OFFICE USE ONLY APPLICATION FOR OSHPD SPECIAL SEISMIC **CERTIFICATION PREAPPROVAL (OSP) APPLICATION #:** OSP - 0442 **OSHPD Special Seismic Certification Preapproval (OSP)** ☐ New ☐ Renewal **Manufacturer Information** Loren Cook Company Manufacturer: Manufacturer's Technical Representative: Bradley F. Skidmore, P.E. Mailing Address: 2015 E Dale St., Springfield, MO 65803 Telephone: 417-869-6474 bskidmore@lorencook.com **Product Information** Product Name: QMX-VP/QMXHP-VP Product Type: Belt Drive Laboratory Exhaust Fans See Attachment Product Model Number: (List all unique product identification numbers and/or part numbers) hammad Aliaari General Description: Belt drive laboratory exhaust fans with mixing box and fiberglass discharge nozzle. Mounting Description: Rigid base mounted on 18" high curb, maximum **Applicant Information** Applicant Company Name: TRU Compliance, by Structural Integrity Associates, Inc. Contact Person: Galen Reid Mailing Address: 5215 Hellyer Ave., Suite 210, San Jose, CA 95138 Telephone: 541-604-7225 Email: greid@structint.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: 8/7/2019 Title: Program Manager Company Name: TRU Compliance, by Structural Integrity Associates, Inc.

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





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e: Andrew Coughlin, SE						
Company Name: _TRU Compliance, by Structural Integrity Associates, Inc.						
Name: Andrew Coughlin, SE California License Number: S6082						
Mailing Address: 5215 Hellyer Ave, Suite 210, San Jose, CA 94608						
Telephone: (844) 878-0200 Email: acoughlin@structint.com						
Supports and Attachments Preapproval						
(Separate application for OSHPD Preapproval of Manufacturer's Certification (OPM) of Supports and attachments is required)						
Illing Address: 5215 Hellyer Ave, Suite 210, San Jose, CA 94608 ephone: (844) 878-0200						
00000110						
BY: Mohammad Aliaari						
Testing Laboratory DATE: 10/23/2020						
ing Address: 5215 Hellyer Ave, Suite 210, San Jose, CA 94608 phone: (844) 878-0200 Email: acoughlin@structint.com ports 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 tification Method Testing in accordance with: ICC-ES AC156 Other (Please Specify): OSP-0442 BY: Mohammad Aliaari ting Laboratory DATE: 10/23/2020						
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OSP-0442



OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT FACILITIES DEVELOPMENT DIVISION

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





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1900241-CR-001 R0

Manufacturer: Loren Cook Company
Model Line: QMX-VP/QMXHP-VP

TABLE 1

Certified Product Construction Summary:

Painted carbon steel welded housing. Carbon steel welded wheel. Stainless steel shaft. Stainless steel hardware. NEMA 3R disconnect.

Certified Options Summary:

Belt drive. With or without fiberglass reinforced plastic induction nozzle. With or without mixing box. Standard pressure (QMX-VP) or high pressure (QMXHP-VP).

*Dimensions and weight shown are with curb, nozzle, and mixing box.

Mounting Configuration:

Rigid base mounted on 18" high curb, maximum

Building Code:	CBC 2019	Seismic (Certification	on Limits:			z/h=1.0 z/h=0.0	/ _P = 1.5
Madallina	4.0	*Di	mensions	(in)-2	*Weight			
Model Line	Model	Depth	Width	Height	(lb)	\	Notes	UUT
	90QMX <mark>VP09</mark> H	R28.0	138.0m	110.0	1,023			1
	90QMX <mark>VP09L</mark>	28.0	38.0	92.0	1,023	0		Interp.
	120QMX <mark>VP09</mark> H	28.0	40.4	100.0	1,277			Interp.
	120QMXVP09L	28.0	40.4	100.0	1,277			Interp.
	120QMXVP12H	28.0	40.4	100.0	1,277	~/		Interp.
	120QMXVP12L	28.0	40.4	100.0	1,277			Interp.
	135QMXVP09H	28.0	41.6	108.0	1,403			Interp.
	135QMXVP09L	28.0	41.6	108.0	1,403			Interp.
	135QMXVP12H	28.0	41.6	108.0	1,403			Interp.
	135QMXVP12L	28.0	41.6	108.0	1,403			Interp.
	150QMXVP09H	30.0	44.1	120.0	1,542			Interp.
OMY VD	150QMXVP09L	30.0	44.1	120.0	1,542			Interp.
QMX-VP	150QMXVP12H	30.0	44.1	120.0	1,542			Interp.
	150QMXVP12L	30.0	44.1	120.0	1,542			Interp.
	150QMXVP15H	30.0	44.1	120.0	1,542			Interp.
	150QMXVP15L	30.0	44.1	120.0	1,542			Interp.
	165QMXVP09H	32.0	45.5	125.0	1,750			Interp.
	165QMXVP09L	32.0	45.5	125.0	1,750			Interp.
	165QMXVP12H	32.0	45.5	125.0	1,750			Interp.
	165QMXVP12L	32.0	45.5	125.0	1,750			Interp.
	165QMXVP15H	32.0	45.5	125.0	1,750			Interp.
	165QMXVP15L	32.0	45.5	125.0	1,750			Interp.
	180QMXVP12H	34.0	48.0	133.0	2,120			Interp.
	180QMXVP12L	34.0	48.0	133.0	2,120			Interp.





1900241-CR-001 R0

Manufacturer: Loren Cook Company
Model Line: QMX-VP/QMXHP-VP

TABLE 1

Certified Product Construction Summary:

Painted carbon steel welded housing. Carbon steel welded wheel. Stainless steel shaft. Stainless steel hardware. NEMA 3R disconnect.

Certified Options Summary:

Belt drive. With or without fiberglass reinforced plastic induction nozzle. With or without mixing box. Standard pressure (QMX-VP) or high pressure (QMXHP-VP).

*Dimensions and weight shown are with curb, nozzle, and mixing box.

Mounting Configuration:

Rigid base mounted on 18" high curb, maximum

Building Code:	CBC 2019	Seismic C	Certification	on Limits:			z/h=1.0 z/h=0.0	/ _P = 1.5
Model Line	Model	*Di	mensions	(in)-2	*Weight	M		UU1
Model Line	Model	Depth	Width	Height	(lb)		Notes	001
	180QMX <mark>VP15</mark> H	R34.0	48.0m	133.0	2,120			Inter
	180QMXVP15L	34.0	48.0	133.0	2,120	0		Inter
	180QMX <mark>VP18</mark> H	34.0	48.0	133.0	2,120			Inter
	180QMXVP18L	34.0	48.0	133.0	2,120			Inter
	202QMXVP12H	38.0	51.9	143.0	2,405			Inter
	202QMXVP12L	38.0	51.9	143.0	2,405			Inter
	202QMXVP15H	38.0	51.9	143.0	2,405			Inter
	202QMXVP15L	38.0	51.9	143.0	2,405			Inter
	202QMXVP18H	38.0	51.9	143.0	2,405			Inter
	202QMXVP18L	38.0	51.9	143.0	2,405			Inter
	202QMXVP21H	38.0	51.9	143.0	2,405			Inte
OMY VD	202QMXVP21L	38.0	51.9	143.0	2,405			Inte
QMX-VP	225QMXVP12H	42.0	58.0	154.0	2,765			Inte
	225QMXVP15H	42.0	58.0	154.0	2,765			Inte
	225QMXVP15L	42.0	58.0	154.0	2,765			Inte
	225QMXVP18H	42.0	58.0	154.0	2,765			Inte
	225QMXVP18L	42.0	58.0	154.0	2,765			Inte
	225QMXVP21H	42.0	58.0	154.0	2,765			Inte
	225QMXVP21L	42.0	58.0	154.0	2,765			Inter
	245QMXVP15H	44.0	60.6	165.0	3,019			Inter
	245QMXVP15L	44.0	60.6	165.0	3,019			Inter
	245QMXVP18H	44.0	60.6	165.0	3,019			Inter
	245QMXVP18L	44.0	60.6	165.0	3,019			Inter
	245QMXVP21H	44.0	60.6	165.0	3,019			Inter





1900241-CR-001 R0

Manufacturer: Loren Cook Company
Model Line: QMX-VP/QMXHP-VP

TABLE 1

Certified Product Construction Summary:

Painted carbon steel welded housing. Carbon steel welded wheel. Stainless steel shaft. Stainless steel hardware. NEMA 3R disconnect.

