



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR OSHPD SPECIAL SEISMIC
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP – 0596 – 10

OSHPD Special Seismic Certification Preapproval (OSP)

Type: ☒ New ☐ Renewal

Manufacturer Information

Manufacturer: Lennox Industries Inc.

Manufacturer's Technical Representative: Mike Garst

Mailing Address: 1600 Metrocrest Drive, Carrollton, Texas 75006

Telephone: 972.728.7386

Email: mike.garst@lennoxind.com

Product Information

Product Name: Emergence Rooftop Units

Product Type: Packaged Air Conditioning Units

Product Model Number: See Attachment 1

(List all unique product identification numbers and/or part numbers)

General Description: Carbon steel packaged rooftop air conditioning units. Seismic enhancements made to the test units shall be incorporated into the production units.

Mounting Description: Rigid floor mounted on curb.

Applicant Information

Applicant Company Name: Manwill Engineering LLC

Contact Person: Derek Manwill, SE

Mailing Address: PO Box 1194, Bend, OR 97709

Telephone: 541.241.2102

Email: derek@manwillSE.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: 

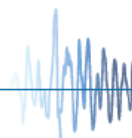
Date: 4/1/2019

Title: President

Company Name: Manwill Engineering LLC

"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 12/16/15)



OSHPD

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

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

Company Name: Manwill Engineering LLC

Name: Derek Manwill, SE

California License Number: S6266

Mailing Address: PO Box 1194, Bend, OR 97709

Telephone: 541.241.2102

Email: derek@manwillSE.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): OSP-0596-10
- BY: Timothy J Piland

Testing Laboratory

Company Name: Environmental Testing Laboratory

Contact Name: Jeremy Lange

Mailing Address: 11034 Indian Trail, Dallas, TX 75229

Telephone: 972.247.9657

Email: jeremy@etldallas.com



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

Seismic Parameters

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

Design Basis of Equipment or Components (F_p/W_p) = 1.50 ($S_{DS} = 2.00$, $z/h=1$); 1.13 ($S_{DS} = 2.50$, $z/h=0$)

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

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

R_p (Equipment or component response modification factor) = 6.0

Ω_0 (System overstrength factor) = 2.0

I_p (Importance factor) = 1.5

z/h (Height factor ratio) = 1 ($S_{DS} = 2.00$); 0 ($S_{DS} = 2.50$)

Equipment or Component Natural Frequencies (Hz) = See Attachment 2

Overall dimensions and weight (or range thereof) = See Attachments 1 & 2

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) = OSP-0596-10

Ω_0 (System overstrength factor) = _____

C_d (Deflection amplification factor) = BY: Timothy J Piland

I_p (Importance factor) = 1.5

Height to Center of Gravity above base = DATE: 09/26/2019

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): Attachments 1, 2, & 3

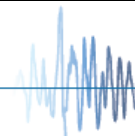
OSHPD Approval (For Office Use Only) – Approval Expires on December 31, 2022

Signature: [Signature] Date: September 26, 2019

Print Name: Timothy J. Piland Title: SSE

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

Condition of Approval (if applicable): _____



ATTACHMENT 1: CERTIFIED COMPONENTS

SEISMIC COMPLIANCE REPORT

TABLE 1 - ENERGEENCE

DOCUMENT NO.: 18061CR1.2

MANUFACTURER: LENNOX INDUSTRIES INC.						
PRODUCT FAMILY: ENERGEENCE ROOFTOP UNITS						
MODEL NUMBER	DIMENSIONS (in)			MAX. WT. (lb)	DESCRIPTION / NOTES	BASIS
	DEPTH	WIDTH	HEIGHT			
Energence Rooftop Units - A Box						
LCH036H4EE3P	85.3	47.0	38.9	537	208/230V, 8in curb	UUT 1
LCH036X4XXXX	85.3	47.0	38.9	742		INTERP
LGH036X4XXXX	85.3	47.0	38.9	759		INTERP
LCH048X4XXXX	85.3	47.0	38.9	759		INTERP
LGH048X4XXXX	85.3	47.0	38.9	759		INTERP
LGH048H4EM4G	85.3	47.0	38.9	651	460V, 8in curb	UUT 2
LCH060X4XXXX	85.3	47.0	46.9	759		INTERP
LGH060X4XXXX	85.3	47.0	46.9	759		INTERP
LCH072X4XXXX	85.3	47.0	46.9	759		INTERP
LGH072X4XXXX	85.3	47.0	46.9	759		INTERP
LCH074X4XXXX	85.3	47.0	46.9	759		INTERP
LGH074X4XXXX	85.3	47.0	46.9	759		INTERP
LCH074H4TJ1G	85.3	47.0	46.9	759	460V, 24in curb	UUT 3
LGH074H4TT1Y	85.3	47.0	46.9	749	208/230V, 24in curb	UUT 4
Energence Rooftop Units - B Box						
LCH092X4XXXX	101.3	60.1	46.9	1277		INTERP
LGH092X4XXXX	101.3	60.1	46.9	1319		INTERP
LCH102H4MN3Y	101.3	60.1	46.9	1026	208/230V, 8in curb	UUT 5
LCH102X4XXXX	101.3	60.1	46.9	1284		INTERP
LGH102X4XXXX	101.3	60.1	46.9	1326		INTERP
LGH120H4MH3G	101.3	60.1	46.9	1330	460V, 8in curb	UUT 6
LCH120X4XXXX	101.3	60.1	46.9	1326		INTERP
LGH120X4XXXX	101.3	60.1	46.9	1330		INTERP
LCH150X4XXXX	101.3	60.1	46.9	1315		INTERP
LGH150X4XXXX	101.3	60.1	46.9	1330		INTERP
LGH150H4MH1Y	101.3	60.1	46.9	1245	208/230V, 24in curb	UUT 7
LGH150H4MH1Y	101.3	60.1	46.9	1299	208/230V, 24in curb	UUT 8
NOTES: Table continues on the next page. Additional notes, information, and seismic parameters are shown at the end of the table.						

ATTACHMENT 1: CERTIFIED COMPONENTS

SEISMIC COMPLIANCE REPORT

TABLE 1 - ENERGECE (continued)

DOCUMENT NO.: 18061CR1.2

MANUFACTURER: LENNOX INDUSTRIES INC.						
PRODUCT FAMILY: ENERGECE ROOFTOP UNITS						
MODEL NUMBER	DIMENSIONS (in)			MAX. WT. (lb)	DESCRIPTION / NOTES	BASIS
	DEPTH	WIDTH	HEIGHT			
Energence Rooftop Units - C Box						
LCH156H4MK4G	107.8	91.1	54.3	1955	460V, 8in curb	UUT 9
LGH156H4MM4Y	107.8	91.1	54.3	2198	208/230V, 26in horizontal curb	UUT 10
LCH156X4XXXX	107.8	91.1	54.3	2130		INTERP
LGH156X4XXXX	107.8	91.1	54.3	2270		INTERP
LCH180X4XXXX	133.1	91.1	54.3	2350		INTERP
LGH180X4XXXX	133.1	91.1	54.3	2505		INTERP
LCH210X4XXXX	133.1	91.1	54.3	2470		INTERP
LGH210X4XXXX	133.1	91.1	54.3	2615		INTERP
LCH240H4MP3Y	133.1	91.1	54.3	2516	208/230V, 24in curb	UUT 11
LCH240X4XXXX	133.1	91.1	54.3	2570		INTERP
LGH240X4XXXX	133.1	91.1	54.3	2628		INTERP
LCH300X4XXXX	133.1	91.1	54.3	2628		INTERP
LGH300X4XXXX	133.1	91.1	54.3	2628		INTERP
LGH300S4MH4G	133.1	91.1	54.3	2628	460V, 41in horizontal curb	UUT 12
LGH300S4MH4G	133.1	91.1	54.3	2668	460V, 26in horizontal curb	UUT 13
MOUNTING:	Rigid floor mounted on curb.			SEISMIC LEVELS:	S _{DS} = 2.00g for z/h = 1 S _{DS} = 2.50g for z/h = 0 I _p = 1.5	
NOTES:	Product Construction: Carbon steel construction. Options/Subcomponents: 8in - 24in downflow carbon steel curb; C box available with 26in - 41in horizontal carbon steel curb; available subcomponents are listed in Table 2. Nomenclature: See Attachment 3 for product nomenclature and available model numbers.					

