Interp
	PEFY-AF1200CFMR	55.1	49.3	18.6	309		22
PVA/PVFY[2,3]	PVFY-P12AMU-E	50.3	17.0	21.6	117	Tested with heater accessory	23
	PVFY-P12AMU-E	50.3	17.0	21.6	113	TPVFYP012	Interp
	PVA-A12	50.3	17.0	21.6	113	TPVA0A012 APVA0A012	Interp
	PVFY-P18	50.3	17.0	21.6	113	TPVFYP018	Interp
	PVA-A18	50.3	17.0	21.6	113	TPVA0A018 APVA0A018	Interp
	PVFY-P24	50.3	17.0	21.6	141	TPVFYP024	Interp
	PVA-A24	54.3	21.0	21.6	141.0	TPVA0A024 APVA0A024	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.

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SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

2000559-CR-001-R2

TRU COMPLIANCE

Manufacturer: Mitsubishi Electric Corporation
Model Line: P-Type, S-Type, and City Multi

TABLE 3

Certified Product Construction Summary:
Carbon steel casing

Certified Options Summary:
PAC-SJ42TM-E, multifunction casement accessory, certified for PLFY and PLA units

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 2022 ***Seismic Certification Limits:*** S_{DS}= ***2.00 g z/h=1.0*** S_{DS}= ***2.11 g z/h=0.0*** I_P= ***1.5***

Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
PVA/PVFY[2,3]	PVFY-P30	54.3	21.0	21.6	141	TPVFYP030	Interp
	PVA-A30	54.3	21.0	21.6	141	TPVA0A030 APVA0A030	Interp
	PVFY-P36	54.3	21.0	21.6	141	TPVFYP036	Interp
	PVA-A36	59.5	25.0	21.6	172	TPVA0A036 APVA0A036	Interp
	PVA-A42	59.5	25.0	21.6	172	TPVA0A042 APVA0A042	Interp
	PVFY-P48	59.5	25.0	21.6	172	TPVFYP048	Interp
	PVFY-P54	59.5	25.0	21.6	172	TPVFYP054	Interp
	PVFY-P54NAMU-E	59.5	25.0	21.6	227	Tested with heater accessory	24
PCA[2,3,4]	PCA-A24	27.0	47.5	9.0	71	TPCA0A024 APCA0A024	Extrap
	PCA-A24KA7	27.0	47.5	9.0	71		9
	PCA-A30	27.0	50.4	9.0	71	TPCA0A030 APCA0A030	Interp
	PCA-A36	27.0	63.0	9.1	79	TPCA0A036 APCA0A036	Interp
	PCA-A42	27.0	63.0	9.1	88	TPCA0A24 APCA0A036	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.
[4] Requires seismic enhancement: (3) 1/4" x 3/4" hex head self tapping screws added to each mounting bracket.

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SPECIAL SEISMIC CERTIFICATION
CERTIFIED COMPONENT MATRIX

2000559-CR-001-R2

TRU COMPLIANCE

Manufacturer: Mitsubishi Electric Corporation
Model Line: P-Type, S-Type, and City Multi

TABLE 3

Certified Product Construction Summary:
Carbon steel casing

Certified Options Summary:
PAC-SJ42TM-E, multifunction casement accessory, certified for PLFY and PLA units

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 2022 ***Seismic Certification Limits:*** S_{DS}= *2.00 g z/h=1.0* S_{DS}= *2.11 g z/h=0.0* I_P= *1.5*

Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
PCA[4]	PCA-A42KA7	27.0	63.0	9.1	88		37

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Notes:
[4] Requires seismic enhancement: (3) 1/4" x 3/4" hex head self tapping screws added to each mounting bracket.

SPECIAL SEISMIC CERTIFICATION
CERTIFIED COMPONENT MATRIX

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TRU COMPLIANCE

Manufacturer:	Mitsubishi Electric Corporation	**TABLE 3**
Model Line:	P-Type, S-Type, and City Multi	

Product Nomenclature Details:

For Reference Only

P Series IDU															
T	R	U	Z	A			0	1	2	1	L	A	8	0	A
1		2	3	4	5	6	7	8	9	10	11	12	13	14	15
Brand Name		Configuration	Indoor Description	Indoor Description	Indoor Description	Indoor Description	Capacity (Btu/h)	Capacity (Btu/h)	Capacity (Btu/h)	Voltage	Chasis Generation	Controls	Generation Code	Futhure Use	Minor Design
TR = Trane AS: American St		P: P Series	KA0A: Wall Mounted CA0A: Ceiling Suspended LA0A: Cassette VA0A: Vertical Ducted EADA: Horizontal Ducted				012: 12,000 018: 18,000 024: 24,000 030: 30,000 036: 36,000 042: 42,000			0:115V, 1ph 1: 208/230V, 1ph	K: Previous Generation H: Current Generation	A: A Control	7th Generation 8th Generation	0 1	A: 1st Gen B: 2nd Gen

Model Name (City Multi Indoor)

City Multi IDU

T	P	K	F	Y	P	0	2	4	B	M	1	4	0	A
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Digit #1 = **Brand Name**
- T = Trane

Digit #2 = **Model Family**
- P = Packaged AC

Digit #3 = **Application**
- K = Wall Mounted
- L = Ceiling Recessed 4-way
- M = Ceiling Recessed 1-way
- C = Ceiling Suspended
- E = Ceiling Concealed Ducted
- F = Floor Standing
- V = Multi-position Air Handler
- W = Hydronic Heat Exchanger

Digit #4,5,6 = **Unit Type**
- FYP = Indoor Unit

Digit #7,8,9 = **Capacity (Btu/h)**
- 006 = 6,000
- 008 = 8,000
- 012 = 12,000
- 015 = 15,000
- 018 = 18,000
- 024 = 24,000
- 027 = 27,000
- 030 = 30,000
- 036 = 36,000
- 048 = 48,000
- 054 = 54,000
- 072 = 72,000
- 096 = 96,000
- 120 = 1,200CFM

Digit #10,11 = **Configuration**
- BM = Small cabinet (Wall mounted, 1 way cassette)
- HM = Medium cabinet (wall mounted)
- KM = Large cabinet (Wall mounted, ceiling suspended)
- EM = 33" x 33"
- FM = 24" x 24"
- MS = Low Profile
- MA = Medium Static
- MH = High Static
- RE = Recessed
- CS = Console
- AM = Air Handler
- OA = All fresh type
- AF = DOAS w/o Reheat
- AR = DOAS with Reheat
- AU = Hydro HEX unit
- BU = Hydro HEX with booster

Digit #12 = **Voltage**
- 1 = 208-230v/1p/60hz

Digit #13 = **Refrigerant**
- 4 = R410a

Digit #14 = **Hold for Future**
- 0 = 1st Gen
- 1 = 2nd Gen
- 2 = 3rd Gen

Digit #15 = **Minor Design Sequence**
- A = Original model
- B = First revision
- C = 2nd Revision

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SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

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TRU COMPLIANCE

Manufacturer: Mitsubishi Electric Corporation
Model Line: P-Type, S-Type, and City Multi

TABLE 4

Certified Product Construction Summary:
Carbon steel casing

Certified Options Summary:
BC Controllers: Single, Main, and Small to Large Capacity.

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 2022 ***Seismic Certification Limits:*** S_{DS}= *2.00 g z/h=1.0* S_{DS}= *2.11 g z/h=0.0* I_P= *1.5*

Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
BC Controllers: Single BC	CMB-P105NU-G	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-HA	20.5	43.8	11.4	162		26
BC Controller: Small Capacity[1]	CMB-P104NU-J1	16	25	10	56		35
	CMB-P104	16	25	10	56	TCMBG0104	Interp
	CMB-P106	16	25	10	62	TCMBG0106	Interp
	CMB-P108	16	25	10	82	TCMBG0108	Interp
BC Controller: Medium Capacity[1]	CMB-P1012	21.5	35.9	10	131	TCMBG1012	Interp
	CMB-P108	21.5	35.9	10	82	TCMBM0108	Interp
BC Controller: Main Large Capacity[1]	CMB-P1012	22	45	10	131	TCMBM1012	Interp
	CMB-P1016	22	45	10	144.5	TCMBG1016	Interp
	CMB-P1016NU-KA1	22	45	10	144.5		36

Notes:
[1]Alternate model number for Trane branded product line. Unit is identical.

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Manufacturer:	Mitsubishi Electric Corporation	**TABLE 4**
Model Line:	P-Type, S-Type, and City Multi	

Product Nomenclature Details:

For Reference Only

Model Name (City Multi BC)

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Da

City Multi Branch Controller

T	C	M	B	M	0	1	0	8	H	A	1	1	N	4
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Digit #1 = **Brand Name**
- T = Trane

Digit #2,3,4 = **Model Family**
- CMB = Branch Controller

Digit #5 = **Unit Type**
- M = Main
- S = Sub
- G = Single

Digit #6,7, 8, 9 = **# of Branches**
- 0104 = 4 branches
- 0105 = 5 branches
- 0106 = 6 branches
- 0108 = 8 branches
- 1010 = 10 branches
- 1012 = 12 branches
- 1016 = 16 branches

Digit #10, 1 = **Unit Application**
- SJ1 = Single J1
- JA1 = JA1 Main
- KA1 = KA1 Main
- KB1 = KB1 Sub

Digit #13 = **Voltage**
- 1 = 208v/1p/60hz

Digit #14 = **Generation Code**
- K = 7th Generation
- L = 8th Generation
- N = 9th Generation

Digit #15 = **Refrigerant**
- 4 = R410a

Digit #16 = **Internal Service Digit**
- A = 1st revision
- B = 2nd Revision

Note: Digit 16 is an internal digit and is not shown on product

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SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

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TRU COMPLIANCE

Manufacturer: Mitsubishi Electric Corporation
Model Line: P-Type, S-Type, and City Multi

TABLE 5

Certified Product Construction Summary:
Plastic covers on carbon steel enclosures

Certified Options Summary:
PKFY and PKA: 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 2022 ***Seismic Certification Limits:*** S_{DS}= ***2.00 g z/h=1.0*** S_{DS}= ***2.11 g z/h=0.0*** I_P= ***1.5***

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Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
PKFY Indoor Wall Mounted[1]	PKFY-P04	8.9	32.1	11.6	22.0	TPKFYP004	Extrap.
	PKFY-P04NLMU-E	9.3	35.4	11.8	23.5		40
	PKFY-P06	8.9	32.1	11.6	22.0	TPKFYP006	Interp
	PKFY-P06NBMU-E	8.9	32.1	11.6	22.0		7
	PKFY-P08	9.8	35.4	11.6	29.0	TPKFYP008	Interp
	PKFY-P12	9.8	35.4	11.6	29.0	TPKFYP012	Interp
	PKFY-P15	9.8	35.4	11.6	29.0	TPKFYP015	Interp
	PKFY-P18	9.8	35.4	11.6	29.0	TPKFYP018	Interp
	PKFY-P18NLMU-E	9.3	35.4	11.8	28	TPKFYP018LM140A Tested	41
	PKFY-P24	11.6	46.1	14.4	46.0	TPKFYP024	Interp
	PKFY-P30	11.6	46.1	14.4	46.0	TPKFYP030	Interp
PKA[1,2,3] Indoor Wall Mounted	PKA-A12	9.8	35.4	11.6	29.0	TPKA0A012 APKA0A012	Interp
	PKA-A18	9.8	35.4	11.6	29.0	TPKA0A018 APKA0A018	Interp
	PKA-A24	11.6	46.1	14.4	46.0	TPKA0A024 APKA0A024	Interp
	PKA-A30	11.6	46.1	14.4	46.0	TPKA0A030 APKA0A030	Interp
	PKA-A36	11.6	46.1	14.4	46.0	TPKA0A036 APKA0A036	Interp
	PKA-A36KA	11.6	46.1	14.4	46.0		8

[1]Alternate model number for Trane branded product line. Unit is identical.
[2] Alternate model number for American Standard branded product line. Unit is identical.
[3]PKA is depopulated version of PKFY

SPECIAL SEISMIC CERTIFICATION CERTIFIED COMPONENT MATRIX

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Manufacturer:	Mitsubishi Electric Corporation	**TABLE 5**
Model Line:	P-Type, S-Type, and City Multi	

Product Nomenclature Details:

For Reference Only

P Series IDU														
T R	U	Z	A			0	1	2	1	L	A	8	0	A
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Brand Name	Configuration	Indoor Description	Indoor Description	Indoor Description	Indoor Description	Capacity (Btu/h)	Capacity (Btu/h)	Capacity (Btu/h)	Voltage	Chasis Generation	Controls	Generation Code	Futhure Use	Minor Design
TR = Trane	P: P Series	KA0A: Wall Mounted CA0A: Ceiling Suspended				012: 12,000 018: 18,000 024: 24,000			0:115V, 1ph	K: Previous Generation	A: A Control	7th Generation	0	A: 1st Gen
AS: American St		LA0A: Cassette VA0A: Vertical Ducted EADA: Horizontal Ducted				030: 30,000 036: 36,000 042: 42,000			1: 208/230V, 1ph	H: Current Generation		8th Generation	1	B: 2nd Gen

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Model Name (City Multi Indoor)

City Multi IDU

T	P	K	E	Y	P	0	2	4	B	M	1	4	0	A
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15

Digit #1 = **Brand Name**
- T = Trane

Digit #2 = **Model Family**
- P = Packaged AC

Digit #3 = **Application**
- K = Wall Mounted
- L = Ceiling Recessed 4-way
- M = Ceiling Recessed 1-way
- C = Ceiling Suspended
- E = Ceiling Concealed Ducted
- F = Floor Standing
- V = Multi-position Air Handler
- W = Hydronic Heat Exchanger

Digit #4,5,6 = **Unit Type**
- FYP = Indoor Unit

Digit #7,8,9 = **Capacity (Btu/h)**
- 006 = 6,000
- 008 = 8,000
- 012 = 12,000
- 015 = 15,000
- 018 = 18,000
- 024 = 24,000
- 027 = 27,000
- 030 = 30,000
- 036 = 36,000
- 048 = 48,000
- 054 = 54,000
- 072 = 72,000
- 096 = 96,000
- 120 = 1,200CFM

Digit #10,11 = **Configuration**
- BM = Small cabinet (Wall mounted, 1 way cassette)
- HM = Medium cabinet (wall mounted)
- KM = Large cabinet (Wall mounted, ceiling suspended)
- EM = 33" x 33"
- FM = 24" x 24"
- MS = Low Profile
- MA = Medium Static
- MH = High Static
- RE = Recessed
- CS = Console
- AM = Air Handler
- OA = All fresh type
- AF = DOAS w/o Reheat
- AR = DOAS with Reheat
- AU = Hydro HEX unit
- BU = Hydro HEX with booster

Digit #12 = **Voltage**
- 1 = 208-230v/1p/60hz

Digit #13 = **Refrigerant**
- 4 = R410a

Digit #14 = **Hold for Future**
- 0 = 1st Gen
- 1 = 2nd Gen
- 2 = 3rd Gen

Digit #15 = **Minor Design Sequence**
- A = Original model
- B = First revision
- C = 2nd Revision

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TRU COMPLIANCE

Manufacturer: Mitsubishi Electric Corporation
Model Line: P-Type, S-Type, and City Multi

TABLE 6

Certified Product Construction Summary:
Carbon steel enclosure

Certified Options Summary:

Mounting Configuration:
Wall mounted - isolated, rigid, or ceiling suspended
Note: Installed mounting configuration must be of similar configuration and equivalent strength and stiffness to those tested.

Building Code: CBC 2022 ***Seismic Certification Limits:*** S_{DS}= ***2.00 g z/h=1.0*** S_{DS}= ***2.11 g z/h=0.0*** I_P= ***1.5***

Model Line	Model	Dimensions (in)			Weight (lb)	Notes	UUT
		Depth	Width	Height			
LEV AHU Controller Box	PAC-AH001-1	4.7	12.8	19.5	11.5	Galvanized Steel Plate UUT11: Ceiling Suspended UUT13: Wall Mounted - Rigid UUT14: Wall Mounted - Isolated	11,13,14

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SPECIAL SEISMIC CERTIFICATION
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TRU COMPLIANCE

Manufacturer:	Mitsubishi Electric Corporation	***Table Description:*** Heat Exchangers - Base Mounted Units	**TABLE 7**
Model Line:	P-Type, S-Type, and City Multi		

Building Code: CBC 2022 ***Seismic Certification Limits:*** S_{DS} = 2.00 g z/h = 1.0; S_{DS} = 2.11 g z/h = 0.0 I_P = 1.5

Component Type	Manufacturer	Model	Description	Notes	UUT
Heat Exchanger (Outdoor PUZ)	Mitsubishi Electric	R01 H55 408	Copper and Aluminum		1
		R01 H50 408		Corrosion Resistant Variant	Interp
		T7W E84 408			Interp
		R01 H52 408			2
Heat Exchanger	Mitsubishi Electric	R01 H01 408	Copper and Aluminum	Outdoor PUZ & PUY Double Fan	Interp
		T7W E61 408			Interp
Heat Exchanger	Mitsubishi Electric	T7W E41 408	Copper and Aluminum	PUMY P36 to P60-Double Fan	6
		T7W E82 408			5
Heat Exchanger	Mitsubishi Electric	R01 R65 408	Copper and Aluminum	TUMY P036-P048 Double Fan	42
Heat Exchanger	Mitsubishi Electric	E27 68P 630	Copper and Aluminum	Upper Coil MXZ-SM72-120TAM	43
		E27 W54 493		Lower Coil MXZ-SM72-120TAM	43
Heat Exchanger	Alfa Laval Inc.	R61 987 480	Copper and Aluminum	PQRY & PQHY	29
		R61 990 480			Interp
		R61 A02 480			Interp
		R61 991 480			30
Heat Exchanger Assembly	Mitsubishi Electric	R61 929 480	Copper and Aluminum	Outdoor PURY and PUHY	31
		R61 930 480			Interp

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TRU COMPLIANCE

Manufacturer:	Mitsubishi Electric Corporation	***Table Description:*** Heat Exchangers - Base Mounted Units	**TABLE 7**
Model Line:	P-Type, S-Type, and City Multi		

Building Code: CBC 2022 ***Seismic Certification Limits:*** S_{DS} = 2.00 g z/h = 1.0; S_{DS} = 2.11 g z/h = 0.0 I_P = 1.5

Component Type	Manufacturer	Model	Description	Notes	UUT
Heat Exchanger Assembly	Mitsubishi Electric	R61 931 480	Copper and Aluminum	Outdoor PURY and PUHY	Interp
		R61 933 480			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

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TRU COMPLIANCE

Manufacturer:	Mitsubishi Electric Corporation	***Table Description:*** Heat Exchangers - Base Mounted Units	**TABLE 7**
Model Line:	P-Type, S-Type, and City Multi		

Building Code: CBC 2022 ***Seismic Certification Limits:*** S_{DS} = 2.00 g z/h = 1.0; S_{DS} = 2.11 g z/h = 0.0 I_P = 1.5

Component Type	Manufacturer	Model	Description	Notes	UUT
Heat Exchanger Assembly (Outdoor PURY and PUHY)	Mitsubishi Electric	KD00B585	Copper and Aluminum	Outdoor PURY and PUHY	Interp
		KD00B585			Interp
		KS00R904			Interp
		KS00R757			Interp
		KS00R758			Interp
		KD00B668			Interp
		KD00B669			Interp
		KD00B670			34
		R61 K06 480			38, 39
		R61 K07 480			38, 39
		R61 K08 480			38, 39
INV Heat Exchanger	Mitsubishi Electric	R61 928 780	Copper and Aluminum		29,30

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TRU COMPLIANCE

Manufacturer:	Mitsubishi Electric Corporation	***Table Description:*** Heat Exchangers - Ceiling Suspended Units	**TABLE 8**
Model Line:	P-Type, S-Type, and City Multi		

Building Code: CBC 2022 ***Seismic Certification Limits:*** S_{DS} = 2.00 g z/h = 1.0; S_{DS} = 2.11 g z/h = 0.0 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	Copper & Aluminum		20
		E17 403 620			Interp
		E17 405 620			Interp

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SPECIAL SEISMIC CERTIFICATION
CERTIFIED SUBCOMPONENT MATRIX

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TRU COMPLIANCE

Manufacturer:	Mitsubishi Electric Corporation	***Table Description:*** Heat Exchangers - Ceiling Suspended Units	**TABLE 8**
Model Line:	P-Type, S-Type, and City Multi		

Building Code: CBC 2022 ***Seismic Certification Limits:*** S_{DS} = 2.00 g z/h = 1.0; S_{DS} = 2.11 g z/h = 0.0 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 Corporation	***Table Description:*** Heat Exchangers - Ceiling Suspended Units	**TABLE 8**
Model Line:	P-Type, S-Type, and City Multi		

Building Code: CBC 2022 ***Seismic Certification Limits:*** S_{DS} = 2.00 g z/h = 1.0; S_{DS} = 2.11 g z/h = 0.0 I_P = 1.5

Component Type	Manufacturer	Model	Description	Notes	UUT
Heat Exchanger (PCA)	Mitsubishi Electric	E17 644 620	Copper & Aluminum		9
		E17 666 620			Interp
		E17 782 620			37

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TRU COMPLIANCE

Manufacturer:	Mitsubishi Electric Corporation	***Table Description:*** Heat Exchangers - Wall Mounted Units	**TABLE 9**
Model Line:	P-Type, S-Type, and City Multi		

Building Code: CBC 2022 ***Seismic Certification Limits:*** S_{DS} = 2.00 g z/h = 1.0; S_{DS} = 2.11 g z/h = 0.0 I_P = 1.5

Component Type	Manufacturer	Model	Description	Notes	UUT
Heat Exchanger Wall Mounted Units	Mitsubishi Electric	R05 Y05 480	Copper and Aluminum		7
		T7W K37 480			Interp
		T7W K38 480			Interp
		T7W N11 480			Interp
		E17 520 620			Interp
		E17 518 620			Interp
		E17 519 620			Interp
		E17 522 620			8
		E27 Y98 620			40
		E27 Y99 620			Interp
		E27 03A 620			41

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TRU COMPLIANCE

Manufacturer:	Mitsubishi Electric Corporation	***Table Description:*** Compressors - Base Mounted Units	**TABLE 10**
Model Line:	P-Type, S-Type, and City Multi		

Building Code: CBC 2022 ***Seismic Certification Limits:*** S_{DS} = 2.00 g z/h = 1.0; S_{DS} = 2.11 g z/h = 0.0 I_P = 1.5

Component Type	Manufacturer	Model	Description	Notes	UUT
Compressor (PUZ, PUMY, PUY, MXZ)	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	Interp
		T92 508 801		Single Fan	Interp
		T97 415 790			Interp
		T92 415 767			Interp
		T97 415 779		Double Fan	6
		T97 415 789		Double Fan	5
		E27 68P 900			43
	Mitsubishi Electric	T97 443 077	Carbon Steel		42
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

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TRU COMPLIANCE

Manufacturer:	Mitsubishi Electric Corporation	***Table Description:*** Compressors - Base Mounted Units	**TABLE 10**
Model Line:	P-Type, S-Type, and City Multi		

Building Code: CBC 2022 ***Seismic Certification Limits:*** S_{DS} = 2.00 g z/h = 1.0; S_{DS} = 2.11 g z/h = 0.0; I_P = 1.5

Component Type	Manufacturer	Model	Description	Notes	UUT
Scroll Compressor (PUHY/PURY)	Mitsubishi Electric	HNK68FB-UT	Carbon Steel		Interp
		HNK68FA-YE			Interp
		HNK68FA-YET			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 200 478	Carbon Steel		38, 39
		R69 130 478			29
		R69 103 478			Interp
		R69 125 478			Interp
		R69 118 478			Interp
		R69 135 478			Interp

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TRU COMPLIANCE

Manufacturer:	Mitsubishi Electric Corporation	***Table Description:*** Compressors - Base Mounted Units	**TABLE 10**
Model Line:	P-Type, S-Type, and City Multi		

Building Code: CBC 2022 ***Seismic Certification Limits:*** S_{DS} = 2.00 g z/h = 1.0; S_{DS} = 2.11 g z/h = 0.0 I_P = 1.5

Component Type	Manufacturer	Model	Description	Notes	UUT
Scroll Compressor (PQRY and PQHY)	Mitsubishi Electric	R69 133 478	Carbon Steel		30

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TRU COMPLIANCE

Manufacturer:	Mitsubishi Electric Corporation	***Table Description:*** Condensate Pump - Ceiling Suspended Unit	**TABLE 11**
Model Line:	P-Type, S-Type, and City Multi		

Building Code: CBC 2022 ***Seismic Certification Limits:*** S_{DS} = 2.00 g z/h = 1.0; S_{DS} = 2.11 g z/h = 0.0 I_P = 1.5

Component Type	Manufacturer	Model	Description	Notes	UUT
Condensate Pump (PMFY)	Saginomiya	T7W E11 355	ABS Plastic		15,16
Condensate Pump (PLFY/PLA)	Fujikoki Corporation	T7W E14 355	ABS Plastic	PLFY/PLA	17,19
		R01 E19 355			18
		E17 C12 355			12

