

APPLICATION FOR OSHPD SPECIAL SEISMIC	OFFICE	USE ONLY
CERTIFICATION PREAPPROVAL (OSP)	APPLICATION #:	OSP – 0386 – 10
OSHPD Special Seismic Certification Preapproval (OSP)		
Type: 🛛 New 🗌 Renewal		
Manufacturer Information		
Manufacturer: LG Electronics USA, Inc.		
Manufacturer's Technical Representative: _ John Cummings		
Mailing Address: 4300 North Point Parkway, Suite 100, Alpharetta, GA	30022	
Telephone: (678) 328-6411 Email: john.cu	ımmings@lge.com	
Product Information		
Product Name: LG Multi-V		
Product Type: Air Conditioning Units		
ARUN, ARUB, ARNU, ARNH, PRHR – See "T Product Model Number: <u>of model numbers</u> (List all unique product identification numbers and/or part numbers) General Description: <u>Split system including heating and air-conditioning u</u> <u>and modifications required to address anomalies observed during the t</u> Mounting Description: <u>All units are rigid mounted. Outdoor units are ba</u> <u>or wall mounted.</u>	units. Seismic enhanceme ests shall be incorporate	ents made to the test units d into the production units.
Applicant Information		
Applicant Company Name: <u>Buehler & Buehler Structural Engineers, Inc</u> Contact Person: <u>Scott R. Hooker</u>		
Mailing Address:600 Q Street, Suite 200, Sacramento CA 95811		
Telephone: (916) 443-0303 Email: shooke I hereby agree to reimburse the Office of Statewide Health Pl accordance with the California Administrative Code, 2013.		ment review fees in
Signature of Applicant:	Date:	07/31/2015
Title: President Company Name: Buehle	r & Buehler Structural Er	ngineers, Inc.
"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs" STATE OF CALIFORNIA – HEALTH AND HUMAN SERVICES AGENCY OSH-FD-759 (REV 10/21/14)	MMM	OSHPD Page 1 of 3

OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)
Company Name: Buehler & Buehler Structural Engineers, Inc.
Name: Scott R. Hooker California License Number: 3937 / Structural
Mailing Address: 600 Q Street Suite 200 – Sacramento, CA 95811
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: Marie Nemier
Mailing Address: 4600 East Tech Drive, Cincinnati OH
Telephone: (513) 528-7900 Email: mnemier@curtisswright.com

"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"

OSHPD



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Seismic Parameters	
Design in accordance with ASCE 7-10 Chapter 13: 🛛 Yes 🗌 No	
Design Basis of Equipment or Components $(F_p/W_p) = 1.88$	
S_{DS} (Design spectral response acceleration at short period, g) = 2.50	
a_p (In-structure equipment or component amplification factor) = <u>2.5</u>	
R_p (Equipment or component response modification factor) = <u>6.0</u>	
Ω_0 (System overstrength factor) = _2.5	
I_p (Importance factor) = 1.5	
z/h (Height factor ratio) = _1.0	
Equipment or Component Natural Frequencies (Hz) = <u>See Table 3</u>	
Overall dimensions and weight (or range thereof) = <u>See Table 1</u>	
Equipment or Components @ grade designed in accordance with ASCE 7-10 Chapter 15:	s 🖾 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, 2010: 🗌 Yes 🛛 No	
List of Attachments Supporting Special Seismic Certification	
Test Report(s) Drawings Calculations Manufacturer's Catal	og
Other(s) (Please Specify): Operability Test Letter, Certification Letter	
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2019	
Signature: Date: Date: November 2, 2	015
Special Seismic Certification Valid Up to : $S_{DS}(g) = 2.50$ $z/h = 1$	
Condition of Approval (if applicable):	
	OSHDD
"Access to Safe, Quality Healthcare Environments that Meet California's Diverse and Dynamic Needs"	USHPU

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Table 1. Certified Product List

Model Number	Frame Type	Nominal Capacity (Btu/h)	Voltage	Tested/ Interpolated	Length (in)	Width (in)	Height (in)	Operating Weight (lbs)	Mounting
ARUB072BTE4	UX-2	72000	208/230V	UUT-2	29 29/32	36-7/32	66 5/32	442	Rigid Base Mount
ARUB072DTE4	UX-2	72000	460V	Interpolated	29 29/32	36-7/32	66 5/32	442	Rigid Base Mount
ARUN072BTE4	UX-2	72000	208/230V	Interpolated	29 29/32	36-7/32	66 5/32	442	Rigid Base Mount
ARUN072DTE4	UX-2	72000	460V	UUT-1	29 29/32	36-7/32	66 5/32	442	Rigid Base Mount
ARUB096BTE4	UX-3	96000	208/230V	UUT-3	29 29/32	48-13/16	66 5/32	563	Rigid Base Mount
ARUB096DTE4	UX-3	96000	460V	Interpolated	29 29/32	48-13/16	66 5/32	563	Rigid Base Mount
ARUN096BTE4	UX-3	96000	208/230V	Interpolated	29 29/32	48-13/16	66 5/32	563	Rigid Base Mount
ARUN096DTE4	UX-3	96000	460V	Interpolated	29 29/32	48-13/16	66 5/32	563	Rigid Base Mount
ARUN121BTE4	UX-3	120000	208/230V	Interpolated	29 29/32	48-13/16	66 5/32	563	Rigid Base Mount
ARUN121DTE4	UX-3	120000	460V	Interpolated	29 29/32	48-13/16	66 5/32	563	Rigid Base Mount
ARUB121BTE4	UX-3	120000	208/230V	Interpolated	29 29/32	48-13/16	66 5/32	563	Rigid Base Mount
ARUB121DTE4	UX-3	120000	460V	Interpolated	29 29/32	48-13/16	66 5/32	563	Rigid Base Mount
ARUN122BTE4	UX-3	120000	208/230V	Interpolated	29 29/32	48-13/16	66 5/32	661	Rigid Base Mount
ARUN122DTE4	UX-3	120000	460V	Interpolated	29 29/32	48-13/16	66 5/32	661	Rigid Base Mount
ARUB122BTE4	UX-3	120000	208/230V	Interpolated	29 29/32	48-13/16	66 5/32	661	Rigid Base Mount
ARUB122DTE4	UX-3	120000	460V	Interpolated	29 29/32	48-13/16	66 5/32	661	Rigid Base Mount
ARUN144BTE4	UX-3	144000	208/230V	Interpolated	29 29/32	48-13/16	66 5/32	628	Rigid Base Mount
ARUN144DTE4	UX-3	144000	460V	Interpolated	29 29/32	48-13/16	66 5/32	628	Rigid Base Mount
ARUB144BTE4	UX-3	144000	208/230V	Interpolated	29 29/32	48-13/16	66 5/32	628	Rigid Base Mount
ARUB144DTE4	UX-3	144000	460V	Interpolated	29 29/32	48-13/16	66 5/32	628	Rigid Base Mount
ARUN168BTE4	UX-3	168000	208/230V	Interpolated	29 29/32	48-13/16	66 5/32	628	Rigid Base Mount
ARUN168DTE4	UX-3	168000	460V	Interpolated	29 29/32	48-13/16	66 5/32	628	Rigid Base Mount
ARUB168BTE4	UX-3	168000	208/230V	Interpolated	29 29/32	48-13/16	66 5/32	628	Rigid Base Mount
ARUB168DTE4	UX-3	168000	460V	Interpolated	29 29/32	48-13/16	66 5/32	628	Rigid Base Mount