ATTACHMENT 1: CERTIFIED SUBCOMPONENTS

SEISMIC COMPLIANCE REPORT

TABLE 2 - SUBCOMPONENTS

DOCUMENT NO.: 18061CR1.2

MANUFACTURER: LENNOX INDUSTRIES INC.						
PRODUCT FAMILY: ENERGENGE ROOFTOP UNITS						
MODEL NUMBER	DIMENSIONS (in)			MAX. WT. (lb)	DESCRIPTION / NOTES	BASIS
	DEPTH	WIDTH	HEIGHT			
Dephi Thermal Sys - A Box Microchannel Condenser Coil (Aluminum)						
16466147				18	11.7SF, 0.71" dia., 1R, 20FPI	UUT 1
16467220				22	14.5SF, 0.71" dia., 1R, 20FPI	INTERP
16462973				27	17.8SF, 0.71" dia., 1R, 20FPI	UUT 3
Dephi Thermal Sys - B Box Microchannel Condenser Coil (Aluminum)						
16463803				43	28.0SF, 0.71" dia., 1R, 20FPI	UUT 5
Dephi Thermal Sys - C Box Microchannel Condenser Coil (Aluminum)						
16486423-A1 (2)				62	41.4SF, 0.71" dia., 1R, 23FPI	UUT 9
16488396-A1 (2)				83	55.2SF, 0.71" dia., 1R, 23FPI	INTERP
16486398-A1 (2)				83	55.2SF, 0.71" dia., 1R, 23FPI	INTERP
16465131 (2)				83	55.2SF, 0.71" dia., 1R, 23FPI	INTERP
16467085 (2)				138	55.2SF, 0.71" dia., 1R, 23FPI	UUT 12,13
Lennox - A Box Tube and Fin Condenser Coil (Copper Tube, Aluminum Fin)						
LB-110085A				41	15.6SF, 0.38" dia., 1.5R, 20FPI	EXTRAP
LB-109372A				55	15.6SF, 0.38" dia., 2R, 20FPI	UUT 2
602346-02				68	19.3SF, 0.38" dia., 2R, 20FPI	UUT 4
Lennox - B Box Tube and Fin Condenser Coil (Copper Tube, Aluminum Fin)						
616403-01 (2)				136	25.9SF, 0.38" dia., 3R, 20FPI	UUT 8
620015-01				147	28.0SF, 0.38" dia., 3R, 20FPI	UUT 7
602942-02				154	29.3SF, 0.38" dia., 3R, 20FPI	UUT 6
Lennox - C Box Tube and Fin Condenser Coil (Copper Tube, Aluminum Fin)						
618878-01				145	41.4SF, 0.38" dia., 2R, 20FPI	UUT 10
618879-01				193	55.2SF, 0.38" dia., 2R, 20FPI	INTERP
602096-02				193	55.2SF, 0.38" dia., 2R, 20FPI	UUT 11
Lennox - Indoor Coil (Copper Tube, Aluminum Fin)						
602003-02				41	7.78SF, 0.71" dia., 3R, 14FPI	UUT 1
LB-109895C				55	7.78SF, 0.71" dia., 4R, 14FPI	UUT 2
614310-02				68	9.72SF, 0.71" dia., 4R, 14FPI	INTERP
602347-05				68	9.72SF, 0.71" dia., 4R, 14FPI	UUT 3,4
603331-02				90	12.8SF, 0.38" dia., 4R, 14FPI	INTERP
603331-06				95	13.5SF, 0.38" dia., 4R, 14FPI	UUT 5,6
603743-02				95	13.5SF, 0.38" dia., 4R, 14FPI	UUT 7,8
602538-02				112	21.4SF, 0.38" dia., 3R, 14FPI	UUT 9,10
600859-07				112	21.4SF, 0.38" dia., 3R, 14FPI	INTERP
602798-02				150	21.4SF, 0.38" dia., 4R, 14FPI	UUT 11-13
Lennox - Reheat Coil (Copper Tube, Aluminum Fin)						
605708				7	3.89SF, 0.38" dia., 1R, 14FPI	UUT 1,2
605600				9	5.11SF, 0.38" dia., 1R , 14FPI	UUT 5
605556				10	5.42SF, 0.38" dia., 1R, 14FPI	UUT 6-8
605709				10	5.83SF, 0.38" dia., 1R, 14FPI	UUT 3,4
605600				13	7.33SF, 0.38" dia., 1R, 14FPI	UUT 9-13
NOTES: Table continues on the next page. Additional notes, information, and seismic parameters are shown at the end of the table.						

ATTACHMENT 1: CERTIFIED SUBCOMPONENTS

SEISMIC COMPLIANCE REPORT

TABLE 2 - SUBCOMPONENTS (continued)

DOCUMENT NO.: 18061CR1.2

MANUFACTURER: LENNOX INDUSTRIES INC.						
PRODUCT FAMILY: ENERGENGE ROOFTOP UNITS						
MODEL NUMBER	DIMENSIONS (in)			MAX. WT. (lb)	DESCRIPTION / NOTES	BASIS
	DEPTH	WIDTH	HEIGHT			
Copeland - Scroll Compressors						
ZPS30K5E-PFV-130	5.5	5.5	15.3		3T, 230V, 1-phase	UUT 1
ZPS30K5E-TF5-130	5.5	5.5	15.3		3T, 230V, 3-phase	INTERP
ZPS30K5E-TFD-130	5.5	5.5	15.3		3T, 460V, 3-phase	INTERP
ZPS40K5E-PFV-130	6.6	6.6	16.5		4T, 230V, 1-phase	INTERP
ZPS40K5E-TF5-130	6.6	6.6	16.5		4T, 230V, 3-phase	INTERP
ZPS40K5E-TFD-130	6.6	6.6	16.5		4T, 460V, 3-phase	UUT 2
ZPS51K5E-PFV-130	6.6	6.6	16.5		5T, 230V, 1-phase	INTERP
ZPS51K5E-TF5-130	6.6	6.6	16.5		5T, 230V, 3-phase	INTERP
ZPS51K5E-TFD-130	6.6	6.6	16.5		5T, 460V, 3-phase	INTERP
ZP61K5E-TF5-130	6.6	6.6	16.5		6T, 230V, 3-phase	UUT 7,8
ZP61K5E-TFD-130	6.6	6.6	16.5		6T, 460V, 3-phase	INTERP
ZPS60K5E-TF5-130	6.6	6.6	16.9		6T, 230V, 3-phase	UUT 4
ZPS60K5E-TFD-130	6.6	6.6	16.9		6T, 460V, 3-phase	UUT 3
Copeland - Scroll Compressors (shelf mounted in C box)						
ZP44K5E-TF5	6.6	6.6	16.5		3.75T, 230V, 3-phase	UUT 10
ZP44K5E-TFD	6.6	6.6	16.5		3.75T, 460V, 3-phase	INTERP
ZP61K5E-TF5-130	6.6	6.6	16.5		6T, 230V, 3-phase	INTERP
ZP61K5E-TFD-130	6.6	6.6	16.5		6T, 460V, 3-phase	UUT 12,13
Interlink - Scroll Compressors						
AQA039RAA	6.0	6.0	17.5		3.25T, 230V, 3-phase	EXTRAP
AQA039WAA	6.0	6.0	17.5		3.25T, 460V, 3-phase	EXTRAP
AQA042RAA	6.0	6.0	17.5		3.5T, 230V, 3-phase	UUT 5
AQA042WAA	6.0	6.0	17.5		3.5T, 460V, 3-phase	INTERP
ABA051RAA	6.6	6.6	17.7		4.25T, 230V, 3-phase	INTERP
ABA051WAA	6.6	6.6	17.7		4.25T, 460V, 3-phase	UUT 6
Interlink - Scroll Compressors (shelf mounted in C box)						
ABA044WAA	6.6	6.6	17.7		3.75T, 460V, 3-phase	UUT 9
ABA044RAA	6.6	6.6	17.7		3.75T, 230V, 3-phase	INTERP
ABA051WAA	6.6	6.6	17.7		4.25T, 460V, 3-phase	INTERP
ABA051RAA	6.6	6.6	17.7		4.25T, 230V, 3-phase	UUT 11
Lennox - Gas Heat (Aluminized Steel)						
610032-03				20	HE 65K BTU, 3 Tubes	EXTRAP
610032-02				33	HE 108K BTU, 5 Tubes	UUT 2
603380-01				47	HE 130K BTU, 6 Tubes	INTERP
610032-01				46	HE 150K BTU, 7 Tubes	INTERP
603380-02				71	HE 180K BTU, 9 Tubes	INTERP
603380-03				86	HE 240K BTU, 11 Tubes	UUT 7,8
LB-107350A (2)				94	HE 169K/260K BTU, 12 Tubes	INTERP
LB-107350B (2)				141	HE 360K BTU, 18 Tubes	UUT 10
LB-107350C (2)				172	HE 480K BTU, 22 Tubes	EXTRAP ¹
NOTES: Table continues on the next page. Additional notes, information, and seismic parameters are shown at the end of the table.						