Certified Options Summary:

Belt drive. With or without fiberglass reinforced plastic induction nozzle. With or without mixing box. Standard pressure (QMX-VP) or high pressure (QMXHP-VP).

*Dimensions and weight shown are with curb, nozzle, and mixing box.

Mounting Configuration:

Rigid base mounted on 18" high curb, maximum

Building Code:	CBC 2019	Seismic C	Certification	on Limits:			z/h=1.0 z/h=0.0	/ _P = 1.5
Model Line	Model	*Di	mensions	(in)-2	*Weight			UUT
Model Line	Model	Depth	Width	Height	(lb)		Notes	001
	245QMX <mark>VP21</mark> L	R44.0	60.6m	165.0	3,019			Interp
	245QMX <mark>V</mark> P2 <mark>4</mark> H	44.0	60.6	165.0	3,019	0		Interp
QMX-VP	245QMX <mark>VP24</mark> L	44.0	60.6	165.0	3,019			Interp
QWX-VP	270QMXVP15L	48.0	64.6	175.0	3,335			Interp
	270QMXVP18H	48.0	64.6	175.0	3,335	`/		Interp
	270QMXVP18L	48.0	64.6	175.0	3,335			Interp
	90QMXHPVP09H	28.0	38.0	92.0	1,020			Interp
	90QMXHPVP09L	28.0	38.0	92.0	1,020			Interp
	120QMXHPVP09H	28.0	40.4	100.0	1,277			Interp
	120QMXHPVP09L	28.0	40.4	100.0	1,277			Interp
	120QMXHPVP12H	28.0	40.4	100.0	1,277			Interp
	120QMXHPVP12L	28.0	40.4	100.0	1,277			Interp
	135QMXHPVP09H	28.0	41.6	108.0	1,402			Interp
	135QMXHPVP09L	28.0	41.6	108.0	1,402			Interp
OMVIID VD	135QMXHPVP12H	28.0	41.6	108.0	1,402			Interp
QMXHP-VP	135QMXHPVP12L	28.0	41.6	108.0	1,402			Interp
	150QMXHPVP09H	30.0	44.1	120.0	1,543			Interp
	150QMXHPVP09L	30.0	44.1	120.0	1,543			Interp
	150QMXHPVP12H	30.0	44.1	120.0	1,543			Interp
	150QMXHPVP12L	30.0	44.1	120.0	1,543			Interp
	150QMXHPVP15H	30.0	44.1	120.0	1,543			Interp
	150QMXHPVP15L	30.0	44.1	120.0	1,543			Interp
	165QMXHPVP09H	32.0	45.5	125.0	1,750			Interp
	165QMXHPVP09L	32.0	45.5	125.0	1,750			Interp





1900241-CR-001 R0

Manufacturer: Loren Cook Company
Model Line: QMX-VP/QMXHP-VP

TABLE 1

Certified Product Construction Summary:

Painted carbon steel welded housing. Carbon steel welded wheel. Stainless steel shaft. Stainless steel hardware. NEMA 3R disconnect.

Certified Options Summary:

Belt drive. With or without fiberglass reinforced plastic induction nozzle. With or without mixing box. Standard pressure (QMX-VP) or high pressure (QMXHP-VP).

*Dimensions and weight shown are with curb, nozzle, and mixing box.

Mounting Configuration:

Rigid base mounted on 18" high curb, maximum

Building Code:	CBC 2019	Seismic (on Limits:			z/h=1.0 z/h=0.0	/ _P = 1.5	
Madallina	Model	*Di	mensions	(in)-2	*Weight	m		UUT
Model Line	Model	Depth	Width	Height	(lb)		Notes	001
	165QMXHPVP12H	R32.0	145.5m	125.0	1,750			Interp
	165QMXHPVP12L	32.0	45.5	125.0	1,750	0		Interp
	165QMXHPVP15H	32.0	45.5	125.0	1,750			Interp
	165QMXH <mark>PVP15</mark> L	32.0	45.5	125.0	1,750			Interp
	180QMXHPVP12L	34.0	48.0	133.0	2,122	`/		Interp
	180QMXHPVP15H	34.0	48.0	133.0	2,122			Interp
	180QMXHPVP15L	34.0	48.0	133.0	2,122			Inter
	180QMXHPVP18H	34.0	48.0	133.0	2,122			Inter
	180QMXHPVP18L	34.0	48.0	133.0	2,122			Inter
	202QMXHPVP12H	38.0	51.9	143.0	2,370			Inter
	202QMXHPVP12L	38.0	51.9	143.0	2,370			Inter
OMVIID VD	202QMXHPVP15H	38.0	51.9	143.0	2,370			Inter
QMXHP-VP	202QMXHPVP15L	38.0	51.9	143.0	2,370			Inter
	202QMXHPVP18H	38.0	51.9	143.0	2,370			Inter
	202QMXHPVP18L	38.0	51.9	143.0	2,370			Inter
	202QMXHPVP21H	38.0	51.9	143.0	2,370			Inter
	202QMXHPVP21L	38.0	51.9	143.0	2,370			Inter
	225QMXHPVP12H	42.0	58.0	154.0	2,764			Inter
	225QMXHPVP12L	42.0	58.0	154.0	2,764			Inter
	225QMXHPVP15H	42.0	58.0	154.0	2,764			Inter
	225QMXHPVP15L	42.0	58.0	154.0	2,764			Inter
	225QMXHPVP18H	42.0	58.0	154.0	2,764			Inter
	225QMXHPVP18L	42.0	58.0	154.0	2,764			Inter
	225QMXHPVP21H	42.0	58.0	154.0	2,764			Inter





1900241-CR-001 R0

Manufacturer: Loren Cook Company
Model Line: QMX-VP/QMXHP-VP

TABLE 1

Certified Product Construction Summary:

Painted carbon steel welded housing. Carbon steel welded wheel. Stainless steel shaft. Stainless steel hardware. NEMA 3R disconnect.

Certified Options Summary:

Belt drive. With or without fiberglass reinforced plastic induction nozzle. With or without mixing box. Standard pressure (QMX-VP) or high pressure (QMXHP-VP).

*Dimensions and weight shown are with curb, nozzle, and mixing box.

Mounting Configuration:

Duilding Code.

Rigid base mounted on 18" high curb, maximum

Building Code:	CBC 2019	Seismic (on Limits:	S _{DS} =	3.2 g	z/h=0.0	/ _P = 1.5	
Model Line	Model	*Di	mensions	(in)-2	*Weight	m	Notes	UUT
Model Line	Model	Depth	Width	Height	(lb)		notes	001
	225QMXHPVP21L	R42.0	58.0m	154.0	2,764			Interp.
	245QMXHPVP15H	44.0	60.6	165.0	3,021			Interp.
	245QMXH <mark>PVP1</mark> 5L	44.0	60.6	165.0	3,021			Interp.
	245QMXHPVP18H	44.0	60.6	165.0	3,021			Interp.
	245QMXHPVP18L	44.0	60.6	165.0	3,021	^/		Interp.
	245QMXHPVP21H	44.0	60.6	165.0	3,021			Interp.
QMXHP-VP	245QMXHPVP21L	44.0	60.6	165.0	3,021			Interp.
	245QMXHPVP24H	44.0	60.6	165.0	3,021			Interp.
	245QMXHPVP24L	44.0	60.6	165.0	3,021			Interp.
	270QMXHPVP15H	48.0	64.6	175.0	3,337			Interp.
	270QMXHPVP15L	48.0	64.6	175.0	3,337			Interp.
	270QMXHPVP18H	48.0	64.6	175.0	3,337			Interp.
	270QMXHPVP18L	48.0	64.6	193.0	3,337			2