ARUN145BTE4 Rigid Base Mount UX-3 144000 208/230V Interpolated 29 29/32 48-13/16 66 5/32 660 ARUN145DTE4 UX-3 144000 460V Interpolated 29 29/32 48-13/16 66 5/32 660 Rigid Base Mount ARUB145BTE4 UX-3 144000 48-13/16 66 5/32 660 Rigid Base Mount 208/230V Interpolated 29 29/32 Rigid Base Mount ARUB145DTE4 144000 460V 48-13/16 66 5/32 UX-3 Interpolated 29 29/32 660 ARUN169BTE4 UX-3 168000 208/230V 48-13/16 66 5/32 Rigid Base Mount Interpolated 29 29/32 660 ARUN169DTE4 UX-3 168000 460V Interpolated 29 29/32 48-13/16 66 5/32 660 Rigid Base Mount ARUB169BTE4 UX-3 168000 208/230V Interpolated 29 29/32 48-13/16 66 5/32 660 Rigid Base Mount ARUB169DTE4 UX-3 168000 460V UUT-4 29 29/32 48-13/16 66 5/32 660 **Rigid Base Mount**

Notes:

1. Piping interconnection between multiple units must be a flexible connection.

2. Multiple combinations of the units listed above can be used in LG specified system model configurations of dual and triple frames to attain larger capacity VRF systems. These combinations of outdoor units are included in the scope of this seismic certification.

3. All units are manufactured by LG Electronics.

4. All unit frames and panels are made of light-gage steel.

Group B LG Multi V[™] Indoor Ceiling Concealed Ducted - High Static (208/230V)

Model Number	Nominal Capacity (Btu/h)	Tested/ Interpolated	Length (in)	Width (in)	Height (in)	Operating Weight (Ibs)	Mounting
ARNU073BGA4	7500	UUT-5	17 23/32	46 17/32	11 23/32	86	Suspended
ARNU093BGA4	9600	Interpolated	17 23/32	46 17/32	11 23/32	86	Suspended
ARNU123BGA4	12300	Interpolated	17 23/32	46 17/32	11 23/32	86	Suspended
ARNU153BGA4	15400	Interpolated	17 23/32	46 17/32	11 23/32	86	Suspended
ARNU183BGA4	19100	Interpolated	17 23/32	46 17/32	11 23/32	86	Suspended
ARNU243BGA4	24200	Interpolated	17 23/32	46 17/32	11 23/32	86	Suspended
ARNU283BGA2	28000	Interpolated	17 23/32	46 17/32	11 23/32	86	Suspended
ARNU283BGA4	28000	Interpolated	17 23/32	46 17/32	11 23/32	86	Suspended
ARNU363BGA2	36200	Interpolated	17 23/32	46 17/32	11 23/32	86	Suspended
ARNU363BGA4	36200	Interpolated	17 23/32	46 17/32	11 23/32	86	Suspended
ARNU423BGA2	42000	Interpolated	17 23/32	46 17/32	11 23/32	86	Suspended
ARNU423BGA4	42000	Interpolated	17 23/32	46 17/32	11 23/32	86	Suspended
ARNU483BRA2	48100	Interpolated	23 7/32	48 7/16	14 31/32	110	Suspended
ARNU483BRA4	48100	Interpolated	23 7/32	48 7/16	14 31/32	110	Suspended
ARNU543BRA2	54000	Interpolated	23 7/32	48 7/16	14 31/32	110	Suspended
ARNU543BRA4	54000	UUT-6	23 7/32	48 7/16	14 31/32	110	Suspended
ARNU763B8A2	76400	Interpolated	27 3/32	61 1/2	18 1/8	186	Suspended
ARNU763B8A4	76400	Interpolated	27 3/32	61 1/2	18 1/8	186	Suspended
ARNU963B8A2	95900	Interpolated	27 3/32	61 1/2	18 1/8	186	Suspended
ARNU963B8A4	95900	UUT-7	27 3/32	61 1/2	18 1/8	186	Suspended



1. All units are manufactured by LG Electronics.

2. All unit frames and panels are made of light-gage steel.





Table 1. Certified Product List

Group C	LG Multi V™ Ceiling Cassette 1-Way (208/230V)
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Model Number	Nominal Capacity (Btu/h)	Tested/ Extrapolated	Length (in)	Width (in)	Height (in)	Operating Weight (Ibs)	Mounting
ARNU073TUC4	8,500	same	17 23/32	33 27/32	5 3/16	29	Suspended
ARNU093TUC4	10,900	same	17 23/32	33 27/32	5 3/16	29	Suspended
ARNU123TUC4	13600	UUT-8	17 23/32	33 27/32	5 3/16	29	Suspended

Notes:

1. Extrapolated units are identical to the tested unit with the exception of software.

2. All units are manufactured by LG Electronics.

3. All unit frames and panels are made of light-gage steel.

Group D LG Multi V[™] Ceiling Cassette 2-Way (208/230V)

Model Number	Nominal Capacity (Btu/h)	Tested/ Extrapolated	Length (in)	Width (in)	Height (in)	Operating Weight (Ibs)	Mounting
ARNU183TLC2	19100	same	21 21/32	32 11/16	8 27/32	55	Suspended
ARNU183TLC4	19100	same	21 21/32	32 11/16	8 27/32	55	Suspended
ARNU243TLC2	24200	same	21 21/32	32 11/16	8 27/32	55	Suspended
ARNU243TLC4	24200	UUT-9	21 21/32	32 11/16	8 27/32	55	Suspended





Notes:

1. Extrapolated units are identical to the tested unit with the exception of software.

2. All units are manufactured by LG Electronics.

3. All unit frames and panels are made of light-gage steel.

Group E LG Multi V[™] Ceiling Cassette 4-Way (208/230V)