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TRU COMPLIANCE

Manufacturer:	Mitsubishi Electric Corporation	***Table Description:*** Fan and Fan Motors Base Mounted Units	**TABLE 12**
Model Line:	P-Type, S-Type, and City Multi		

Building Code: CBC 2022 ***Seismic Certification Limits:*** S_{DS} = 2.00 g z/h = 1.0; S_{DS} = 2.11 g z/h = 0.0 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	Interp
		T7W E27 763		Single Fan	Interp
		T7W E27 763		Double fan	Interp
		R01 E57 221		Top and Bottom Fan Motor	6
	Nidec Shibaura Corp	T7W A10 221	Carbon Steel	Top and Bottom Fan Motor	42
		E27 68P 301		Top Fan Motor	43
	Panasonic	E27 69P 301	Carbon Steel	Bottom Fan Moro	43
Fan Motor (PUHY &PURY)	Nidec TECNO Motor	R61 267 220	Carbon Steel		31
		R61 268 220			32
		R61 349 220			39
		R61 378 220			33, 38
		R61 351 220			Interp
		R61 379 220			Interp
		R61 353 220			39
		R61 380 220			33, 38
		E27 R13 301			34
		E27 J44 301			Interp
		E27 R14 301			Interp

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TRU COMPLIANCE

Manufacturer:	Mitsubishi Electric Corporation	***Table Description:*** Fan and Fan Motors Base Mounted Units	**TABLE 12**
Model Line:	P-Type, S-Type, and City Multi		

Building Code: CBC 2022 ***Seismic Certification Limits:*** S_{DS} = 2.00 g z/h = 1.0; S_{DS} = 2.11 g z/h = 0.0 I_P = 1.5

Component Type	Manufacturer	Model	Description	Notes	UUT
Fan Motor (PUHY &PURY)	Nidec TECNO Motor	E27 J47 301	Carbon Steel		Interp
		E27 J50 301			Interp
		E27 R17 301			34

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TRU COMPLIANCE

Manufacturer:	Mitsubishi Electric Corporation	***Table Description:*** Fans & Fan Motors Ceiling Suspended Units	**TABLE 13**
Model Line:	P-Type, S-Type, and City Multi		

Building Code: CBC 2022 ***Seismic Certification Limits:*** S_{DS} = 2.00 g z/h = 1.0; S_{DS} = 2.11 g z/h = 0.0; 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 Corporation	***Table Description:*** Fans & Fan Motors Ceiling Suspended Units	**TABLE 13**
Model Line:	P-Type, S-Type, and City Multi		

Building Code: CBC 2022 ***Seismic Certification Limits:*** S_{DS} = 2.00 g z/h = 1.0; S_{DS} = 2.11 g z/h = 0.0 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 Acrylonitrite		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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TRU COMPLIANCE

Manufacturer:	Mitsubishi Electric Corporation	***Table Description:*** Fans & Fan Motors - Wall Mounted Units	**TABLE 14**
Model Line:	P-Type, S-Type, and City Multi		

Building Code: CBC 2022 ***Seismic Certification Limits:*** S_{DS} = 2.00 g z/h = 1.0; S_{DS} = 2.11 g z/h = 0.0 I_P = 1.5

Component Type	Manufacturer	Model	Description	Notes	UUT
Fan Motor	Nidec Shibaura Corporation	T7W E41 762	Carbon Steel		7
		R01 E51 220			Interp
		E12 C92 300			8
Line-Flow Fan	Toray Industries	R01 23A 114	Styrene Acrylonitrite		7
		R01 E42 114			Interp
		E12 R79 302			8
		E12 C92 302			8
Vane Motor	Nidec Techno Motor Coporation	E27 103 303	Carbon Steel		40, 41
		E22 Y54 303			40, 41
Fan Motor		E27 P63 300			40, 41

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TRU COMPLIANCE

Manufacturer:	Mitsubishi Electric Corporation	***Table Description:*** Electronics - Base Mounted Units	**TABLE 15**
Model Line:	P-Type, S-Type, and City Multi		

Building Code: CBC 2022 ***Seismic Certification Limits:*** S_{DS} = 2.00 g z/h = 1.0; S_{DS} = 2.11 g z/h = 0.0 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
	Mitsubishi Electric Corp.	R01 E07 311	Hard Plastic		42
Power Circuit Board	Shin-Asahi Electric	T7W B40 323	Hard Plastic		Extrap
		T7W B50 323			2
		R01 E65 313			6
		T7W AY0 323			5
Power Board	Mitsubishi Electric Corp.	T7W M01 323	Hard Plastic		42
		E27 68P 440			43
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

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TRU COMPLIANCE

Manufacturer:	Mitsubishi Electric Corporation	***Table Description:*** Electronics - Base Mounted Units	**TABLE 15**
Model Line:	P-Type, S-Type, and City Multi		

Building Code: CBC 2022 ***Seismic Certification Limits:*** S_{DS} = 2.00 g z/h = 1.0; S_{DS} = 2.11 g z/h = 0.0 I_P = 1.5

Component Type	Manufacturer	Model	Description	Notes	UUT
Control Board (PUZ,PUMY,PUY,MXZ)	Shin-Asahi Electric	T7W F23 315	94V-0 Plastic	Double Fan	5
	Mitsubishi Electric Corp.	R01 M03 350	94V-0 Plastic		42
		E27 68P 450			43
Control Board (PQRY&PQHY)	Shin-Asahi Electric	R61 358 280	94V-0 Plastic		29
		R61 371 280			Interp
		R61 339 280			Interp
		R61 340 280			30
Control Board (PURY&PUHY)	Mitsubishi Electric Corp.	R61 587 280	94V-0 Plastic		38
		R61 660 280			39
Reactor	Tamura Corp.	T7W E28 259	Copper		1
		T7W E27 259			Interp
		T7W E30 259			2
		T7W E23 259			5
		E27 68P 337			43
Terminal Block	Hoppy	T7W E70 716	Hard Plastic		1
		T7W E67 716			2
		T7W 603 246			5
		R01 E27 246			5
		E27 68P 374			43
Inverter Board (PUZ, PUMY, PUY)	Shin-Asahi Electric	R01 E72 313	94V-0 Plastic		6
		R01 E72 313			5

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Manufacturer:	Mitsubishi Electric Corporation	***Table Description:*** Electronics - Base Mounted Units	**TABLE 15**
Model Line:	P-Type, S-Type, and City Multi		

Building Code: CBC 2022 ***Seismic Certification Limits:*** S_{DS} = 2.00 g z/h = 1.0; S_{DS} = 2.11 g z/h = 0.0 I_P = 1.5

Component Type	Manufacturer	Model	Description	Notes	UUT
Inverter Board (PUZ, PUMY, PUY, MXZ)	Mitsubishi Electric Corp.	E27 68P 456	94V-0 Plastic		43
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
Inverter Board (PURY&PUHY)	Mitsubishi Electric Corp.	R61 601 280	Hard Plastic		38, 39
PC Board Matl. (PUHY&PURY)	Shin-Asahi Electric	R61 342 280	94V-0 Plastic		31
		R61 347 280			Interp
		R61 352 280			Interp
		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			Interp
		E27 R74 081			Interp
		E27 R34 081			Interp

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Manufacturer:	Mitsubishi Electric Corporation	***Table Description:*** Electronics - Base Mounted Units	**TABLE 15**
Model Line:	P-Type, S-Type, and City Multi		

Building Code: CBC 2022 ***Seismic Certification Limits:*** S_{DS} = 2.00 g z/h = 1.0; S_{DS} = 2.11 g z/h = 0.0 I_P = 1.5

Component Type	Manufacturer	Model	Description	Notes	UUT
PC Board Matl. (PUHY&PURY)	Shin-Asahi Electric	E27 R35 081	94V-0 Plastic		Interp
		E27 R36 081			Interp
		E27 R37 081			Interp
		E27 R38 081			34

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Manufacturer:	Mitsubishi Electric Corporation	***Table Description:*** Electronics - Ceiling Suspended Units	**TABLE 16**
Model Line:	P-Type, S-Type, and City Multi		

Building Code: CBC 2022 ***Seismic Certification Limits:*** S_{DS} = 2.00 g z/h = 1.0; S_{DS} = 2.11 g z/h = 0.0 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 CO3 310			17
		T7W C19 310			19
Control Board (PLFY)	Seiryo-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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TRU COMPLIANCE

Manufacturer:	Mitsubishi Electric Corporation	***Table Description:*** Electronics - Ceiling Suspended Units	**TABLE 16**
Model Line:	P-Type, S-Type, and City Multi		

Building Code: CBC 2022 ***Seismic Certification Limits:*** S_{DS} = 2.00 g z/h = 1.0; S_{DS} = 2.11 g z/h = 0.0 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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TRU COMPLIANCE

Manufacturer:	Mitsubishi Electric Corporation	***Table Description:*** Electronics - Wall Mounted Units	**TABLE 17**
Model Line:	P-Type, S-Type, and City Multi		

Building Code: CBC 2022 ***Seismic Certification Limits:*** S_{DS} = 2.00 g z/h = 1.0; S_{DS} = 2.11 g z/h = 0.0 I_P = 1.5

Component Type	Manufacturer	Model	Description	Notes	UUT
PC Power Board (PKFY)	Shin-Asahi Electric	T7W E37 313	94V-0 Plastic		8
PC Power Board (PAC)	Shin-Asahi Electric	U41 001 281	94V-0 Plastic		13,14
Control Board (PKFY)	Shin-Asahi Electric	E17 D91 447			7
		E17 H30 447			Interp
		T7W C01 310	94V-0 Plastic		Interp
		T7W S03 310			Interp
		T7W E84 310			8
Control Board (PAC)	Shin-Asahi Electric	U71 001 280	94V-0 Plastic		13,14
Indoor Controller Board	Mitsubishi Electric Corp	E27 Y99 447	94V-0 Plastic		40, 41
M-Net Terminal Block (PAC)	Shin-Asahi Electric	U41 002 246	94V-0 Plastic		13,14
Terminal Block (PAC)	Shin-Asahi Electric	U41 002 246	94V-0 Plastic		13,14
Relay (PAC)	Shin-Asahi Electric	U71 001 225	94V-0 Plastic		13,14

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TRU COMPLIANCE

Manufacturer:	Mitsubishi Electric Corporation	***Table Description:*** Valves - Base Mounted Units	**TABLE 18**
Model Line:	P-Type, S-Type, and City Multi		

Building Code: CBC 2022 ***Seismic Certification Limits:*** S_{DS} = 2.00 g z/h = 1.0; S_{DS} = 2.11 g z/h = 0.0 I_P = 1.5

Component Type	Manufacturer	Model	Description	Notes	UUT
Solenoid Coil (4-way Valve)	Saginomiya Seisakusho, Inc	T7W E97 242	Brass		1
		T7W E92 242			Interp.
		T7W E98 242			2
		T7W E90 242			5
		E27 69P 490			43
		E27 70P 490			43
Coil	Fujikoki	R01 H58 242	Brass		42
Outdoor Coil	Mitsubishi Electric Corp.	E27 68P 630	Brass	Upper Coil	43
		E27 69P 630		Lower Coil	43
4-way valve	Saginomiya Seisakusho, Inc	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 XXX 403			Interp.
		R61 021 403			33
		R61 022 403			33
		R61 XXX 403			Interp.
		R61 032 403			38
		R61 033 403			39

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TRU COMPLIANCE

Manufacturer:	Mitsubishi Electric Corporation	***Table Description:*** Valves - Base Mounted Units	**TABLE 18**
Model Line:	P-Type, S-Type, and City Multi		

Building Code: CBC 2022 ***Seismic Certification Limits:*** S_{DS} = 2.00 g z/h = 1.0; S_{DS} = 2.11 g z/h = 0.0 I_P = 1.5

Component Type	Manufacturer	Model	Description	Notes	UUT
4-way valve	Saginomiya Seisakusho, Inc	E27 R13 961	Brass		Interp.
		E27 R14 961			Interp.
		E27 R15 961			Interp.
		E27 R22 961			Interp.
		E27 R23 961			34
		E27 R27 961			34
		E27 W53 493			43
	Fujikoki	E27 W54 493			43
Reversing Valve (PUZ, PUMY, PUZ)	Fujikoki	R01 E36 403	Brass		6
	Saginomiya Seisakusho, Inc	E27 68P 490			43
Reversing Valve (PUHY&PURY)	Saginomiya	R61 013 403	Brass		31, 32

