APPLICATION FOR OSHPD SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY	
APPLICATION #:	OSP – 0108 – 10

OSHPD Special Seismic Certification Preapproval (OSP)

Type: ☐ New ☒ Renewal

Manufacturer Information

Manufacturer: Mitsubishi Electric US Cooling & Heating Division

Manufacturer's Technical Representative: Douglas Tucker

Mailing Address: 1340 Satellite Blvd., Suwanee, GA 30024

Telephone: (678) 376-2935 Email: DTucker@hvac.mea.com

Product Information

Product Name: Mitsubishi Electric, City Multi

Product Type: Split AC, Heat Pumps, and Circuit Controllers

Product Model Number: (see attached list)
(List all unique product identification numbers and/or part numbers)

General Description: HVAC equipment including outdoor units, indoor units, and system branch controllers.

Mounting Description: Floor mounted, ceiling mounted, and wall mounted units.

Applicant Information

Applicant Company Name: Mitsubishi Electric US Cooling & Heating Division

Contact Person: Douglas Tucker

Mailing Address: 1340 Satellite Blvd., Suwanee, GA 30024

Telephone: (678) 376-2935 Email: DTucker@hvac.mea.com

I hereby agree to reimburse the Office of Statewide Health Planning and Development review fees in accordance with the California Administrative Code, 2016.

Signature of Applicant: Douglas K. Tucker Date: November 7, 2016

Title: Sr. Mgr., Building Code Compliance Company Name: Mitsubishi Electric US

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

Company Name: Buehler & Buehler Structural Engineers

Name: Scott R. Hooker California License Number: S3937

Mailing Address: 600 Q Street, Sacramento, CA 65811

Telephone: (916) 443-0303 Email: shooker@bbse.com

Supports and Attachments Preapproval

☐ Supports and attachments are preapproved under OPM- _____
(Separate application for OSHPD Preapproval of Manufacturer's Certification (OPM) of Supports and attachments is required)

☒ Supports and attachments are not preapproved

Certification Method

☒ Testing in accordance with: ☒ ICC-ES AC156

☐ Other (Please Specify): _____

Testing Laboratory

Company Name: Qualtech NP

Contact Name: Maria S. Nemier

Mailing Address: 4600 East Tech Drive, Cincinnati, OH 45245

Telephone: (513) 528-9292 Email: mnemier@curtisswright.com

Seismic Parameters

Design in accordance with ASCE 7-10 Chapter 13: ☒ Yes ☐ No

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

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

a_p (In-structure equipment or component amplification factor) = 2.5

R_p (Equipment or component response modification factor) = 6

Ω_0 (System overstrength factor) = 2.0

I_p (Importance factor) = 1.5

z/h (Height factor ratio) = 1

Equipment or Component Natural Frequencies (Hz) = See attachment

Overall dimensions and weight (or range thereof) = See attachment

Equipment or Components @ grade designed in accordance with ASCE 7-10 Chapter 15: ☐ Yes ☒ No

Design Basis of Equipment or Components (V/W) =

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

S_{D1} (Design spectral response acceleration at 1 second period, g) =

R (Response modification coefficient) =

Ω_0 (System overstrength factor) =

C_d (Deflection amplification factor) =

I_p (Importance factor) = 1.5

Height to Center of Gravity above base =

Equipment or Component Natural Frequencies (Hz) =

Overall dimensions and weight (or range thereof) =

Tank(s) designed in accordance with ASME BPVC, 2015: ☐ Yes ☒ No

List of Attachments Supporting Special Seismic Certification

☒ Test Report(s) ☐ Drawings ☐ Calculations ☒ Manufacturer's Catalog

☒ Other(s) (Please Specify): Product Matrix, Certifications, and Labels

OSHPD Approval (For Office Use Only) – **Approval Expires on December 31, 2022**

Signature: Timothy J. Piland Date: November 16, 2017

Print Name: Timothy J. Piland Title: SSE

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

Condition of Approval (if applicable):

Table 1. Certified Product List

Indoor Wall Mounted[1] (S_{DS} = 2.00g, z/h = 1.00, F_p/W_p = 1.500)

Model Number	Nominal Capacity	Tested/ Interpolated	Depth (in)	Width (in)	Height (in)	Operating Weight (lbs)
PKFY-P06NBMU-E	**0.5 ton**	**UUT-14 (Q0028.0)**	**8 7/8**	**32 1/8**	**11 5/8**	**22**
PKFY-P06	0.50 ton	interpolated	8 7/8	32 1/8	11 5/8	22
PKFY-P08	0.67 ton	interpolated	9 13/16	35 3/8	11 5/8	29
PKFY-P12	1.0 ton	interpolated	9 13/16	35 3/8	11 5/8	29
PKFY-P15	1.25 tons	interpolated	9 13/16	35 3/8	11 5/8	29
PKFY-P18	1.5 tons	interpolated	9 13/16	35 3/8	11 5/8	29
PKFY-P24	2.0 tons	interpolated	11 5/8	46 1/16	14 3/8	46
PKFY-P30	2.5 tons	interpolated	11 5/8	46 1/16	14 3/8	46
PKA-A12	1.0 tons	interpolated	9 13/16	35 3/8	11 5/8	29
PKA-A18	1.5 tons	interpolated	9 13/16	35 3/8	11 5/8	29
PKA-A24	2.0 tons	interpolated	11 5/8	46 1/16	14 3/8	46
PKA-A30	2.5 tons	interpolated	11 5/8	46 1/16	14 3/8	46
PKA-A36	3.0 tons	interpolated	11 5/8	46 1/16	14 3/8	46
PKA-A36KA	**3.0 tons**	**UUT-13 (Q0028.0)**	**11 5/8**	**46 1/16**	**14 3/8**	**46**

1. Certification level is limited to the lower rating (SDS and z/h) of either the Certified Component Tables as listed, or the internal subcomponents as listed on the Certified Submcomponent Tables.

Indoor Ceiling Cassette 1-Way[1] (S_{DS} = 2.50g, z/h = 1.00, F_p/W_p = 1.875)

Model Number	Nominal Capacity	Tested/ Interpolated	Depth (in)	Width (in)	Height (in)	Operating Weight (lbs) [Unit / Panel]
PMFY-P06NBMU-E	**0.5 ton**	**UUT-15 (Q1619.0)**	**31 31/32**	**15 9/16**	**9 1/16**	**34 / 7**
PMFY-P06	0.5 ton	interpolated	31 31/32	15 9/16	9 1/16	34 / 7
PMFY-P08	0.67 ton	interpolated	31 31/32	15 9/16	9 1/16	31 / 7
PMFY-P12	1.0 ton	interpolated	31 31/32	15 9/16	9 1/16	31 / 7
PMFY-P15	1.25 tons	interpolated	31 31/32	15 9/16	9 1/16	34 / 7
PMFY-P15NBMU-E	**1.25 tons**	**UUT-16 (Q1619.0)**	**31 31/32**	**15 9/16**	**9 1/16**	**34 / 7**

1. Certification level is limited to the lower rating (SDS and z/h) of either the Certified Component Tables as listed, or the internal subcomponents as listed on the Certified Submcomponent Tables.

Indoor Ceiling Cassette 4-Way[1] (S_{DS} = 2.00g, z/h = 1.00, F_p/W_p = 1.500)

Model Number	Nominal Capacity	Tested/ Interpolated	Depth (in)	Width (in)	Height (in)	Operating Weight (lbs) [Unit / Panel]
PLFY-P08	0.67 ton	extrapolated	33 3/32	33 3/32	10 3/16	42 / 11
PLFY-EP08	0.67 ton	extrapolated	33 3/32	33 3/32	10 3/16	46 / 11
PLFY-P12NBMU-E	**1.0 ton**	**UUT-7 (Q0028.0)**	**33 3/32**	**33 3/32**	**10 3/16**	**49 / 13**
PLFY-P12	1.0 ton	interpolated	33 3/32	33 3/32	10 3/16	49 / 13
PLFY-EP12	1.0 ton	interpolated	33 3/32	33 3/32	10 3/16	46 / 11
PLFY-P15	1.25 tons	interpolated	33 3/32	33 3/32	10 3/16	49 / 13
PLFY-EP15	1.25 tons	interpolated	33 3/32	33 3/32	10 3/16	46 / 11
PLFY-P18	1.5 tons	interpolated	33 3/32	33 3/32	10 3/16	51 / 13
PLFY-EP18	1.5 tons	interpolated	33 3/32	33 3/32	10 3/16	46 / 11
PLFY-P24	2.0 tons	interpolated	33 3/32	33 3/32	10 3/16	51 / 13
PLFY-EP24	2.0 tons	interpolated	33 3/32	33 3/32	10 3/16	55 / 11
PLFY-P30	2.5 tons	interpolated	33 3/32	33 3/32	10 3/16	51 / 13
PLFY-EP30	2.5 tons	interpolated	33 3/32	33 3/32	10 3/16	55 / 11
PLFY-P36	3.0 tons	interpolated	33 3/32	33 3/32	11 3/4	51 / 11
PLFY-EP36	3.0 tons	interpolated	33 3/32	33 3/32	11 3/4	55 / 11
PLFY-P48	4.0 tons	interpolated	33 3/32	33 3/32	11 3/4	55 / 11
PLFY-P48NEMU-E	**4.0 tons**	**UUT-26 (Q1653.0)**	**33 3/32**	**33 3/32**	**11 3/4**	**55 / 11**
PLFY-EP48	4.0 tons	interpolated	33 3/32	33 3/32	11 3/4	55 / 11
PLA-A12	1.0 ton	interpolated	33 1/16	33 1/16	10 3/16	49 / 13
PLA-A18	1.5 tons	interpolated	33 1/16	33 1/16	10 3/16	49 / 13
PLA-A24	2.0 tons	interpolated	33 1/16	33 1/16	10 3/16	51 / 13
PLA-A30	2.5 tons	interpolated	33 1/16	33 1/16	10 3/16	51 / 13
PLA-A36	3.0 tons	interpolated	33 1/16	33 1/16	11 3/4	55 / 13
PLA-A42	3.5 tons	interpolated	33 1/16	33 1/16	11 3/4	55 / 13
PLA-A42BA	**3.5 tons**	**UUT-10 (Q0028.0)**	**33 1/16**	**33 1/16**	**11 3/4**	**55 / 13**

1. Certification level is limited to the lower rating (SDS and z/h) of either the Certified Component Tables as listed, or the internal subcomponents as listed on the Certified Submcomponent Tables.

Table 1. Certified Product List

Indoor Ceiling Concealed[1] (S_{DS} = 2.00g, z/h = 1.00, F_p/W_p = 1.500)

Model Number	Nominal Capacity	Tested/ Interpolated	Depth (in)	Width (in)	Height (in)	Operating Weight (lbs)
PEFY-P06-NMSU-E	**0.5 ton**	**UUT-6 (Q0028.0)**	**27 9/16**	**31 1/8**	**7 7/8**	**42**
PEFY-P06	0.50 ton	interpolated	27 9/16	31 1/8	7 7/8	42
PEFY-P08	0.67 ton	interpolated	27 9/16	31 1/8	7 7/8	42
PEFY-P12	1.0 ton	interpolated	27 9/16	31 1/8	7 7/8	46
PEFY-P15	1.25 tons	interpolated	35 7/16	29 7/32	14 31/32	98
PEFY-P18	1.5 tons	interpolated	35 7/16	29 7/32	14 31/32	100
PEFY-P24	2.0 tons	interpolated	35 7/16	29 7/32	14 31/32	100
PEFY-P27	2.25 tons	interpolated	35 7/16	39 3/8	14 31/32	111
PEFY-P30	2.5 tons	interpolated	35 7/16	39 3/8	14 31/32	111
PEFY-P36	3.0 tons	interpolated	35 7/16	47 1/4	14 31/32	155
PEFY-P48	4.0 tons	interpolated	35 7/16	47 1/4	14 31/32	155
PEFY-P54	4.5 tons	interpolated	35 7/16	47 1/4	14 31/32	155
PEFY-P72	6.0 tons	interpolated	44 1/8	49 1/4	18 9/16	214
PEFY-P96	8.0 tons	interpolated	44 1/8	49 1/4	18 9/16	221
PEFY-P96-NMHU-E	**8.0 tons**	**UUT-1 (Q0028.0)**	**44 1/8**	**49 1/4**	**18 9/16**	**221**
PEFY-AF1200CFM	9.3 tons	interpolated	55 1/8	49 1/4	18 9/16	287
PEFY-AF1200CFMR	**9.3 tons**	**UUT-3 (Q0028.0)**	**55 1/8**	**49 1/4**	**18 9/16**	**309**

1. Certification level is limited to the lower rating (SDS and z/h) of either the Certified Component Tables as listed, or the internal subcomponents as listed on the Certified Submcomponent Tables.

Multi-Position Air Handler[2] (S_{DS} = 2.50g, z/h = 1.00, F_p/W_p = 1.875)

Model Number	Nominal Capacity	Tested/ Interpolated	Depth (in)	Width (in)	Height (in)	Operating Weight (lbs)
PVFY-P12NAMU-E*	**1.0 ton**	**UUT-19 (Q1619.0)**	**21 5/8**	**17**	**50 1/4**	**117**
PVFY-P12	1.0 ton	interpolated	21 5/8	17	50 1/4	117
PVA-A12	1.0 ton	interpolated	21 5/8	17	50 1/4	113
PVFY-P18	1.5 tons	interpolated	21 5/8	17	50 1/4	113
PVA-A18	1.5 tons	interpolated	21 5/8	17	50 1/4	113
PVFY-P24	2.0 tons	interpolated	21 5/8	17	50 1/4	113
PVA-A24	2.0 tons	interpolated	21 5/8	21	54 1/4	141
PVFY-P30	2.5 tons	interpolated	21 5/8	21	54 1/4	141
PVA-A30	2.5 tons	interpolated	21 5/8	21	54 1/4	141
PVFY-P36	3.0 tons	interpolated	21 5/8	21	54 1/4	141
PVA-A36	3.0 tons	interpolated	21 5/8	25	59 1/2	172
PVA-A42	3.5 tons	interpolated	21 5/8	25	59 1/2	172
PVFY-P48	4.0 tons	interpolated	21 5/8	25	59 1/2	172
PVFY-P54	4.5 tons	interpolated	21 5/8	25	59 1/2	227
PVFY-P54NAMU-E*	**4.5 tons**	**UUT-20 (Q1619.0)**	**21 5/8**	**25**	**59 1/2**	**227**

1. PVA is a depopulated model PVFY (no LEV)

2. Certification level is limited to the lower rating (SDS and z/h) of either the Certified Component Tables as listed, or the internal subcomponents as listed on the Certified Submcomponent Tables.

BC Controllers[1] (S_{DS} = 2.00g, z/h = 1.00, F_p/W_p = 1.875, Fp/Wp = 1.500)

Model Number	Nominal Capacity	Tested/ Interpolated	Depth (in)	Width in)	Height (in)	Operating Weight (lbs)
Sub BC						
CMB-P104NU-GM	10.5 tons	extrapolated	17 1/32	25 17/32	11 3/16	62
CMB-P108NU-GB	10.5 tons	extrapolated	17 1/32	25 17/32	11 3/16	82
CMB-P1016NU-HB	10.5 tons	extrapolated	17 1/32	43 1/4	11 3/16	136
Single BC						
CMB-P105NU-G	**15.75 tons**	**UUT-9 (Q0028.0)**	**17 1/32**	**25 17/32**	**11 3/16**	**72**
CMB-P106NU-G	15.75 tons	interpolated	17 1/32	25 17/32	11 3/16	76
CMB-P108NU-G	15.75 tons	interpolated	17 1/32	25 17/32	11 3/16	84
CMB-P1010NU-G	15.75 tons	interpolated	17 1/32	25 17/32	11 3/16	94
CMB-P1013NU-G	15.75 tons	interpolated	17 1/32	43 1/4	11 3/16	126
CMB-P1016NU-G	15.75 tons	interpolated	17 1/32	43 1/4	11 3/16	138
Main BC						
CMB-P108NU-GA	30.0 tons	interpolated	20 1/2	43 3/4	11 7/16	122
CMB-P1010NU-GA	30.0 tons	interpolated	20 1/2	43 3/4	11 7/16	132
CMB-P1013NU-GA	30.0 tons	interpolated	20 1/2	43 3/4	11 7/16	148
CMB-P1016NU-HA	**36.0 tons**	**UUT-12 (Q0028.0)**	**20 1/2**	**43 3/4**	**11 7/16**	**162**

1. Certification level is limited to the lower rating (SDS and z/h) of either the Certified Component Tables as listed, or the internal subcomponents as listed on the Certified Submcomponent Tables.