	Nominal Capacity	Tested/	Length		Height	Operating Weight	
Model Number	(Btu/h)	Interpolated	(in)	Width (in)	(in)	(lbs)	Mounting
ARNU053TRC2	5000	Extrapolated	22 7/16	22 7/16	8 7/16	28	Suspended
ARNU053TRC4	5000	UUT-10	22 7/16	22 7/16	8 7/16	28	Suspended
ARNU073TRC2	7500	Interpolated	22 7/16	22 7/16	8 7/16	28	Suspended
ARNU073TRC4	7500	Interpolated	22 7/16	22 7/16	8 7/16	31	Suspended
ARNU093TRC2	9600	Interpolated	22 7/16	22 7/16	8 7/16	31	Suspended
ARNU093TRC4	9600	Interpolated	22 7/16	22 7/16	8 7/16	31	Suspended
ARNU123TRC2	12300	Interpolated	22 7/16	22 7/16	8 7/16	31	Suspended
ARNU123TRC4	12300	Interpolated	22 7/16	22 7/16	8 7/16	31	Suspended
ARNU153TQC2	15400	Interpolated	22 7/16	22 7/16	10 3/32	34	Suspended
ARNU153TQC4	15400	Interpolated	22 7/16	22 7/16	10 3/32	34	Suspended
ARNU183TQC2	19100	Interpolated	22 7/16	22 7/16	10 3/32	34	Suspended
ARNU183TQC4	19100	UUT-11	22 7/16	22 7/16	10 3/32	34	Suspended
ARNU243TPC2	24200	Interpolated	33 1/16	33 1/16	8 1/32	46	Suspended
ARNU243TPC4	24200	Interpolated	33 1/16	33 1/16	8 1/32	46	Suspended
ARNU283TPC2	28000	Interpolated	33 1/16	33 1/16	8 1/32	46	Suspended
ARNU283TPC4	28000	Interpolated	33 1/16	33 1/16	8 1/32	46	Suspended
ARNU363TNC2	36200	Interpolated	33 1/16	33 1/16	9 11/16	54	Suspended
ARNU363TNC4	36200	UUT-12	33 1/16	33 1/16	9 11/16	54	Suspended
ARNU423TMC2	42000	Interpolated	33 1/16	33 1/16	11 11/32	58	Suspended
ARNU423TMC4	42000	Interpolated	33 1/16	33 1/16	11 11/32	58	Suspended
ARNU483TMC2	48100	Interpolated	33 1/16	33 1/16	11 11/32	58	Suspended
ARNU483TMC4	48100	UUT-13	33 1/16	33 1/16	11 11/32	58	Suspended



1. All units are manufactured by LG Electronics.

2. All unit frames and panels are made of light-gage steel.





Table 1. Certified Product List

Group F LG Multi V™ Wall Mounted / ART COOL Mirror (208/230V)									
Model Number	Nominal Capacity (Btu/h)	Tested/ Interpolated	Length (in)	Width (in)	Height (in)	Operating Weight (Ibs)	Mounting		
ARNU073SEL2	7500	Extrapolated	6 1/2	35 1/4	11 3/32	20	Wall Mount		
ARNU093SEL2	9600	Extrapolated	6 1/2	35 1/4	11 3/32	20	Wall Mount		
ARNU123SEL2	12300	Extrapolated	6 1/2	35 1/4	11 3/32	20	Wall Mount		
ARNU153SEL2	15400	Extrapolated	6 1/2	35 1/4	11 3/32	20	Wall Mount		
ARNU053SBL4	5500	UUT-14	8 15/32	35 1/4	11 3/8	23	Wall Mount		
ARNU073SBL4	7500	Interpolated	8 15/32	35 1/4	11 3/8	23	Wall Mount		
ARNU093SBL4	9600	Interpolated	8 15/32	35 1/4	11 3/8	23	Wall Mount		
ARNU123SBL4	12300	Interpolated	8 15/32	35 1/4	11 3/8	23	Wall Mount		
ARNU153SBL4	15400	Interpolated	8 15/32	35 1/4	11 3/8	23	Wall Mount		
ARNU073SER2	7500	Interpolated	6 1/2	36 1/32	11 3/32	25	Wall Mount		
ARNU093SER2	9600	Interpolated	6 1/2	36 1/32	11 3/32	25	Wall Mount		
ARNU123SER2	12300	Interpolated	6 1/2	36 1/32	11 3/32	25	Wall Mount		
ARNU153SER2	15400	Interpolated	6 1/2	36 1/32	11 3/32	25	Wall Mount		
ARNU183S5L2	19100	Interpolated	7	42 29/32	11 13/16	27	Wall Mount		
ARNU243S5L2	24200	Interpolated	7	42 29/32	11 13/16	27	Wall Mount		
ARNU183SCL4	19100	Interpolated	10 1/32	40 9/16	12 25/32	31	Wall Mount		
ARNU243SCL4	24200	UUT-15	10 1/32	40 9/16	12 25/32	31	Wall Mount		

1. All units are manufactured by LG Electronics.

2. All unit frames and panels are made of light-gage steel.

Group G LG Multi V[™] Heat Recovery Units (208/230V)

Model Number	Nominal Capacity (Btu/h)	Tested/ Extrapolated	Length (in)	Width (in)	Height (in)	Operating Weight (lbs)	Mounting
PRHR022A	-	same	24 9/32	32 23/32	8 19/32	40	Suspended
PRHR032A	-	same	24 9/32	32 23/32	8 19/32	44	Suspended
PRHR042A	-	UUT-16	24 9/32	32 23/32	8 19/32	46	Suspended

Notes:

1. Extrapolated units are identical to the tested unit with the exception of software

2. All units are manufactured by LG Electronics.

3. All unit frames and panels are made of light-gage steel.





Table 2. Certified Sub-Components

Group A - LG Multi V™ IV Outdoor Unit UX2/UX3 Frame - Single and Combined Module Units

Compressor				
Part Number	Nominal capacity	Voltage	Material	Tested / Interpolated
JQA048MBA	59,500Btu/h	220V	Gray Cast Iron	UUT-2
JQA048MAA	59,800Btu/h	380V	Gray Cast Iron	UUT-1, UUT-4
JBA068MBA	84,000Btu/h	220V	Gray Cast Iron	UUT-3
JBA068MAA	84,000Btu/h	380V	Gray Cast Iron	UUT-4

Heat Exchanger		
Part Number	Material	Tested / Interpolated
ACG35862608	Al Fin, Cu Tube	UUT-1, UUT-2
ACG35862610	Al Fin, Cu Tube	UUT-3, UUT-4

Fan Motor			
Part Number	Voltage	Material	Tested / Interpolated
EAU43080007	380V	Aluminum	UUT-1, UUT-4
EAU61423601	200V~230V	Aluminum	UUT-3, UUT-2