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TRU COMPLIANCE

Manufacturer:	Mitsubishi Electric Corporation	***Table Description:*** Valves Ceiling Suspended Units	**TABLE 19**
Model Line:	P-Type, S-Type, and City Multi		

Building Code: CBC 2022 ***Seismic Certification Limits:*** S_{DS} = 2.00 g z/h = 1.0; S_{DS} = 2.11 g z/h = 0.0 I_P = 1.5

Component Type	Manufacturer	Model	Description	Notes	UUT
Linear Expansion Valve (CMB &CMP)	Mitsubishi Electric	R61 008 401	Brass		26
		R63 R23 401			25
		R61 107 401			35,36
Linear Expansion Valve (PLFY)	Mitsubishi Electric	E17 C20 640	Brass		12
Solenoid Valve Coil (CMB&CMP)	Fujikoki Corp.	R61 2A1 243	Copper		25,26
Solenoid Valve (CMB&CMP)	Fujikoki Corp.	R63 4F3 232	Brass		25,26
		R63 Y07 232			25,26

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TRU COMPLIANCE

Manufacturer:	Mitsubishi Electric Corporation	***Table Description:*** Valves - Wall Units	**TABLE 20**
Model Line:	P-Type, S-Type, and City Multi		

Building Code: CBC 2022 ***Seismic Certification Limits:*** S_{DS} = 2.00 g z/h = 1.0; S_{DS} = 2.11 g z/h = 0.0 I_P = 1.5

Component Type	Manufacturer	Model	Description	Notes	UUT
Linear Expansion Valve	Mitsubitshi Electric	E27 P63 640	Brass		40
		E27 P64 640			41

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TRU COMPLIANCE

Manufacturer:	Mitsubishi Electric Corporation	***Table Description:*** Accumulator - Base Mounted Units	**TABLE 21**
Model Line:	P-Type, S-Type, and City Multi		

Building Code: CBC 2022 ***Seismic Certification Limits:*** S_{DS} = 2.00 g z/h = 1.0; S_{DS} = 2.11 g z/h = 0.0 I_P = 1.5

Component Type	Manufacturer	Model	Description	Notes	UUT
Accumulator (PUZ, PUMY)		R01 E58 440	Carbon Steel		Extrap
		R01 E60 440			Extrap
		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
Accumulator Assy. (PUHY, PURY)	Meiwa Co. Ltd.	R61 194 484	Carbon Steel		39
		R61 196 484			38

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TRU COMPLIANCE

UUT 1

Manufacturer:	*Mitsubishi Electric Corporation*
Model Line:	*P-Type, S-Type, and City Multi*
Model Number:	*PUZ-A12NKA7*
Serial Number:	*75U01748C*
Test Report:	*1700802-TR-001, Rev.01*

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	>33.33

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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.67	0.67
		2.50	0.0					

Product Construction Summary:

Carbon steel housing

Options/Subcomponent Summary:

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

Test Mounting Details:

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.

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TRU COMPLIANCE

Manufacturer:	*Mitsubishi Electric Corporation*	**UUT 2**
Model Line:	*P-Type, S-Type, and City Multi*	
Model Number:	*PUZ-A36NKA7*	
Serial Number:	*63U01108B*	***Test Report:*** *1700802-TR-001, Rev.01*

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
258	13.0	37.4	53.2	5.82	5.72	>33.33

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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.67	0.67
		2.50	0.0					

Carbon steel housing

Test Mounting Details:

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.

Options/Subcomponent Summary:

Description	***Part Number***
Fan Motor	*T7W A05 221*
Fan Motor	*T7W A08 221*
Compressor	*T97 427 677*
Power Receiver	*R01 E60 440*
4-way Valve	*T7W E05 403*
Solenoid Coil	*7W E98 242*
Heat Exchanger	*R01 H52 408*
Reactor	*T7W E30 259*
Control Board	*T7W E30 259*
Terminal Block	*T7W E67 716*
Power Circuit Board	*T7W B50 323*

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TRU COMPLIANCE

UUT 3

Manufacturer:	*Mitsubishi Electric Corporation*		
Model Line:	*P-Type, S-Type, and City Multi*		
Model Number:	*PEAD-A12AA7*		
Serial Number:	*76R00303*	***Test Report:***	*1700802-TR-001, Rev.01*

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
58	29.0	39.4	9.0	N/A	N/A	N/A

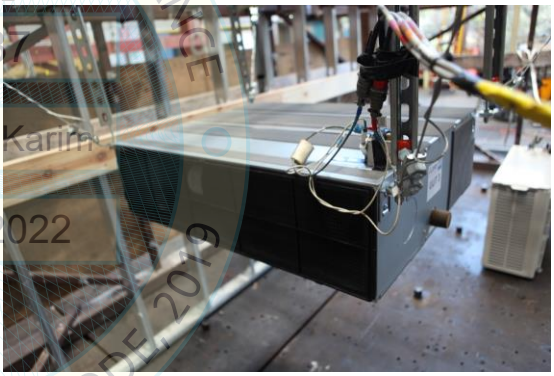
UUT Highest Passed Seismic Run Information

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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.67	0.67
		2.50	0.0					

Product Construction Summary:

Carbon steel housing

Test Mounting Details:



Options/Subcomponent Summary:

Description	***Part Number***
Fan Motor	*U41 002 220*
Fan Assembly	*U41 002 114*
Heat Exchanger	*U41 020 480*
Reactor	*U41 001 259*
Terminal Block	*U41 003 246*
Terminal Block Assembly	*U41 004 246*
PC Board	*U41 005 280*
	U41 025 280

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.

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TRU COMPLIANCE

UUT 4

Manufacturer:	*Mitsubishi Electric Corporation*
Model Line:	*P-Type, S-Type, and City Multi*
Model Number:	*PEAD-A42AA7*
Serial Number:	*75R00189*
Test Report:	*1700802-TR-001, Rev.01*

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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.67	0.67
		2.50	0.0					

Product Construction Summary:

Carbon steel housing

Options/Subcomponent Summary:

Description	***Part Number***
Fan Motor	*U41 004 220*
Fan Assembly	*U41 001 114*
Heat Exchanger	*U41 024 480*
Reactor	*U41 002 259*
Terminal Block	*U41 003 246*
Terminal Block Assembly	*U41 004 246*
PC Board	*U41 006 280*
	U41 025 280

Test Mounting Details:

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.

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TRU COMPLIANCE

Manufacturer:	*Mitsubishi Electric Corporation*	**UUT 5**
Model Line:	*P-Type, S-Type, and City Multi*	
Model Number:	*PUMY-P60NKMU1*	
Serial Number:	*63U01949B*	***Test Report:*** *1700802-TR-001, Rev.01*

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
306	13.0	37.4	53.2	7.3	4.2	>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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.67	0.67
		2.50	0.0					

Product Construction Summary:

Carbon steel housing

Options/Subcomponent Summary:

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

Test Mounting Details:

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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TRU COMPLIANCE

UUT 6

Manufacturer:	*Mitsubishi Electric Corporation*
Model Line:	*P-Type, S-Type, and City Multi*
Model Number:	*PUMY-P48NHMU*
Serial Number:	*N/A*
Test Report:	*Q0028.00 (UUT-5)*

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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.58	0.63
		2.37	0.0					

Product Construction Summary:

Carbon steel housing

Options/Subcomponent Summary:

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

Test Mounting Details:

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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TRU COMPLIANCE

UUT 7

Manufacturer:	*Mitsubishi Electric Corporation*		
Model Line:	*P-Type, S-Type, and City Multi*		
Model Number:	*PKFY-P06NBMU-E*		
Serial Number:	*N/A*	***Test Report:***	*Q0028.00 (UUT-14)*

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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.67	0.67
		2.5	0.0					

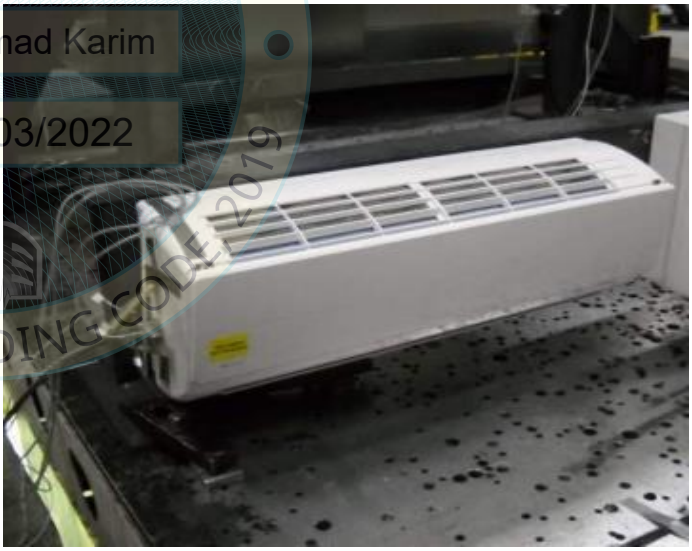
Product Construction Summary:

Plastic enclosure

Options/Subcomponent Summary:

Description	***Part Number***
Heat Exchanger	*R05 Y05 480*
Fan Motor	*T7W E41 762*
Line-Flow Fan	*R01 23A 114*
Power PC Board	*T7W W37 313*
Control PC Board	*T7W E84 310*

Test Mounting Details:



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 after shake table test. Contents were included in testing per operating conditions.

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TRU COMPLIANCE

UUT 8

Manufacturer:	*Mitsubishi Electric Corporation*		
Model Line:	*P-Type, S-Type, and City Multi*		
Model Number:	*PKA-A36KA*		
Serial Number:	*N/A*	***Test Report:***	*Q0028.00 (UUT-13)*

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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.67	0.67
		2.5	0.0					

Product Construction Summary:

Plastic enclosure

Options/Subcomponent Summary:

Description	***Part Number***
Heat Exchanger	*E17 522 620*
Fan Motor	*E12 C92 300*
Line-Flow Fan	*E12 R79 302*
	E12 C92 302
Control PC Board	*E17 D91 447*

Test Mounting Details:

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 after shake table test. Contents were included in testing per operating conditions.

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TRU COMPLIANCE

UUT 9

Manufacturer:	*Mitsubishi Electric Corporation*
Model Line:	*P-Type, S-Type, and City Multi*
Model Number:	*PCA-A24KA7*
Serial Number:	*N/A*
Test Report:	*15152, Rev.0 (UUT 4)*

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
71	27.0	47.5	9.0	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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.67	0.67
		2.50	0.0					

Product Construction Summary:

Carbon steel and plastic enclosure

Options/Subcomponent Summary:

Description	***Part Number***
Sirocco Fan	*E17 648 500*
Fan Case	*E17 648 237*
Fan Motor	*E17 648 300*
Heat Exchanger	*E17 664 620*
Controller Board	*E17 D87 447*
Terminal Block	*E17 516 375*
	E17 162 375

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, (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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BY: Mohammad Karim
DATE: 11/03/2022
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UNIT UNDER TEST (UUT) SUMMARY SHEET

2000559-CR-001-R2

TRU COMPLIANCE

Manufacturer:	*Mitsubishi Electric Corporation*	**UUT 11**
Model Line:	*P-Type, S-Type, and City Multi*	
Model Number:	*MVZ-A36AA7 and PAC-AH001-1*	
Serial Number:	*91G0034*	***Test Report:*** *15152, Rev.0 (UUT 3)*

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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.67	0.67
		2.50	0.0					

Product Construction Summary:

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

Options/Subcomponent Summary:

Description	***Part Number***
MVZ Unit	
Fan Motor	*U41 004 128*
Fan Case	*U41 009 129*
Heat Exchangers	*U41 016 480*
Thermistor	*U41 004 200*
PAC Unit	
Control Board	*U71 001 280*
Relay	*U71 001 225*
Terminal Block	*U41 002 246*
M-Net Terminal Block	*U41 002 246*

Test Mounting Details:

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.

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UNIT UNDER TEST (UUT) SUMMARY SHEET

2000559-CR-001-R2

UUT 12

Manufacturer:	*Mitsubishi Electric Corporation*		
Model Line:	*P-Type, S-Type, and City Multi*		
Model Number:	*PLFY-P12NFMU-E*		
Serial Number:	*N/A*	***Test Report:***	*15152, Rev.0 (UUT 6)*

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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.67	0.67
		2.50	0.0					

Product Construction Summary:

Galvanized steel construction

Options/Subcomponent Summary:

Description	***Part Number***
Heat Exchanger	*E17 C23 620*
Fan Motor	*E17 K05 300*
Turbo Fan	*E17 C12 502*
Linear Expansion Valve	*E17 C20 640*
Condensate Pump	*E17 C12 355*
Controller Board	*E17 K05 447*
Terminal Block	*E17 154 375*
Terminal Block	*E17 156 375*
Terminal Block	*E17 K05 375*
Decorative Panel	

Test Mounting Details:

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.