ATTACHMENT 1: CERTIFIED SUBCOMPONENTS

SEISMIC COMPLIANCE REPORT

TABLE 2 - SUBCOMPONENTS (continued)

DOCUMENT NO.: 18061CR1.2

MANUFACTURER: LENNOX INDUSTRIES INC.						
PRODUCT FAMILY: ENERGENGE ROOFTOP UNITS						
MODEL NUMBER	DIMENSIONS (in)			MAX. WT. (lb)	DESCRIPTION / NOTES	BASIS
	DEPTH	WIDTH	HEIGHT			
Lennox - Gas Heat (Stainless Steel)						
610032-04				20	HE 65K BTU, 3 Tubes	EXTRAP
610032-06				33	HE 108K BTU, 5 Tubes	EXTRAP
603380-04				47	HE 130K BTU, 6 Tubes	EXTRAP
610032-05				46	HE 150K BTU, 7 Tubes	UUT 4
603380-05				71	HE 180K BTU, 9 Tubes	INTERP
603380-06				86	HE 240K BTU, 11 Tubes	UUT 6
LB-107350D (2)				94	HE 169K/260K BTU, 12 Tubes	INTERP
LB-107350E (2)				141	HE 360K BTU, 18 Tubes	INTERP
LB-107350F (2)				172	HE 480K BTU, 22 Tubes	UUT 12,13
Lennox - Electric Heat						
602425-01	3.4	13.1		11	7.5 KW, 230V, 1-phase	EXTRAP
602425-04	3.4	13.1		11	7.5 KW, 230V, 3-phase	EXTRAP
602425-08	3.4	13.1		11	7.5 KW, 460V, 3-phase	EXTRAP
602425-02	3.4	13.1		11	15 KW, 230V, 1-phase	UUT 1
602425-05	3.4	13.1		11	15 KW, 230V, 3-phase	INTERP
602425-09	3.4	13.1		11	15 KW, 460V, 3-phase	INTERP
602425-03	3.4	13.1		11	22.5 KW, 230V, 1-phase	INTERP
602425-06	3.4	13.1		11	22.5 KW, 230V, 3-phase	INTERP
602425-10	3.4	13.1		11	22.5 KW, 460V, 3-phase	INTERP
602425-07	3.4	13.1		11	30 KW, 230V, 3-phase	INTERP
602425-11	3.4	13.1		11	30 KW, 460V, 3-phase	UUT 3
602683-01	3.4	13.1		11	7.5 KW, 230V, 3-phase	INTERP
602683-02	3.4	13.1		11	7.5 KW, 460V, 3-phase	INTERP
602683-04	3.4	13.1		11	15 KW, 230V, 3-phase	INTERP
602683-05	3.4	13.1		11	15 KW, 460V, 3-phase	INTERP
602683-07	3.4	13.1		11	22.5 KW, 230V, 3-phase	INTERP
602683-08	3.4	13.1		11	22.5 KW, 460V, 3-phase	INTERP
602683-10	3.4	13.1		11	30 KW, 230V, 3-phase	INTERP
602683-11	3.4	13.1		11	30 KW, 460V, 3-phase	INTERP
602683-13	6.8	13.1		13	45 KW, 230V, 3-phase	INTERP
602683-14	6.8	13.1		13	45 KW, 460V, 3-phase	INTERP
602683-16	6.8	13.1		13	60 KW, 230V, 3-phase	UUT 5
602683-17	6.8	13.1		13	60 KW, 460V, 3-phase	INTERP
LB-66241AR & AS	3.4	13.1	QTY=2	11	30 KW, 230V, 3-phase	INTERP
LB-66241AX & AY	3.4	13.1	QTY=2	11	30 KW, 460V, 3-phase	INTERP
LB-66241AT (2)	3.4	13.1	QTY=2	11	45 KW, 230V, 3-phase	INTERP
LB-66241BA (2)	3.4	13.1	QTY=2	11	45 KW, 460V, 3-phase	UUT 9
LB-66241AP & AP	3.4	13.1	QTY=2	11	60 KW, 230V, 3-phase	INTERP
LB-66241AW & AW	3.4	13.1	QTY=2	11	60 KW, 460V, 3-phase	INTERP
LB-66241 W & X	3.4	13.1	QTY=2	11	30 KW, 230V, 3-phase	INTERP
LB-66241AC & AD	3.4	13.1	QTY=2	11	30 KW, 460V, 3-phase	INTERP
NOTES: Table continues on the next page. Additional notes, information, and seismic parameters are shown at the end of the table.						

ATTACHMENT 1: CERTIFIED SUBCOMPONENTS

SEISMIC COMPLIANCE REPORT

TABLE 2 - SUBCOMPONENTS (continued)

DOCUMENT NO.: 18061CR1.2

MANUFACTURER: LENNOX INDUSTRIES INC.						
PRODUCT FAMILY: ENERGENGE ROOFTOP UNITS						
MODEL NUMBER	DIMENSIONS (in)			MAX. WT. (lb)	DESCRIPTION / NOTES	BASIS
	DEPTH	WIDTH	HEIGHT			
Lennox - Electric Heat (continued)						
LB-66241AY (2)	3.4	13.1	QTY=2	11	45 KW, 230V, 3-phase	INTERP
LB-66241AE (2)	3.4	13.1	QTY=2	11	45 KW, 460V, 3-phase	INTERP
LB-66241C (2)	3.4	13.1	QTY=2	11	60 KW, 230V, 3-phase	INTERP
LB-66241H (2)	3.4	13.1	QTY=2	11	60 KW, 460V, 3-phase	INTERP
LB-66241AL (2)	6.8	13.1	QTY=2	13	90 KW, 460V, 3-phase	INTERP
LB-66241AN (2)	6.8	13.1	QTY=2	13	90 KW, 230V, 3-phase	UUT 11
Morrison - Blowers						
03-45331					10x10	UUT 1,2
03-55315					11x10	INTERP
03-74428					15x9	UUT 3,4
03-78805					15x15	UUT 5,6,12
Mitsubishi - Blower Control						
FR-D720-070-NA	4.3	5.0	5.3		Inverter 2HP, 230V, 3-phase	EXTRAP
FR-D740-036-NA	4.3	5.0	5.3		Inverter 2HP, 460V, 3-phase	UUT 6
FR-D720-100-NA	4.3	5.0	5.3		Inverter 3 HP, 230V, 3-phase	UUT 5,10
FR-D740-050-NA	4.3	5.0	6.1		Inverter 3 HP, 460V, 3-phase	UUT 9
FR-D720-165-NA	5.0	6.7	5.6		Inverter 5 HP, 230V, 3-phase	UUT 7,8
FR-D740-080-NA	4.3	5.0	6.5		Inverter 5 HP, 460V, 3-phase	INTERP
FR-D720-238-NA	6.3	8.7	6.1		Inverter 7.5 HP, 230V, 3-phase	INTERP
FR-D740-120-NA	6.3	8.7	6.1		Inverter 7.5 HP, 460V, 3-phase	INTERP
FR-D720-318-NA	6.3	8.7	6.1		Inverter 10HP, 230V, 3-phase	UUT 11
FR-D740-160-NA	6.3	8.7	6.1		Inverter 10 HP, 460V, 3-phase	UUT 12,13
Nidec - Belt Drive Blower Motor						
P63GZEKJ-5000	6.5	12.7	6.5		.75HP, 230V, 3-phase, 2 speed	EXTRAP
P63GZEKK-5001	6.5	12.7	6.5		.75HP, 460V, 3-phase, 2 speed	EXTRAP
P63GZEKM-5003	6.5	13.2	6.5		1HP, 230V, 3-phase, 2 speed	UUT 4
P63GZEKN-5004	6.5	13.2	6.5		1HP, 460V, 3-phase, 2 speed	INTERP
P63GZEKR-5006	6.5	14.7	6.5		2HP, 230V, 3-phase, 2 speed	UUT 3
P63GZEKS-5007	6.5	14.7	6.5		2HP, 460V, 3-phase, 2 speed	INTERP
P63TYEKE-4993	6.5	14.3	6.5		2HP, 230V, 3-phase, Hi, 1 speed	INTERP
P63TYEKD-4992	6.5	14.3	6.5		2HP, 460V, 3-phase, Hi, 1 speed	INTERP
DV42	8.0	15.4	8.0		5HP, 230V, 3-phase, Std	UUT 7,8
DV38	8.0	15.4	8.0		5HP, 460V, 3-phase, Std	INTERP
DV41	8.0	15.4	8.0		3HP, 230V, 3-phase, Hi	INTERP
DV37	8.0	15.4	8.0		3HP, 460V, 3-phase, Hi	INTERP
DV43	9.4	16.0	9.4		7.5HP, 230V, 3-phase	INTERP
DV39	9.4	16.0	9.4		7.5HP, 460V, 3-phase	INTERP
DV40	9.4	17.5	9.4		10HP, 460V, 3-phase	INTERP
DV44	9.4	17.5	9.4		10HP, 230V, 3-phase	UUT 11
NOTES: Table continues on the next page. Additional notes, information, and seismic parameters are shown at the end of the table.						