Printed Circuit Board			
Description	Part Number	Material	Tested / Interpolated
Comm. PCB	EBR74374302	ABS Plastic	UUT-1,UUT-3, UUT-4
Converter PCB	EBR76196401	ABS Plastic	UUT-2
Converter PCB	EBR76546001	ABS Plastic	UUT-1,UUT-4
Converter PCB	EBR76981301	ABS Plastic	Interpolated
External PCB	EBR74363401	ABS Plastic	UUT-1,UUT-3, UUT-4
Fan PCB	EBR73910904	ABS Plastic	UUT-3
Fan PCB	EBR73910905	ABS Plastic	UUT-2
Fan PCB	EBR74364901	ABS Plastic	UUT-4
Fan PCB	EBR75420601	ABS Plastic	UUT-1
Inverter PCB	EBR75420402	ABS Plastic	Interpolated
Inverter PCB	EBR76166005	ABS Plastic	UUT-1,UUT-4
Inverter PCB	EBR76166006	ABS Plastic	UUT-4
Inverter PCB	EBR76610201	ABS Plastic	UUT-2
Inverter PCB	EBR76610202	ABS Plastic	Interpolated
Inverter PCB	EBR77098001	ABS Plastic	UUT-3
Main PCB	EBR77177101	ABS Plastic	Interpolated
Main PCB	EBR77177102	ABS Plastic	Interpolated
Main PCB	EBR77177103	ABS Plastic	Interpolated
Main PCB	EBR77177104	ABS Plastic	Interpolated
Main PCB	EBR77177105	ABS Plastic	Interpolated
Main PCB	EBR77177106	ABS Plastic	UUT-4



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Special Seismic Certification OSHPD Preapproval LG Electronics Multi-V Product Line



Table 2. Certified Sub-Components

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Printed Circuit Board			
Description	Part Number	Material	Tested / Interpolated
Main PCB	EBR77177107	ABS Plastic	Extrapolated
Main PCB	EBR77177108	ABS Plastic	Extrapolated
Main PCB	EBR77177109	ABS Plastic	Extrapolated
Main PCB	EBR77177110	ABS Plastic	UUT-1
Main PCB	EBR77177501	ABS Plastic	UUT-2
Main PCB	EBR77177502	ABS Plastic	UUT-3
Main PCB	EBR77177503	ABS Plastic	Interpolated
Main PCB	EBR77177504	ABS Plastic	Interpolated
Main PCB	EBR77177505	ABS Plastic	Interpolated
Main PCB	EBR77177506	ABS Plastic	Interpolated
Main PCB	EBR77177507	ABS Plastic	Interpolated
Main PCB	EBR77177508	ABS Plastic	Interpolated
Main PCB	EBR77177509	ABS Plastic	Interpolated
Main PCB	EBR77177510	ABS Plastic	Interpolated
Main PCB	EBR77177518	ABS Plastic	Interpolated
Main PCB	EBR77177519	ABS Plastic	Interpolated
Main PCB	EBR77177520	ABS Plastic	Interpolated
Main PCB	EBR77177521	ABS Plastic	Interpolated
Main PCB	EBR77177111	ABS Plastic	Interpolated
Main PCB	EBR77177112	ABS Plastic	Interpolated
Main PCB	EBR77177113	ABS Plastic	Interpolated
Main PCB	EBR77177114	ABS Plastic	Interpolated
Main PCB	EBR77177522	ABS Plastic	Interpolated
Main PCB	EBR77177523	ABS Plastic	Interpolated
Main PCB	EBR77177524	ABS Plastic	Interpolated
Main PCB	EBR77177525	ABS Plastic	Interpolated
Main PCB	EBR77177115	ABS Plastic	Interpolated
Main PCB	EBR77177116	ABS Plastic	Interpolated
Main PCB	EBR77177117	ABS Plastic	Interpolated
Main PCB	EBR77177118	ABS Plastic	Interpolated
Noise Filter	EAM37530601	ABS Plastic	UUT-1, UUT-2
Noise Filter	EAM62532001	ABS Plastic	Interpolated
Noise Filter	EAM62632201	ABS Plastic	UUT-4
Noise Filter	EAM62632202	ABS Plastic	Interpolated
Noise Filter	EAM62632301	ABS Plastic	Interpolated
Noise Filter	EAM62792401	ABS Plastic	UUT-3
PI485 PCB	EBR74801101	ABS Plastic	UUT-1
PI485 PCB	EBR74801101	ABS Plastic	UUT-3, UUT-4, UUT-2
Power PCB	EBR76886201	ABS Plastic	UUT-3, UUT-4
Power PCB	EBR74365001	ABS Plastic	UUT-1, UUT-2
Power PCB	EBR74365001	ABS Plastic	Extrapolated





Table 2. Certified Sub-Components

Reverse Valve			
Description	Part Number	Material	Tested / Interpolated
Valve,Reverse	5220AP3777C	CU	UUT-1,UUT-2
Valve,Reverse	5220A20039A	CU	UUT-3, UUT-4

Expansion Valve			
Description	Part Number	Material	Tested / Interpolated
Main EEV	AJU73472405	CU	UUT-1, UUT-2, UUT-3, UUT-4
Main EEV	AJU73472406	CU	UUT-1, UUT-2, UUT-3, UUT-4

Service Valve			
Description	Part Number	Material	Tested / Interpolated
Valve,Service	5220A20029M	CU	UUT-1,UUT-2,UUT-3
Valve,Service	MJX62253901	CU	UUT-1,UUT-2,UUT-3,UUT-4
Valve,Service	MJX62792301	CU	UUT-1,UUT-2,UUT-3,UUT-4
Valve,Service	MJX62254101	CU	UUT-3
Valve,Service	MJX62253801	CU	UUT-4
Valve,Service	MJX62254001	CU	UUT-4

Other		
Description	Material	Tested / Interpolated
Cabinet	Steel Galvanized Coated Carbon	UUT-1, UUT-2, UUT-3, UUT-4





Table 2. Certified Sub-Components

Group B - LG Multi V™ Indoor Ceiling Concealed Ducted - High Static (208/230V)

Heat Exchanger		
Part Number	Material	Tested / Interpolated
5421A10027C	Al Fin, Cu Tube	UUT-5
5421A20273A	Al Fin, Cu Tube	UUT-6
5421A20217L	Al Fin, Cu Tube	UUT-7

Fan Motor		
Part Number	Material	Tested / Interpolated
EAU37067106	Carbon Steel/Polyester resin	UUT-5
4681A20169B	Carbon Steel/Polyester resin	UUT-6
EAU39857401	Carbon Steel/Polyester resin	UUT-7

Printed Circuit Board		
Part Number	Material	Tested / Interpolated
EBR79004802	ABS Plastic	UUT-5
EBR79004804	ABS Plastic	UUT-6,UUT-7

Expansion Valve		
Part Number	Material	Tested / Interpolated
AJU36719713	Copper, Resin	UUT-5, UUT-6,UUT-7

Group C - LG Multi V™ Ceiling Cassette 1-Way (208/230V)

Heat Exchanger		
Part Number	Material	Tested / Interpolated
ADL36804601	Al Fin, Cu Tube	UUT-8

Fan Motor		
Part Number	Material	Tested / Interpolated
4681A20091V	Copper, Resin	UUT-8

Printed Circuit Board		
Part Number	Material	Tested / Interpolated
EBR81221805	ABS Plastic	UUT-8

Expansion Valve		
Part Number	Material	Tested / Interpolated
AJU32452001	Copper, Resin	UUT-8





Table 2. Certified Sub-Components

Group D - LG Multi V™ Ceiling Cassette 2-Way (208/230V)