Table 1. Certified Product List

Outdoor Heat Pump - (P-Series)

Model Number	Nominal Capacity	Tested/ Interpolated	Depth (in)	Width (in)	Height (in)	Operating Weight (lbs)	S_{DS} (g)	F_p / W_p
Outdoor Heat Pump - PUY & PUZ - **Single Fan**[1]								
PUY-A12NHA3	**1.0 ton**	**UUT-11 (Q0028.0)**	**11 13/16**	**31 1/2**	**23 5/8**	**90**	**2.00**	**1.500**
PUY-A18	1.5 tons	interpolated	11 13/16	31 1/2	23 5/8	89	2.00	1.500
PUZ-A18	1.5 tons	interpolated	11 13/16	31 1/2	23 5/8	91	2.00	1.500
PUY-A24	2.0 tons	interpolated	13	37 3/8	37 1/8	163	2.00	1.500
PUZ-A24	2.0 tons	interpolated	13	37 3/8	37 1/8	165	2.00	1.500
PUY-A30	2.5 tons	interpolated	13	37 3/8	37 1/8	163	2.00	1.500
PUZ-A30	2.5 tons	interpolated	13	37 3/8	37 1/8	165	2.00	1.500
PUY-A36	3.0 tons	interpolated	13	37 3/8	37 1/8	163	2.00	1.500
PUZ-A36NHA3	**3.0 tons**	**UUT-4 (Q0028.0)**	**13**	**37 3/8**	**37 1/8**	**165**	**2.00**	**1.500**
Outdoor Heat Pump - PUY & PUZ - **Double Fan**[1]								
PUZ-HA30	2.5 tons	interpolated	13	37 3/8	53 1/8	265	2.00	1.500
PUZ-HA36	3.0 tons	interpolated	13	37 3/8	53 1/8	265	2.00	1.500
PUY-A42	3.5 tons	interpolated	13	37 3/8	53 1/8	258	2.00	1.500
PUZ-A42	3.5 tons	interpolated	13	37 3/8	53 1/8	260	2.00	1.500
PUZ-HA42	3.5 tons	interpolated	13	41 5/16	52 11/16	287	2.00	1.500
Outdoor Heat Pump - PUMY-P36 to P48 - **Double Fan**[1]								
PUMY-P36	3.0 tons	interpolated	13	41 11/32	52 11/16	269	2.00	1.500
PUMY-P48	4.0 tons	interpolated	13	41 11/32	52 11/16	269	2.00	1.500
PUMY-P48NHMU	**4.0 tons**	**UUT-5 (Q0028.0)**	**13**	**37 7/16**	**53 3/16**	**287**	**2.00**	**1.500**
Outdoor Heat Pump - PUMY-P60 - **Double Fan**[1]								
PUMY-P60NKMU1	**5.0 tons**	**UUT-27 (Q1653.0)**	**13**	**41 11/32**	**52 11/16**	**306**	**1.34**	**1.005**

1. Certification level is limited to the lower rating (SDS and z/h) of either the Certified Component Tables as listed, or the internal subcomponents as listed on the Certified Submcomponent Tables.

Outdoor Heat Recovery / Heat Pump - Water-source[3] (S_{DS} = 2.00g, z/h = 1.00, F_p/W_p = 1.500)

Model Number	Nominal Capacity	Tested/ Interpolated	Depth (in)	Width (in)	Height (in)	Operating Weight (lbs)
PQRY-P72TLMU-A	**6.0 tons**	**UUT-24 (Q1619.0)**	**21 11/16**	**34 11/16**	**43 5/16**	**380**
PQRY-P72YLMU-A	6.0 tons	interpolated	21 11/16	34 11/16	43 5/16	404
PQHY-P72TLMU-A	6.0 tons	interpolated	21 11/16	34 11/16	43 5/16	384
PQHY-P72YLMU-A	6.0 tons	interpolated	21 11/16	34 11/16	43 5/16	408
PQRY-P96TLMU-A	8.0 tons	interpolated	21 11/16	34 11/16	43 5/16	380
PQRY-P96YLMU-A	8.0 tons	interpolated	21 11/16	34 11/16	43 5/16	404
PQHY-P96TLMU-A	8.0 tons	interpolated	21 11/16	34 11/16	43 5/16	384
PQHY-P96YLMU-A	8.0 tons	interpolated	21 11/16	34 11/16	43 5/16	408
PQRY-P120TLMU-A	10.0 tons	interpolated	21 11/16	34 11/16	43 5/16	380
PQRY-P120YLMU-A	10.0 tons	interpolated	21 11/16	34 11/16	43 5/16	404
PQHY-P120TLMU-A	10.0 tons	interpolated	21 11/16	34 11/16	43 5/16	384
PQHY-P120YLMU-A	10.0 tons	interpolated	21 11/16	34 11/16	43 5/16	408
PQRY-P144TLMU-A	12.0 tons	interpolated	21 11/16	34 11/16	57 1/8	479
PQRY-P144YLMU-A	12.0 tons	interpolated	21 11/16	34 11/16	57 1/8	505
PQHY-P144TLMU-A	12.0 tons	interpolated	21 11/16	34 11/16	57 1/8	481
PQHY-P144YLMU-A	12.0 tons	interpolated	21 11/16	34 11/16	57 1/8	508
PQRY-P168TLMU-A	14.0 tons	interpolated	21 11/16	34 11/16	57 1/8	479
PQRY-P168YLMU-A	14.0 tons	interpolated	21 11/16	34 11/16	57 1/8	505
PQHY-P168TLMU-A	14.0 tons	interpolated	21 11/16	34 11/16	57 1/8	481
PQHY-P168YLMU-A	14.0 tons	interpolated	21 11/16	34 11/16	57 1/8	508
PQRY-P192TLMU-A	16.0 tons	interpolated	21 11/16	34 11/16	57 1/8	479
PQRY-P192YLMU-A	16.0 tons	interpolated	21 11/16	34 11/16	57 1/8	505
PQHY-P192TLMU-A	16.0 tons	interpolated	21 11/16	34 11/16	57 1/8	481
PQHY-P192YLMU-A	16.0 tons	interpolated	21 11/16	34 11/16	57 1/8	508
PQRY-P216TLMU-A	18.0 tons	interpolated	21 11/16	34 11/16	57 1/8	556
PQRY-P216YLMU-A	18.0 tons	interpolated	21 11/16	34 11/16	57 1/8	571
PQHY-P216TLMU-A	18.0 tons	interpolated	21 11/16	34 11/16	57 1/8	558
PQHY-P216YLMU-A	18.0 tons	interpolated	21 11/16	34 11/16	57 1/8	574
PQRY-P240TLMU-A	20.0 tons	interpolated	21 11/16	34 11/16	57 1/8	556
PQRY-P240YLMU-A	20.0 tons	interpolated	21 11/16	34 11/16	57 1/8	571
PQHY-P240TLMU-A	20.0 tons	interpolated	21 11/16	34 11/16	57 1/8	558
PQHY-P240YLMU-A	**20.0 tons**	**UUT-25 (Q1653.0)**	**21 11/16**	**34 11/16**	**57 1/8**	**574**

1. PQRY models have heat recovery capability (simultaneous heating and cooling)

2. PQHY models are standard heat pumps (heating-only or cooling-only)

3. Certification level is limited to the lower rating (SDS and z/h) of either the Certified Component Tables as listed, or the internal subcomponents as listed on the Certified Submcomponent Tables.

Table 1. Certified Product List

Outdoor Heat Recovery / Heat Pump - Air-Source[3] (S_{DS} = 2.50g, z/h = 1.00, F_p/W_p = 1.875)

Model Number	*Nominal Capacity*	*Tested/ Interpolated*	Depth (in)	Width (in)	Height (in)	Operating Weight (lbs)
PUHY-P72TKMU-A	6.0 tons	extrapolated	29 5/32	36 1/4	64 31/32	430
PUHY-P72TLMU-A	**6.0 tons**	**UUT-22 (Q1619.0)**	**29 5/32**	**36 1/4**	**64 31/32**	**435**
PUHY-P72YKMU-A	6.0 tons	interpolated	29 5/32	36 1/4	64 31/32	463
PURY-P72TLMU-A	6.0 tons	interpolated	29 5/32	36 1/4	64 31/32	444
PURY-P72YLMU-A	6.0 tons	interpolated	29 5/32	36 1/4	64 31/32	474
PUHY-P72YLMU-A	6.0 tons	interpolated	29 5/32	36 1/4	64 31/32	468
PURY-P72TKMU-A	6.0 tons	interpolated	29 5/32	48 1/16	64 31/32	503
PURY-P72YKMU-A	6.0 tons	interpolated	29 5/32	48 1/16	64 31/32	534
PURY-HP72TKMU-A-H	6.0 tons	interpolated	29 5/32	48 1/16	64 31/32	552
PURY-HP72YKMU-A	6.0 tons	interpolated	29 5/32	48 1/16	64 31/32	574
PURY-HP72YKMU-A-H	6.0 tons	interpolated	29 5/32	48 1/16	64 31/32	580
PURY-P96TLMU-A	8.0 tons	interpolated	29 5/32	48 1/16	64 31/32	503
PURY-P96YLMU-A	8.0 tons	interpolated	29 5/32	48 1/16	64 31/32	534
PUHY-P96TLMU-A	8.0 tons	interpolated	29 5/32	48 1/16	64 31/32	499
PUHY-P96YLMU-A	8.0 tons	interpolated	29 5/32	48 1/16	64 31/32	532
PUHY-P96TKMU-A	8.0 tons	interpolated	29 5/32	48 1/16	64 31/32	532
PUHY-P96YKMU-A	8.0 tons	interpolated	29 5/32	48 1/16	64 31/32	558
PURY-P96TKMU-A	8.0 tons	interpolated	29 5/32	48 1/16	64 31/32	538
PURY-P96YKMU-A	8.0 tons	interpolated	29 5/32	48 1/16	64 31/32	574
PURY-HP96TKMU-A-H	8.0 tons	interpolated	29 5/32	48 1/16	64 31/32	552
PURY-HP96YKMU-A	8.0 tons	interpolated	29 5/32	48 1/16	64 31/32	576
PURY-HP96YKMU-A-H	8.0 tons	interpolated	29 5/32	48 1/16	64 31/32	580
PUHY-P120TKMU-A	10.0 tons	interpolated	29 5/32	68 29/32	64 31/32	697
PUHY-P120YKMU-A	10.0 tons	interpolated	29 5/32	68 29/32	64 31/32	726
PURY-P120TKMU-A	10.0 tons	interpolated	29 5/32	68 29/32	64 31/32	715
PURY-P120YKMU-A	10.0 tons	interpolated	29 5/32	68 29/32	64 31/32	743
PURY-P120TLMU-A	10.0 tons	interpolated	29 5/32	68 29/32	64 31/32	695
PURY-P120YLMU-A	10.0 tons	interpolated	29 5/32	68 29/32	64 31/32	730
PUHY-P120TLMU-A	10.0 tons	interpolated	29 5/32	68 29/32	64 31/32	671
PUHY-P120YLMU-A	10.0 tons	interpolated	29 5/32	68 29/32	64 31/32	706
PURY-P144TLMU-A	12.0 tons	interpolated	29 5/32	68 29/32	64 31/32	695
PURY-P144YLMU-A	12.0 tons	interpolated	29 5/32	68 29/32	64 31/32	730
PUHY-P144TLMU-A	12.0 tons	interpolated	29 5/32	68 29/32	64 31/32	671
PUHY-P144YLMU-A	12.0 tons	interpolated	29 5/32	68 29/32	64 31/32	706
PUHY-P144TKMU-A	12.0 tons	interpolated	29 5/32	68 29/32	64 31/32	697
PUHY-P144YKMU-A	12.0 tons	interpolated	29 5/32	68 29/32	64 31/32	726
PURY-P144TKMU-A	12.0 tons	interpolated	29 5/32	68 29/32	64 31/32	715
PURY-P144YKMU-A	12.0 tons	interpolated	29 5/32	68 29/32	64 31/32	743
PUHY-P168TLMU-A	14.0 tons	interpolated	29 5/32	68 29/32	64 31/32	673
PUHY-P168YLMU-A	14.0 tons	interpolated	29 5/32	68 29/32	64 31/32	702
PURY-P168TLMU-A	14.0 tons	interpolated	29 5/32	68 29/32	64 31/32	702
PURY-P168YLMU-A	**14.0 tons**	**UUT-23 (Q1619.0)**	**29 5/32**	**68 29/32**	**64 31/32**	**730**

1. PURY models have heat recovery capability (simultaneous heating and cooling)

2. PUHY models are standard heat pumps (heating-only or cooling-only)

3. Certification level is limited to the lower rating (SDS and z/h) of either the Certified Component Tables as listed, or the internal subcomponents as listed on the Certified Submcomponent Tables.

Table 2. Certified Sub-Component List

PKFY and PKA Indoor Wall Mounted units (S_{DS} = 2.00g, z/h = 1.00, F_p/W_p = 1.500)

Certification level is limited to the lower rating (SDS and z/h) of either the Certified Component Tables as listed, or the internal subcomponents as listed on the Certified Submcomponent Tables.

Heat Exchanger

Description	*Part Number*	*Manufacturer*	*Material*	*Interpolated / Included With Test*
Heat Exchanger	R05 Y05 480	Mitsubishi Electric	Copper & Aluminum	**UUT-14**
Heat Exchanger	T7W K37 480	Mitsubishi Electric	Copper & Aluminum	*interpolated*
Heat Exchanger	T7W K38 480	Mitsubishi Electric	Copper & Aluminum	*interpolated*
Heat Exchanger	T7W N11 480	Mitsubishi Electric	Copper & Aluminum	*interpolated*
Heat Exchanger	E17 520 620	Mitsubishi Electric	Copper & Aluminum	*interpolated*
Heat Exchanger	E17 518 620	Mitsubishi Electric	Copper & Aluminum	*interpolated*
Heat Exchanger	E17 519 620	Mitsubishi Electric	Copper & Aluminum	*interpolated*
Heat Exchanger	E17 522 620	Mitsubishi Electric	Copper & Aluminum	**UUT-13**

Fan Assembly (Fan motor + Line-Flow Fan)

Description	*Part Number*	*Manufacturer*	*Material*	*Interpolated / Included With Test*
Fan Motor	T7W E41 762	Nidec Shibaura Corporation	Carbon Steel	**UUT-14**
Line-Flow Fan	R01 23A 114	Toray Industries	Styrene Acrylonitrite	**UUT-14**
Fan Motor	R01 E51 220	Nidec Shibaura Corporation	Carbon Steel	*interpolated*
Line-Flow Fan	R01 E42 114	Toray Industries	Styrene Acrylonitrite	*interpolated*
Fan Motor	E12 C92 300	Nidec Shibaura Corporation	Carbon Steel	**UUT-13**
Line-Flow Fan	E12 R79 302	Toray Industries	Styrene Acrylonitrite	**UUT-13**
Line-Flow Fan	E12 C92 302	Toray Industries	Styrene Acrylonitrite	**UUT-13**

Power PC Board

Description	*Part Number*	*Manufacturer*	*Material*	*Interpolated / Included With Test*
Power Board	T7W E37 313	Shin-Asahi Electric	94V-0 Plastic	**UUT-14**

Control PC Board

Description	*Part Number*	*Manufacturer*	*Material*	*Interpolated / Included With Test*
Control Board	E17 D91 447	Shin-Asahi Electric	94V-0 Plastic	**UUT-13**
Control Board	E17 H30 447	Shin-Asahi Electric	94V-0 Plastic	*interpolated*
Control Board	T7W C01 310	Shin-Asahi Electric	94V-0 Plastic	*interpolated*
Control Board	T7W E84 310	Shin-Asahi Electric	94V-0 Plastic	**UUT-14**
Control Board	T7W S03 310	Shin-Asahi Electric	94V-0 Plastic	*interpolated*

PMFY Indoor Ceiling Cassette 1-Way (S_{DS} = 2.50g, z/h = 1.00, F_p/W_p = 1.875)

Certification level is limited to the lower rating (SDS and z/h) of either the Certified Component Tables as listed, or the internal subcomponents as listed on the Certified Submcomponent Tables.

Heat Exchanger

Description	*Part Number*	*Manufacturer*	*Material*	*Interpolated / Included With Test*
Heat Exchanger	T7W H08 480	Mitsubishi Electric	Copper & Aluminum	**UUT-15**
Heat Exchanger	T7W H09 480	Mitsubishi Electric	Copper & Aluminum	**UUT-16**

Fan Assembly

Description	*Part Number*	*Manufacturer*	*Material*	*Interpolated / Included With Test*
Line Flow Fan	R01 E32 114	Toray Industries	Styrene Acrylonitrite	**UUT-15, UUT-16**
Fan Motor	R01 E49 220	Panasonic Corp.	Carbon Steel	**UUT-15, UUT-16**

Condensate Pump

Description	*Part Number*	*Manufacturer*	*Material*	*Interpolated / Included With Test*
Condensate Pump	T7W E11 355	Saginomiya	ABS Plastic	**UUT-15, UUT-16**

Control Board

Description	*Part Number*	*Manufacturer*	*Material*	*Interpolated / Included With Test*
Control Board	T7W C04 310	Shin-Asahi	94V-0 Plastic	**UUT-15, UUT-16**

Table 2. Certified Sub-Component List

PLA and PLFY Indoor Ceiling Cassette 4-Way (S_{DS} = 2.00g, z/h = 1.00, F_p/W_p = 1.500)

Certification level is limited to the lower rating (SDS and z/h) of either the Certified Component Tables as listed, or the internal subcomponents as listed on the Certified Submcomponent Tables.