ATTACHMENT 1: CERTIFIED SUBCOMPONENTS

SEISMIC COMPLIANCE REPORT

TABLE 2 - SUBCOMPONENTS (continued)

DOCUMENT NO.: 18061CR1.2

MANUFACTURER: LENNOX INDUSTRIES INC.						
PRODUCT FAMILY: ENERGENGE ROOFTOP UNITS						
MODEL NUMBER	DIMENSIONS (in)			MAX. WT. (lb)	DESCRIPTION / NOTES	BASIS
	DEPTH	WIDTH	HEIGHT			
Welling - Belt Drive Blower Motor						
YSDK750-4C	6.5	12.7	6.5		1HP, 230V, 3-phase, Hi, 1 speed	EXTRAP
YSDK750-4D	6.5	12.7	6.5		1HP, 460V, 3-phase, Hi, 1 speed	EXTRAP
YSDK1500-4B	6.5	13.4	6.5		2HP, 230V, 3-phase	EXTRAP
YSDK1500-4C	6.5	13.4	6.5		2HP, 460V, 3-phase	UUT 6
YSDK2200-4H	6.5	13.8	6.5		3HP, 230V, 3-phase, Std	INTERP
YSDK2200-4I	6.5	13.8	6.5		3HP, 460V, 3-phase, Std	UUT 9
YSDK2200-4H-1	6.5	13.8	6.5		3HP, 230V, 3-phase, Std	INTERP
YSDK2200-4I-1	6.5	13.8	6.5		3HP, 460V, 3-phase, Std	UUT 9
Regal-Beloit - Direct Drive Blower Motor						
5SME39HXL3039	5.6	6.2	5.6		1/2HP	UUT 1
5SME39SXL3038	5.6	7.0	5.6		3/4HP	INTERP
5SME39NXL3037	5.6	7.7	5.6		1HP	UUT 2
Revcor - Condenser Fan Blade						
T2403-18	24.0	24.0			24" dia., 3 AL blade, CS spider	UUT 11-13
T2403-22	24.0	24.0			24" dia., 3 AL blade, CS spider	INTERP
T2403-24	24.0	24.0			24" dia., 3 AL blade, CS spider	UUT 10
Revcor (Air Drive) - Condenser Fan Blade						
3P24CW26	24.0	24.0			24" dia., 3 AL blade, CS spider	UUT 7,8
Nidec - Condenser Fan Motors PSC						
K55HXLVZ-2657	5.6	6.1	5.6		1/2HP, 230V, 2 speed	UUT 7,8
Interlink-Welling - Condenser Fan Motors PSC						
YSLB-110-8-B002	5.6	4.5	5.6		1/6HP, 460V	EXTRAP
YKS-250-6-65L	5.8	5.6	5.8		1/3HP, 208/230V	UUT 10,11
YKS-250-6-66L	5.8	5.6	5.8		1/3HP, 460V	UUT 9,12
BOMC - Condenser Fan Motors ECM						
ZWK702B002012	5.4	5.6	5.4		1/3HP, 208/230V	UUT 1
Basler Electric - Auto Transformer						
BE33654001	5.5	6.5	4.6	22		UUT 2
Jefferson Electric - Powered GFI Transformer						
411-B003-009	10.6	5.3	6.1	39		UUT 13
Creation Technologies - Control Box						
103956-18		8.0	14.5		Control board	UUT 1-13
103892-01		3.5	7.0		Adder board	UUT 9-13
System Sensor - Smoke Detector						
LD4SB	7.7	5.0	2.3		Smoke detector sensor	UUT 1-13
LD4P120BX	7.7	5.0	2.3		Smoke detector control board	UUT 1-13
Lennox - Disconnect Box						
LB-110338	4.0	5.1	14.9			UUT 1-4
607083-01	3.8	9.9	19.6			UUT 5
604539-01	4.3	10.0	20.0			UUT 10,12
606765	3.8	9.9	28.6			UUT 6-8
607549-01	4.3	10.0	28.5			UUT 9,11
NOTES: Table continues on the next page. Additional notes, information, and seismic parameters are shown at the end of the table.						

ATTACHMENT 1: CERTIFIED SUBCOMPONENTS

SEISMIC COMPLIANCE REPORT

TABLE 2 - SUBCOMPONENTS (continued)

DOCUMENT NO.: 18061CR1.2

MANUFACTURER: LENNOX INDUSTRIES INC.						
PRODUCT FAMILY: ENERGENGE ROOFTOP UNITS						
MODEL NUMBER	DIMENSIONS (in)			MAX. WT. (lb)	DESCRIPTION / NOTES	BASIS
	DEPTH	WIDTH	HEIGHT			
Socomec - Disconnect Switch						
22L23508	3.0	2.1	2.5		80A	UUT 3,9,12
Square D - Circuit Breakers						
JDP36250	3.7	4.1	7.5		250A	UUT 11
Noark - Circuit Breakers						
MIS15T3L	3.4	3.5	6.5		15A	UUT 2
MIS15T3LP	3.4	3.5	6.5		15A	INTERP
MIS20T3L	3.4	3.5	6.5		20A	INTERP
MIS20T3LP	3.4	3.5	6.5		20A	INTERP
MIS25T3L	3.4	3.5	6.5		25A	INTERP
MIS25T3LP	3.4	3.5	6.5		25A	INTERP
MIS30T3L	3.4	3.5	6.5		30A	INTERP
MIS30T3LP	3.4	3.5	6.5		30A	UUT 6
MIS35T3L	3.4	3.5	6.5		35A	INTERP
MIS35T3LP	3.4	3.5	6.5		35A	INTERP
MIS40T3L	3.4	3.5	6.5		40A	INTERP
MIS40T3LP	3.4	3.5	6.5		40A	INTERP
MIS45T3L	3.4	3.5	6.5		45A	UUT 4
MIS45T3LP	3.4	3.5	6.5		45A	INTERP
MIS50T3L	3.4	3.5	6.5		50A	INTERP
MIS50T3LP	3.4	3.5	6.5		50A	UUT 5
MIS60T3L	3.4	3.5	6.5		60A	INTERP
MIS60T3LP	3.4	3.5	6.5		60A	INTERP
MIS70T3L	3.4	3.5	6.5		70A	UUT 10
MIS70T3LP	3.4	3.5	6.5		70A	INTERP
MIS80T3L	3.4	3.5	6.5		80A	INTERP
MIS80T3LP	3.4	3.5	6.5		80A	INTERP
MIS90T3L	3.4	3.5	6.5		90A	UUT 7,8
MIS90T3LP	3.4	3.5	6.5		90A	UUT 1
Tri-Dim - Air Filters						
06016202LM4	2.0	16.0	20.0		Merv 4	UUT 1
2321620208-LS	2.0	16.0	20.0		Merv 8	INTERP
2481620213-LS	2.0	16.0	20.0		Merv 13	UUT 1
06020202LM4	2.0	20.0	20.0		Merv 4	UUT 3
2322020208-LS	2.0	20.0	20.0		Merv 8	INTERP
2482020213-LS	2.0	20.0	20.0		Merv 13	UUT 3
06020252LM4	2.0	20.0	25.0		Merv 4	UUT 6
2322025208-LS	2.0	20.0	25.0		Merv 8	INTERP
2482025213-LS	2.0	20.0	25.0		Merv 13	UUT 6
06024242LM4	2.0	24.0	24.0		Merv 4	UUT 11
2322424208-LS	2.0	24.0	24.0		Merv 8	INTERP
2482424213-LS	2.0	24.0	24.0		Merv 13	UUT 11
NOTES: Table continues on the next page. Additional notes, information, and seismic parameters are shown at the end of the table.						

ATTACHMENT 1: CERTIFIED SUBCOMPONENTS

SEISMIC COMPLIANCE REPORT

TABLE 2 - SUBCOMPONENTS (continued)

DOCUMENT NO.: 18061CR1.2

MANUFACTURER: LENNOX INDUSTRIES INC.						
PRODUCT FAMILY: ENERGENGE ROOFTOP UNITS						
MODEL NUMBER	DIMENSIONS (in)			MAX. WT. (lb)	DESCRIPTION / NOTES	BASIS
	DEPTH	WIDTH	HEIGHT			
Micrometal - Economizers						
EC-L104598-01				60	Standard	UUT 6
ECD-L103491-01				131	Standard w/ motor	INTERP
ECD-L103491-03				131	Low leakage w/ motor	UUT 3
EC-L104597-01				167	Standard	UUT 11
Ruskin - Economizers						
50-361-51C				60	Low leakage	UUT 5
50-361-52				167	Low leakage	UUT 12
Lennox - Economizer						
C1DAMP50C				30	Barometric relief damper	UUT 10
Lennox - Outside Air Damper						
C1DAMP20C-1				10	Manual w/ hood	EXTRAP
C1DAMP11A-1				30	Manual w/ hood	UUT 1
C1DAMP10B-2				39	Manual w/ hood	INTERP
C1DAMP21A-1				40	Automatic w/ hood	UUT 4
Micrometal - Outside Air Damper						
OA-L104446-01				18	Automatic w/ hood	UUT 9
OA-L104446-02				51	Automatic w/ hood	UUT 7,8
Lennox - Power Exhaust						
K1PWRE10B-1G				31	460V	UUT 6
K1PWRE10B-1Y				31	208/230V	INTERP
C1PWRE10A-1P				35	208/230V	INTERP
C1PWRE10A-1G				35	460V	UUT 3
C1PWRE11C-1Y				62	208/230V	UUT 11
C1PWRE11C-1G				62	460V	UUT 12,13
MOUNTING:	Mounted within unit.			SEISMIC LEVELS:	S _{DS} = 2.00g for z/h = 1 S _{DS} = 2.50g for z/h = 0 I _p = 1.5	
NOTES:	Construction/Options: Model number uniquely identifies manufacturer, materials, and configuration of subcomponents. 1. "LB-107350C (2)" is simply two "603380-03" heaters. The total weight is justified by UUT 12 which has the equivalent stainless steel heaters. Therefore, the extrapolation is justified.					