Heat Exchanger		
Part Number	Material	Tested / Interpolated
5421A20269C	Al Fin, Cu Tube	UUT-9
5421A20269D	Al Fin, Cu Tube	UUT-9

Fan Motor		
Part Number	Material	Tested / Interpolated
4681A20091V	Carbon Steel/Polyester resin	UUT-9

Printed Circuit Board

Part Number	Material	Tested / Interpolated
EBR39187717	ABS Plastic	Same
EBR69493302	ABS Plastic	UUT-9

Notes:

1. Extrapolated sub-components are identical to the tested unit with the exception of software.

Group E - LG Multi V™ Ceiling Cassette 4-Way (208/230V)

Heat Exchanger		
Part Number	Material	Tested / Interpolated
ADL55996003	Al Fin, Cu Tube	UUT-10
ADL55996002	Al Fin, Cu Tube	Interpolated
ADL55996001	Al Fin, Cu Tube	UUT-11
ADL32881103	Al Fin, Cu Tube	Interpolated
ADL32881102	Al Fin, Cu Tube	Interpolated
ADL73841702	Al Fin, Cu Tube	UUT-12
ADL32881101	Al Fin, Cu Tube	Interpolated
ADL73841801	Al Fin, Cu Tube	UUT-13

Fan Motor		
Part Number	Material	Tested / Interpolated
EAU32165801	Carbon Steel/Polyester resin	UUT-10
4681A20168B	Carbon Steel/Polyester resin	UUT-11
EAU31898201	Carbon Steel/Polyester resin	UUT-12
4681A20172J	Carbon Steel/Polyester resin	UUT-13

Printed Circuit Board		
Part Number	Material	Tested / Interpolated
EBR81221804	ABS Plastic	UUT-10, UUT-11, UUT-12, UUT-13
EBR39187715	ABS Plastic	Same

Notes:

1. Extrapolated sub-components are identical to the tested unit with the exception of software.





Table 2. Certified Sub-Components

Group F - LG Multi V™ Wall Mounted / ART COOL Mirror (208/230V)

Heat Exchanger		
Part Number	Material	Tested / Interpolated
ADL73761601	Al Fin, Cu Tube	Extrapolated
5421A20260Q	Al Fin, Cu Tube	UUT-14
ADL34982606	Al Fin, Cu Tube	Interpolated
5421A20260D	Al Fin, Cu Tube	Interpolated
5421A20221H	Al Fin, Cu Tube	UUT-15

Fan Motor		
Part Number	Material	Tested / Interpolated
4681A20091U	Carbon Steel/Polyester resin	UUT-14, UUT-15

Printed Circuit Board		
Part Number	Material	Tested / Interpolated
EBR62766417	ABS Plastic	Extrapolated
EBR62766416	ABS Plastic	Extrapolated
EBR62766415	ABS Plastic	Extrapolated
EBR62766414	ABS Plastic	Extrapolated
EBR78225707	ABS Plastic	UUT-14
EBR78225706	ABS Plastic	Interpolated
EBR78225705	ABS Plastic	Interpolated
EBR78225704	ABS Plastic	Interpolated
EBR62766412	ABS Plastic	Interpolated
EBR62766418	ABS Plastic	Interpolated
EBR62766419	ABS Plastic	Interpolated
EBR62766420	ABS Plastic	Interpolated
EBR62766413	ABS Plastic	Interpolated
EBR62766411	ABS Plastic	Interpolated
EBR78225703	ABS Plastic	Interpolated
EBR78225702	ABS Plastic	Interpolated
EBR78225701	ABS Plastic	UUT-15

Expansion Valve

Part Number	Material	Tested / Interpolated
AJU32452014	Copper, Resin	Extrapolated
AJU32452001	Copper, Resin	UUT-14
AJU32452002	Copper, Resin	UUT-15

Group G - LG Multi V™ Heat Recovery Units (208/230V)

Printed Circuit Board			
Description	Part Number	Material	Tested / Interpolated
Main PCB	EBR78268001	Hard Plastic	UUT-16

Expansion Valve			
Description	Part Number	Material	Tested / Interpolated
EEV	AJU36719707	CU	UUT-16

Other		
Description	Material	Tested / Interpolated
Cabinet	Steel Galvanized Coated Carbon	UUT-16





Table 3. UUT Summary

Model Number	UUT Mark	Nominal Capacity (Btu/h)	Mounting	Excitation Direction	Frequency (Hz)	Length (in)	Width (in)	Height (in)	Operating Weight (lbs)							
			Distribution Marcal	X	9.5	20.20/22	00 7/00	66-5/32	442							
ARUN072DTE4	UUT-1	72000	Rigid Base Mount	Y Z	5.7	29-29/32	36-7/32		442							
				Х	8.0											
ARUB072BTE4	UUT-2	72000	Rigid Base Mount	Y	10.3	29-29/32	36-7/32	66-5/32	441							
				Z X	- 24.5											
ARUB096BTE4	UUT-3	96000	Rigid Base Mount	Y	7.3	29-29/32	48-13/16	66-5/32	563							
ANODOSODILA	0010	00000	Rigia Date mount	Z	-	20 20/02	40 10/10	00 0/01								
				Х	8.7											
ARUB169DTE4	UUT-4	168000	Rigid Base Mount	Y	6.9	29-29/32	48-13/16	66-5/32	660							
				Z	28.4											
	UUT-5	7500	Current and a d	X	-	17-23/32	46 17/32	11-23/32	86							
ARNU073BGA4	001-5	7500	Suspended	Y Z	-	17-23/32	40 17/32	11-23/32	00							
	-			X	-											
ARNU543BRA4	UUT-6	54000	Suspended	Y	-	23-7/32 48-7/16 1	3-7/32 48-7/16 14-31/32	117								
744105455644	0010	01000	Suspended	Z	-											
				X	-											
ARNU963B8A4	UUT-7	95900	Suspended	Y	-	27-3/32	27-3/32 61-1/2	1/2 18 1/8	186							
				Z	-											
				Х	-	17 23/32 33										
ARNU123TUC4	UUT-8	12300	Suspended	Y	-		33 27/32	5 3/16	29							
				Z	-											
		04000	c 1 1	X	-	04 04/00	32-11/16 8	8-27/32								
ARNU243TLC4	UUT-9	24200	Suspended	Y Z	-	21-21/32			55							
	-			X	-											
ARNU053TRC4	UUT-10	5000	Suspended	Y	-	22-7/16	22-7/16	8-7/16	28							
7			buspenaea	Z	-											
				Х	-											
ARNU183TQC4	UUT-11	19100	Suspended	Y	-	22-7/16	22-7/16	10-3/32	34							
				Z	-											
				х	-											
ARNU363TNC4	UUT-12	48100	Suspended	Y	-	33-1/16	33-1/16	9 11/16	54							
				Z	-											
				Х	-											
ARNU483TMC4	UUT-13	36200	Suspended	Y	-	33-1/16	33-1/16	11 11/32	58							
				Z	-											
				Х	-	8 15/32										
ARNU053SBL4	UUT-14	5500	Wall Mount	Y	-		35 1/4	11 3/8	23							
				Z	-											
				Х	-	10 1/32										
ARNU243SCL4	UUT-15	24200	Wall Mount	Y	-		10 1/32	10 1/32	32 40 9/16	12 25/32	31					
				Z	-											
	11117 40		Current and a st	X	-	24 0/20	22 22/22	0 40/20	40							
PRHR042A	UUT-16	-	Suspended	Y Z	-	24-9/32	32-23/32	8-19/32	46							
				<u>ک</u>	-											

1. Unit frequencies were measured prior to AC156 testing.

2. Weight as tested

3. Excitation Direction: X = front to back; Y = side to side; Z = vertical

4. All units were charged with refrigerant before AC156 testing.

5. All units were tested, retained structural integrity and satisfied the operability tests before and after the shake tabel tests.