Heat Exchanger

Description	*Part Number*	*extrapolated*	*Material*	*Interpolated / Included With Test*
Heat Exchanger	R01 N00 480	Mitsubishi Electric	Copper & Aluminum	**UUT-7**
Heat Exchanger	T7W L00 480	Mitsubishi Electric	Copper & Aluminum	*interpolated*
Heat Exchanger	T7W H86 480	Mitsubishi Electric	Copper & Aluminum	*interpolated*
Heat Exchanger	R01 N02 480	Mitsubishi Electric	Copper & Aluminum	*interpolated*
Heat Exchanger	T7W H61 480	Mitsubishi Electric	Copper & Aluminum	*interpolated*
Heat Exchanger	T7W L01 480	Mitsubishi Electric	Copper & Aluminum	*interpolated*
Heat Exchanger	R01 N03 480	Mitsubishi Electric	Copper & Aluminum	*interpolated*
Heat Exchanger	T7W H88 480	Mitsubishi Electric	Copper & Aluminum	*interpolated*
Heat Exchanger	R01 N05 480	Mitsubishi Electric	Copper & Aluminum	*interpolated*
Heat Exchanger	R01 AE3 480	Mitsubishi Electric	Copper & Aluminum	***UUT-10***
Heat Exchanger	T7W H96 480	Mitsubishi Electric	Copper & Aluminum	*interpolated*
Heat Exchanger	R01 L55 480	Mitsubishi Electric	Copper & Aluminum	**UUT-26**

Fan Motor

Description	*Part Number*	*Manufacturer*	*Material*	*Interpolated / Included With Test*
Fan Motor	R01 E59 220	Panasonic Corporation	Carbon Steel	**UUT-7**
Fan Motor	R01 E66 220	Panasonic Corporation	Carbon Steel	**UUT-10**
Fan Motor	R01 E44 220	Panasonic Corporation	Carbon Steel	*interpolated*
Fan Motor	T7W L02 220	Nidec Techno	Carbon Steel	**UUT-26**

Turbo Fan

Description	*Part Number*	*Manufacturer*	*Material*	*Interpolated / Included With Test*
Turbo Fan	R01 E39 114	Toray Industries Inc.	Styrene Acrylonitrite	**UUT-7**
Turbo Fan	R01 E34 114	Toray Industries Inc.	Styrene Acrylonitrite	**UUT-10**
Turbo Fan	R01 E46 114	Toray Industries Inc.	Styrene Acrylonitrite	**UUT-26**

Control Board

Description	*Part Number*	*Manufacturer*	*Material*	*Interpolated / Included With Test*
Control Board	T7W C03 310	Shin-Asahi	94V-0 Plastic	**UUT-7**
Control Board	T7W C19 310	Shin-Asahi	94V-0 Plastic	**UUT-10**
Control Board	T7W M00 310	Seiryo-Technica	94V-0 Plastic	**UUT-26**

Condensate Pump

Description	*Part Number*	*Manufacturer*	*Material*	*Interpolated / Included With Test*
Condensate Pump	T7W E14 355	Fujikoki Corporation	ABS Plastic	**UUT-7/UUT-10**
Condensate Pump	R01 E19 355	Fujikoki Corporation	ABS Plastic	**UUT-26**

Table 2. Certified Sub-Component List

PEFY Indoor Ceiling Concealed (SDS = 2.00g, z/h = 1.00, Fp/Wp = 1.500)

Certification level is limited to the lower rating (SDS and z/h) of either the Certified Component Tables as listed, or the internal subcomponents as listed on the Certified Submcomponent Tables.

Heat Exchanger

Description	*Part Number*	*Manufacturer*	*Material*	*Interpolated / Included With Test*
Heat Exchanger	E17 402 620	Mitsubishi Electric	Copper & Aluminum	**UUT-6**
Heat Exchanger	E17 403 620	Mitsubishi Electric	Copper & Aluminum	interpolated
Heat Exchanger	E17 405 620	Mitsubishi Electric	Copper & Aluminum	interpolated
Heat Exchanger	U41 003 480	Mitsubishi Electric	Copper & Aluminum	interpolated
Heat Exchanger	U41 004 480	Mitsubishi Electric	Copper & Aluminum	interpolated
Heat Exchanger	U41 005 480	Mitsubishi Electric	Copper & Aluminum	interpolated
Heat Exchanger	U41 006 480	Mitsubishi Electric	Copper & Aluminum	interpolated
Heat Exchanger	U41 007 480	Mitsubishi Electric	Copper & Aluminum	interpolated
Heat Exchanger	R61 618 480	Mitsubishi Electric	Copper & Aluminum	interpolated
Heat Exchanger	R61 Y38 483	Mitsubishi Electric	Copper & Aluminum	**UUT-1**
Heat Exchanger - MAIN	R61 326 480	Mitsubishi Electric	Copper & Aluminum	**UUT-3**
Heat Exchanger - RE-HEAT	R61 327 480	Mitsubishi Electric	Copper & Aluminum	**UUT-3**

Fan Motor

Description	*Part Number*	*Manufacturer*	*Material*	*Interpolated / Included With Test*
Fan Motor	E17 319 300	Nidec Shibaura Co.	Carbon Steel	**UUT-6**
Fan Motor	U41 002 220	Nidec Shibaura Co.	Carbon Steel	interpolated
Fan Motor	U41 003 220	Nidec Shibaura Co.	Carbon Steel	interpolated
Fan Motor	U41 004 220	Nidec Shibaura Co.	Carbon Steel	interpolated
Fan Motor	R61 Y47 221	Nidec Shibaura Co.	Carbon Steel	**UUT-1**
Fan Motor	R61 205 220	SANSO Electric Co.	Carbon Steel	**UUT-3**
Line-Flow Fan	R61 022 114	Sirocco	Carbon Steel	**UUT-3**
Line-Flow Fan	R61 023 114	Sirocco	Carbon Steel	**UUT-3**

PC Board

Description	*Part Number*	*Manufacturer*	*Material*	*Interpolated / Included With Test*
PC Board	E17 472 447	Shirai Electronic Co. Ltd.	94V-0 Plastic	**UUT-6**
PC Board	U41 003 280	Shirai Electronic Co. Ltd.	94V-0 Plastic	*interpolated*
PC Board	R61 182 280	Shirai Electronic Co. Ltd.	94V-0 Plastic	*interpolated*
PC Board	R61 181 280	Shirai Electronic Co. Ltd.	94V-0 Plastic	**UUT-1**
PC Board	R63 140 280	Shirai Electronic Co. Ltd.	94V-0 Plastic	interpolated
PC Board	U41 001 280	Shirai Electronic Co. Ltd.	94V-0 Plastic	*interpolated*
PC Board	U41 002 280	Shirai Electronic Co. Ltd.	94V-0 Plastic	*interpolated*
PC Board	R61 226 280	Shirai Electronic Co. Ltd.	94V-0 Plastic	**UUT-3**

Table 2. Certified Sub-Component List

PVFY and PVA Multi-Position Fan Coil Unit (S_{DS} = 2.50g, z/h = 1.00, F_p/W_p = 1.875)

Certification level is limited to the lower rating (SDS and z/h) of either the Certified Component Tables as listed, or the internal subcomponents as listed on the Certified Submcomponent Tables.

Heat Exchanger

Description	*Part Number*	*Manufacturer*	*Material*	*Interpolated / Included With Test*
Heat Exchanger	U41 011 480	Mitsubishi Electric	Copper & Aluminum	**UUT-19**
Heat Exchanger	U41 015 480	Mitsubishi Electric	Copper & Aluminum	interpolated
Heat Exchanger	U41 016 480	Mitsubishi Electric	Copper & Aluminum	interpolated
Heat Exchanger	U41 017 480	Mitsubishi Electric	Copper & Aluminum	interpolated
Heat Exchanger	U41 012 480	Mitsubishi Electric	Copper & Aluminum	interpolated
Heat Exchanger	U41 013 480	Mitsubishi Electric	Copper & Aluminum	interpolated
Heat Exchanger	U41 014 480	Mitsubishi Electric	Copper & Aluminum	**UUT-20**

Fan Motor

Description	*Part Number*	*Manufacturer*	*Material*	*Interpolated / Included With Test*
Fan Motor	U41 003 128	Nidec Shibaura Co.	Carbon Steel	**UUT-19**
Fan Motor	U41 004 128	Nidec Shibaura Co.	Carbon Steel	interpolated
Fan Motor	U41 005 128	Nidec Shibaura Co.	Carbon Steel	**UUT-20**

Fan Case

Description	*Part Number*	*Manufacturer*	*Material*	*Interpolated / Included With Test*
Fan Case	U41 008 129	Mitsubishi Electric	Carbon Steel	**UUT-19**
Fan Case	U41 005 129	Mitsubishi Electric	Carbon Steel	interpolated
Fan Case	U41 006 129	Mitsubishi Electric	Carbon Steel	interpolated
Fan Case	U41 007 129	Mitsubishi Electric	Carbon Steel	interpolated
Fan Case	U41 009 129	Mitsubishi Electric	Carbon Steel	interpolated
Fan Case	U41 010 129	Mitsubishi Electric	Carbon Steel	**UUT-20**

PCA Assy

Description	*Part Number*	*Manufacturer*	*Material*	*Interpolated / Included With Test*
PCA Assy	U41 008 280	Shirai Electronics	94V-0 Plastic	interpolated
PCA Assy	U41 007 280	Shirai Electronics	94V-0 Plastic	**UUT-19 and UUT-20**

PCA Power

Description	*Part Number*	*Manufacturer*	*Material*	*Interpolated / Included With Test*
PCA Power	U41 001 281	Shirai Electronics	94V-0 Plastic	**UUT-19**
PCA Power	U41 002 281	Shirai Electronics	94V-0 Plastic	interpolated
PCA Power	U41 003 281	Shirai Electronics	94V-0 Plastic	**UUT-20**

Table 2. Certified Sub-Component List

BC Controllers (S_{DS} = 2.00g, z/h = 1.00, F_p/W_p = 1.500)

Certification level is limited to the lower rating (SDS and z/h) of either the Certified Component Tables as listed, or the internal subcomponents as listed on the Certified Submcomponent Tables.

Linear Expansion Valve				
Description	***Part Number***	***Manufacturer***	***Material***	***Interpolated / Included With Test***
Linear Expansion Valve	R61 008 401	Mitsubishi Electric	Brass	**UUT-12**
Linear Expansion Valve	R63 R23 401	Mitsubishi Electric	Brass	**UUT-9**

Solenoid Valve Coil				
Description	***Part Number***	***Manufacturer***	***Material***	***Interpolated / Included With Test***
Solenoid Valve Coil	R61 2A1 243	Fujikoki Corp.	Copper	**UUT-9, UUT-12**

Solenoid Valve				
Description	***Part Number***	***Manufacturer***	***Material***	***Interpolated / Included With Test***
Solenoid Valve	R63 4F3 232	Fujikoki Corp.	Brass	**UUT-9, UUT-12**
Solenoid Valve	R63 Y07 232	Fujikoki Corp.	Brass	**UUT-9, UUT-12**

Control Board				
Description	***Part Number***	***Manufacturer***	***Material***	***Interpolated / Included With Test***
Control Board	R63 044 280	Shikibo Electric	94V-0 Plastic	**UUT-9, UUT-12**

Relay Board Assy				
Description	***Part Number***	***Manufacturer***	***Material***	***Interpolated / Included With Test***
Relay Board Assy	R63 M82 280	Shikibo Electric	94V-0 Plastic	**UUT-9, UUT-12**

Table 2. Certified Sub-Component List

Outdoor Heat Pump - (P-Series)

Certification level is limited to the lower rating (SDS and z/h) of either the Certified Component Tables as listed, or the internal subcomponents as listed on the Certified Submcomponent Tables.

Heat Exchanger						
Description	***Part Number***	***Manufacturer***	***Material***	***Interpolated / Included With Test***	S_{DS} (g)	F_p / W_p
PUY & PUZ - Single Fan						
Heat Exchanger	R01 H33 408	Mitsubishi Electric	Copper & Aluminum	**UUT-11**	2.00	1.500
Heat Exchanger	T7W E57 408	Mitsubishi Electric	Copper & Aluminum	interpolated	2.00	1.500
Heat Exchanger	T7W E59 408	Mitsubishi Electric	Copper & Aluminum	interpolated	2.00	1.500
Heat Exchanger	T7W E60 408	Mitsubishi Electric	Copper & Aluminum	**UUT-4**	2.00	1.500
PUY & PUZ - Double Fan						
Heat Exchanger	R01 H01 408	Mitsubishi Electric	Copper & Aluminum	interpolated	2.00	1.500
Heat Exchanger	T7W E61 408	Mitsubishi Electric	Copper & Aluminum	interpolated	2.00	1.500
PUMY-P36 to P48 - Double Fan						
Heat Exchanger	T7W E41 408	Mitsubishi Electric	Copper & Aluminum	**UUT-5**	2.00	1.500
PUMY-P60 - Double Fan						
Heat Exchanger	R01 H37 408	Mitsubishi Electric	Copper & Aluminum	**UUT-27**	1.34	1.005

Compressor						
Description	***Part Number***	***Manufacturer***	***Material***	***Interpolated / Included With Test***	S_{DS} (g)	F_p / W_p
PUY & PUZ - Single Fan						
Compressor	T92 577 280	Siam Compressor	Carbon Steel	**UUT-11**	2.00	1.500
Compressor	T92 508 801	Siam Compressor	Carbon Steel	**UUT-4**	2.00	1.500
PUY & PUZ - Double Fan						
Compressor	T97 415 790	Siam Compressor	Carbon Steel	interpolated	2.00	1.500
Compressor	T92 415 767	Siam Compressor	Carbon Steel	interpolated	2.00	1.500
PUMY-P36 to P48 - Double Fan						
Compressor	T97 415 779	Siam Compressor	Carbon Steel	**UUT-5**	2.00	1.500
PUMY-P60 - Double Fan						
Compressor	T97 415 789	Siam Compressor	Carbon Steel	**UUT-27**	1.34	1.005

Fan Motor						
Description	***Part Number***	***Manufacturer***	***Material***	***Interpolated / Included With Test***	S_{DS} (g)	F_p / W_p
PUY & PUZ - Single Fan						
Fan Motor	R01 E52 221	Panasonic Corporation	Carbon Steel	**UUT-11**	2.00	1.500
Fan Motor	T7W E27 763	Panasonic Corporation	Carbon Steel	**UUT-4**	2.00	1.500
PUY & PUZ - Double Fan						
Fan Motor	T7W E27 763	Panasonic Corporation	Carbon Steel	interpolated	2.00	1.500
Fan Motor	R01 E57 221	Panasonic Corporation	Carbon Steel	interpolated	2.00	1.500
PUMY-P36 to P48 - Double Fan						
Fan Motor	R01 E57 221	Panasonic Corporation	Carbon Steel	**UUT-5**	2.00	1.500
PUMY-P60 - Double Fan						
Fan Motor	R01 E46 221	Panasonic Corporation	Carbon Steel	**UUT-27**	1.34	1.005

Printed Circuit Board						
Description	***Part Number***	***Manufacturer***	***Material***	***Interpolated / Included With Test***	S_{DS} (g)	F_p / W_p
PUY & PUZ - Single Fan						
Control Board	T7W F22 315	Shin-Asahi Electric	94V-0 Plastic	**UUT-11**	2.00	1.500
Control Board	T7W F00 315	Shin-Asahi Electric	94V-0 Plastic	**UUT-4**	2.00	1.500
PUY & PUZ - Double Fan						
Control Board	T7W F07 315	Shin-Asahi Electric	94V-0 Plastic	interpolated	2.00	1.500
Control Board	T7W F14 315	Shin-Asahi Electric	94V-0 Plastic	interpolated	2.00	1.500
PUMY-P36 to P48 - Double Fan						
Control Board	T7W F23 315	Shin-Asahi Electric	94V-0 Plastic	**UUT-5**	2.00	1.500
PUMY-P60 - Double Fan						
Control Board	T7W F23 315	Shin-Asahi Electric	94V-0 Plastic	**UUT-27**	1.34	1.005

Table 2. Certified Sub-Component List cont

Outdoor Heat Pump - (P-Series) cont

Certification level is limited to the lower rating (SDS and z/h) of either the Certified Component Tables as listed, or the internal subcomponents as listed on the Certified Submcomponent Tables.