ATTACHMENT 1: SUBCOMPONENTS (REFERENCE ONLY)

SEISMIC COMPLIANCE REPORT

TABLE 3 - CURBS

DOCUMENT NO.: 18061CR1.2

MANUFACTURER: LENNOX INDUSTRIES INC.						
PRODUCT FAMILY: ENERGENGE ROOFTOP UNITS						
MODEL NUMBER	DIMENSIONS (in)			MAX. WT. (lb)	DESCRIPTION / NOTES	BASIS
	DEPTH	WIDTH	HEIGHT			
Lennox - A Box Downflow Curbs (carbon steel)						
C1CURB70A-1	79.8	41.5	8.0	66	0.048" thick	UUT 1,2
C1CURB71A-1	79.8	41.5	14.0	75	0.048" thick	INTERP
C1CURB72A-1	79.8	41.5	18.0	85	0.048" thick	INTERP
C1CURB73A-1	79.8	41.5	24.0	95	0.048" thick	UUT 3,4
Lennox - B Box Downflow Curbs (carbon steel)						
C1CURB70B-1	95.4	54.3	8.0	80	0.048" thick	UUT 5,6
C1CURB71B-1	95.4	54.3	14.0	94	0.048" thick	INTERP
C1CURB72B-1	95.4	54.3	18.0	108	0.048" thick	INTERP
C1CURB73B-1	95.4	54.3	24.0	122	0.048" thick	UUT 7,8
Lennox - C Box Downflow Curbs (carbon steel)						
C1CURB70C-1	102.0	86.1	8.0	85	0.048" thick	UUT 9
C1CURB71C-1	102.0	86.1	14.0	120	0.048" thick	INTERP
C1CURB72C-1	102.0	86.1	18.0	155	0.048" thick	INTERP
C1CURB73C-1	102.0	86.1	24.0	190	0.048" thick	UUT 11
Lennox - C Box Horizontal Flow Curbs (carbon steel)						
C1CURB14C-1	102.1	86.3	26.0	287	0.063" thick, 75" x 14" opening	UUT 10,13
C1CURB15C-1	102.1	86.3	30.0	327	0.063" thick, 75" x 18" opening	INTERP
C1CURB16C-1	102.1	86.3	37.0	369	0.063" thick, 75" x 14" opening	INTERP
C1CURB17C-1	102.1	86.3	41.0	409	0.063" thick, 75" x 18" opening	UUT 12
MOUNTING:	Unit is rigid floor mounted on curb. Curb is rigid floor mounted.			SEISMIC LEVELS:	S _{DS} = 2.00g for z/h = 1 S _{DS} = 2.50g for z/h = 0 I _p = 1.5	
NOTES:	Construction/Options: Model number uniquely identifies manufacturer, materials, and configuration of subcomponents.					

ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

SEISMIC COMPLIANCE REPORT

UUT 1

DOCUMENT NO.: 18061CR1.2

MANUFACTURER:		LENNOX INDUSTRIES INC.				
MODEL NUMBER:		LCH036H4EE3P				
UNIT FUNCTION:		ROOFTOP AIR HANDLING UNIT				
SERIAL NUMBER:		5619B06573				
DIMENSIONS (in)			WEIGHT (lb)	RES. FREQ. (Hz)		
DEPTH	WIDTH	HEIGHT		F-B	S-S	V
85.3	47.0	38.9	537	5.4	9.8	9.1
CODE & CRITERIA:		2016 CBC		ICC-ES AC156		
TEST LABORATORY:		ENVIRONMENTAL TESTING LABORATORY				
REPORT & DATE:		18061TR1.1		March 6, 2019		
S_{DS} (g)	z/h	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)	
2.00	1	3.20	2.40	1.68	0.68	
2.50	0					

IMPORTANCE FACTOR, I_p = 1.5	Unit was full of operating content during the shake table test. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
MOUNTING:	Unit is rigid floor mounted on 8in curb using (4) seismic brackets. Each bracket connects to curb with (4) #12 screws and to unit with (8) #12 screws. Curb is rigid floor mounted to fixture using (16) 1/2in Grade 8 bolts.
CONSTRUCTION:	Carbon steel enclosure
SUBCOMPONENTS:	Delphi Thermal Sys - Microchannel Condenser Coil (16466147), Lennox - Indoor Coil (602003-02), Lennox - Reheat Coil (605708), Copeland - Scroll Compressor (ZPS30K5E-PFV-130), Lennox - Electric Heat (602425-02), Morrison - Blower (03-45331), Regal-Beloit - Direct Drive Blower Motor (5SME39HXL3039), BOMC - Condenser Fan Motors ECM (ZWK702B002012), Creation Technologies - Control Box (103956-18), System Sensor - Smoke Detector (LD4SB, LD4P120BX), Lennox - Disconnect Box (LB-110338), Noark - Circuit Breaker (MIS90T3LP), Tri-Dim - Air Filters (06016202LM4, 2481620213-LS), Lennox - Outside Air Damper (C1DAMP11A-1), Lennox - Downflow Curb (C1CURB70A-1)
DATE : 09/26/2019	



ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

SEISMIC COMPLIANCE REPORT

UUT 2

DOCUMENT NO.: 18061CR1.2

MANUFACTURER:		LENNOX INDUSTRIES INC.				
MODEL NUMBER:		LGH048H4EM4G				
UNIT FUNCTION:		ROOFTOP AIR HANDLING UNIT				
SERIAL NUMBER:		5619B06925				
DIMENSIONS (in)			WEIGHT (lb)	RES. FREQ. (Hz)		
DEPTH	WIDTH	HEIGHT		F-B	S-S	V
85.3	47.0	38.9	651	6.2	9.5	9.2
CODE & CRITERIA:		2016 CBC		ICC-ES AC156		
TEST LABORATORY:		ENVIRONMENTAL TESTING LABORATORY				
REPORT & DATE:		18061TR1.1		March 6, 2019		
S_{DS} (g)	z/h	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)	
2.00	1	3.20	2.40	1.68	0.68	
2.50	0					

IMPORTANCE FACTOR, I_p = 1.5	Unit was full of operating content during the shake table test. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
MOUNTING:	Unit is rigid floor mounted on 8in curb using (4) seismic brackets. Each bracket connects to curb with (4) #12 screws and to unit with (8) #12 screws. Curb is rigid floor mounted to fixture using (16) 1/2in Grade 8 bolts.
CONSTRUCTION:	Carbon steel enclosure
SUBCOMPONENTS:	Lennox - Tube and Fin Condenser Coil (LB-109372A), Lennox - Indoor Coil (LB-109895C), Lennox - Reheat Coil (605708), Copeland - Scroll Compressor (ZPS40K5E-TFD-130), Lennox - Gas Heat (610032-02), Morrison - Blower (03-45331), Regal-Beloit - Direct Drive Blower Motor (5SME39NXL3037), Basler Electric - Auto Transformer (BE33654001), Creation Technologies - Control Box (103956-18), System Sensor - Smoke Detector (LD4SB, LD4P120BX), Lennox - Disconnect Box (LB-110338), Noark - Circuit Breaker (MIS15T3L), Lennox - Downflow Curb (C1CURB70A-1)



BY: Timothy J Piland

DATE: 09/26/2019



BY: Timothy J Piland

DATE: 09/26/2019

ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

SEISMIC COMPLIANCE REPORT

UUT 3

DOCUMENT NO.: 18061CR1.2

MANUFACTURER:		LENNOX INDUSTRIES INC.				
MODEL NUMBER:		LCH074H4TJ1G				
UNIT FUNCTION:		ROOFTOP AIR HANDLING UNIT				
SERIAL NUMBER:		5619B06930				
DIMENSIONS (in)			WEIGHT (lb)	RES. FREQ. (Hz)		
DEPTH	WIDTH	HEIGHT		F-B	S-S	V
85.3	47.0	46.9	759	3.4	8.1	8.9
CODE & CRITERIA:		2016 CBC		ICC-ES AC156		
TEST LABORATORY:		ENVIRONMENTAL TESTING LABORATORY				
REPORT & DATE:		18061TR1.1		March 7, 2019		
S_{DS} (g)	z/h	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)	
2.00	1	3.20	2.40	1.68	0.68	
2.50	0					
IMPORTANCE FACTOR, I_p = 1.5		Unit was full of operating content during the shake table test. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.				
MOUNTING:		Unit is rigid floor mounted on 24in curb using (4) seismic brackets. Each bracket connects to curb with (4) #12 screws and to unit with (8) #12 screws. Curb is rigid floor mounted to fixture using (16) 1/2in Grade 8 bolts.				
CONSTRUCTION:		Carbon steel enclosure				
SUBCOMPONENTS:		Delphi Thermal Sys - Microchannel Condenser Coil (16462973), Lennox - Indoor Coil (602347-05), Lennox - Reheat Coil (605709), Copeland - Scroll Compressor (ZPS60K5E-TFD-130), Lennox - Electric Heat (602425-11), Morrison - Blower (03-74428), Nidec - Belt Drive Blower Motor (P63GZEKR-5006), Creation Technologies - Control Box (103956-18), System Sensor - Smoke Detector (LD4SB, LD4P120BX), Lennox - Disconnect Box (LB-110338), Socomec - Disconnect Switch (22L23508), Tri-Dim - Air Filters (06020202LM4, 2482020213-LS), Micrometal - Economizer (ECD-L103491-03), Lennox - Power Exhaust (C1PWRE10A-1G), Lennox - Downflow Curb (C1CURB73A-1)				