UUT-1					
Sub-Component	Description	Part Number	Material		
Compressor	59,800Btu/h, 380V	JQA048MAA	Gray Cast Iron		
Heat Exchanger	7 mm x 0.3 mm coil	ACG35862608	Al Fin, Cu Tube		
Fan Motor	380V	EAU43080007	Aluminum		
Printed Circuit Board	Comm. PCB	EBR74374302	ABS Plastic		
Printed Circuit Board	PI485 PCB	EBR74801101	ABS Plastic		
Printed Circuit Board	Power PCB	EBR74365001	ABS Plastic		
Printed Circuit Board	External PCB	EBR74363401	ABS Plastic		
Printed Circuit Board	Noise Filter	EAM37530601	ABS Plastic		
Printed Circuit Board	Inverter PCB	EBR76166005	ABS Plastic		
Printed Circuit Board	Fan PCB	EBR75420601	ABS Plastic		
Printed Circuit Board	Converter PCB	EBR76546001	ABS Plastic		
Printed Circuit Board	Main PCB	EBR77177110	ABS Plastic		
Reverse Valve	Valve,Reverse	5220AP3777C	CU		
Expansion Valve	Main EEV	AJU73472405	CU		
Expansion Valve	Main EEV	AJU73472406	CU		
Service Valve	Valve,Service	5220A20029M	CU		
Service Valve	Valve,Service	MJX62253901	CU		
Service Valve	Valve,Service	MJX62792301	CU		
Other	Cabinet	-	SGCC		

UUT-2					
Sub-Component	Description	Part Number	Material		
Compressor	59,500Btu/h, 220V	JQA048MBA	Gray Cast Iron		
Heat Exchanger	7 mm x 0.3 mm coil	ACG35862608	Al Fin, Cu Tube		
Fan Motor	200V~230V	EAU61423601	Aluminum		
Printed Circuit Board	Comm. PCB	EBR74374302	ABS Plastic		
Printed Circuit Board	PI485 PCB	EBR74801101	ABS Plastic		
Printed Circuit Board	Power PCB	EBR74365001	ABS Plastic		
Printed Circuit Board	External PCB	EBR74363401	ABS Plastic		
Printed Circuit Board	Noise Filter	EAM37530601	ABS Plastic		
Printed Circuit Board	Inverter PCB	EBR76610201	ABS Plastic		
Printed Circuit Board	Fan PCB	EBR73910905	ABS Plastic		
Printed Circuit Board	Converter PCB	EBR76196401	ABS Plastic		
Printed Circuit Board	Main PCB	EBR77177501	ABS Plastic		
Reverse Valve	Valve,Reverse	5220AP3777C	CU		
Expansion Valve	Main EEV	AJU73472405	CU		
Expansion Valve	Main EEV	AJU73472406	CU		
Service Valve	Valve,Service	5220A20029M	CU		
Service Valve	Valve,Service	MJX62253901	CU		
Service Valve	Valve,Service	MJX62253901	CU		
Service Valve	Valve,Service	MJX62792301	CU		
Other	Cabinet	-	SGCC		





UUT-3					
Sub-Component	Description	Part Number	Material		
Compressor	84,000Btu/h, 208V-230V	JBA068MBA	Gray Cast Iron		
Heat Exchanger	7 mm x 0.3 mm coil	ACG35862610	Al Fin, Cu Tube		
Fan Motor	208V-230V	EAU61423601	Aluminum		
Fan Motor	200V~230V	EAU61423601	Aluminum		
Printed Circuit Board	Main PCB	EBR77177502	ABS Plastic		
Printed Circuit Board	Comm. PCB	EBR74374302	ABS Plastic		
Printed Circuit Board	PI485 PCB	EBR74801101	ABS Plastic		
Printed Circuit Board	External PCB	EBR74363401	ABS Plastic		
Printed Circuit Board	Power PCB	EBR76886201	ABS Plastic		
Printed Circuit Board	Fan PCB	EBR73910904	ABS Plastic		
Printed Circuit Board	Inverter PCB	EBR77098001	ABS Plastic		
Printed Circuit Board	Noise Filter	EAM62792401	ABS Plastic		
Reverse Valve	Valve,Reverse	5220A20039A	CU		
Expansion Valve	Main EEV	AJU73472405	CU		
Expansion Valve	Main EEV	AJU73472406	CU		
Service Valve	Valve,Service	5220A20029M	CU		
Service Valve	Valve,Service	MJX62253901	CU		
Service Valve	Valve,Service	MJX62254101	CU		
Service Valve	Valve,Service	MJX62792301	CU		
Other	Cabinet	-	SGCC		

UUT-4					
Sub-Component	Description	Part Number	Material		
Compressor	59,800Btu/h, 380V	JQA048MAA	Gray Cast Iron		
Compressor	84,000Btu/h, 380V	JBA068MAA	Gray Cast Iron		
Heat Exchanger	7 mm x 0.3 mm coil	ACG35862610	Al Fin, Cu Tube		
Fan Motor	380V	EAU43080007	Aluminum		
Fan Motor	380V	EAU43080007	Aluminum		
Printed Circuit Board	Main PCB	EBR77177106	ABS Plastic		
Printed Circuit Board	Comm. PCB	EBR74374302	ABS Plastic		
Printed Circuit Board	PI485 PCB	EBR74801101	ABS Plastic		
Printed Circuit Board	External PCB	EBR74363401	ABS Plastic		
Printed Circuit Board	Power PCB	EBR76886201	ABS Plastic		
Printed Circuit Board	Noise Filter	EAM62632201	ABS Plastic		
Printed Circuit Board	Inverter PCB	EBR76166005	ABS Plastic		
Printed Circuit Board	Inverter PCB	EBR76166006	ABS Plastic		
Printed Circuit Board	Fan PCB	EBR74364901	ABS Plastic		
Printed Circuit Board	Converter PCB	EBR76546001	ABS Plastic		
Printed Circuit Board	Converter PCB	EBR76546001	ABS Plastic		
Reverse Valve	Valve,Reverse	5220A20039A	CU		
Expansion Valve	Main EEV	AJU73472405	CU		
Expansion Valve	Main EEV	AJU73472406	CU		
Service Valve	Valve,Service	MJX62253901	CU		
Service Valve	Valve,Service	MJX62254001	CU		
Service Valve	Valve,Service	MJX62253801	CU		
Service Valve	Valve,Service	MJX62792301	CU		
Other	Cabinet	-	SGCC		