Inverter Board						
Description	***Part Number***	***Manufacturer***	***Material***	***Interpolated / Included With Test***	S_{DS} **(g)**	F_p / W_p
PUY & PUZ - Single Fan						
Inverter Board	T7W E80 315	Shin-Asahi Electric	94V-0 Plastic	**UUT-11**	2.00	1.500
Inverter Board	T7W E39 313	Shin-Asahi Electric	94V-0 Plastic	**UUT-4**	2.00	1.500
PUY & PUZ and PUMY-P36 to P48 - Double Fan						
Inverter Board	R01 E72 313	Shin-Asahi Electric	94V-0 Plastic	**UUT-5**	2.00	1.500
PUMY-P60 - Double Fan						
Inverter Board	R01 E72 313	Shin-Asahi Electric	94V-0 Plastic	**UUT-27**	1.34	1.005

M-Net Board						
Description	***Part Number***	***Manufacturer***	***Material***	***Interpolated / Included With Test***	S_{DS} **(g)**	F_p / W_p
PUMY-P36 to P48 - Double Fan						
M-Net Board	R04 311	Kyosha Co., Ltd	94V-0 Plastic	**UUT-5**	2.00	1.500
PUMY-P60 - Double Fan						
M-Net Board	R01 E04	Kyosha Co., Ltd	94V-0 Plastic	**UUT-27**	1.34	1.005

Reversing Valve						
Description	***Part Number***	***Manufacturer***	***Material***	***Interpolated / Included With Test***	S_{DS} **(g)**	F_p / W_p
PUZ - Single Fan						
Reversing Valve	R01 E28 403	Saginomiya	Brass	**UUT-4**	2.00	1.500
PUY & PUZ and PUMY-P36 to P48 - Double Fan						
Reversing Valve	R01 E36 403	Fujikoki	Brass	**UUT-5**	2.00	1.500
PUMY-P60 - Double Fan						
Reversing Valve	R01 E36 403	Fujikoki	Brass	**UUT-27**	1.34	1.005

Accumulator						
Description	***Part Number***	***Manufacturer***	***Material***	***Interpolated / Included With Test***	S_{DS} **(g)**	F_p / W_p
PUZ - Single Fan						
Accumulator	T7W E22 440	Mitsubishi Electric	Carbon Steel	**UUT-11**	2.00	1.500
Accumulator	R01 E57 440	Mitsubishi Electric	Carbon Steel	**UUT-4**	2.00	1.500
PUY & PUZ - Double Fan						
Accumulator	R01 E58 440	Mitsubishi Electric	Carbon Steel	interpolated	2.00	1.500
Accumulator	R01 E60 440	Mitsubishi Electric	Carbon Steel	interpolated	2.00	1.500
PUMY-P36 to P48 - Double Fan						
Accumulator	R01 E44 440	Mitsubishi Electric	Carbon Steel	**UUT-5**	2.00	1.500
PUMY-P60 - Double Fan						
Accumulator	R01 E67 440	Mitsubishi Electric	Carbon Steel	**UUT-27**	1.34	1.005

Table 2. Certified Sub-Component List

PQRY (Outdoor Heat Recovery Heat Pump - water source) (S_{DS} = 2.00g, z/h = 1.00, F_p/W_p = 1.500)

PQHY (Outdoor Heat Pump - water source) (S_{DS} = 2.00g, z/h = 1.00, F_p/W_p = 1.500)

Certification level is limited to the lower rating (SDS and z/h) of either the Certified Component Tables as listed, or the internal subcomponents as listed on the Certified Submcomponent Tables.

Compressor

Description	*Part Number*	*Manufacturer*	*Material*	*Interpolated / Included With Test*
Scroll Compressor	R69 130 478	Mitsubishi Electric	Carbon Steel	**UUT-24**
Scroll Compressor	R69 103 478	Mitsubishi Electric	Carbon Steel	interpolated
Scroll Compressor	R69 125 478	Mitsubishi Electric	Carbon Steel	interpolated
Scroll Compressor	R69 118 478	Mitsubishi Electric	Carbon Steel	interpolated
Scroll Compressor	R69 135 478	Mitsubishi Electric	Carbon Steel	interpolated
Scroll Compressor	R69 133 478	Mitsubishi Electric	Carbon Steel	**UUT-25**

Accumulator

Description	*Part Number*	*Manufacturer*	*Material*	*Interpolated / Included With Test*
Accumulator assy.	R61 127 484	Meiwa Co. Ltd.	Carbon Steel	**UUT-24**
Accumulator assy.	R61 125 484	Meiwa Co. Ltd.	Carbon Steel	**UUT-25**

Heat Exchanger

Description	*Part Number*	*Manufacturer*	*Material*	*Interpolated / Included With Test*
Heat Exchanger	R61 987 480	Alfa Laval Inc.	Copper & Aluminum	**UUT-24**
Heat Exchanger	R61 990 480	Alfa Laval Inc.	Copper & Aluminum	interpolated
Heat Exchanger	R61 A02 480	Alfa Laval Inc.	Copper & Aluminum	interpolated
Heat Exchanger	R61 991 480	Alfa Laval Inc.	Copper & Aluminum	**UUT-25**

INV Heat Exchanger

Description	*Part Number*	*Manufacturer*	*Material*	*Interpolated / Included With Test*
INV Heat Exchanger	R61 928 480	Mitsubishi Electric	Copper & Aluminum	**UUT-24 and UUT-25**

Four Way Valve

Description	*Part Number*	*Manufacturer*	*Material*	*Interpolated / Included With Test*
Four Way Valve	R61 013 403	Saginomiya	Brass	**UUT-24 and UUT-25**

Control Board

Description	*Part Number*	*Manufacturer*	*Material*	*Interpolated / Included With Test*
Control Board	R61 358 280	Shin-Asahi Electric	94V-0 Plastic	**UUT-24**
Control Board	R61 371 280	Shin-Asahi Electric	94V-0 Plastic	interpolated
Control Board	R61 339 280	Shin-Asahi Electric	94V-0 Plastic	interpolated
Control Board	R61 340 280	Shin-Asahi Electric	94V-0 Plastic	**UUT-25**

INV Board

Description	*Part Number*	*Manufacturer*	*Material*	*Interpolated / Included With Test*
INV Board	R61 353 280	Shin-Asahi Electric	94V-0 Plastic	**UUT-24**
INV Board	R61 355 280	Shin-Asahi Electric	94V-0 Plastic	interpolated
INV Board	R61 188 280	Shin-Asahi Electric	94V-0 Plastic	interpolated
INV Board	R61 341 280	Shin-Asahi Electric	94V-0 Plastic	interpolated
INV Board	R61 385 280	Shin-Asahi Electric	94V-0 Plastic	interpolated
INV Board	R61 372 280	Shin-Asahi Electric	94V-0 Plastic	**UUT-25**

Table 2. Certified Sub-Component List

PUHY (Outdoor Heat Pump - air source) and PURY (Outdoor Heat Recovery Heat Pump - air source) (S_{DS} = 2.50g, z/h = 1.00, F_p/W_p = 1.875)

Certification level is limited to the lower rating (SDS and z/h) of either the Certified Component Tables as listed, or the internal subcomponents as listed on the Certified Submcomponent Tables.

Compressor

Description	*Part Number*	*Manufacturer*	*Material*	*Interpolated / Included With Test*
Scroll Compressor	R69 126 478	Mitsubishi Electric	Carbon Steel	**UUT-22**
Scroll Compressor	R69 130 478	Mitsubishi Electric	Carbon Steel	interpolated
Scroll Compressor	R69 127 478	Mitsubishi Electric	Carbon Steel	interpolated
Scroll Compressor	R69 103 478	Mitsubishi Electric	Carbon Steel	interpolated
Scroll Compressor	R69 128 478	Mitsubishi Electric	Carbon Steel	interpolated
Scroll Compressor	R69 129 478	Mitsubishi Electric	Carbon Steel	interpolated
Scroll Compressor	R69 125 478	Mitsubishi Electric	Carbon Steel	interpolated
Scroll Compressor	R69 118 478	Mitsubishi Electric	Carbon Steel	**UUT-23**

Heat Exchanger

Description	*Part Number*	*Manufacturer*	*Material*	*Interpolated / Included With Test*
Heat Exchanger assy.	R61 929 480	Mitsubishi Electric	Copper & Aluminum	**UUT-22**
Heat Exchanger assy.	R61 930 480	Mitsubishi Electric	Copper & Aluminum	interpolated
Heat Exchanger assy.	R61 931 480	Mitsubishi Electric	Copper & Aluminum	interpolated
Heat Exchanger assy.	R61 933 480	Mitsubishi Electric	Copper & Aluminum	interpolated
Heat Exchanger assy.	R61 935 480	Mitsubishi Electric	Copper & Aluminum	interpolated
Heat Exchanger assy.	R61 936 480	Mitsubishi Electric	Copper & Aluminum	interpolated
Heat Exchanger assy.	R61 937 480	Mitsubishi Electric	Copper & Aluminum	**UUT-23**
Heat Exchanger assy.	R61 939 480	Mitsubishi Electric	Copper & Aluminum	**UUT-23**

Fan Motor

Description	*Part Number*	*Manufacturer*	*Material*	*Interpolated / Included With Test*
Fan Motor	R61 267 220	Nidec TECNO Motor	Carbon steel	**UUT-22**
Fan Motor	R61 268 220	Nidec TECNO Motor	Carbon steel	**UUT-23**

Accumulator

Description	*Part Number*	*Manufacturer*	*Material*	*Interpolated / Included With Test*
Accumulator	R61 041 484	Meiwa Co. Ltd.	Carbon Steel	**UUT-22**
Accumulator	R61 091 484	Meiwa Co. Ltd.	Carbon Steel	interpolated
Accumulator	R61 037 484	Meiwa Co. Ltd.	Carbon Steel	interpolated
Accumulator	R61 089 484	Meiwa Co. Ltd.	Carbon Steel	**UUT-23**

Reversing Valve

Description	*Part Number*	*Manufacturer*	*Material*	*Interpolated / Included With Test*
Reversing Valve	R61 013 403	Saginomiya	Brass	**UUT-22 and UUT-23**

Control Board

Description	*Part Number*	*Manufacturer*	*Material*	*Interpolated / Included With Test*
PC Board Matl.	R61 342 280	Shin-Asahi Electric	94V-0 Plastic	**UUT-22**
PC Board Matl.	R61 347 280	Shin-Asahi Electric	94V-0 Plastic	interpolated
PC Board Matl.	R61 352 280	Shin-Asahi Electric	94V-0 Plastic	interpolated
PC Board Matl.	R61 354 280	Shin-Asahi Electric	94V-0 Plastic	**UUT-23**

UUT-1 Test Summary

Testing Lab: QualTech NP
Testing Report: Q0028.00
Testing Unit Num: Q0028-01-01-01

Model Number	*Tonnage*	Operating Weight (lbs)	*Mounting*	*Excitation Direction*		*Frequency* (Hz)*	Length (in)	Width (in)	Height (in)
PEFY-P96-NMHU-E	8.0	221	Ceiling Mounted	X	Front - Back	N/A	44 1/8	49 1/4	18 9/16
				Y	Side - Side	N/A			
				Z	Vertical	N/A			

* Frequencies are for units prior to ICC ES AC-156 testing.
Model Number is based on nomenclautre from the 2014 Catalog

Attachment Method: Suspended with 3/8"Ø hanger rods and (2) 1/8"Ø cable braces per corner (8 total).

Seismic Parameters

Building Code	Test Criteria	S_{DS} (g)	z/h	Horizontal (g)		Vertical (g)	
				A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
CBC 2016	AC 156	2.00	1.0	3.20	2.40	1.33	0.53

Notes: The UUTs were full of contents during the test.
Unit maintained structural integrity and remained functional per manufacture requirements after shake table test

UUT-1 Summary Tested Sub-Component

Sub-Component	*Part Number*	*Manufacturer*	*Material*
Heat Exchanger	R61 Y38 483	Mitsubishi Electric	Copper &Aluminum
Fan Motor	R61 Y47 221	Nidec Shibaura Co.	Carbon Steel
PCA Power	R61 181 280	Shirai Electronic Co. Ltd.	94V-0 Plastic

UUT-3 Test Summary

Testing Lab: QualTech NP
Testing Report: Q0028.00
Testing Unit Num: Q0028-03-01-01

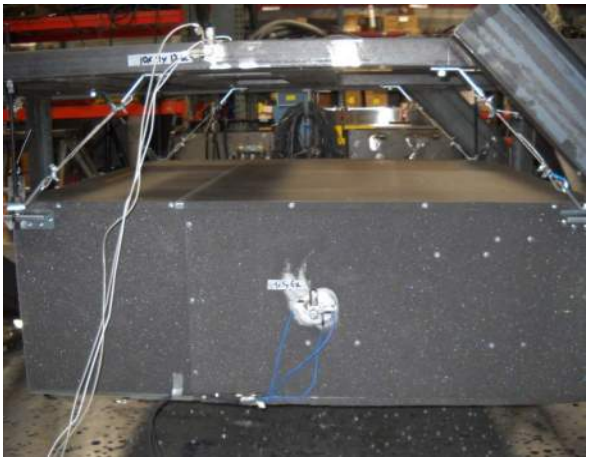
Model Number	Tonnage	Operating Weight (lbs)	Mounting	Excitation Direction		Frequency* (Hz)	Length (in)	Width (in)	Height (in)
PEFY-AF1200CFMR	9.3	309	Ceiling Mounted	X	Front - Back	N/A	55 1/8	49 1/4	18 9/16
				Y	Side - Side	N/A			
				Z	Vertical	N/A			

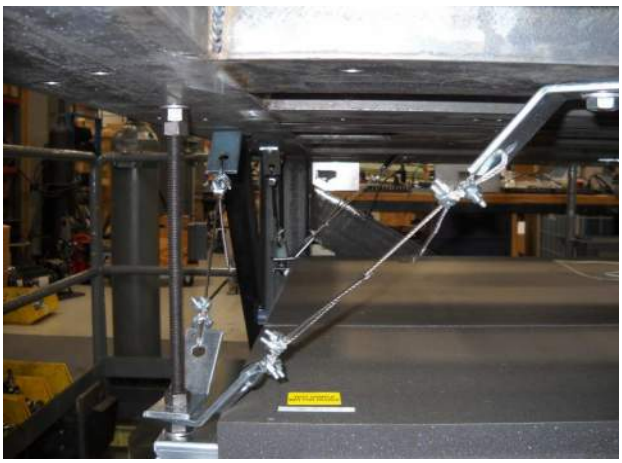
* Frequencies are for units prior to ICC ES AC-156 testing.
Model Number is based on nomenclautre from the 2014 Catalog

Attachment Method: Suspended with 1/2"Ø hanger rods and (2) 1/8"Ø cable braces per corner (8 total).

Seismic Parameters

Building Code	Test Criteria	S_{DS} (g)	z/h	Horizontal (g)		Vertical (g)	
				A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
CBC 2016	AC 156	2.00	1.0	3.20	2.40	1.33	0.53





Notes: The UUTs were full of contents during the test.
Unit maintained structural integrity and remained functional per manufacture requirements after shake table tes

UUT-3 Summary Tested Sub-Component

Sub-Component	Part Number	Manufacturer	Material
Heat Exchanger	R61 326 480	Mitsubishi Electric	Copper & Aluminum
Heat Exchanger Re-heat	R61 327 480	Mitsubishi Electric	Copper & Aluminum
Fan Motor	R61 205 220	SANSO Electric Co.	Carbon Steel
Line-Flow Fan	R61 022 114	Sirocco	Carbon Steel
Line-Flow Fan	R61 023 114	Sirocco	Carbon Steel
PCA Board	R61 226 280	Shirai Electronic Co. Ltd.	94V-0 Plastic

UUT-4 Test Summary

Testing Lab: QualTech NP
Testing Report: Q0028.00
Testing Unit Num: Q0028-04-01-01

Model Number	*Tonnage*	Operating Weight (lbs)	*Mounting*	*Excitation Direction*		*Frequency* (Hz)*	Length (in)	Width (in)	Height (in)
PUZ-A36NHA3	3.0	165	Base Mounted	X	Front - Back	6.7	13	37 3/8	37 1/8
				Y	Side - Side	>33.3			
				Z	Vertical	>33.3			

* Frequencies are for unit interpolated
Model Number is based on nomenclautre from the 2014 Catalog

Attachment Method: Rigid base mounted with (4) 3/8"Ø SAE grade 5 bolts.