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UNIT UNDER TEST (UUT) SUMMARY SHEET

2000559-CR-001-R2

TRU COMPLIANCE

UUT 13

Manufacturer:	*Mitsubishi Electric Corporation*
Model Line:	*P-Type, S-Type, and City Multi*
Model Number:	*PAC-AH001-1*
Serial Number:	*91G00324*
Test Report:	*15152, Rev.0 (UUT 1)*

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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.67	0.67
		2.50	0.0					

Product Construction Summary:

Sheet metal enclosure

Options/Subcomponent Summary:

Description	***Part Number***
Contol Board	*U71 001 280*
Relay	*U71 001 225*
Terminal Block	*U41 002 246*
M-Net Terminal	*U41 002 246*

Test Mounting Details:

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

2000559-CR-001-R2

TRU COMPLIANCE

Manufacturer:	*Mitsubishi Electric Corporation*	**UUT 14**
Model Line:	*P-Type, S-Type, and City Multi*	
Model Number:	*PAC-AH001-1*	
Serial Number:	*91G00324*	***Test Report:*** *15152, Rev.0 (UUT 2)*

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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.67	0.67
		2.50	0.0					

Product Construction Summary:

Sheet metal enclosure

Options/Subcomponent Summary:

Description	***Part Number***
Control Board	*U71 001 280*
Relay	*U71 001 225*
Terminal Block	*U41 002 246*
M-Net Terminal Block	*U41 002 246*

Test Mounting Details:

Wall mounted - isolated: Using (4) 1/4" lags bolts. The aluminum plate was secured to four (4) Mason SLR-A-310 isolators.
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

2000559-CR-001-R2

TRU COMPLIANCE

UUT 15

Manufacturer:	*Mitsubishi Electric Corporation*
Model Line:	*P-Type, S-Type, and City Multi*
Model Number:	*PMFY-P06NBMU-E*
Serial Number:	*N/A*
Test Report:	*Q1619.0*

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 2022	ICC-ES AC156	2.90	1.0	1.5	4.64	3.48	2.10	0.84
		3.15	0.0					

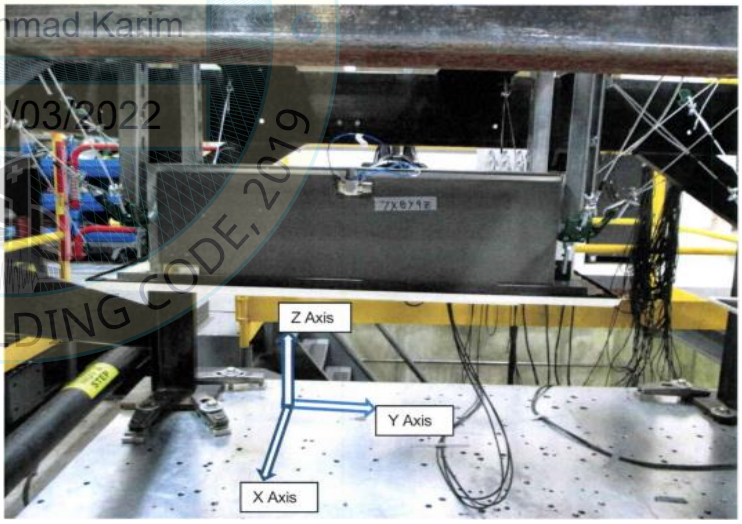
Product Construction Summary:

Galvanized steel

Options/Subcomponent Summary:

Description	***Part Number***
Heat Exchanger	*TZW H08 480*
Line Flow Fan	*R01 E32 14*
Fan Motor	*R01 E49 220*
Condendate Pump	*T7W E11 355*
Control Board	*T7W C04 310*
Intake Grille	*T7W E06 691*

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 after shake table test. Contents were included in testing per operating conditions.

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UNIT UNDER TEST (UUT) SUMMARY SHEET

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TRU COMPLIANCE

UUT 16

Manufacturer:	*Mitsubishi Electric Corporation*
Model Line:	*P-Type, S-Type, and City Multi*
Model Number:	*PMFY-P15NBMU-E*
Serial Number:	*N/A*
Test Report:	*Q1619.0*

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 2022	ICC-ES AC156	2.90	1.0	1.5	4.64	3.48	2.10	0.84
		3.15	0.0					

Product Construction Summary:

Galvanized steel

Options/Subcomponent Summary:

Description	***Part Number***
Grill	*PMP-16BMUW*
Heat Exchanger	*T7W H09 480*
Line Flow Fan	*R01 E32 114*
Fan Motor	*R01 E49 220*
Condensate Pump	*TW7 E11 355*
Control Board	*T7W C04 310*
Intake Grill	*T7W E06 691*

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 after shake table test. Contents were included in testing per operating conditions.

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UNIT UNDER TEST (UUT) SUMMARY SHEET

2000559-CR-001-R2

TRU COMPLIANCE

UUT 17

Manufacturer:	*Mitsubishi Electric Corporation*		
Model Line:	*P-Type, S-Type, and City Multi*		
Model Number:	*PLFY-P12NBMU-E*		
Serial Number:	*N/A*	***Test Report:***	*Q0028.00 (UUT-7)*

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

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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.58	0.63
		2.37	0.0					

Product Construction Summary:

Galvanized steel

Options/Subcomponent Summary:

Description	***Part Number***
Heat Exchanger	*R01 N00 480*
Fan Motor	*R01 E59 220*
Turbo Fan	*R01 E39 114*
Control Board	*T7W C03 310*
Condendate Pume	*T7W E14 355*

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.

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UNIT UNDER TEST (UUT) SUMMARY SHEET

2000559-CR-001-R2

TRU COMPLIANCE

UUT 18

Manufacturer:	*Mitsubishi Electric Corporation*		
Model Line:	*P-Type, S-Type, and City Multi*		
Model Number:	*PLFY-P48NEMU-E*		
Serial Number:	*N/A*	***Test Report:***	*Q1653.00 (UUT-26)*

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 2022	ICC-ES AC156	3.00	1.0	1.5	4.80	3.60	2.19	0.88
		3.28	0.0					

Product Construction Summary:

Galvanized steel

Options/Subcomponent Summary:

Description	***Part Number***
Heat Exchanger	*R01 L55 480*
Turbo Fan	*R01 E46 114*
Fan Motor	*T7W L02 220*
Control Board	*T7W M00 310*
Condensate Pump	*R01 E19 355*

Test Mounting Details:

UUT ceiling suspeneded with fou (4) 3/8" ø rods with stiffeners. Each corner had two (2) 1/8" ø cable braces (8 total).
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

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TRU COMPLIANCE

UUT 19

Manufacturer:	*Mitsubishi Electric Corporation*		
Model Line:	*P-Type, S-Type, and City Multi*		
Model Number:	*PLA-A42BA*		
Serial Number:	*N/A*	***Test Report:***	*Q0028.00 (UUT-10)*

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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.74	0.70
		2.61	0.0					

Product Construction Summary:

Galvanized steel

Options/Subcomponent Summary:

Description	***Part Number***
Heat Exchanger	*R01 AE3 480*
Fan Motor	*R01 E66 220*
Turbo Fan	*R01 E34 114*
Control Board	*T7W C19 310*
Condensate Pump	*T7W E14 355*

Test Mounting Details:

UUT ceiling suspeneded with fou (4) 3/8" ø rods with stiffeners. Each corner had two (2) 1/8" ø cable braces (8 total).
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

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TRU COMPLIANCE

UUT 20

Manufacturer:	*Mitsubishi Electric Corporation*		
Model Line:	*P-Type, S-Type, and City Multi*		
Model Number:	*PEFY-P06NMSU-E*		
Serial Number:	*N/A*	***Test Report:***	*Q0028.00 (UUT-6)*

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

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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.58	0.63
		2.37	0.0					

Product Construction Summary:

Galvanized steel

Options/Subcomponent Summary:

Description	***Part Number***
Heat Exchanger	*E17 402 620*
Fan Motor	*E17 319 300*
PCA Control	*E17 472 447*

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.

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UNIT UNDER TEST (UUT) SUMMARY SHEET

2000559-CR-001-R2

TRU COMPLIANCE

Manufacturer:	*Mitsubishi Electric Corporation*	**UUT 21**
Model Line:	*P-Type, S-Type, and City Multi*	
Model Number:	*PEFY-P96NMHU-E*	
Serial Number:	*N/A*	***Test Report:*** *Q0028.00 (UUT-1)*

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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.58	0.63
		2.37	0.0					

Product Construction Summary:

Galvanized steel

Options/Subcomponent Summary:

Description	***Part Number***
Heat Exchanger	*R61 Y38 483*
Fan Motor	*R61 Y47 221*
PCA Control	*R61 181 280*

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.

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UNIT UNDER TEST (UUT) SUMMARY SHEET

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TRU COMPLIANCE

UUT 22

Manufacturer:	*Mitsubishi Electric Corporation*		
Model Line:	*P-Type, S-Type, and City Multi*		
Model Number:	*PEFY-AF1200CFMR*		
Serial Number:	*N/A*	***Test Report:***	*Q0028.00 (UUT-3)*

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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.41	0.56
		2.11	0.0					

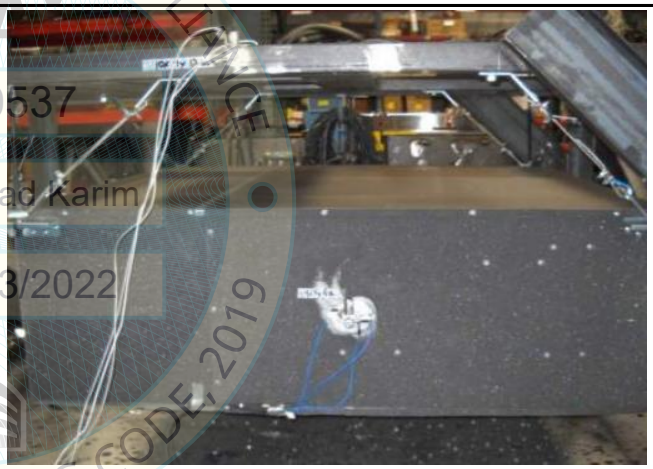
Product Construction Summary:

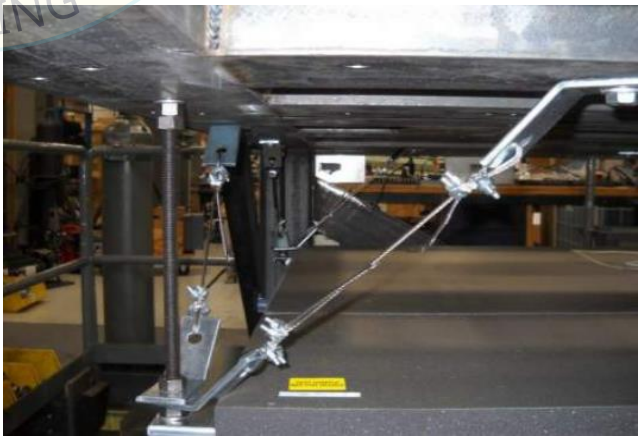
Galvanized steel

Options/Subcomponent Summary:

Description	***Part Number***
Heat Exchanger	*R61 326 480*
Heat Exchanger Re-Heat	*R61 327 480*
Fan Motor	*R61 205 220*
Line Flow Fan	*R61 022 114*
Line Flow Fan	*R61 023 114*
PCA Board	*61 026 280*

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.