UUT-5						
Sub-Component	Description	Part Number	Material			
Heat Exchanger	7 mm x 0.3 mm coil	5421A10027C	Al Fin, Cu Tube			
Fan Motor	Sirocco Fan 154W	EAU37067106	Carbon Steel/Polyester resin			
Fan Motor	Sirocco Fan 154W	EAU37067106	Carbon Steel/Polyester resin			
Printed Circuit Board	Main PCB	EBR79004802	ABS Plastic			
Expansion Valve	Main EEV	AJU36719713	Copper, Resin			

UUT-6					
Sub-Component	Material				
Heat Exchanger	7 mm x 0.3 mm coil	5421A20273A	Al Fin, Cu Tube		
Fan Motor	Sirocco Fan 185W	4681A20169B	Carbon Steel/Polyester resin		
Fan Motor	Sirocco Fan 185W	4681A20169B	Carbon Steel/Polyester resin		
Printed Circuit Board	Main PCB	EBR79004804	ABS Plastic		
Expansion Valve	Main EEV	AJU36719713	Copper, Resin		

UUT-7			
Sub-Component	Material		
Heat Exchanger	7 mm x 0.22 mm coil	5421A20217L	Al Fin, Cu Tube
Fan Motor	Sirocco Fan 375W	EAU39857401	Carbon Steel/Polyester resin
Fan Motor	Sirocco Fan 375W	EAU39857401	Carbon Steel/Polyester resin
Printed Circuit Board	Main PCB	EBR79004804	ABS Plastic
Expansion Valve	Main EEV	AJU36719713	Copper, Resin

UUT-8			
Sub-Component	Description	Part Number	Material
Heat Exchanger	7 mm x 0.3 mm coil	ADL36804601	Al Fin, Cu Tube
Fan Motor	Cross Flow Fan 30W	4681A20091V	Copper, Resin
Printed Circuit Board	Main PCB	EBR81221805	ABS Plastic
Expansion Valve	Main EEV	AJU32452001	Copper, Resin

UUT-9					
Sub-Component	Description	Part Number	Material		
Heat Exchanger	7 mm x 0.3 mm coil	5421A20269C	Al Fin, Cu Tube		
Heat Exchanger	7 mm x 0.3 mm coil	5421A20269D	Al Fin, Cu Tube		
Fan Motor	Cross Flow Fan 30W	4681A20091V	Carbon Steel/Polyester resin		
Printed Circuit Board	Main PCB	EBR69493302	ABS Plastic		

UUT-10			
Sub-Component	Description	Part Number	Material
Heat Exchanger	7 mm x 0.28 mm coil	ADL55996003	Al Fin, Cu Tube
Fan Motor	Turbo Fan 40W	EAU32165801	Carbon Steel/Polyester resin
Printed Circuit Board	Main PCB	EBR81221804	ABS Plastic





UUT-11				
Sub-Component	Description	Part Number	Material	
Heat Exchanger	7 mm x 0.28 mm coil	ADL55996001	Al Fin, Cu Tube	
Fan Motor	Turbo Fan 40W	4681A20168B	Carbon Steel/Polyester resin	
Printed Circuit Board	Main PCB	EBR81221804	ABS Plastic	

UUT-12					
Sub-Component	Description	Part Number	Material		
Heat Exchanger	7 mm x 0.28 mm coil	ADL73841702	Al Fin, Cu Tube		
Fan Motor	Turbo Fan 124W	EAU31898201	Carbon Steel/Polyester resin		
Printed Circuit Board	Main PCB	EBR81221804	ABS Plastic		

UUT-13					
Sub-Component	Description	Part Number	Material		
Heat Exchanger	7 mm x 0.28 mm coil	ADL73841801	Al Fin, Cu Tube		
Fan Motor	Turbo Fan 124W	4681A20172J	Carbon Steel/Polyester resin		
Printed Circuit Board	Main PCB	EBR81221804	ABS Plastic		

UUT-14			
Sub-Component	Description	Part Number	Material
Heat Exchanger	7 mm x 0.32 mm coil	5421A20260Q	Al Fin, Cu Tube
Fan Motor	Cross Flow Fan 20W	4681A20091U	Carbon Steel/Polyester resin
Printed Circuit Board	Main PCB	EBR78225707	ABS Plastic
Expansion Valve	Main EEV	AJU32452001	Copper, Resin

UUT-15					
Sub-Component Description Part Number Material					
Heat Exchanger	7 mm x 0.32 mm coil	5421A20221H	Al Fin, Cu Tube		
Fan Motor	Cross Flow Fan 20W	4681A20091U	Carbon Steel/Polyester resin		
Printed Circuit Board	Main PCB	EBR78225701	ABS Plastic		
Expansion Valve	Main EEV	AJU32452002	Copper, Resin		

UUT-16			
Sub-Component	Description	Part Number	Material
Printed Circuit Board	Main PCB	EBR78268001	ABS Plastic
Expansion Valve	EEV	AJU36719707	CU
Other	Enclosure	Cabinet	SGCC





JUT Designation dentification No.	UUT-14	Seismic P	arameters						
	ARNU053SBL4	Building	Test	0 ()	_ "	Horizontal		Vertical	
ttachment Method		Code	Criteria	S _{DS} (g)	z/h	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	ARIC
	w/ (3) 3/8" diameter Grade 2 bolts.	CBC 2013	AC 156	2.95	1.0	4.72	3.54	1.98	0.8





Shake Table Test Se	tup Test #2								
UUT Designation	UUT-11, UUT-15	Seismic P	arameters						
Identification No.	ARNU183TQC4, ARNU243SCL4	Building	Test	0 ()		Horiz	ontal	Ver	tical
Attachment Method	Indoor units: suspended from steel fixture using (4) 3/8" dia x 1'-6" long A36 hanger rods	Code	Criteria	S _{DS} (g)	z/h	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
	 w/ Unistrut P2485k seismic cradle clip assembly. (8) 1/8" dia aircraft cable braces w/ Mason SCB-1 clips ea end were provided at 45 degrees at each corner, in each orthogonal direction. Wall units: mounted to manufacturer's bracket w/ (4) #10 screws and to vertical fixture w/ (3) 3/8" diameter Grade 2 bolts. 	CBC 2013	AC 156	2.95	1.0	4.72	3.54	1.98	0.8





Notes: The UUT's were full of contents (refrigerant & water) during the test. The structural integrity of the component attachments and force-resisting systems was maintained on all UUT's After the test, all UUT's were functional and operated within LG operational limits