DATE: 09/26/2019

ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

SEISMIC COMPLIANCE REPORT

UUT 4

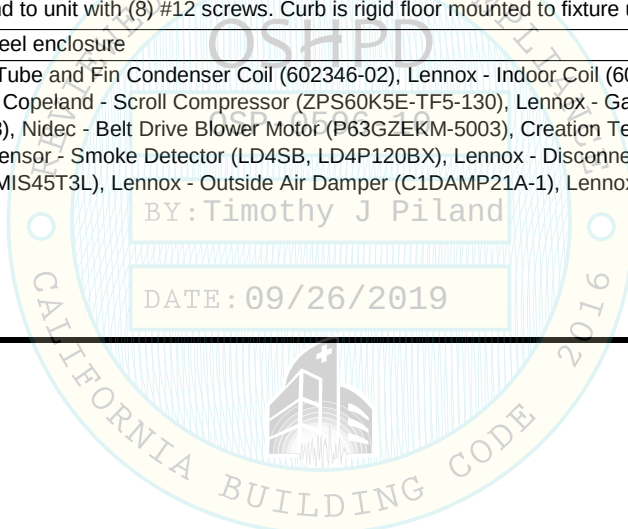
DOCUMENT NO.: 18061CR1.2

MANUFACTURER:		LENNOX INDUSTRIES INC.				
MODEL NUMBER:		LGH074H4TT1Y				
UNIT FUNCTION:		ROOFTOP AIR HANDLING UNIT				
SERIAL NUMBER:		5619B06938				
DIMENSIONS (in)			WEIGHT (lb)	RES. FREQ. (Hz)		
DEPTH	WIDTH	HEIGHT		F-B	S-S	V
85.3	47.0	46.9	749	4.3	9.0	9.7
CODE & CRITERIA:		2016 CBC		ICC-ES AC156		
TEST LABORATORY:		ENVIRONMENTAL TESTING LABORATORY				
REPORT & DATE:		18061TR1.1		March 7, 2019		
S_{DS} (g)	z/h	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)	
2.00	1	3.20	2.40	1.68	0.68	
2.50	0					

IMPORTANCE FACTOR, I_p = 1.5	Unit was full of operating content during the shake table test. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
MOUNTING:	Unit is rigid floor mounted on 24in curb using (4) seismic brackets. Each bracket connects to curb with (4) #12 screws and to unit with (8) #12 screws. Curb is rigid floor mounted to fixture using (16) 1/2in Grade 8 bolts.
CONSTRUCTION:	Carbon steel enclosure
SUBCOMPONENTS:	Lennox - Tube and Fin Condenser Coil (602346-02), Lennox - Indoor Coil (602347-05), Lennox - Reheat Coil (605709), Copeland - Scroll Compressor (ZPS60K5E-TF5-130), Lennox - Gas Heat (610032-05), Morrison - Blower (03-74428), Nidec - Belt Drive Blower Motor (P63GZEKM-5003), Creation Technologies - Control Box (103956-18), System Sensor - Smoke Detector (LD4SB, LD4P120BX), Lennox - Disconnect Box (LB-110338), Noark - Circuit Breaker (MIS45T3L), Lennox - Outside Air Damper (C1DAMP21A-1), Lennox - Downflow Curb (C1CURB73A-1)

BY: Timothy J Piland

DATE: 09/26/2019



ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

SEISMIC COMPLIANCE REPORT

UUT 5

DOCUMENT NO.: 18061CR1.2

MANUFACTURER:		LENNOX INDUSTRIES INC.				
MODEL NUMBER:		LCH102H4MN3Y				
UNIT FUNCTION:		ROOFTOP AIR HANDLING UNIT				
SERIAL NUMBER:		5619B06273				
DIMENSIONS (in)			WEIGHT (lb)	RES. FREQ. (Hz)		
DEPTH	WIDTH	HEIGHT		F-B	S-S	V
101.3	60.1	46.9	1026	4.1	7.6	10.7
CODE & CRITERIA:		2016 CBC		ICC-ES AC156		
TEST LABORATORY:		ENVIRONMENTAL TESTING LABORATORY				
REPORT & DATE:		18061TR1.1		March 6, 2019		
S_{DS} (g)	z/h	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)	
2.00	1	3.20	2.40	1.68	0.68	
2.50	0					

IMPORTANCE FACTOR, I_p = 1.5	Unit was full of operating content during the shake table test. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
MOUNTING:	Unit is rigid floor mounted on 8in curb using (6) seismic brackets. Each bracket connects to curb with (4) #12 screws and to unit with (8) #12 screws. Curb is rigid floor mounted to fixture using (16) 1/2in Grade 8 bolts.
CONSTRUCTION:	Carbon steel enclosure
SUBCOMPONENTS:	Delphi Thermal Sys - Microchannel Condenser Coil (16463803), Lennox - Indoor Coil (603331-06), Lennox - Reheat Coil (605600), Interlink - Scroll Compressor (AQA042RAA), Lennox - Electric Heat (602683-16), Morrison - Blower (03-78805), Mitsubishi - Blower Control (FR-D720-100-NA), Creation Technologies - Control Box (103956-18), System Sensor - Smoke Detector (LD4SB, LD4P120BX), Lennox - Disconnect Box (607083-01), Noark - Circuit Breakers (MIS50T3LP), Ruskin - Economizer (50-361-51C), Lennox - Downflow Curb (C1CURB70B-1)

BY: Timothy J Piland

DATE: 09/26/2019



BY: Timothy J Piland

DATE: 09/26/2019

ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

SEISMIC COMPLIANCE REPORT

UUT 6

DOCUMENT NO.: 18061CR1.2

MANUFACTURER:	LENNOX INDUSTRIES INC.
MODEL NUMBER:	LGH120H4MH3G
UNIT FUNCTION:	ROOFTOP AIR HANDLING UNIT
SERIAL NUMBER:	5619B06581

DIMENSIONS (in)			WEIGHT (lb)	RES. FREQ. (Hz)		
DEPTH	WIDTH	HEIGHT		F-B	S-S	V
101.3	60.1	46.9	1330	5.4	6.9	10.0

CODE & CRITERIA:	2016 CBC	ICC-ES AC156
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TEST LABORATORY:	ENVIRONMENTAL TESTING LABORATORY
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REPORT & DATE:	18061TR1.1	March 6, 2019
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S _{DS} (g)	z/h	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)
2.00	1	3.20	2.40	1.68	0.68
2.50	0				



IMPORTANCE FACTOR, I_p = 1.5	Unit was full of operating content during the shake table test. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
MOUNTING:	Unit is rigid floor mounted on 8in curb using (6) seismic brackets. Each bracket connects to curb with (4) #12 screws and to unit with (8) #12 screws. Curb is rigid floor mounted to fixture using (16) 1/2in Grade 8 bolts.
CONSTRUCTION:	Carbon steel enclosure
SUBCOMPONENTS:	Lennox - Tube and Fin Condenser Coil (602942-02), Lennox - Indoor Coil (603331-06), Lennox - Reheat Coil (605556), Interlink - Scroll Compressor (ABA051WAA), Lennox - Gas Heat (603380-06), Morrison - Blower (03-78805), Mitsubishi - Blower Control (FR-D740-036-NA), Welling - Belt Drive Blower Motor (YSDK1500-4C), Creation Technologies - Control Box (103956-18), System Sensor - Smoke Detector (LD4SB, LD4P120BX), Lennox - Disconnect Box (606765), Noark - Circuit Breaker (MIS30T3LP), Tri-Dim - Air Filters (06020252LM4, 2482025213-LS), Micrometal - Economizer (EC-L104598-01), Lennox - Power Exhaust (K1PWRE10B-1G), Lennox - Downflow Curb (C1CURB70B-1)
DATE: 09/26/2019	

ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

SEISMIC COMPLIANCE REPORT

UUT 7

DOCUMENT NO.: 18061CR1.2

MANUFACTURER:		LENNOX INDUSTRIES INC.				
MODEL NUMBER:		LGH150H4MH1Y				
UNIT FUNCTION:		ROOFTOP AIR HANDLING UNIT				
SERIAL NUMBER:		5619B07205				
DIMENSIONS (in)			WEIGHT (lb)	RES. FREQ. (Hz)		
DEPTH	WIDTH	HEIGHT		F-B	S-S	V
101.3	60.1	46.9	1245	4.0	6.3	9.4
CODE & CRITERIA:		2016 CBC		ICC-ES AC156		
TEST LABORATORY:		ENVIRONMENTAL TESTING LABORATORY				
REPORT & DATE:		18061TR1.1		March 7, 2019		
S_{DS} (g)	z/h	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)	
2.00	1	3.20	2.40	1.68	0.68	
2.50	0					