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UNIT UNDER TEST (UUT) SUMMARY SHEET

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TRU COMPLIANCE

Manufacturer:	*Mitsubishi Electric Corporation*	**UUT 23**
Model Line:	*P-Type, S-Type, and City Multi*	
Model Number:	*PVFY-P12AMU-E*	
Serial Number:	*N/A*	***Test Report:*** *Q1619.0 (UUT-19)*

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
117	50.3	17.0	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 2022	ICC-ES AC156	2.85	1.0	1.5	4.56	3.42	2.10	0.84
		3.15	0.0					

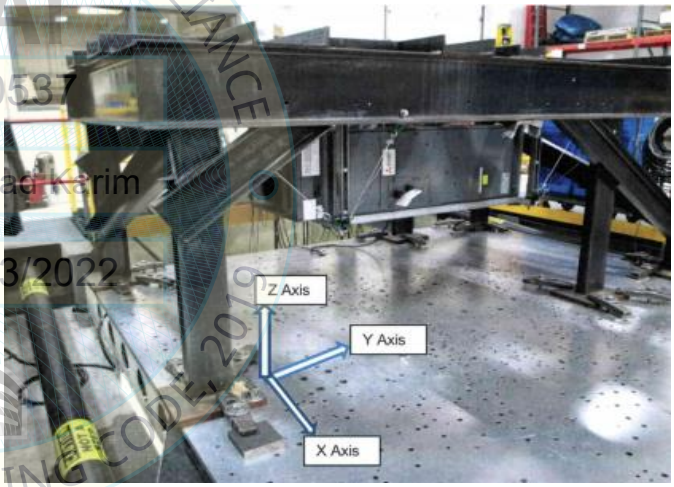
Product Construction Summary:

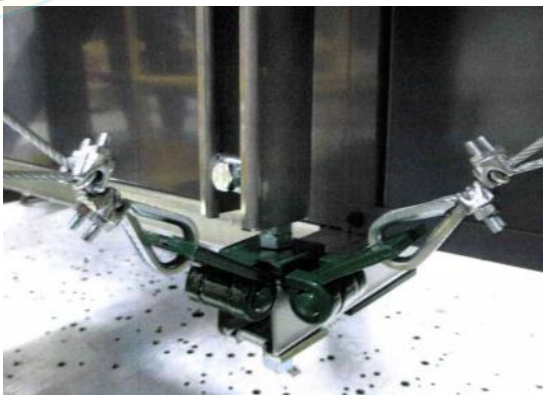
Galvanized steel

Options/Subcomponent Summary:

Description	***Part Number***
Electric Heater	*EH05-MPA-S*
Heat Exchanger	*U41 011 480*
Fan Motor	*U41 003 128*
Fan Case	*U41 008 129*
PCA Assy.	*U41 007 280*
PCA Power	*U41 001 281*

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 after shake table test. Contents were included in testing per operating conditions.

REVIEWED FOR CODE COMPLIANCE
HCAI
OSP-0537
BY: Mohammad Karim
DATE: 11/03/2022
CALIFORNIA BUILDING CODE 2019

UNIT UNDER TEST (UUT) SUMMARY SHEET

2000559-CR-001-R2

TRU COMPLIANCE

UUT 24

Manufacturer:	*Mitsubishi Electric Corporation*
Model Line:	*P-Type, S-Type, and City Multi*
Model Number:	*PVFY-P54AMUE-E*
Serial Number:	*N/A*
Test Report:	*Q1619.0 (UUT-20)*

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
227	59.9	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 2022	ICC-ES AC156	2.85	1.0	1.5	4.56	3.42	2.10	0.84
		3.15	0.0					

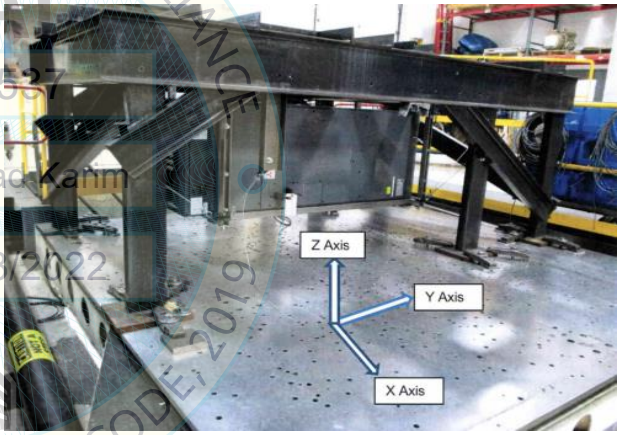
Product Construction Summary:

Galvanized steel

Options/Subcomponent Summary:

Description	***Part Number***
Electric Heater	*E17-MPAS-L*
Heat Exchanger	*U41 014 480*
Fan Motor	*U41 005 128*
Fan Case	*U41 010 129*
PCA ASSY.	*U41 007 280*
PCA Power	*U41 003 281*

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 after shake table test. Contents were included in testing per operating conditions.

REVIEWED FOR CODE COMPLIANCE UNDER HCAI OSP-0537 BY: Mohammad Karim DATE: 11/03/2022 CALIFORNIA BUILDING CODE 2019

UNIT UNDER TEST (UUT) SUMMARY SHEET

2000559-CR-001-R2

TRU COMPLIANCE

UUT 25

Manufacturer:	*Mitsubishi Electric Corporation*		
Model Line:	*P-Type, S-Type, and City Multi*		
Model Number:	*CMB-P105NU-G*		
Serial Number:	*N/A*	***Test Report:***	*Q0028.00 (UUT-9)*

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
72	17.0	25.6	11.2	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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.74	0.70
		2.61	0.0					

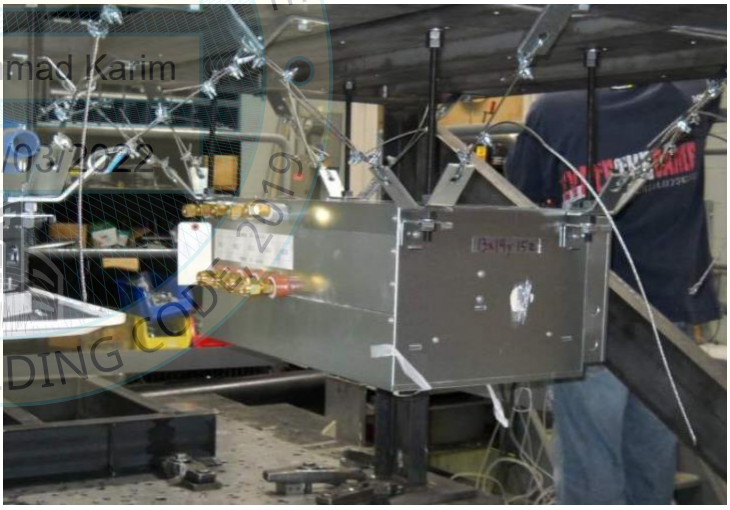
Product Construction Summary:

Galvanized steel

Options/Subcomponent Summary:

Description	***Part Number***
Linear Expansion Valve	*R63 R23 401*
Solenoid Valve Coil	*R61 2A1 243*
Solenoid Valve	*R63 4F3 232*
Solenoid Valve	*R63 Yo7 232*
Control Board	*R63 044 280*
Relay Board ASSY.	*R63 M82 280*

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.

REVIEWED FOR CODE COMPLIANCE
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BY: Mohammad Karim
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HCAI
CALIFORNIA BUILDING CODE

UNIT UNDER TEST (UUT) SUMMARY SHEET

2000559-CR-001-R2

TRU COMPLIANCE

UUT 26

Manufacturer:	*Mitsubishi Electric Corporation*		
Model Line:	*P-Type, S-Type, and City Multi*		
Model Number:	*CMP-P1016NU-HA*		
Serial Number:	*N/A*	***Test Report:***	*Q0028.00 (UUT-12)*

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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.67	0.67
		2.50	0.0					

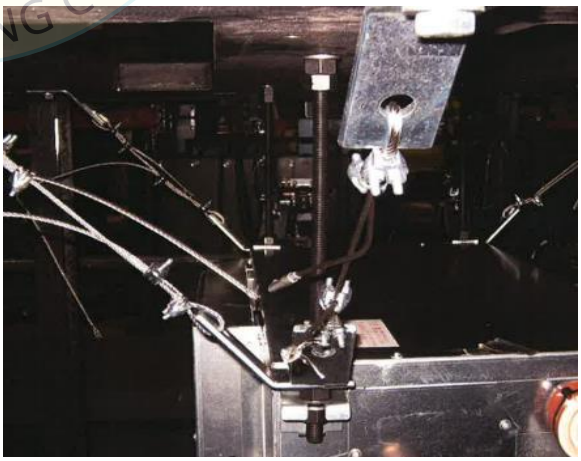
Product Construction Summary:

Carbon steel

Options/Subcomponent Summary:

Description	***Part Number***
Linear Expansion Valve	*R63 008401*
Solenoid Valve Coil	*R61 2A1 243*
Solenoid Valve	*R63 4F3 232*
Solenoid Valve	*R63 Yo7 232*
Control Board	*R63 044 280*
Relay Board ASSY.	*R63 M82 280*

Test Mounting Details:



UUT was ceiling suspended with 1/2" ø hanger rod and (2) 3/8" ø 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.

REVIEWED FOR CODE COMPLIANCE
HCA
OSP-0537
BY: Mohammad Karim
DATE: 11/03/2022
FLORIDA BUILDING CODE, 2020

UNIT UNDER TEST (UUT) SUMMARY SHEET

2000559-CR-001-R2

TRU COMPLIANCE

Manufacturer:	*Mitsubishi Electric Corporation*	**UUT 29**
Model Line:	*P-Type, S-Type, and City Multi*	
Model Number:	*PQRY-P72TLMU-A*	
Serial Number:	*N/A*	***Test Report:*** *Q1619.0 (UUT-24)*

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 2022	ICC-ES AC156	2.75	1.0	1.5	4.40	3.30	2.10	0.84
		3.15	0.0					

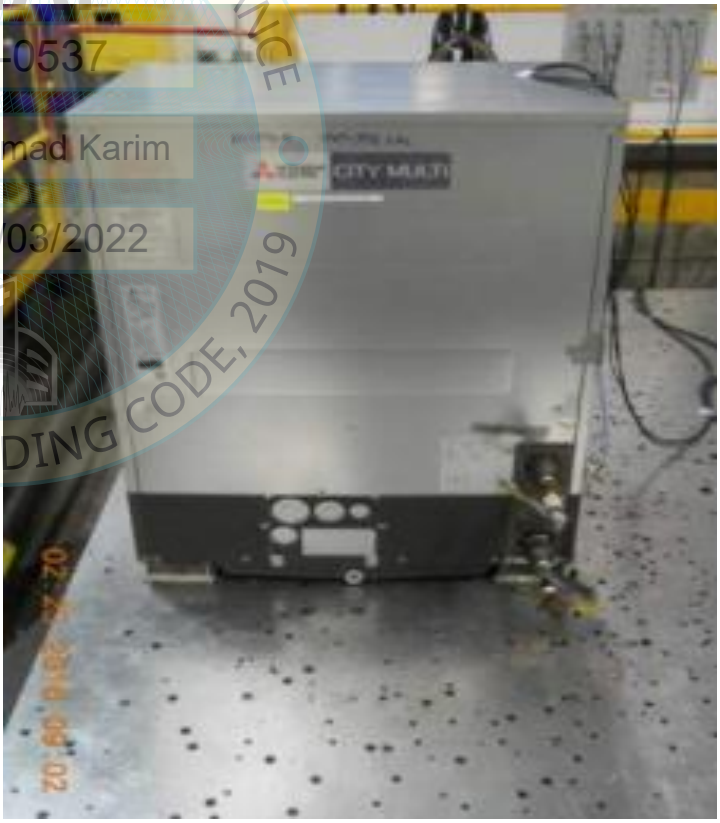
Product Construction Summary:

Galvanized steel

Options/Subcomponent Summary:

Description	***Part Number***
Scroll Compressor	*R69 130 478*
Heat Exchanger	*R61 987 480*
INV Heat Exchanger Assy.	*R61 928 480*
Accumulator Assy.	*R61 127 484*
Four Way Valve	*R61 013 403*
Control Board	*R61 358 280*
INV Board	*R61 353 280*

Test Mounting Details:



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

REVIEWED FOR CODE COMPLIANCE
HCAI
OSP-0537
BY: Mohammad Karim
DATE: 11/03/2022
CALIFORNIA BUILDING CODE, 2019

UNIT UNDER TEST (UUT) SUMMARY SHEET

2000559-CR-001-R2

TRU COMPLIANCE

Manufacturer:	*Mitsubishi Electric Corporation*	**UUT 30**
Model Line:	*P-Type, S-Type, and City Multi*	
Model Number:	*PQHY-P240YLMUA*	
Serial Number:	*N/A*	***Test Report:*** *Q1619.0 (UUT-25)*

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 2022	ICC-ES AC156	2.60	1.0	1.5	4.16	3.12	1.90	0.76
		2.85	0.0					

Product Construction Summary:

Galvanized steel

Options/Subcomponent Summary:

Description	***Part Number***
Scroll Compressor	*R69 133 478*
Heat Exchanger	*R61 991 480*
INV Heat Exchanger Assy.	*R61 928 480*
Accumulator Assy.	*R61 125 484*
Four Way Valve	*R61 013 403*
Control Board	*R61 340 280*
INV Board	*R61 372 280*

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 after shake table test. Contents were included in testing per operating conditions.