Seismic Parameters

Building Code	Test Criteria	S_{DS} (g)	z/h	Horizontal (g)		Vertical (g)	
				A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
CBC 2016	AC 156	2.00	1.0	3.20	2.40	1.33	0.53

Notes: The UUTs were full of contents during the test.
Unit maintained structural integrity and remained functional per manufacture requirements after shake table tes

UUT-4 Summary Tested Sub-Component

Sub-Component	*Part Number*	*Manufacturer*	*Material*
Heat Exchanger	T7W E60 408	Mitsubishi Electric	Copper & Aluminum
Compressor	T92 508 801	Siam Compressor	Carbon Steel
Fan Motor	T7W E27 763	Panasonic Corp.	Carbon Steel
Control Board	T7W F00 315	Shin-Asahi Electric	94V-0 Plastic
Inverter Board	T7W E39 313	Shin-Asahi Electric	94V-0 Plastic
Reversing Valve	R01 E28 403	Saginomiya	Brass
Accumulator	R01 E57 440	Mitsubishi Electric	Carbon Steel

UUT-5 Test Summary

Testing Lab: QualTech NP
Testing Report: Q0028.00
Testing Unit Num: Q0028-05-01-01

Model Number	Tonnage	Operating Weight (lbs)	Mounting	Excitation Direction		Frequency* (Hz)	Length (in)	Width (in)	Height (in)
PUMY-P48NHMU	4.0	287	Base Mounted	X	Front - Back	3.7	13	37 7/16	53 3/16
				Y	Side - Side	6.2			
				Z	Vertical	>33.3			

* Frequencies are for units prior to ICC ES AC-156 testing.
Model Number is based on nomenclautre from the 2014 Catalog

Attachment Method: Rigid base mounted with (4) 3/8"Ø SAE grade 5 bolts.

Seismic Parameters							
Building Code	Test Criteria	S_{DS} (g)	z/h	Horizontal (g)		Vertical (g)	
				A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
CBC 2016	AC 156	2.00	1.0	3.20	2.40	1.33	0.53

Notes: The UUTs were full of contents during the test.
Unit maintained structural integrity and remained functional per manufacture requirements after shake table tes

UUT-5 Summary Tested Sub-Component

Sub-Component	Part Number	Manufacturer	Material
Heat Exchanger	T7W E41 408	Mitsubishi Electric	Copper & Alumninum
Compressor	T97 415 779	Siam Compressor	Carbon Steel
Fan Motor (2)	R01 E57 221	Panasonic Corp.	Carbon Steel
Control Board	T7W F23 315	Shin-Asahi Electric	94V-0 Plastic
Inverter Board	R01 E72 313	Shin-Asahi Electric	94V-0 Plastic
M-Net Board	R04 311	Kyosha Co.	94V-0 Plastic
Reversing Valve	R01 E36 403	Fujioka Corp	Brass
Accumulator	R01 E44 440	Mitsubishi Electric	Carbon Steel

UUT-6 Test Summary

Testing Lab: QualTech NP
Testing Report: Q0028.00
Testing Unit Num: Q0028-06-01-01

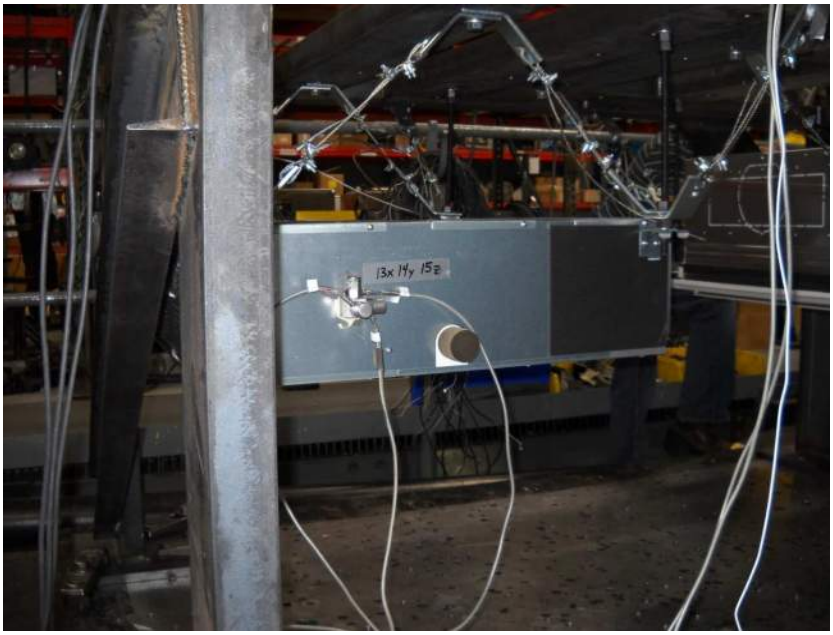
Model Number	*Tonnage*	*Operating Weight (lbs)*	*Mounting*	*Excitation Direction*		*Frequency* (Hz)*	Length (in)	Width (in)	Height (in)
PEFY-P06NMSU-E	0.5	42	Ceiling Mounted	X	Front - Back	N/A	27 9/16	31 1/8	7 7/8
				Y	Side - Side	N/A			
				Z	Vertical	N/A			

* Frequencies are for units prior to ICC ES AC-156 testing.
Model Number is based on nomenclautre from the 2014 Catalog

Attachment Method: Suspended with 1/2"Ø hanger rods and (2) 1/8"Ø cable braces per corner (8 total).

Seismic Parameters

Building Code	Test Criteria	S_{DS} (g)	z/h	Horizontal (g)		Vertical (g)	
				A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
CBC 2016	AC 156	2.00	1.0	3.20	2.40	1.33	0.53



Notes: The UUTs were full of contents during the test.
Unit maintained structural integrity and remained functional per manufacture requirements after shake table tes

UUT-6 Summary Tested Sub-Component

Sub-Component	*Part Number*	*Manufacturer*	*Material*
Heat Exchanger	E17 402 620	Mitsubishi Electric	Copper & Aluminum
Fan Motor	E17 319 300	Nidec Shibaura Co.	Carbon Steel
PCA Control	E17 472 447	Shirai Electronic Co. Ltd.	94V-0 Plastic

UUT-7 Test Summary

Testing Lab: QualTech NP
Testing Report: Q0028.00
Testing Unit Num: Q0028-07-01-01

Model Number	Tonnage	Operating Weight (lbs)	Mounting	Excitation Direction		Frequency* (Hz)	Length (in)	Width (in)	Height (in)
PLFY-P12NBMU-E	1.0	49	Ceiling Mounted	X	Front - Back	N/A	33 3/32	33 3/32	10 3/16
				Y	Side - Side	N/A			
				Z	Vertical	N/A			

* Frequencies are for units prior to ICC ES AC-156 testing.
Model Number is based on nomenclautre from the 2014 Catalog

Attachment Method: Suspended with 3/8"Ø hanger rods and (2) 1/8"Ø cable braces per corner (8 total).

Seismic Parameters							
Building Code	Test Criteria	S_{DS} (g)	z/h	Horizontal (g)		Vertical (g)	
				A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
CBC 2016	AC 156	2.00	1.0	3.20	2.40	1.33	0.53

Notes: The UUTs were full of contents during the test.
Unit maintained structural integrity and remained functional per manufacture requirements after shake table tes

UUT-7 Summary Tested Sub-Component

Sub-Component	Part Number	Manufacturer	Material
Heat Exchanger	R01 N00 480	Mitsubishi Electric	Copper & Aluminum
Fan Motor	R01 E59 220	Panasonic Corporation	Carbon Steel
Turbo Fan	R01 E39 114	Toray Industries Inc.	Styrene Acrylonitrite
Control Board	T7W C03 310	Shin-Asahi	94V-0 Plastic
Condensate Pump	T7W E14 355	Fujikoki Corporation	ABS Plastic

UUT-9 Test Summary

Testing Lab: QualTech NP
Testing Report: Q0028.00
Testing Unit Num: Q0028-09-01-01

Model Number	*Tonnage*	*Operating Weight (lbs)*	*Mounting*	*Excitation Direction*		*Frequency* (Hz)*	Length (in)	Width (in)	Height (in)
CMB-P105NU-G	15.8	72	Ceiling Mounted	X	Front - Back	N/A	17 1/32	25 17/32	11 3/16
				Y	Side - Side	N/A			
				Z	Vertical	N/A			

* Frequencies are for units prior to ICC ES AC-156 testing.
Model Number is based on nomenclautre from the 2014 Catalog

Attachment Method: Suspended with 1/2"Ø hanger rods and (2) 1/8"Ø cable braces per corner (8 total).

Seismic Parameters

Building Code	Test Criteria	S_{DS} (g)	z/h	Horizontal (g)		Vertical (g)	
				A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
CBC 2016	AC 156	2.00	1.0	3.20	2.40	1.33	0.53

Notes: The UUTs were full of contents during the test.
Unit maintained structural integrity and remained functional per manufacture requirements after shake table tes

UUT-9 Summary Tested Sub-Component

Sub-Component	*Part Number*	*Manufacturer*	*Material*
Linear Expansion Valve	R63 R23 401	Mitsubishi Electric	Brass
Solenoid Valve Coil	R61 2A1 243	Fujikoki Corp	Copper
Solenoid Valve	R63 4F3 232	Fujikoki Corp	Brass
Solenoid Valve	R63 Y07 232	Fujikoki Corp	Brass
Control Board	R63 044 280	Shikibo Electric	94V-0 Plastic
Relay Board Assy	R63 M82 280	Shikibo Electric	94V-0 Plastic

UUT-10 Test Summary

Testing Lab: QualTech NP
Testing Report: Q0028.00
Testing Unit Num: Q0028-10-01-01

Model Number	*Tonnage*	*Operating Weight (lbs)*	*Mounting*	*Excitation Direction*		*Frequency* (Hz)*	*Length (in)*	*Width (in)*	*Height (in)*
PLA-A42BA	3.5	55	Ceiling Mounted	X	Front - Back	N/A	33 1/16	33 1/16	11 3/4
				Y	Side - Side	N/A			
				Z	Vertical	N/A			

* Frequencies are for units prior to ICC ES AC-156 testing.
Model Number is based on nomenclautre from the 2014 Catalog

Attachment Method: Suspended with 3/8"Ø hanger rods and (2) 1/8"Ø cable braces per corner (8 total).

Seismic Parameters

Building Code	Test Criteria	S_{DS} (g)	z/h	Horizontal (g)		Vertical (g)	
				A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
CBC 2016	AC 156	2.00	1.0	3.20	2.40	1.33	0.53

Notes: The UUTs were full of contents during the test.
Unit maintained structural integrity and remained functional per manufacture requirements after shake table tes

UUT-10 Summary Tested Sub-Component

Sub-Component	*Part Number*	*Manufacturer*	*Material*
Heat Exchanger	R01 AE3 480	Mitsubishi Electric	Copper & Aluminum
Fan Motor	R01 E66 220	Panasonic Corporation	Carbon Steel
Turbo Fan	R01 E34 114	Toray Industries Inc.	Styrene Acrylonitrite
Control Board	T7W C19 310	Shin-Asahi	94V-0 Plastic
Condensate Pump	T7W E14 355	Fujikoki Corporation	ABS Plastic

UUT-11 Test Summary

Testing Lab: QualTech NP
Testing Report: Q0028.00
Testing Unit Num: Q0028-11-01-01

Model Number	*Tonnage*	Operating Weight (lbs)	*Mounting*	*Excitation Direction*		*Frequency* (Hz)*	Length (in)	Width (in)	Height (in)
PUY-A12NHA3	1.0	90	Base Mounted	X	Front - Back	16.5	11 13/16	31 1/2	23 5/8
				Y	Side - Side	18.6			
				Z	Vertical	>33.3			

* Frequencies are for units prior to ICC ES AC-156 testing.
Model Number is based on nomenclautre from the 2014 Catalog

Attachment Method: Rigid base mounted with (4) 3/8"Ø SAE grade 5 bolts.

Seismic Parameters

Building Code	Test Criteria	S_{DS} (g)	z/h	Horizontal (g)		Vertical (g)	
				A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
CBC 2016	AC 156	2.00	1.0	3.20	2.40	1.33	0.53

Notes: The UUTs were full of contents during the test.
Unit maintained structural integrity and remained functional per manufacture requirements after shake table tes

UUT-11 Summary Tested Sub-Component

Sub-Component	*Part Number*	*Manufacturer*	*Material*
Heat Exchanger	R01 H33 408	Mitsubishi Electric	Copper & Aluminum
Compressor	T92 577 280	Siam Compressor	Carbon Steel
Fan Motor	R01 E52 221	Panasonic Corp.	Carbon Steel
Control Board	T7W F22 315	Shin-Asahi Electric	94V-0 Plastic
Inverter board	T7W E80 315	Shin-Asahi Electric	94V-0 Plastic
Accumulator	T7W E22 440	Mitsubishi Electric	Carbon Steel

UUT-12 Test Summary

Testing Lab: QualTech NP
Testing Report: Q0028.00
Testing Unit Num: Q0028-12-01-01

Model Number	*Tonnage*	*Operating Weight (lbs)*	*Mounting*	*Excitation Direction*		*Frequency* (Hz)*	Length (in)	Width (in)	Height (in)
CMB-P1016NU-HA	36.0	162	Ceiling Mounted	X	Front - Back	N/A	20 1/2	43 3/4	11 7/16
				Y	Side - Side	N/A			
				Z	Vertical	N/A			

* Frequencies are for units prior to ICC ES AC-156 testing.
Model Number is based on nomenclautre from the 2014 Catalog

Attachment Method: Suspended with 1/2"Ø hanger rods and (2) 1/8"Ø cable braces per corner (8 total).

Seismic Parameters

Building Code	Test Criteria	S_{DS} (g)	z/h	Horizontal (g)		Vertical (g)	
				A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
CBC 2016	AC 156	2.00	1.0	3.20	2.40	1.33	0.53

Notes: The UUTs were full of contents during the test.
Unit maintained structural integrity and remained functional per manufacture requirements after shake table tes

UUT-12 Summary Tested Sub-Component

Sub-Component	*Part Number*	*Manufacturer*	*Material*
Linear Expansion Valve	R61 008 401	Mitsubishi Electric	Brass
Solenoid Valve Coil	R61 2A1 243	Fujikoki Corp.	Copper
Solenoid Valve	R63 4F3 232	Fujikoki Corp.	Brass
Solenoid Valve	R63 Y07 232	Fujikoki Corp.	Brass
Control Board	R63 044 280	Shikibo Electric	94V-0 Plastic
Relay Board Assy	R63 M82 280	Shikibo Electric	94V-0 Plastic

UUT-13 Test Summary

Testing Lab: QualTech NP
Testing Report: Q0028.00
Testing Unit Num: Q0028-13-01-01

Model Number	Tonnage	Operating Weight (lbs)	Mounting	Excitation Direction		Frequency* (Hz)	Length (in)	Width (in)	Height (in)
PKA-A36KA	3.0	46	Wall Mounted	X	Front - Back	N/A	11 5/8	46 1/16	14 3/8
				Y	Side - Side	N/A			
				Z	Vertical	N/A			

* Frequencies are for units prior to ICC ES AC-156 testing.
Model Number is based on nomenclautre from the 2014 Catalog

Attachment Method: (5) #10 bolts secure units backing to wall. Unit clips into mfr provided backing plate.

Seismic Parameters

Building Code	Test Criteria	S_{DS} (g)	z/h	Horizontal (g)		Vertical (g)	
				A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
CBC 2016	AC 156	2.00	1.0	3.20	2.40	1.33	0.53

Notes: The UUTs were full of contents during the test.
Unit maintained structural integrity and remained functional per manufacture requirements after shake table tes

UUT-13 Summary Tested Sub-Component

Sub-Component	Part Number	Manufacturer	Material
Heat Exchanger	E17 522 620	Mitsubishi Electric	Copper & Aluminum
Fan Motor	E12 C92 300	Nidec Shibaura Co	Carbon Steel
Line-Flow Fan	E12 R79 302	Toray Industries	Styrene Acrylonitrite
Line-Flow Fan	E12 C92 302	Toray Industries	Styrene Acrylonitrite
Control PC Board	E17 D91 447	Shin-Asahi Electric	94V-0 Plastic

UUT-14 Test Summary

Testing Lab: QualTech NP
Testing Report: Q0028.00
Testing Unit Num: Q0028-14-01-01

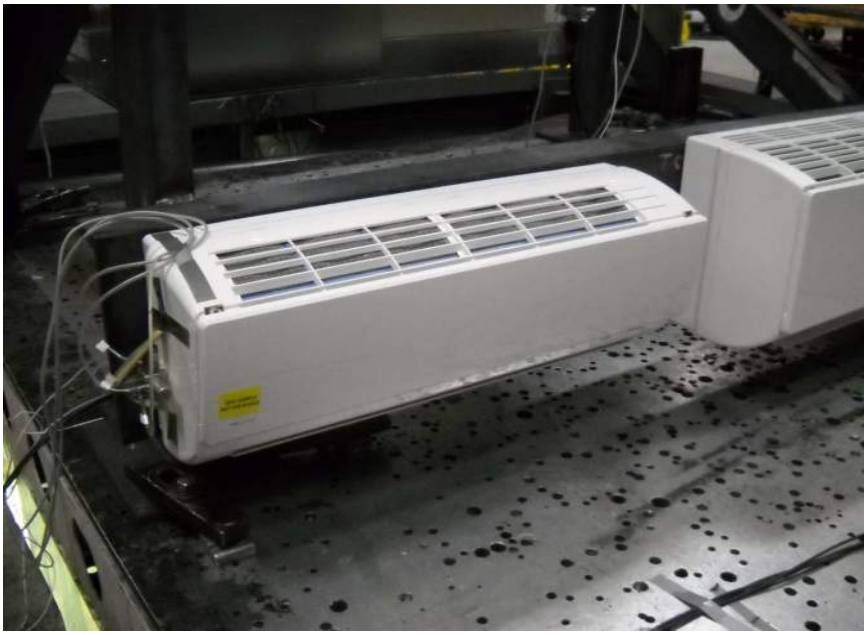
Model Number	*Tonnage*	*Operating Weight (lbs)*	*Mounting*	*Excitation Direction*		*Frequency* (Hz)*	Length (in)	Width (in)	Height (in)
PKFY-P06NBMU-E	0.5	22	Wall Mounted	X	Front - Back	N/A	8 7/8	32 1/8	11 5/8
				Y	Side - Side	N/A			
				Z	Vertical	N/A			

* Frequencies are for units prior to ICC ES AC-156 testing.
Model Number is based on nomenclautre from the 2014 Catalog

Attachment Method: (5) #10 bolts secure units backing to wall. Unit clips into mfr provided backing plate.