UUT Designation	UUT-1, UUT-3, UUT-10), UUT-12		Seismic Pa	arameters						
Identification No.		096BTE4, ARNU053TRC4, ARNU363T		Building	Test			Horiz	ontal	Ver	tical
Attachment Method		ounted to shake table w/ (8) 3/8" dia. Gra		Code	Criteria	S _{DS} (g)	z/h	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
	Indoor units: suspended w/ Unistrut braces w/ M	d from steel fixture using (4) 3/8" dia x 1 ¹ P2485k seismic cradle clip assembly. (8 Mason SCB-1 clips ea end were provided ach orthogonal direction.	-6" long A36 hanger rods) 1/8" dia aircraft cable	CBC 2013		2.95	1.0	4.72	3.54	1.98	0.8
Notes: The UUTs	were full of contents (re										





UUT Designation	UUT-2, UUT-4, UUT-8,		. –	Seismic Pa	1			110-11	- a m t a l	V	laal
dentification No.		169DTE4, ARNU123TUC4, ARNU243TLC4 unted to shake table w/ (8) 3/8" dia. Grade 8		Building	Test	S _{DS} (g)	z/h	Horiz	zontal	ver	tical
Attachment Method		from steel fixture using (4) 3/8" dia x 1'-6" l		Code	Criteria	-03 (3)	200	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-V}
	w/ Unistrut F braces w/ M	P2485k seismic cradle clip assembly. (8) 1/4 lason SCB-1 clips ea end were provided at ach orthogonal direction.	8" dia aircraft cable	CBC 2013	AC 156	2.95	1.0	4.72	3.54	1.98	0.8
The struc	tural integrity of the compo	Figerant & water) during the test.	ems was maintained on al	II UUT's							





UUT Designation	UUT-7	Oelaniic I a	arameters						
dentification No.	ARNU963B8A4	Building	Test	S (m)	=/h	Horiz	zontal	Ver	tical
Attachment Method	Indoor units: suspended from steel fixture using (4) 3/8" dia x 1'-6" long A36 hanger rods		Criteria	S _{DS} (g)	z/h	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG-}
	w/ Unistrut P2485k seismic cradle clip assembly. (8) 1/8" dia aircraft cable braces w/ Mason SCB-1 clips ea end were provided at 45 degrees at each corner, in each orthogonal direction.	CBC 2013	AC 156	2.95	1.0	4.72	3.54	Vert A _{FLX-V} 1.98	0.8
otes: The UUT The struc	was full of contents (refrigerant & water) during the test tural integrity of the component attachments and force-resisting systems was maintained								





UUT Designation	UUT-5, UUT-16	Seismic Pa							
dentification No.	ARNU073BGA4, PRHR042A	Building	Test	a ()		Horiz	zontal	Ver	tical
Attachment Method	Indoor units: suspended from steel fixture using (4) 3/8" dia x 1'-6" long A36 hanger rods	Code	Criteria	S _{DS} (g)	z/h	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG}
	w/ Unistrut P2485k seismic cradle clip assembly. (8) 1/8" dia aircraft cable								
	braces w/ Mason SCB-1 clips ea end were provided at 45 degrees at each	CBC 2013	AC 156	2.95	1.0	4.72	3.54	1.98	0.8
	corner, in each orthogonal direction.								
The struct	s were full of contents (refigerant & water) during the test. that integrity of the component attachments and force-resisting systems was maintained on test, all UUT's were functional and operated within LG operational limits	all UUT's							





UUT Designation dentification No. ARNU543BRA4 Natachment Method UUT-6 ARNU543BRA4 Indoor units: suspended from steel fixture using (4) 3/8" dia x 1-6" long A36 hanger rots braces w/ Mason SCB-1 clips as end were provided at 45 degrees at each corner, in each orthogonal direction. Solsmic Parameters Building Test Code Test Criteria Horizontal Horizontal Vertical CBC 2013 AC 156 2.95 1.0 4.72 3.54 1.98 0
Attachment Method Indoor units: suspended from steel fixture using (4) 3/8" dia x 1'-6" long A36 hanger rods w/ Unistrut P2485k seismic cradle clip assembly. (8) 1/8" dia aircraft cable braces w/ Mason SCB-1 clips ea end were provided at 45 degrees at each CBC 2013 AC 156 2.95 1.0 4.72 3.54 1.98 0
w/ Unistrut P2485k seismic cradle clip assembly. (8) 1/8" dia aircraft cable braces w/ Mason SCB-1 clips ea end were provided at 45 degrees at each CBC 2013 AC 156 2.95 1.0 4.72 3.54 1.98 0





JUT Designation	UUT-13		arameters						
dentification No.	ARNU483TMC4	Building	Test	• • • •		Horiz	zontal	Ver	tical
ttachment Method	Indoor units: suspended from steel fixture using (4) 3/8" dia x 1'-6" long A36 hanger rods	Code	Criteria	S _{DS} (g)	z/h	A _{FLX-H}	A _{RIG-H}	A _{FLX-V}	A _{RIG}
	w/ Unistrut P2485k seismic cradle clip assembly. (8) 1/8" dia aircraft cable								
	braces w/ Mason SCB-1 clips ea end were provided at 45 degrees at each	CBC 2013	AC 156	2.95	1.0	4.72	3.54	1.98	0.8
	corner, in each orthogonal direction.								
The struct	<image/>								





Model Number Nomenclature



2. Multiple combinations of the units listed above can be used in LG specified system model configurations of dual and triple fram



MULTI V IV Outdoor Unit Engineering Manual

Special Seismic Certification OSHPD Preapproval LG Electronics Multi-V Product Line



These combinations of outdoor units are included in the scope of this seismic certification.

Outdoor Units (ODU)

		ARU	JN	072	в	т	E	4
Family		<u>+</u>	1	1	1	1	Ť	1
ARU = Multi V O	utdoor Unit (Refrige	rant R410A)						
Туре ———								
N = Inverter Hea B = Inverter Hea								
Nominal Capacity (Nominal cooling	y capacity in Btu/h)							
072 = 72,000 096 = 96,000 121 = 121,000 144 = 144,000	192 = 192,000 216 = 216,000 240 = 240,000 264 = 264,000 288 = 288,000	$\begin{array}{c} 312 = 312,000 \\ 336 = 336,000 \\ 360 = 360,000 \\ 384 = 384,000 \\ 408 = 408,000 \end{array}$	432 = 432,000 456 = 456,000 480 = 480,000 504 = 504,000					
Electrical Ratings B = 208–230V/60 D = 460V/60Hz/3)Hz/3Ph							
Airflow Configura T = Top Discharg								
Efficiency E = High Efficien	су					~		
Generation — 4 = Fourth	48m							

Heat Recovery Units (HRU) PRHR 02 2A Family PRHR = Multi V Heat Recovery (HR) unit (Refrigerant R410A) Number of Ports 02 = Two Ports 03 = Three Ports 04 = Four Ports 04 = Four Ports 2A = Series Number

12 | PRODUCT DATA

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