IMPORTANCE FACTOR, I_p = 1.5	Unit was full of operating content during the shake table test. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
MOUNTING:	Unit is rigid floor mounted on 24in curb using (6) seismic brackets. Each bracket connects to curb with (4) #12 screws and to unit with (8) #12 screws. Curb is rigid floor mounted to fixture using (16) 1/2in Grade 8 bolts.
CONSTRUCTION:	Carbon steel enclosure
SUBCOMPONENTS:	Lennox - Tube and Fin Condenser Coil (620015-01), Lennox - Indoor Coil (603743-02), Lennox - Reheat Coil (605556), Copeland - Scroll Compressor (ZP61K5E-TF5-130), Lennox - Gas Heat (603380-03), Mitsubishi - Blower Control (FR-D720-165-NA), Nidec - Belt Drive Blower Motor (DV42), Revcor (Air Drive) - Condenser Fan Blade (3P24CW26), Nidec - Condenser Fan Motors PSC (K55HXLVZ-2657), Creation Technologies - Control Box (103956-18), System Sensor - Smoke Detector (LD4SB, LD4P120BX), Lennox - Disconnect Box (606765), Noark - Circuit Breakers (MIS90T3L), Micrometal - Outside Air Damper (OA-L104446-02), Lennox - Downflow Curb (C1CURB73B-1)



DATE : 09/26/2019



DATE: 09/26/2019

ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

SEISMIC COMPLIANCE REPORT

UUT 8

DOCUMENT NO.: 18061CR1.2

MANUFACTURER:		LENNOX INDUSTRIES INC.				
MODEL NUMBER:		LGH150H4MH1Y				
UNIT FUNCTION:		ROOFTOP AIR HANDLING UNIT				
SERIAL NUMBER:		5619B07205				
DIMENSIONS (in)			WEIGHT (lb)	RES. FREQ. (Hz)		
DEPTH	WIDTH	HEIGHT		F-B	S-S	V
101.3	60.1	46.9	1299	4.8	2.6	2.3
CODE & CRITERIA:		2016 CBC		ICC-ES AC156		
TEST LABORATORY:		ENVIRONMENTAL TESTING LABORATORY				
REPORT & DATE:		18061TR1.1		March 5, 2019		
S_{DS} (g)	z/h	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)	
2.00	1	3.20	2.40	1.68	0.68	
2.50	0					

IMPORTANCE FACTOR, I_p = 1.5	Unit was full of operating content during the shake table test. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
MOUNTING:	Unit is rigid floor mounted on 24in curb using (6) seismic brackets. Each bracket connects to curb with (4) #12 screws and to unit with (8) #12 screws. Curb is rigid floor mounted to fixture using (16) 1/2in Grade 8 bolts.
CONSTRUCTION:	Carbon steel enclosure
SUBCOMPONENTS:	Lennox - Tube and Fin Condenser Coil (616403-01 [2]), Lennox - Indoor Coil (603743-02), Lennox - Reheat Coil (605556), Copeland - Scroll Compressor (ZP61K5E-TF5-130), Lennox - Gas Heat (603380-03), Mitsubishi - Blower Control (FR-D720-165-NA), Nidec - Belt Drive Blower Motor (DV42), Revcor (Air Drive) - Condenser Fan Blade (3P24CW26), Nidec - Condenser Fan Motors PSC (K55HXLVZ-2657), Creation Technologies - Control Box (103956-18), System Sensor - Smoke Detector (LD4SB, LD4P120BX), Lennox - Disconnect Box (606765), Noark - Circuit Breakers (MIS90T3L), Micrometal - Outside Air Damper (OA-L104446-02), Lennox - Downflow Curb (C1CURB73B-1)
TESTING NOTES:	UUT 8 is the same physical unit as UUT 7 but with the coil changed out.



ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

SEISMIC COMPLIANCE REPORT

UUT 9

DOCUMENT NO.: 18061CR1.2

MANUFACTURER:		LENNOX INDUSTRIES INC.				
MODEL NUMBER:		LCH156H4MK4G				
UNIT FUNCTION:		ROOFTOP AIR HANDLING UNIT				
SERIAL NUMBER:		5619B07458				
DIMENSIONS (in)			WEIGHT (lb)	RES. FREQ. (Hz)		
DEPTH	WIDTH	HEIGHT		F-B	S-S	V
107.8	91.1	54.3	1955	5.2	6.8	10.4
CODE & CRITERIA:		2016 CBC		ICC-ES AC156		
TEST LABORATORY:		ENVIRONMENTAL TESTING LABORATORY				
REPORT & DATE:		18061TR1.1		March 5, 2019		
S_{DS} (g)	z/h	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)	
2.00	1	3.20	2.40	1.68	0.68	
2.50	0					
IMPORTANCE FACTOR, I_p = 1.5		Unit was full of operating content during the shake table test. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.				
MOUNTING:		Unit is rigid floor mounted on 8in curb using (8) seismic brackets. Each bracket connects to curb with (4) #12 screws and to unit with (8) #12 screws. Curb is rigid floor mounted to fixture using (20) 1/2in Grade 8 bolts.				
CONSTRUCTION:		Carbon steel enclosure				
SUBCOMPONENTS:		Delphi Thermal Sys - Microchannel Condenser Coil (16486423-A1 [2]), Lennox - Indoor Coil (602538-02), Lennox - Reheat Coil (605600), Interlink - Scroll Compressor (ABA044WAA), Lennox - Electric Heat (LB-66241BA [2]), Mitsubishi - Blower Control (FR-D740-050-NA), Welling - Belt Drive Blower Motor (YSDK2200-4I-1), Interlink-Welling - Condenser Fan Motors PSC (YKS-250-6-66L), Creation Technologies - Control Box (103956-18, 103892-01), System Sensor - Smoke Detector (LD4SB, LD4P120BX), Lennox - Disconnect Box (607549-01), Socomec - Disconnect Switch (22L23508), Micrometal - Outside Air Damper (OA-L104446-01), Lennox - Downflow Curb (C1CURB70C-1)				



DATE : 09/26/2019



DATE: 09/26/2019

ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

SEISMIC COMPLIANCE REPORT

UUT 10

DOCUMENT NO.: 18061CR1.2

MANUFACTURER:		LENNOX INDUSTRIES INC.				
MODEL NUMBER:		LGH156H4MM4Y				
UNIT FUNCTION:		ROOFTOP AIR HANDLING UNIT				
SERIAL NUMBER:		5619B07461				
DIMENSIONS (in)			WEIGHT (lb)	RES. FREQ. (Hz)		
DEPTH	WIDTH	HEIGHT		F-B	S-S	V
107.8	91.1	54.3	2198	5.0	6.4	10.8
CODE & CRITERIA:		2016 CBC		ICC-ES AC156		
TEST LABORATORY:		ENVIRONMENTAL TESTING LABORATORY				
REPORT & DATE:		18061TR1.1		March 5, 2019		
S_{DS} (g)	z/h	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)	
2.00	1	3.20	2.40	1.68	0.68	
2.50	0					

IMPORTANCE FACTOR, I_p = 1.5	Unit was full of operating content during the shake table test. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
MOUNTING:	Unit is rigid floor mounted on 26in curb using (8) seismic brackets. Each bracket connects to curb with (4) #12 screws and to unit with (8) #12 screws. Curb is rigid floor mounted to fixture using (20) 1/2in Grade 8 bolts.
CONSTRUCTION:	Carbon steel enclosure
SUBCOMPONENTS:	Lennox - Tube and Fin Condenser Coil (618878-01), Lennox - Indoor Coil (602538-02), Lennox - Reheat Coil (605600), Copeland - Scroll Compressor (ZP44K5E-TF5), Lennox - Gas Heat (LB-107350B [2]), Mitsubishi - Blower Control (FR-D720-100-NA), Revcor - Condenser Fan Blade (T2403-24), Interlink-Welling - Condenser Fan Motors PSC (YKS-250-6-65L), Creation Technologies - Control Box (103956-18, 103892-01), System Sensor - Smoke Detector (LD4SB, LD4P120BX), Lennox - Disconnect Box (604539-01), Noark - Circuit Breaker (MIS70T3L), Lennox - Economizer (C1DAMP50C), Lennox - Horizontal Flow Curb (C1CURB14C-1)