Seismic Parameters

Building Code	Test Criteria	S_{DS} (g)	z/h	Horizontal (g)		Vertical (g)	
				A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
CBC 2016	AC 156	2.00	1.0	3.20	2.40	1.33	0.53



Notes: The UUTs were full of contents during the test.
Unit maintained structural integrity and remained functional per manufacture requirements after shake table tes

UUT-14 Summary Tested Sub-Component

Sub-Component	*Part Number*	*Manufacturer*	*Material*
Heat Exchanger	R05 Y05 480	Mitsubishi Electric	Copper & Aluminum
Fan Motor	T7W E41 762	Nidec Shibaura Co	Carbon Steel
Line-Flow Fan	R01 23A 114	Toray Industries	Styrene Acrylonitrite
Power PC Board	T7W E37 313	Shin-Asahi Electric	94V-0 Plastic
Control PC Board	T7W E84 310	Shin-Asahi Electric	94V-0 Plastic

UUT-15 Test Summary

Testing Lab: QualTech NP
Testing Report: Q1619.00
Testing Unit Num: Q1619-01-01-01

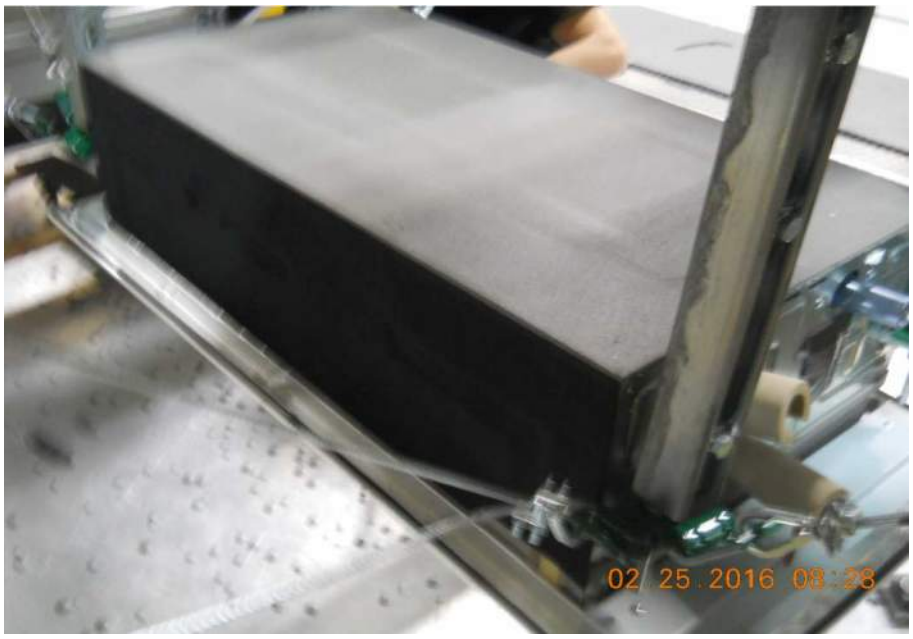
Model Number	*Tonnage*	*Operating Weight (lbs)*	*Mounting*	*Excitation Direction*		*Frequency* (Hz)*	*Length (in)*	*Width (in)*	*Height (in)*
PMFY-P06NBMU-E	0.5	41	Ceiling Mounted	X	Front - Back	N/A	31 31/32	15 9/16	9 1/16
				Y	Side - Side	N/A			
				Z	Vertical	N/A			

* Frequencies are for units prior to ICC ES AC-156 testing.
Model Number is based on nomenclautre from the 2014 Catalog

Attachment Method: Suspended with (4) - 3/8"Ø rods with stiffeners. Each corner has (2) 1/8"Ø cable braces (8 total).

Seismic Parameters

Building Code	Test Criteria	S_{DS} (g)	z/h	Horizontal (g)		Vertical (g)	
				A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
CBC 2016	AC 156	2.50	1.0	4.00	3.00	1.67	0.67



Notes: The UUTs were full of contents during the test.
Unit maintained structural integrity and remained functional per manufacture requirements after shake table test

UUT-15 Summary Tested Sub-Component

Sub-Component	*Part Number*	*Manufacturer*	*Material*
Heat Exchanger	T7W H08 480	Mitsubishi Electric	Copper & Aluminum
Line Flow Fan	R01 E32 114	Toray Industries	Styrene Acrylonitrite
Fan Motor	R01 E49 220	Panasonic Corporation	Carbon Steel
Condensate Pump	T7W E11 355	Saginomiya	ABS Plastic
Control Board	T7W C04 310	Shin-Asahi	94V-0 Plastic
Intake Grille	T7W E06 691	UMG ABS Ltd.	ABS, HB plastic

UUT-16 Test Summary

Testing Lab: QualTech NP
Testing Report: Q1619.00
Testing Unit Num: Q1619-02-01-01

Model Number	Tonnage	Operating Weight (lbs)	Mounting	Excitation Direction		Frequency* (Hz)	Length (in)	Width (in)	Height (in)
PMFY-P15NBMU-E	1.3	41	Ceiling Mounted	X	Front - Back	N/A	31 31/32	15 9/16	9 1/16
				Y	Side - Side	N/A			
				Z	Vertical	N/A			

* Frequencies are for units prior to ICC ES AC-156 testing.
Model Number is based on nomenclautre from the 2014 Catalog

Attachment Method: Suspended with (4) - 3/8"Ø rods with stiffeners. Each corner has (2) 1/8"Ø cable braces (8 total).

Seismic Parameters

Building Code	Test Criteria	S_{DS} (g)	z/h	Horizontal (g)		Vertical (g)	
				A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
CBC 2016	AC 156	2.50	1.0	4.00	3.00	1.67	0.67

Notes: The UUTs were full of contents during the test.
Unit maintained structural integrity and remained functional per manufacture requirements after shake table test

UUT-16 Summary Tested Sub-Component

Sub-Component	Part Number	Manufacturer	Material
Heat Exchanger	T7W H09 480	Mitsubishi Electric	Copper & Aluminum
Line Flow Fan	R01 E32 114	Toray Industries	Styrene Acrylonitrite
Fan Motor	R01 E49 220	Panasonic Corporation	Carbon Steel
Condensate Pump	T7W E11 355	Saginomiya	94V-0 Plastic
Control Board	T7W C04 310	Shin-Asahi	94V-0 Hard Plastic
Intake Grille	T7W E06 691	UMG ABS Ltd.	ABS, HB plastic

UUT-19 Test Summary

Testing Lab: QualTech NP
Testing Report: Q1619.00
Testing Unit Num: Q1619-05-01-01

Model Number	*Tonnage*	Operating Weight (lbs)	*Mounting*	*Excitation Direction*		*Frequency* (Hz)*	Length (in)	Width (in)	Height (in)
PVFY-P12NAMU-E	1.0	117	Ceiling Mounted	X	Front - Back	N/A	21 5/8	17	50 1/4
				Y	Side - Side	N/A			
				Z	Vertical	N/A			

* Frequencies are for units prior to ICC ES AC-156 testing.
Model Number is based on nomenclautre from the 2014 Catalog

Attachment Method: (1) P1000 Unistrut platform with P1356 fitting which is hung from (4) 3/8"Ø rods stiffeners. (2) 1/8"Ø cable braces each corner (8 total).

Seismic Parameters

Building Code	Test Criteria	S_{DS} (g)	z/h	Horizontal (g)		Vertical (g)	
				A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
CBC 2016	AC 156	2.50	1.0	4.00	3.00	1.67	0.67

Notes: The UUTs were full of contents during the test.
Unit maintained structural integrity and remained functional per manufacture requirements after shake table test

UUT-19 Summary Tested Sub-Component

Sub-Component	*Part Number*	*Manufacturer*	*Material*
Heat Exchanger	U41 011 480	Mitsubishi Electric	Copper & Aluminum
Fan Motor	U41 003 128	Nidec Shibaura Co.	Carbon Steel
Fan Case	U41 008 129	Mitsubishi Electric	Carbon Steel
PCA Assy	U41 007 280	Shirai Electronics	94V-0 Plastic
PCA Power	U41 001 281	Shirai Electronics	94V-0 Plastic

UUT-20 Test Summary

Testing Lab: QualTech NP
Testing Report: Q1619.00
Testing Unit Num: Q1619-06-01-01

Model Number	*Tonnage*	*Operating Weight (lbs)*	*Mounting*	*Excitation Direction*		*Frequency* (Hz)*	*Length (in)*	*Width (in)*	*Height (in)*
PVFY-P54NAMU-E	4.5	227	Ceiling Mounted	X	Front - Back	N/A	21 5/8	25	59 1/2
				Y	Side - Side	N/A			
				Z	Vertical	N/A			

* Frequencies are for units prior to ICC ES AC-156 testing.
Model Number is based on nomenclautre from the 2014 Catalog

Attachment Method: (1) P1000 Unistrut platform with P1356 fitting which is hung from (4) 3/8"Ø rods stiffeners. (2) 1/8"Ø cable braces each corner (8 total).

Seismic Parameters

Building Code	Test Criteria	S_{DS} (g)	z/h	Horizontal (g)		Vertical (g)	
				A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
CBC 2016	AC 156	2.50	1.0	4.00	3.00	1.67	0.67

Notes: The UUTs were full of contents during the test.
Unit maintained structural integrity and remained functional per manufacture requirements after shake table test

UUT-20 Summary Tested Sub-Component

Sub-Component	*Part Number*	*Manufacturer*	*Material*
Heat Exchanger	U41 014 480	Mitsubishi Electric	Copper & Aluminum
Fan Motor	U41 005 128	Nidec Shibaura Co.	Carbon Steel
Fan Case	U41 010 129	Mitsubishi Electric	Carbon Steel
PCA Assy	U41 007 280	Shirai Electronics	94V-0 Plastic
PCA Power	U41 003 281	Shirai Electronics	94V-0 Plastic

UUT-22 Test Summary

Testing Lab: QualTech NP
Testing Report: Q1619.00
Testing Unit Num: Q1619-08-01-01

Model Number	*Tonnage*	Operating Weight (lbs)	*Mounting*	*Excitation Direction*		*Frequency* (Hz)*	Length (in)	Width (in)	Height (in)
PUHY-P72TLMU-A	6.0	432	Base Mounted	X	Front - Back	6.8	29 5/32	36 1/4	64 31/32
				Y	Side - Side	>33.3			
				Z	Vertical	>33.3			

* Frequencies are for units prior to ICC ES AC-156 testing.
Model Number is based on nomenclautre from the 2014 Catalog

Attachment Method: Rigid base mounted with (4) 1/2"Ø ASTM A307 bolts

Seismic Parameters

Building Code	Test Criteria	S_{DS} (g)	z/h	Horizontal (g)		Vertical (g)	
				A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
CBC 2016	AC 156	2.50	1.0	4.00	3.00	1.67	0.67

Notes: The UUTs were full of contents during the test.
Unit maintained structural integrity and remained functional per manufacture requirements after shake table test

UUT-22 Summary Tested Sub-Component

Sub-Component	*Part Number*	*Manufacturer*	*Material*
Compressor	R69 126 478	Mitsubishi Electric	Cabon Steel
Heat Exhanger	R61 929 480	Mitsubishi Electric	Copper & Aluminum
Fan Motor	R61 267 220	Nidec TECNO Motor	Carbon Steel
Accumulator	R61 041 484	Meiwa Co. Ltd.	Carbon Steel
Reversing Valve x2	R61 013 403	Saginomiya	Brass
PC Board Mat'l	R61 342 280	Shin-Asahi Electric	94V-0 Plastic

UUT-23 Test Summary

Testing Lab: QualTech NP
Testing Report: Q1619.00
Testing Unit Num: Q1619-09-01-01

Model Number	Tonnage	Operating Weight (lbs)	Mounting	Excitation Direction		Frequency* (Hz)	Length (in)	Width (in)	Height (in)
PURY-P168YLMU-A	14.0	720	Base Mounted	X	Front - Back	>33.3	26 5/32	68 29/32	64 31/32
				Y	Side - Side	6.0			
				Z	Vertical	>33.3			

* Frequencies are for units prior to ICC ES AC-156 testing.
Model Number is based on nomenclautre from the 2014 Catalog

Attachment Method: Rigid base mounted with (6) 1/2"Ø ASTM A307 bolts

Seismic Parameters

Building Code	Test Criteria	S_{DS} (g)	z/h	Horizontal (g)		Vertical (g)	
				A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
CBC 2016	AC 156	2.50	1.0	4.00	3.00	1.67	0.67

Notes: The UUTs were full of contents during the test.
Unit maintained structural integrity and remained functional per manufacture requirements after shake table test

UUT-23 Summary Tested Sub-Component

Sub-Component	Part Number	Manufacturer	Material
Compressor	R69 118 478	Mitsubishi Electric	Carbon Steel
Heat Exchanger	R61 937 480	Mitsubishi Electric	Copper & Aluminum
Heat Exchanger	R61 939 480	Mitsubishi Electric	Copper & Aluminum
Fan Motor x2	R61 268 220	Nidec TECNO Motor	Carbon Steel
Accumulator	R61 089 484	Meiwa Co. Ltd.	Carbon Steel
Reversing valve x2	R61 013 403	Saginomiya	Brass
PC Board Mat'l.	R61 354 280	Shin-Asahi Electric	94V-0 Plastic

UUT-24 Test Summary

Testing Lab: QualTech NP
Testing Report: Q1619.00
Testing Unit Num: Q1619-10-01-01

Model Number	*Tonnage*	*Operating Weight (lbs)*	*Mounting*	*Excitation Direction*		*Frequency* (Hz)*	Length (in)	Width (in)	Height (in)
PQRY-P72TLMU-A	6.0	392	Base Mounted	X	Front - Back	>33.3	21 11/16	34 11/16	43 5/16
				Y	Side - Side	26.2			
				Z	Vertical	>33.3			

* Frequencies are for units prior to ICC ES AC-156 testing.
Model Number is based on nomenclautre from the 2014 Catalog

Attachment Method: Rigid base mounted with (4) 3/8"Ø ASTM A307 bolts

Seismic Parameters

Building Code	Test Criteria	S_{DS} (g)	z/h	Horizontal (g)		Vertical (g)	
				A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
CBC 2016	AC 156	2.50	1.0	4.00	3.00	1.67	0.67

Notes: The UUTs were full of contents during the test.
Unit maintained structural integrity and remained functional per manufacture requirements after shake table test

UUT-24 Summary Tested Sub-Component

Sub-Component	*Part Number*	*Manufacturer*	*Material*
Scroll compressor	R69 130 478	Mitsubishi Electric	Carbon Steel
Accumulator assy	R61 127 484	Meiwa Co. Ltd.	Carbon Steel
Heat exchanger	R61 987 480	Alfa Laval Inc	Copper & Aluminum
INV heat exchanger assy	R61 928 480	Mitsubishi Electric	Copper & Aluminum
Four way valve	R61 013 403	Saginomiya	Brass
Control Board	R61 358 280	Shin-Asahi Electric	94V-0 Plastic
INV Board	R61 353 280	Shin-Asahi Electric	94V-0 Plastic

UUT-25 Test Summary

Testing Lab: QualTech NP
Testing Report: Q1653.00
Testing Unit Num: Q1653-03-01-02