REVIEWED FOR CODE COMPLIANCE
HCAI
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BY: Mohammad Karim
DATE: 11/03/2022
CALIFORNIA BUILDING CODE, 2019

UNIT UNDER TEST (UUT) SUMMARY SHEET

2000559-CR-001-R2

TRU COMPLIANCE

UUT 31

Manufacturer:	*Mitsubishi Electric Corporation*		
Model Line:	*P-Type, S-Type, and City Multi*		
Model Number:	*PUHY-P72TLMUA*		
Serial Number:	*N/A*	***Test Report:***	*Q1619.0 (UUT-22)*

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 2022	ICC-ES AC156	2.75	1.0	1.5	4.40	3.30	2.00	0.84
		3.15	0.0					

Product Construction Summary:

Carbon steel

Options/Subcomponent Summary:

Description	***Part Number***
Compressor	*R69 126 478*
Heat Exchanger	*R61 929 480*
Fan Motor	*R61 267 220*
Accumulator	*R61 041 484*
Reversing Valve (2)	*R61 013 403*
PC Board Mat'l	*R61 342 280*

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 after shake table test. Contents were included in testing per operating conditions.

REVIEWED FOR CODE COMPLIANCE
HCAI
OSP-0537
BY: Mohammad Karim
DATE: 11/03/2022
CALIFORNIA BUILDING CODE, 2019

UNIT UNDER TEST (UUT) SUMMARY SHEET

2000559-CR-001-R2

TRU COMPLIANCE

UUT 32

Manufacturer:	*Mitsubishi Electric Corporation*
Model Line:	*P-Type, S-Type, and City Multi*
Model Number:	*PURY-P168YLMUA*
Serial Number:	*N/A*
Test Report:	*Q1619.0 (UUT-23)*

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
702	29.2	65.0	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 2022	ICC-ES AC156	2.75	1.0	1.5	4.40	3.30	2.10	0.84
		3.15	0.0					

Product Construction Summary:

Carbon steel

Options/Subcomponent Summary:

Description	***Part Number***
Compressor	*R69 118 478*
Heat Exchanger	*R61 937 480*
Heat Exchanger	*R61 939 480*
Fan Motor (2)	*R61 268 220*
Accumulator	*R61 089 484*
Reversing Valve (2)	*R61 013 403*
PC Board Mat'l	*R61 354 280*

Test Mounting Details:

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

REVIEWED FOR CODE COMPLIANCE
HCAI
OSP-0537
BY: Mohammad Karim
DATE: 11/03/2022
CALIFORNIA BUILDING CODE, 2019

UNIT UNDER TEST (UUT) SUMMARY SHEET

2000559-CR-001-R2

TRU COMPLIANCE

Manufacturer:	*Mitsubishi Electric Corporation*	**UUT 33**
Model Line:	*P-Type, S-Type, and City Multi*	
Model Number:	*PURY-EP168TNU-A*	
Serial Number:	*83W00017*	***Test Report:*** *15373, Rev.1*

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
741	29.0	69.0	72.0	8.3	5.8	>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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.67	0.67
		2.50	0.0					

Product Construction Summary:

Carbon steel

Options/Subcomponent Summary:

Description	***Part Number***
Compressor	*R69 169 478*
Heat Exchanger Kit	*KS00R752)*
Fan Motor Right	*R61 378 220*
Fan Motor Left	*R61 380 220*
Accumulator	*KD54B568*
Fan	*R61 047 114*

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 after shake table test. Contents were included in testing per operating conditions.

REVIEWED FOR CODE COMPLIANCE
HCAI
OSP-0537
BY: Mohammad Karim
DATE: 11/03/2022
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UNIT UNDER TEST (UUT) SUMMARY SHEET

2000559-CR-001-R2

TRU COMPLIANCE

UUT 34

Manufacturer:	*Mitsubishi Electric Corporation*
Model Line:	*P-Type, S-Type, and City Multi*
Model Number:	*PUHY-EP192TNU-A*
Serial Number:	*93P00001*
Test Report:	*15373, Rev.1*

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
744.5	29.0	69.0	72.0	8.10	5.99	>33.33

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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.67	0.67
		2.50	0.0					

Product Construction Summary:

Carbon steel

Options/Subcomponent Summary:

Description	***Part Number***
Compressor	*E27 R37 900*
Heat Exchanger	*KD00B670*
Fan Motor Right	*E27 J44 301*
Fan Motor Left	*E27 J50 301*
Accumulator	*KD54B612*
Reversing Valve	*E27 R17 961*
Reversing Valve	*E27 R22 961*
Reversing Valve	*E27 R27 961*
PC Board Mat'l	*E27 R13 450*

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 after shake table test. Contents were included in testing per operating conditions.

REVIEWED FOR CODE COMPLIANCE
HCAI
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BY: Mohammad Karim
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UNIT UNDER TEST (UUT) SUMMARY SHEET

2000559-CR-001-R2

TRU COMPLIANCE

Manufacturer:	*Mitsubishi Electric Corporation*	**UUT 35**
Model Line:	*P-Type, S-Type, and City Multi*	
Model Number:	*CMB-P104NU-J1*	
Serial Number:	*83W00016*	***Test Report:*** *15373, Rev.1*

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
56	16.0	25.0	10.0	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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.67	0.67
		2.50	0.0					

Product Construction Summary:

Carbon Steel

Options/Subcomponent Summary:

Description	***Part Number***
Linera Expansion Valve	*R61 107 401*
Solenoid Valve	*R61 052 243*
Solenoid Valve	*R61 053 243*
Solenoid Valve	*R61 067 243*
Board Assembly	*R61 527 280*

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.

REVIEWED FOR CODE COMPLIANCE
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BY: Mohammad Karim
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CALIFORNIA BUILDING CODE 2019

UNIT UNDER TEST (UUT) SUMMARY SHEET

2000559-CR-001-R2

TRU COMPLIANCE

Manufacturer:	*Mitsubishi Electric Corporation*	**UUT 36**
Model Line:	*P-Type, S-Type, and City Multi*	
Model Number:	*CMB-P1016NU-KA1*	
Serial Number:	*N/A*	***Test Report:*** *15373, Rev.1*

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
144.5	22.0	45.0	10.0	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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.67	0.67
		2.50	0.0					

Product Construction Summary:

Carbon steel

Options/Subcomponent Summary:

Description	***Part Number***
Linear Expansion Valve	*R61 107 401*
Solenoid Valve Coil	*R61 052 243*
Solenoid Valve Coil	*R61 053 243*
Solenoid Valve Coil	*R61 054 243*
Solenoid Valve Coil	*R61 067 243*
Solenoid Valve Coil	*R61 068 243*
Solenoid Valve Coil	*R63 001 921*
Solenoid Valve Coil	*R63 040 232*
Board Assembly	*R63 MB2 280*

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.

REVIEWED FOR CODE COMPLIANCE
HCAI
OSP-0537
BY: Mohammad Karim
DATE: 11/03/2022
CALIFORNIA BUILDING CODE, 2019

UNIT UNDER TEST (UUT) SUMMARY SHEET

2000559-CR-001-R2

TRU COMPLIANCE

UUT 37

Manufacturer:	*Mitsubishi Electric Corporation*
Model Line:	*P-Type, S-Type, and City Multi*
Model Number:	*PCA-A42KA7*
Serial Number:	*8YM00587*
Test Report:	*15373, Rev.1*

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
87.5	26.8	63.0	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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.67	0.67
		2.50	0.0					

Product Construction Summary:

Carbon steel and plastic

Options/Subcomponent Summary:

Description	***Part Number***
Control Board	*E17 D87 447*
Heat Exchanger	*E17 782 620*
Sirocco Fan	*E17 648 500*
Sirocco Fan	*E17 648 500*
Fan Case	*E17 648 237*
Fan Motor	*E17 649 300*
Terminal Block	*E17 516 375*
	E17 162 375

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.

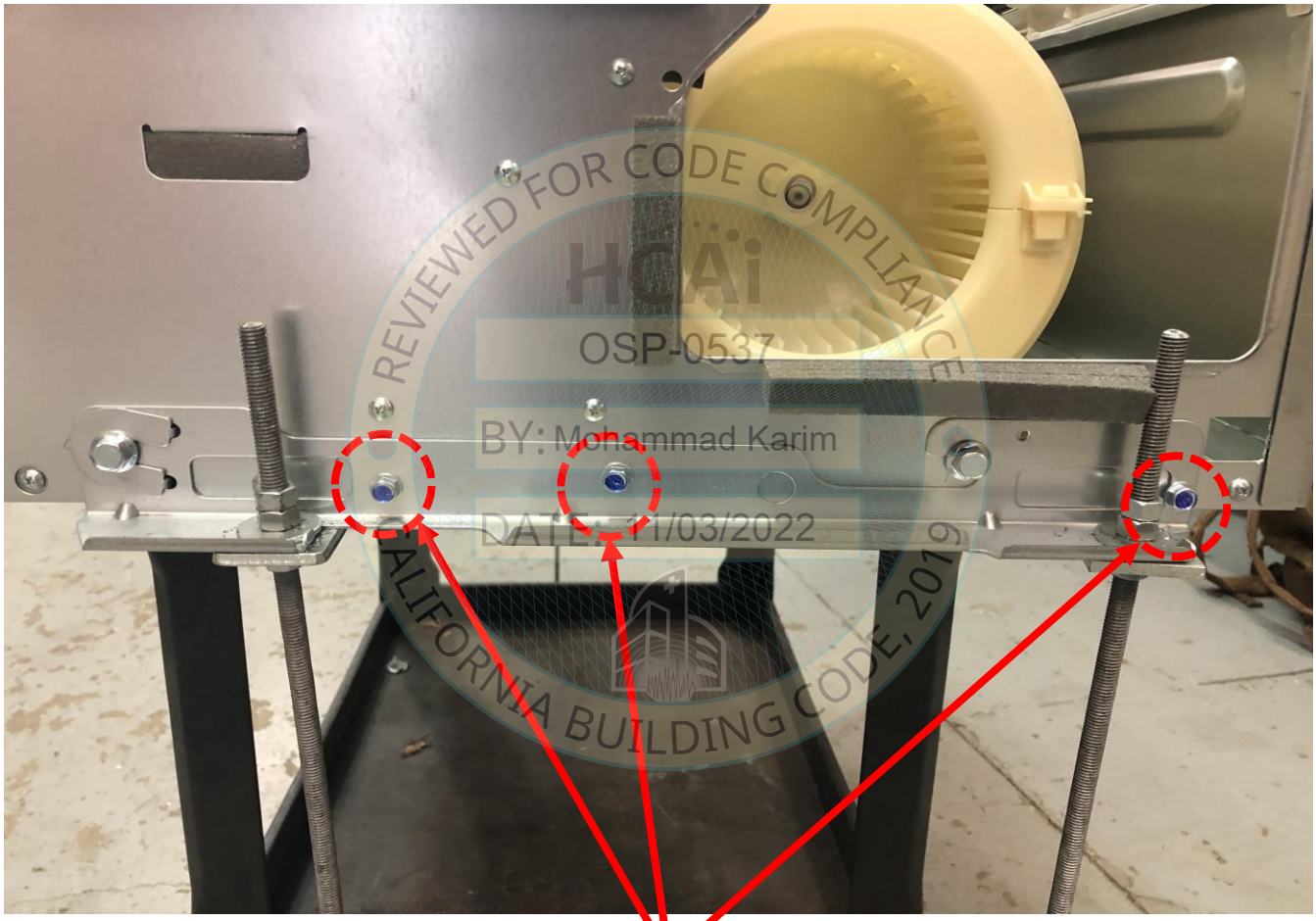
REVIEWED FOR CODE COMPLIANCE
HCAI
OSP-0537
BY: Mohammad Karim
DATE: 11/03/2022
CALIFORNIA BUILDING CODE, 2022

UNIT UNDER TEST (UUT) SUMMARY SHEET

2000559-CR-001-R2

Manufacturer:	*Mitsubishi Electric Corporation*		**UUT 37**
Model Line:	*P-Type, S-Type, and City Multi*		
Model Number:	*PCA-A42KA7*		
Serial Number:	*8YM00587*	***Test Report:***	*15373, Rev.1*

Seismic Modification Details:



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

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.