DATE : 09/26/2019



DATE: 09/26/2019

ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

SEISMIC COMPLIANCE REPORT

UUT 11

DOCUMENT NO.: 18061CR1.2

MANUFACTURER:		LENNOX INDUSTRIES INC.				
MODEL NUMBER:		LCH240H4MP3Y				
UNIT FUNCTION:		ROOFTOP AIR HANDLING UNIT				
SERIAL NUMBER:		5619B07569				
DIMENSIONS (in)			WEIGHT (lb)	RES. FREQ. (Hz)		
DEPTH	WIDTH	HEIGHT		F-B	S-S	V
133.1	91.1	54.3	2516	5.3	6.0	8.7
CODE & CRITERIA:		2016 CBC		ICC-ES AC156		
TEST LABORATORY:		ENVIRONMENTAL TESTING LABORATORY				
REPORT & DATE:		18061TR1.1		March 4, 2019		
S_{DS} (g)	z/h	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)	
2.00	1	3.20	2.40	1.68	0.68	
2.50	0					
IMPORTANCE FACTOR, I_p = 1.5		Unit was full of operating content during the shake table test. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.				
MOUNTING:		Unit is rigid floor mounted on 24in curb using (8) seismic brackets. Each bracket connects to curb with (4) #12 screws and to unit with (8) #12 screws. Curb is rigid floor mounted to fixture using (20) 1/2in Grade 8 bolts.				
CONSTRUCTION:		Carbon steel enclosure				
SUBCOMPONENTS:		Lennox - Tube and Fin Condenser Coil (602096-02), Lennox - Indoor Coil (602798-02), Lennox - Reheat Coil (605600), Interlink - Scroll Compressor (ABA051RAA), Lennox - Electric Heat (LB-66241AN [2]), Mitsubishi - Blower Control (FR-D720-318-NA), Nidec - Belt Drive Blower Motor (DV44), Revcor - Condenser Fan Blade (T2403-18), Interlink-Welling - Condenser Fan Motors PSC (YKS-250-6-65L), Creation Technologies - Control Box (103956-18, 103892-01), System Sensor - Smoke Detector (LD4SB, LD4P120BX), Lennox - Disconnect Box (607549-01), Square D - Circuit Breaker (JDP36250), Tri-Dim - Air Filters (06024242LM4, 2482424213-LS), Micrometal - Economizer (EC-L104597-01), Lennox - Power Exhaust (C1PWRE11C-1Y), Lennox - Downflow Curb (C1CURB73C-1)				
		DATE : 09/26/2019				



DATE: 09/26/2019

ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

SEISMIC COMPLIANCE REPORT

UUT 12

DOCUMENT NO.: 18061CR1.2

MANUFACTURER:		LENNOX INDUSTRIES INC.				
MODEL NUMBER:		LGH300S4MH4G				
UNIT FUNCTION:		ROOFTOP AIR HANDLING UNIT				
SERIAL NUMBER:		5619B07463				
DIMENSIONS (in)			WEIGHT (lb)	RES. FREQ. (Hz)		
DEPTH	WIDTH	HEIGHT		F-B	S-S	V
133.1	91.1	54.3	2628	3.8	5.8	10.1
CODE & CRITERIA:		2016 CBC		ICC-ES AC156		
TEST LABORATORY:		ENVIRONMENTAL TESTING LABORATORY				
REPORT & DATE:		18061TR1.1		March 4, 2019		
S_{DS} (g)	z/h	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)	
2.00	1	3.20	2.40	1.68	0.68	
2.50	0					

IMPORTANCE FACTOR, I_p = 1.5	Unit was full of operating content during the shake table test. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.
MOUNTING:	Unit is rigid floor mounted on 41in curb using (6) seismic brackets. Each bracket connects to curb with (4) #12 screws and to unit with (8) #12 screws. Curb is rigid floor mounted to fixture using (20) 1/2in Grade 8 bolts.
CONSTRUCTION:	Carbon steel enclosure
SUBCOMPONENTS:	Dephi Thermal Sys - Microchannel Condenser Coil (16467085 [2]), Lennox - Indoor Coil (602798-02), Lennox - Reheat Coil (605600), Copeland - Scroll Compressor (ZP61K5E-TFD-130), Lennox - Gas Heat (LB-107350F [2]), Morrison - Blower (03-78805), Mitsubishi - Blower Control (FR-D740-160-NA), Revcor - Condenser Fan Blade (T2403-18), Interlink-Welling - Condenser Fan Motors PSC (YKS-250-6-66L), Creation Technologies - Control Box (103956-18, 103892-01), System Sensor - Smoke Detector (LD4SB, LD4P120BX), Lennox - Disconnect Box (604539-01), Socomec - Disconnect Switch (22L23508), Ruskin - Economizer (50-361-52), Lennox - Power Exhaust (C1PWRE11C-1G), Lennox - Horizontal Flow Curb (C1CURB17C-1)



DATE : 09/26/2019



DATE: 09/26/2019

ATTACHMENT 2: UNIT UNDER TEST SUMMARIES

SEISMIC COMPLIANCE REPORT

UUT 13

DOCUMENT NO.: 18061CR1.2

MANUFACTURER:		LENNOX INDUSTRIES INC.				
MODEL NUMBER:		LGH300S4MH4G				
UNIT FUNCTION:		ROOFTOP AIR HANDLING UNIT				
SERIAL NUMBER:		5619B07463				
DIMENSIONS (in)			WEIGHT (lb)	RES. FREQ. (Hz)		
DEPTH	WIDTH	HEIGHT		F-B	S-S	V
133.1	91.1	54.3	2668	4.6	6.4	9.5
CODE & CRITERIA:		2016 CBC		ICC-ES AC156		
TEST LABORATORY:		ENVIRONMENTAL TESTING LABORATORY				
REPORT & DATE:		18061TR1.1		March 27, 2019		
S_{DS} (g)	z/h	A_{FLX-H} (g)	A_{RIG-H} (g)	A_{FLX-V} (g)	A_{RIG-V} (g)	
2.00	1	3.20	2.40	1.68	0.68	
2.50	0					
IMPORTANCE FACTOR, I_p = 1.5		Unit was full of operating content during the shake table test. Unit maintained structural integrity and remained functional per manufacturer requirement after shake table test.				
MOUNTING:		Unit is rigid floor mounted on 26in curb using (8) seismic brackets. Each bracket connects to curb with (4) #12 screws and to unit with (8) #12 screws. Curb is rigid floor mounted to fixture using (20) 1/2in Grade 8 bolts.				
CONSTRUCTION:		Carbon steel enclosure				
SUBCOMPONENTS:		Dephi Thermal Sys - Microchannel Condenser Coil (16467085 [2]), Lennox - Indoor Coil (602798-02), Lennox - Reheat Coil (605600), Copeland - Scroll Compressor (ZP61K5E-TFD-130), Lennox - Gas Heat (LB-107350F [2]), Morrison - Blower (03-78805), Mitsubishi - Blower Control (FR-D740-160-NA), Revcor - Condenser Fan Blade (T2403-18), Interlink-Welling - Condenser Fan Motors PSC (YKS-250-6-66L), Jefferson Electric - Powered GFI Transformer (411-B003-009), Creation Technologies - Control Box (103956-18, 103892-01), System Sensor - Smoke Detector (LD4SB, LD4P120BX), Lennox - Disconnect Box (604539-01), Socomec - Disconnect Switch (22L23508), Ruskin - Economizer (50-361-52), Lennox - Power Exhaust (C1PWRE11C-1G), Lennox - Horizontal Flow Curb (C1CURB14C-1)				
TESTING NOTES:		UUT 13 is the same physical unit as UUT 12 but with the added Powered GFI Transformer.				



SEISMIC COMPLIANCE REPORT

DOCUMENT NO.: 18061CR1.2

2	Unit Type	C	Packaged Electric Cooling w/ optional Electric Heat
		G	Packaged Gas Heat w/ Electric Cooling
3	Major Design Sequence	H	1st Generation
4-6	Nominal Cooling Capacity - Tons	036	3 Tons
		048	4 Tons
		060	5 Tons
		072	6 Tons
		074	6 Tons
7	Cooling Efficiency	H	High Efficiency
		S	Standard Efficiency
8	Refrigerant Type	4	R-410A
9	Blower Type	E	Direct Drive (ECM)
		T	Belt Drive (2 Speed)
		B	Belt Drive (1 Speed)
10	Heating Type	N	No Heat (Unit Type C only)
		C	7.5 kW Electric Heat (Unit Type C only)
		E	15 kW Electric Heat (Unit Type C only)
		G	22.5 kW Electric Heat (Unit Type C only)
		J	30 kW Electric Heat (Unit Type C only)
		S	Standard Gas Heat, 1 Stage (Unit Type G only)
		M	Medium Gas Heat, 1 Stage (Unit Type G only)
		U	Medium Gas Heat, 2 Stage (Unit Type G only)
		T	High Gas Heat, 1 Stage (Unit Type G only)
		H	High Gas Heat, 2 Stage (Unit Type G only)
		W	Standard Gas Heat, 1 Stage, Low NOx (Unit Type G only)
		B	Standard Gas Heat, 2 Stage, Low NOx (Unit Type G only)
		Y	Medium Gas Heat, 1 Stage, Low NOx (Unit Type G only)
		C	Medium Gas Heat, 2 Stage, Low NOx (Unit Type G only)

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