Model Number	Tonnage	Operating Weight (lbs)	Mounting	Excitation Direction		Frequency* (Hz)	Length (in)	Width (in)	Height (in)
PQHY-P240YLMU-A	20.0	588	Base Mounted	X	Front - Back	5.8	21 11/16	34 11/16	57 1/8
				Y	Side - Side	31.2			
				Z	Vertical	14.6			

* Frequencies are for unit: interpolated
Model Number is based o interpolated

Attachment Method: Rigid base mounted with (4) 1/2"Ø ASTM A307 bolts

Seismic Parameters

Building Code	Test Criteria	S_{DS} (g)	z/h	Horizontal (g)		Vertical (g)	
				A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
CBC 2016	AC 156	2.00	1.0	3.20	2.40	1.33	0.53

Notes: The UUTs were full of contents during the test.
Unit maintained structural integrity and remained functional per manufacture requirements after shake table test

UUT-25 Summary Tested Sub-Component

Sub-Component	Part Number	Manufacturer	Material
Scroll compressor	R69 133 478	Mitsubishi Electric	Carbon Steel
Accumulator assy	R61 125 484	Meiwa Co. Ltd.	Carbon Steel
Heat exchanger	R61 991 480	Alfa Laval Inc	Copper & Aluminum
INV heat exchanger assy	R61 928 480	Mitsubishi Electric	Copper & Aluminum
Four way valve	R61 013 403	Saginomiya	Brass
Control board	R61 340 280	Shin-Asahi Electric	94V-0 Plastic
INV board	R61 372 280	Shin-Asahi Electric	94V-0 Plastic

UUT-26 Test Summary

Testing Lab: QualTech NP
Testing Report: Q1653.00
Testing Unit Num: Q1653-01-01-01

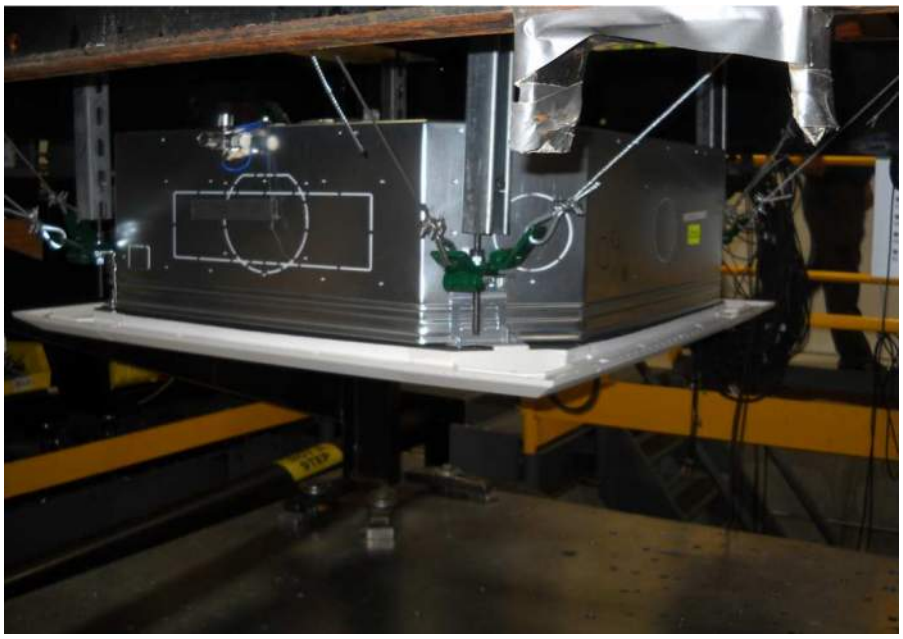
Model Number	*Tonnage*	Operating Weight (lbs)	*Mounting*	*Excitation Direction*		*Frequency* (Hz)*	Length (in)	Width (in)	Height (in)
PLFY-P48NEMU-E	4.0	60	Ceiling Mounted	X	Front - Back	N/A	33 3/32	33 3/32	11 3/4
				Y	Side - Side	N/A			
				Z	Vertical	N/A			

* Frequencies are for units prior to ICC ES AC-156 testing.
Model Number is based on nomenclautre from the 2014 Catalog

Attachment Method: Suspended with (4) 3/8"Ø rods with stiffeners. Each corner has (2) 1/8"Ø cable braces (8 total).

Seismic Parameters

Building Code	Test Criteria	S_{DS} (g)	z/h	Horizontal (g)		Vertical (g)	
				A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
CBC 2016	AC 156	2.50	1.0	4.00	3.00	1.67	0.67



Notes: The UUTs were full of contents during the test.
Unit maintained structural integrity and remained functional per manufacture requirements after shake table test

UUT-26 Summary Tested Sub-Component

Sub-Component	*Part Number*	*Manufacturer*	*Material*
Heat Exchanger	R01 L55 480	Mitsubishi Electric	Copper & Aluminum
Fan Motor	T7W L02 220	Nidec Techno	Carbon Steel
Turbo Fan	R01 E46 114	Toray Industries Inc.	Styrene Acrylonitrite
Control Board	T7W M00 310	Seiryo-Technica	94V-0 Plastic
Condensate Pump	R01 E19 355	Fujikoki Corporation	ABS Plastic

UUT-27 Test Summary

Testing Lab: QualTech NP
Testing Report: Q1653.00
Testing Unit Num: Q1653-02-01-02

Model Number	Tonnage	Operating Weight (lbs)	Mounting	Excitation Direction		Frequency* (Hz)	Length (in)	Width (in)	Height (in)
PUMY-P60NKMU1	5.0	304	Base Mounted	X	Front - Back	6.8	13	41 11/32	52 11/16
				Y	Side - Side	31.0			
				Z	Vertical	>33.3			

* Frequencies are for units prior to ICC ES AC-156 testing.
Model Number is based on nomenclautre from the 2014 Catalog

Attachment Method: Rigid base mounted with (4) 1/2"Ø ASTM A307 bolts.

Seismic Parameters							
Building Code	Test Criteria	S_{DS} (g)	z/h	Horizontal (g)		Vertical (g)	
				A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
CBC 2016	AC 156	1.34	1.0	2.14	1.61	0.89	0.36

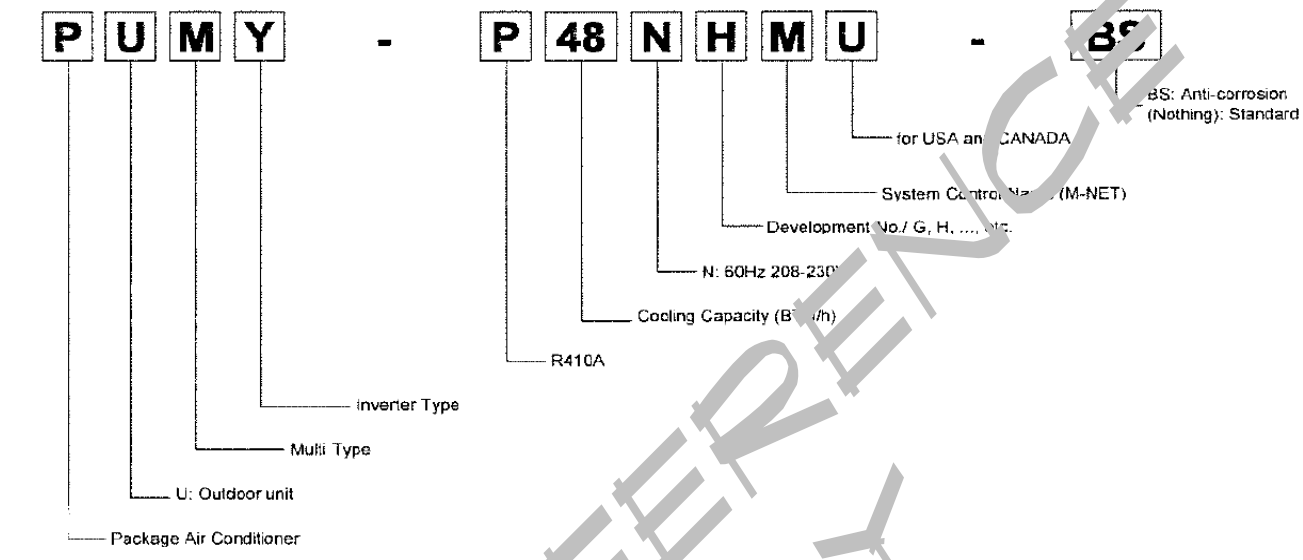
Notes: The UUTs were full of contents during the test.
Unit maintained structural integrity and remained functional per manufacture requirements after shake table test

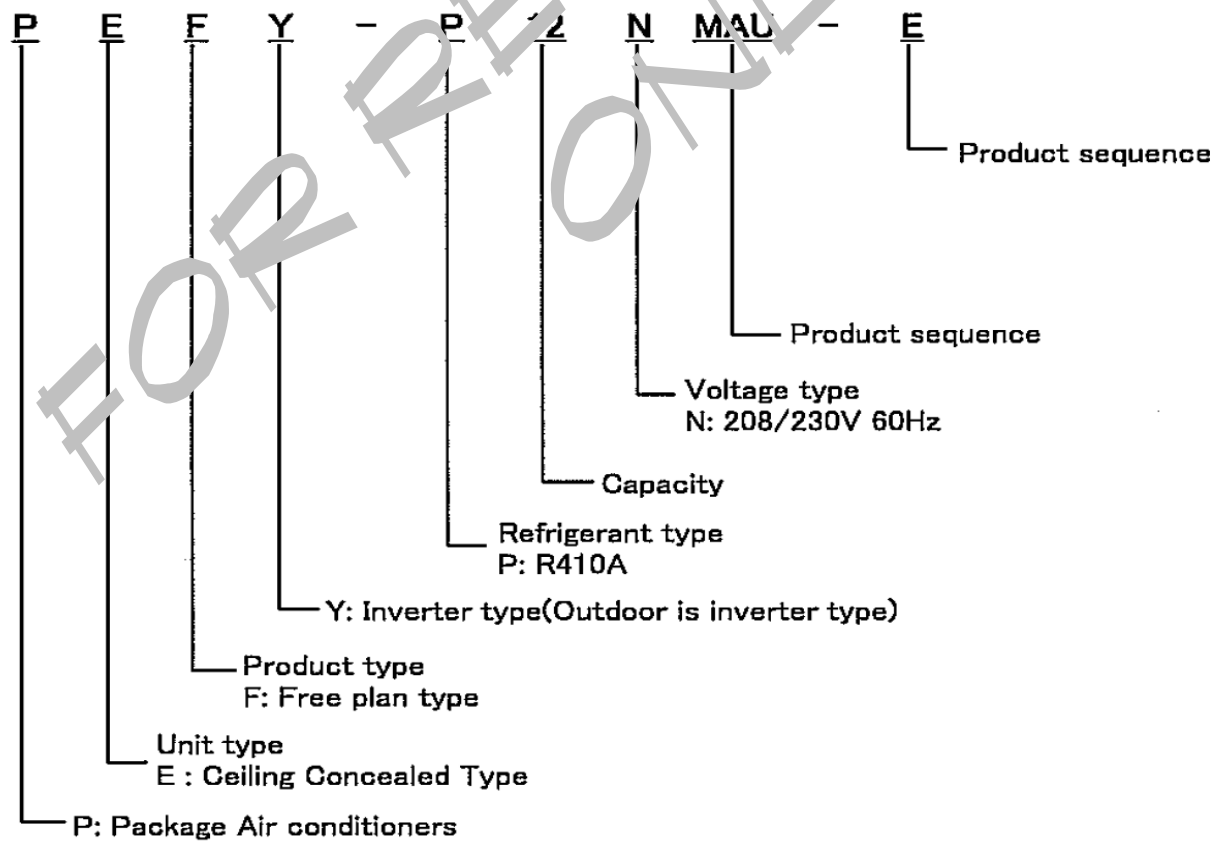
UUT-27 Summary Tested Sub-Component

Sub-Component	Part Number	Manufacturer	Material
Heat Exchanger	R01 H37 408	Mitsubishi Electric	Copper & Aluminum
Compressor	T97 415 789	Siam Compressor	Carbon Steel
Fan Motor (2)	R01 E46 221	Panasonic Corp.	Carbon Steel
Control Board	T7W F23 315	Shin-Asahi Electric	94V-0 Plastic
Inverter board	R01 E72 313	Shin-Asahi Electric	94V-0 Plastic
M-Net Board	R01 E04	Kyosha Co., Ltd.	94V-0 Plastic
Reversing valve	R01 E36 403	Fujikoki Corp	Brass
Accumulator	R01 E67 440	Mitsubishi Electric	Carbon Steel