UNIT UNDER TEST (UUT) SUMMARY SHEET

2000559-CR-001-R2

TRU COMPLIANCE

Manufacturer:	*Mitsubishi Electric Corporation*	**UUT 38**
Model Line:	*P-Type, S-Type, and City Multi*	
Model Number:	*PURY-EP240TNU-A*	
Serial Number:	*04W00025*	***Test Report:*** *2000559-TR-001-R0 (UUT1)*

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
872.5	29.2	68.9	71.6	5.39	22.58	>33.33

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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.67	0.67
		2.50	0.0					

Product Construction Summary:

Carbon steel and plastic

Options/Subcomponent Summary:

Description	***Part Number***
Compressor	*R69 200 478*
Heat Exchanger	*R61 K06 480*
Heat Exchanger	*R61 K07 480*
Heat Exchanger	*R61 K08 480*
Fan Motor Right	*R61 378 220*
Fan Motor Left	*R61 380 220*
Accumulator	*R61 196 484*
4-way valve	*R61 033 403*
Control Board	*R61 587 280*
Fan	*R61 047 114*

Test Mounting Details:

UUT base mounted - rigid with six (6) 3/8" Grade 8 bolts with respective washers; torqued to 25 ft-lbs.
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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CALIFORNIA BUILDING CODE 2019

UNIT UNDER TEST (UUT) SUMMARY SHEET

2000559-CR-001-R2

TRU COMPLIANCE

Manufacturer:	*Mitsubishi Electric Corporation*	**UUT 39**
Model Line:	*P-Type, S-Type, and City Multi*	
Model Number:	*PUHY-EP240YNU-A*	
Serial Number:	*9YW00008*	***Test Report:*** *2000559-TR-001-R0 (UUT2)*

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
887	29.3	68.9	71.6	4.88	8.06	12.58

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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.67	0.67
		2.50	0.0					

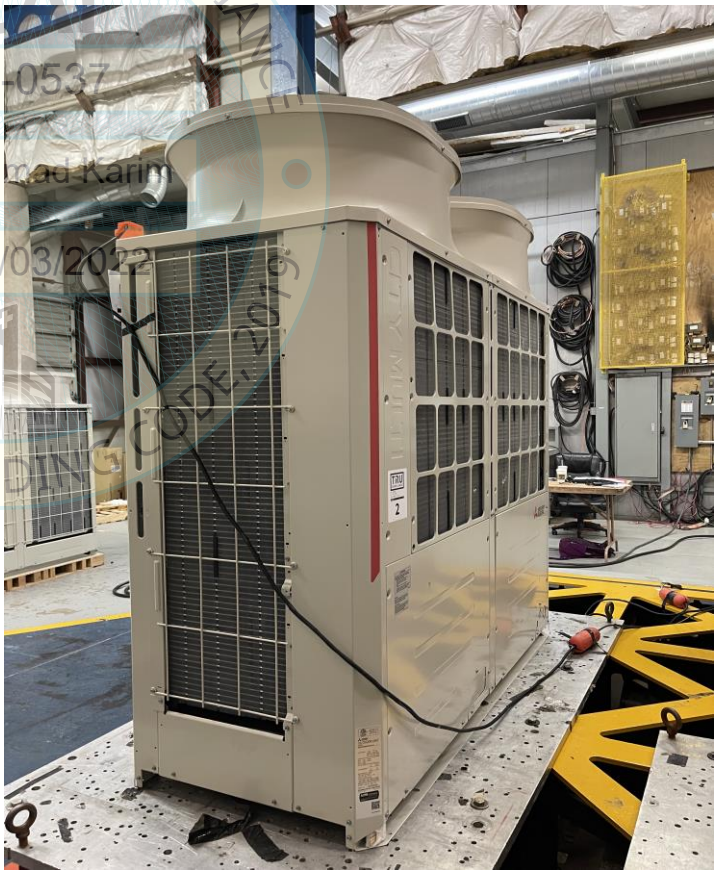
Product Construction Summary:

Carbon steel and plastic

Options/Subcomponent Summary:

Description	***Part Number***
Compressor	*R69 200 478*
Heat Exchanger	*R61 K06 480*
Heat Exchanger	*R61 K07 480*
Heat Exchanger	*R61 K08 480*
Fan Motor	*R61 353 220 (left)*
Fan Motor	*R61 349 220 (right)*
Accumulator	*R61 194 484*
4-Way Valve	*R61 032 403*
Fan	*R61 047 114*
Conrol Box	*R61 E57 305*

Test Mounting Details:



UUT base mounted - rigid with six (6) 3/8" Grade 8 bolts with respective washers; torqued to 25 ft-lbs.
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

2000559-CR-001-R2

UUT 40

Manufacturer:	*Mitsubishi Electric Corporation*		
Model Line:	*P-Type, S-Type, and City Multi*		
Model Number:	PKFY-P04NLMU-E		
Serial Number:	*13M00058*	***Test Report:***	*2000559-TR-001-R0 (UUT3)*

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
23.5	9.3	30.4	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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.67	0.67
		2.50	0.0					

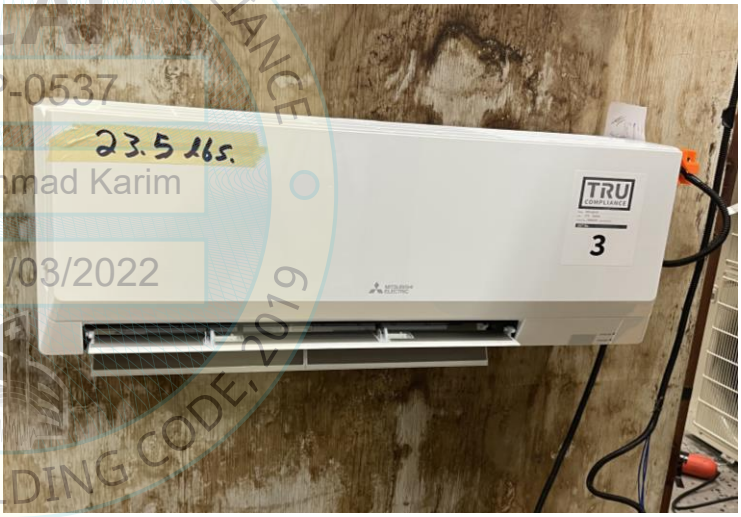
Product Construction Summary:

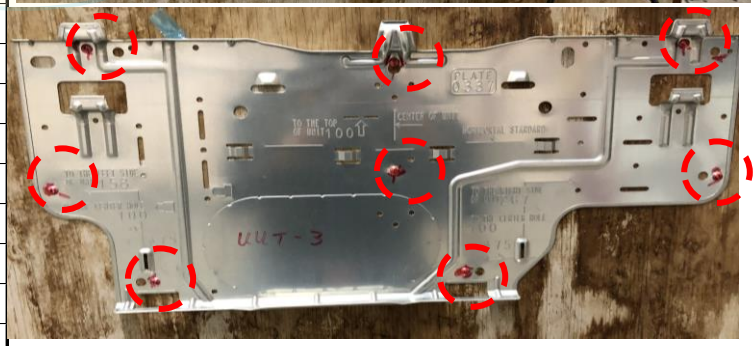
Carbon steel and plastic

Options/Subcomponent Summary:

Description	***Part Number***
Line Flow Fan	*E27 P63 302*
Fan Motor	*E27 P63 333*
Vane Motor (Upper)	*E27 103 303*
Vane Motor (Lower)	*E27 Y54 303*
Contoller Board	*E27 Y99 447*
Indoor Heat Exchanger	*E27 Y98 620*
Linear Expansin Valve	*E27 P63 640*

Test Mounting Details:





UUT wall mounted - rigid with eight (8) #10 self tapping screws. Wall unit attaches to mounting plate shown in above in the bottom image. Locations of these screws are highlighted in the same image. 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

2000559-CR-001-R2

TRU COMPLIANCE

UUT 41

Manufacturer:	*Mitsubishi Electric Corporation*
Model Line:	*P-Type, S-Type, and City Multi*
Model Number:	TPKFYP018LM140A
Serial Number:	*N/A*
Test Report:	*2000559-TR-001-R0 (UUT4)*

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
28	9.3	35.4	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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.67	0.67
		2.50	0.0					

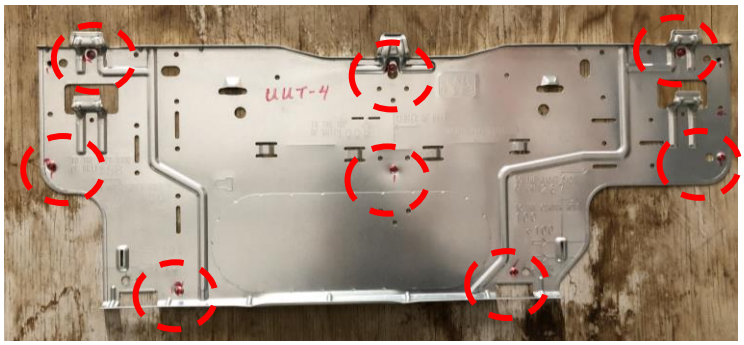
Product Construction Summary:

Carbon steel and plastic

Options/Subcomponent Summary:

Description	***Part Number***
Line Flow Fan	*E27 P68 302*
Fan Motor	*E27 P63 333*
Vane Motor (Upper)	*E27 103 303*
Vane Motor (Lower)	*E27 Y54 303*
Contoller Board	*E27 Y99 447*
Indoor Heat Exchanger	*E27 03A 620*
Linear Expansion Valve	*E27 P64 640*

Test Mounting Details:



UUT wall mounted - rigid with eight(8) #10 self tapping screws. Wall unit attaches to mounting plate shown in above in the bottom image. Locations of these screws are highlighted in the same image. 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

2000559-CR-001-R2

TRU COMPLIANCE

Manufacturer:	*Mitsubishi Electric Corporation*	**UUT 42**
Model Line:	*P-Type, S-Type, and City Multi*	
Model Number:	*TUMYH0361AK41NA*	
Serial Number:	*14U0017377SM77*	***Test Report:*** *2000559-TR-001-R0 (UUT5)*

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
277	13.0	41.3	52.7	4.61	4.49	12.03

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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.67	0.67
		2.50	0.0					

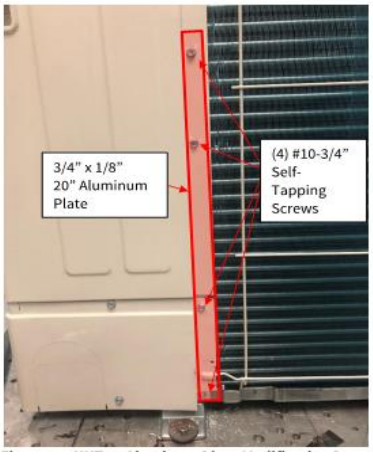
Product Construction Summary:

Carbon steel and plastic

Options/Subcomponent Summary:

Description	***Part Number***
Compressor	*T97 443 077*
Heat Exchanger	*R01 R65 408*
Fan Motor (2)	*T7W A10 221*
Propeller Fan	*R01 E16 115*
Accumulator	*R01 E810 440*
4 - way Valve	*R01 E40 403*
Control Board	*R01 M03 350*
Coil	*R01 H48 242*

Unit Modification:



Test Mounting Details:

UUT base mounted - rigid with four (4) 3/8" Grade 8 bolts with respective washers; torqued to 25 ft-lbs.
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

2000559-CR-001-R2

TRU COMPLIANCE

Manufacturer:	*Mitsubishi Electric Corporation*	**UUT 43**
Model Line:	*P-Type, S-Type, and City Multi*	
Model Number:	*MXZ-SM120TAM*	
Serial Number:	*N/A*	***Test Report:*** *2200667-TR-001-R0 (UUT43)*

UUT Properties

Weight (lb)	Dimension (in)			Lowest Natural Frequency (Hz)		
	Depth	Width	Height	Front-Back	Side-Side	Vertical
431	18.0	41.0	65.3	4.37	6.74	30.96

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 2022	ICC-ES AC156	2.00	1.0	1.5	3.20	2.40	1.67	0.67
		2.50	0.0					

Product Construction Summary:

Carbon Steel frame and enclosure

Options/Subcomponent Summary:

Description	***Part Number***
Compressor	*E27 68P 900*
Upper Fan Motor	*E27 68P 301*
Lower Fan Motor	*E27 69P 301*
Power PCB	*E27 68P 440*
Control PCB	*E27 68P 450*
Inverter PCB	*E27 68P 456*
Reactor	*E27 68P 337*
Terminal Block	*E27 68P 374*
Solenoid Coil	*E27 69P 490*
	E27 70P 490
Outdoor Coil	*E27 68P 630*
	E27 69P 630
Expansion Valve Coil	*E27 W53 493*
	E27 W54 493
Reversing Valve	*E27 68P 490*

Test Mounting Details:

UUT43 was base mounted - rigid using four (4) 3/8" Grade 8 bolts and washers. Two (2) mounting brackets on the condenser side; torqued to 25 ft-lbs.
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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