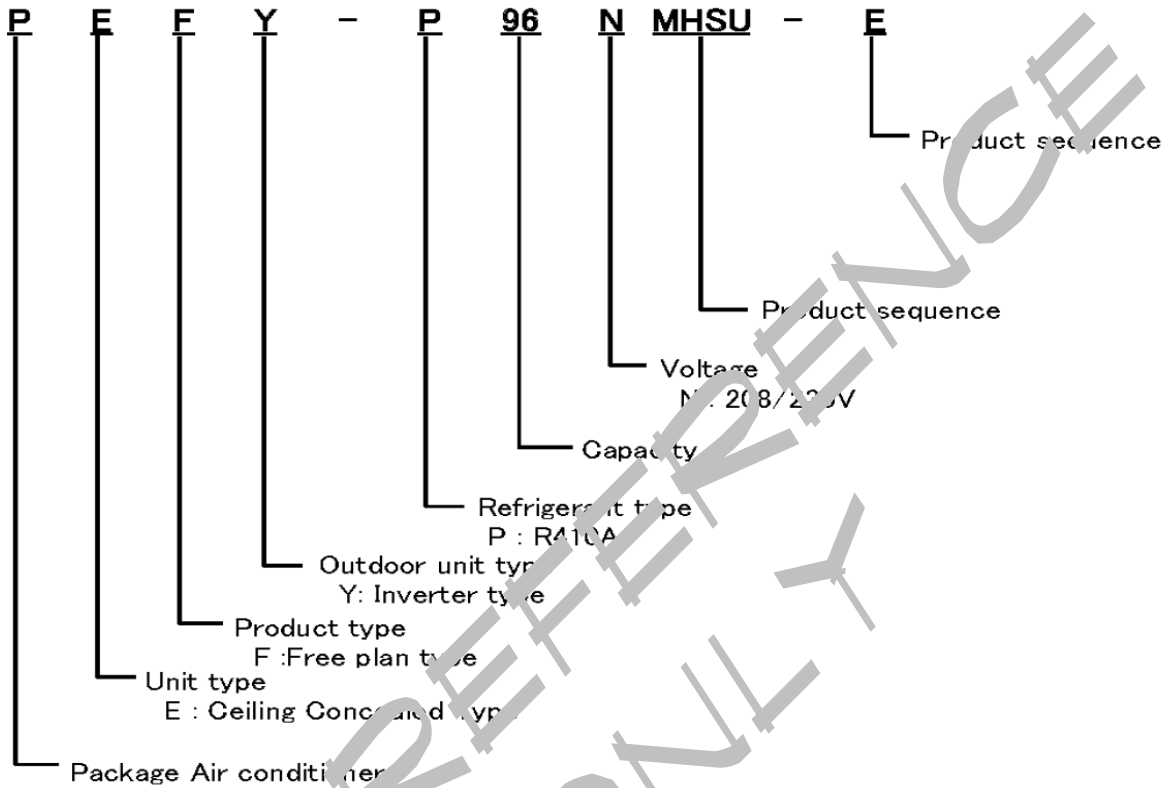
Model Number Nomenclature

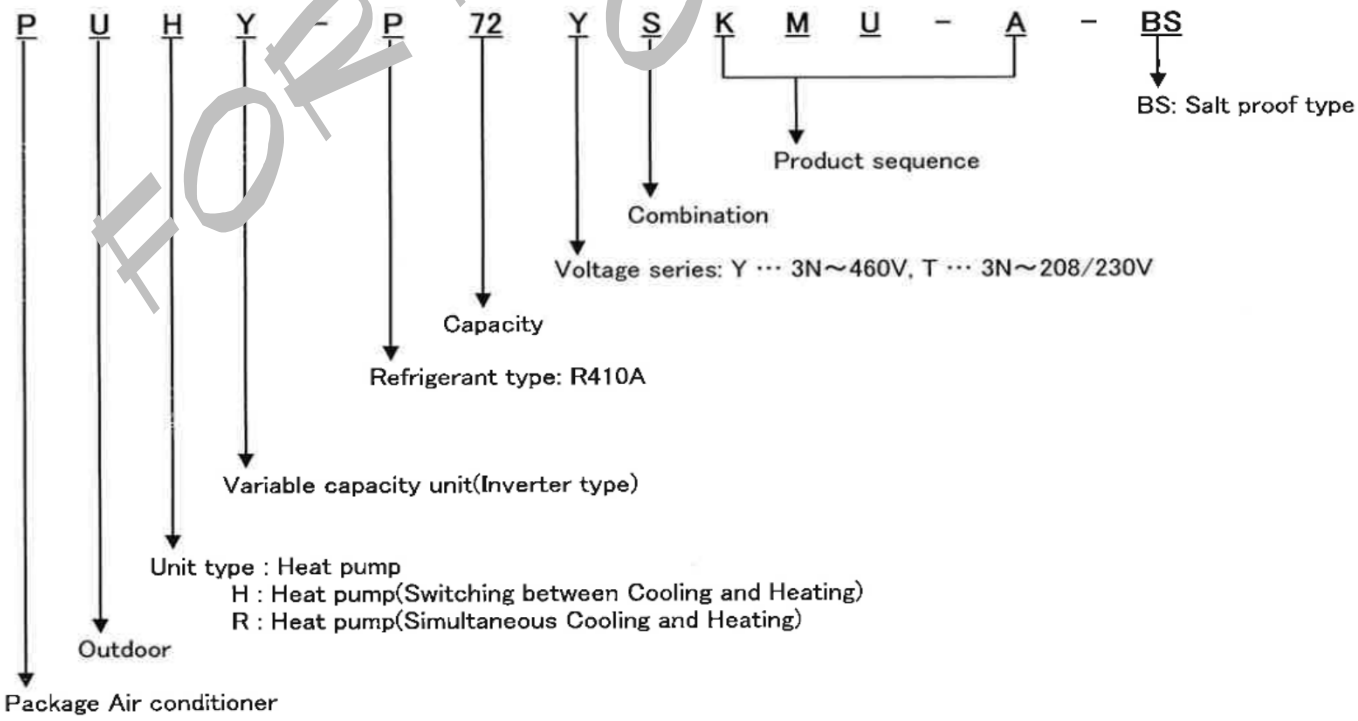
Outdoor unit





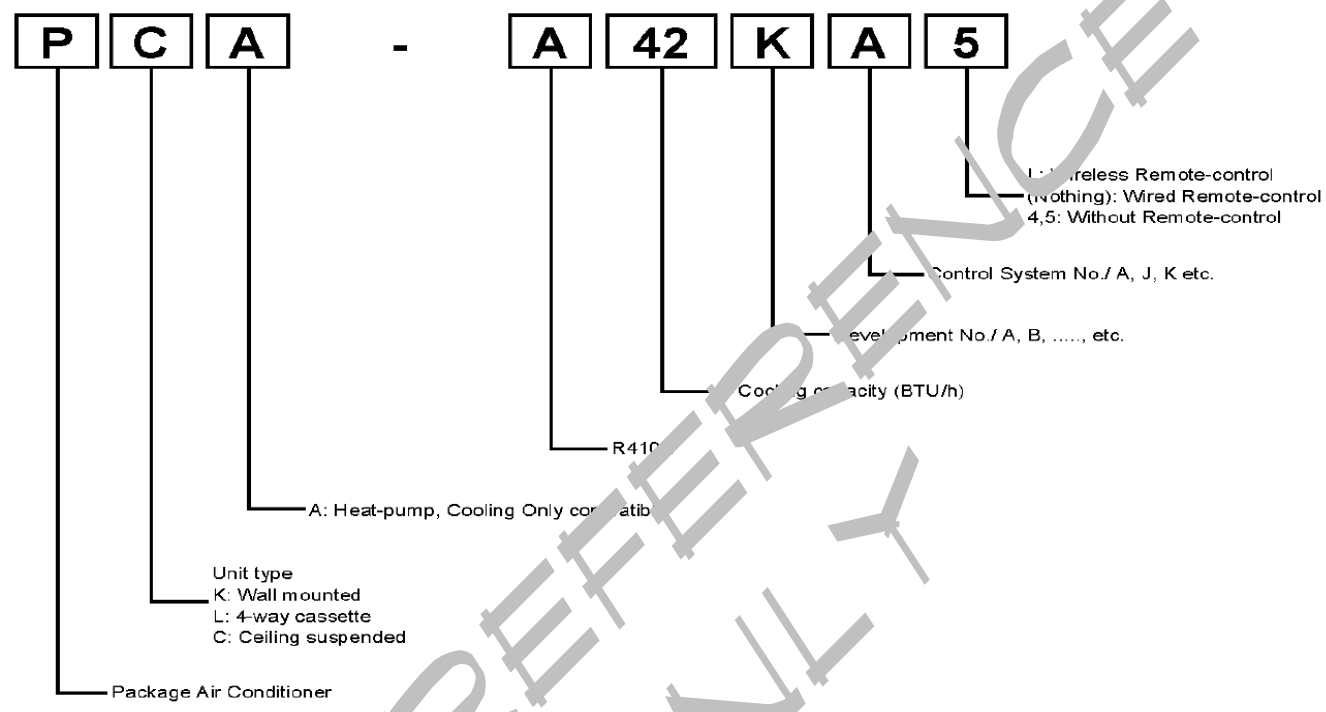
Model Number Nomenclature



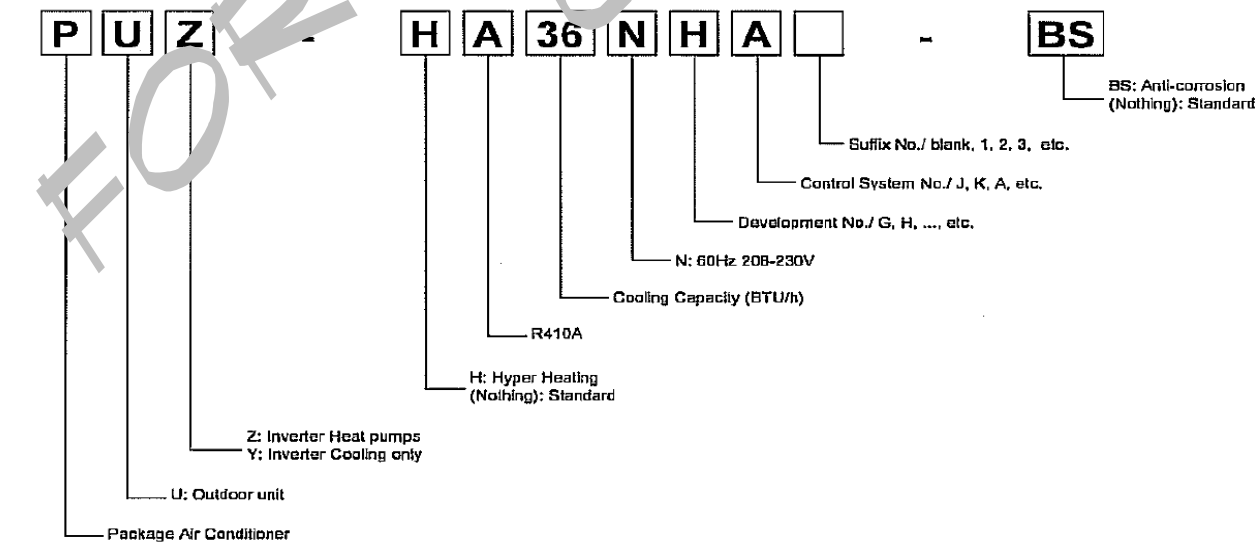


Model Number Nomenclature

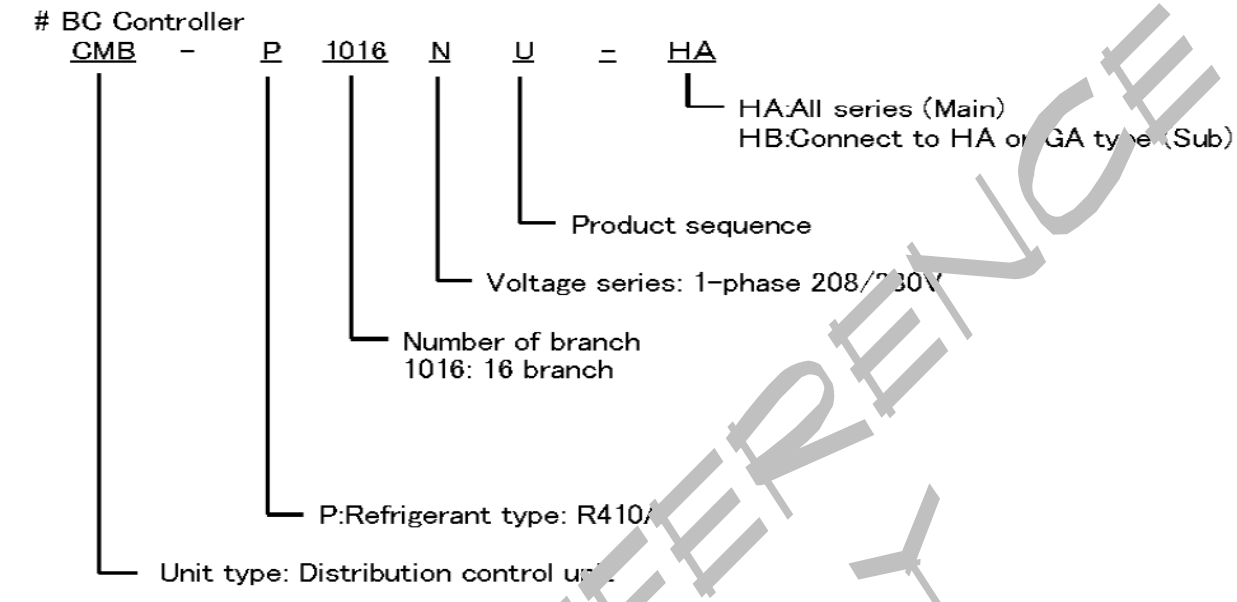
INDOOR UNIT

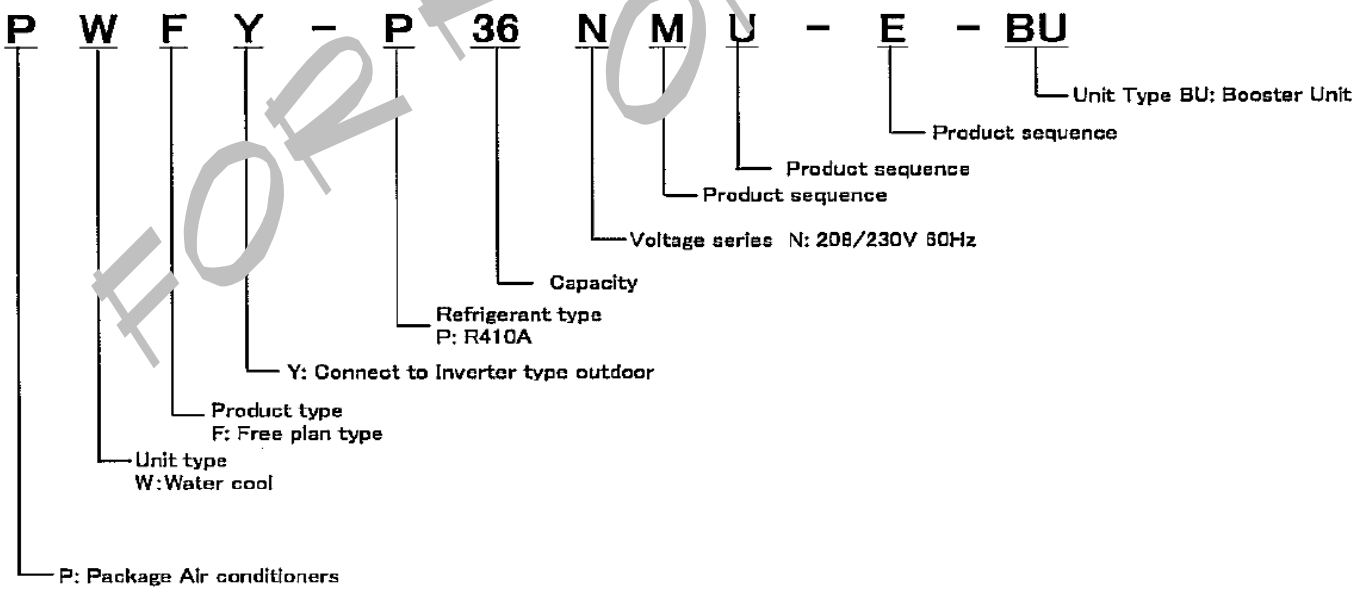


Outdoor unit

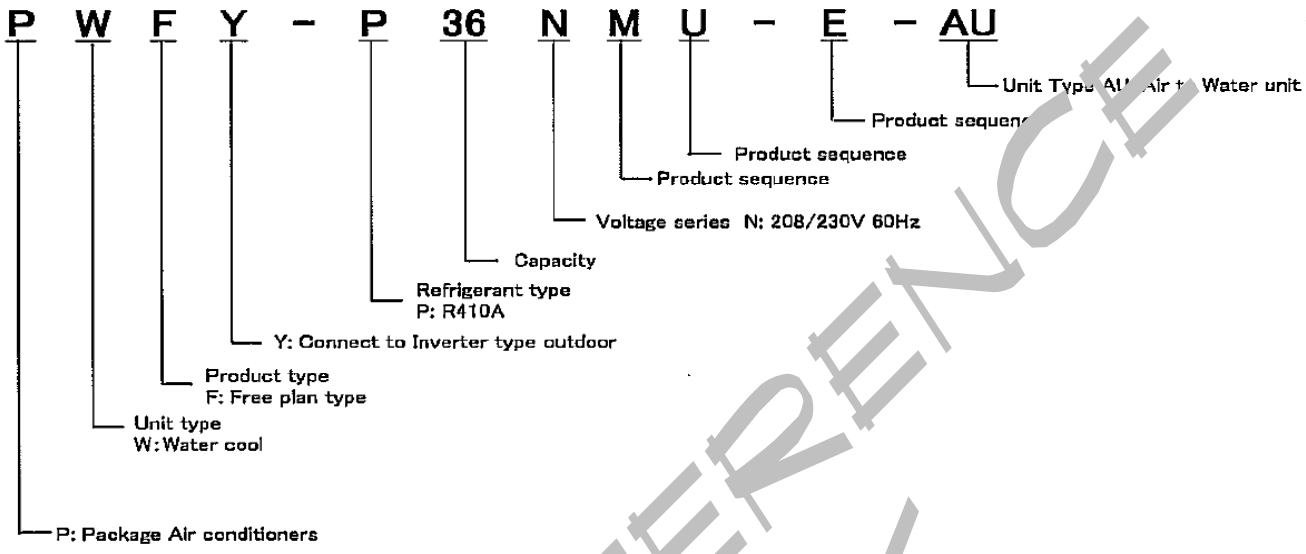


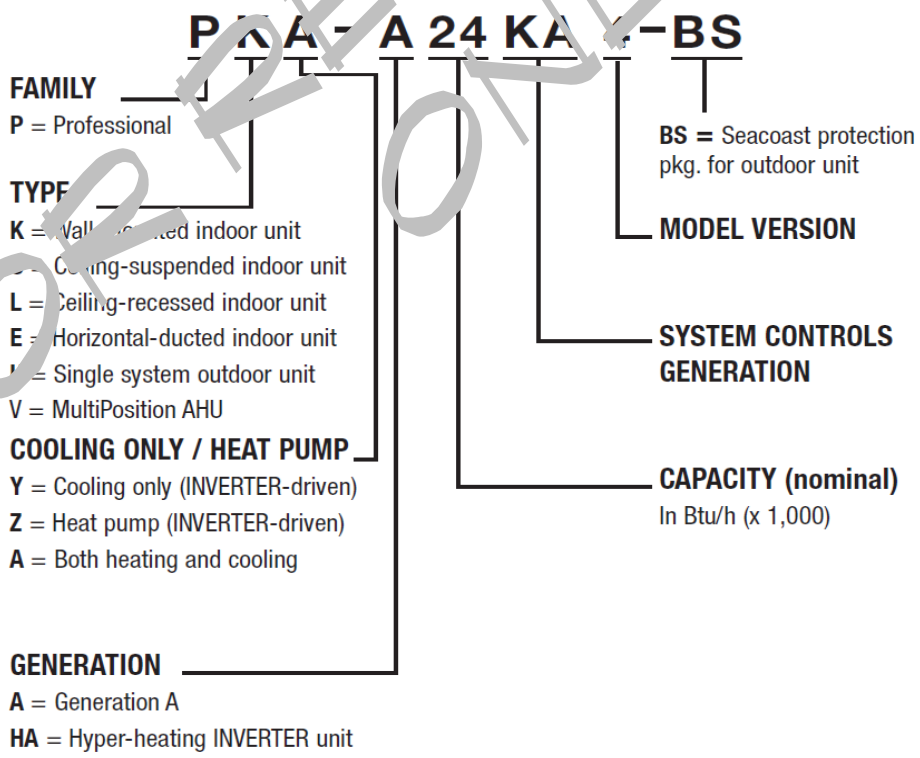
Model Number Nomenclature





Model Number Nomenclature





Model Number Nomenclature