COOK COMPLIANCE

Manufacturer: Model Line:	Loren Cook Company QMX-VP/QMXHP-VP				TABLE 2				
Building Code:	CBC 2019		Seismic (Certificatio	on Limits:	$S_{DS} = 2.0 g$ $z/h = 1.0$ $S_{DS} = 3.2 g$ $z/h = 0.0$	I _P = 1.5		
Model Line	Model	Dimensio					Notes		UUT
(Manufacturer)	Model	Depth	Width	Height	(lb)	William Was	140	tes	001
	143T		/,	NE	40	Cu windings, steel or cast iron case	1HP, 3-phase 208-23	30/460V	Extrap
	143T		76		49	Cu windings, steel or cast iron case	1.5HP, 3-phase 208-	230/460V	Extrap
	145T		141		51	Cu windings, steel or cast iron case	2HP, 3-phase 208-230/460V		1
	182T		18		090-	Cu windings, steel or cast iron case	3HP, 3-phase 208-23	30/460V	Interp
TEEC T Mala	184T				95	Cu windings, steel or cast iron case	5HP, 3-phase 208-23	30/460V	Interp
TEFC Type Motor	213T		(M)	BY∙ M	0h154nn	Cu windings, cast iron case	7.5HP, 3-phase 208-2	230/460V	Interp
(weg)	(Weg) 215T			Andorrania	172	Cu windings, cast iron case	10HP, 3-phase 208-2	230/460V	Interp
	254T		V///		251	Cu windings, cast iron case	15HP, 3-phase 208-2	230/460V	Interp
	256T		\ W	DATE	291	Cu windings, cast iron case	20HP, 3-phase 208-2	230/460V	Interp
	284T		151		388	Cu windings, cast iron case	25HP, 3-phase 208-2	230/460V	Interp
	286T		17		437	Cu windings, cast iron case	30HP, 3-phase 208-2	230/460V	2
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Manufacturer: Model Line:	Loren Cook Company QMX-VP/QMXHP-VP	Table Description: Electrical Components	TABLE 3
Building Code:	CBC 2019	Seismic Certification Limits: $S_{DS} = 2.0 \text{ g} \text{ z/h} = 1.0$ $S_{DS} = 3.2 \text{ g} \text{ z/h} = 0.0$	= 1.5
Component Type	Manufacturer	Model Pescription	Notes UUT
Damper Actuator	Belimo	LF-120-s 35 in-lb max torque NF-120-s 60 in-lb max torque	1 2
Safety Switch	Square D	HU361RB 30A HU362RB 60A P-0442	1 2
		BY: Mohammad Aliaari	
		DATE: 10/23/2020	
		CON DECONE	
		ROILDING	

TRU COMPLIANCE

Manufacturer: Model Line:	Loren Cook Company QMX-VP/QMXHP-VP	• • • •						TABLE 4
Building Code:	CBC 2019		Seismic C	Certificatio	on Limits:	$S_{DS} = 2.0 g z/h = 1.0$ $S_{DS} = 3.2 g z/h = 0.0$	I _P = 1.5	
Model Line	No del	Di	mension (in) Weight		Dr	No	
(Manufacturer)	Model	Depth	Width	Height	(lb)	Material Material	NO	otes UUT
		5	8 1/4	5	4	Aluminum		Extrap
		5	13 1/4	5	5	Aluminum		1
		5	16 1/2	5	5	Aluminum		Interp
		5	16 1/2	6 1/2	06.5-	Aluminum		Interp
		5	16 1/2	7 1/4	7.25	Aluminum		Interp
		5	16 1/2	9 1/4	9.25	Aluminum		Interp
		5	18 1/2	8	8	Aluminum		Interp
		5	18 1/2	11	11/2	Aluminum		Interp
		5	20 1/2	8 3/4	8.75	Aluminum		Interp
		5	20 1/2	12 3/4	12.75	Aluminum		Interp
Dampers		5	22 1/2	9 3/4	9.75	Aluminum		Interp
Dampers (Ruskin)	CD50	5	22 1/2	13 1/2	13.5	Aluminum		Interp
(Nuskiii)		5	24 1/2	18//	18	Aluminum		1
		5	25 1/2	11 1/2	11.5	Aluminum		Interp
		5	25 1/2	16	16	Aluminum		Interp
		5	26 1/2	20	20	Aluminum		Interp
		5	28 1/2	13	13	Aluminum		Interp
		5	28 1/2	18	18	Aluminum		Interp
		5	28 1/2	22	22	Aluminum		Interp
		5	30 1/2	14 1/2	14.5	Aluminum		Interp
		5	30 1/2	20 1/4	20.25	Aluminum		Interp
		5	30 1/2	24	24	Aluminum		Interp
		5	34 1/2	15	15	Aluminum		2



Manufacturer: Model Line:	Loren Cook Company QMX-VP/QMXHP-VP					TABLE 4		
Building Code:	CBC 2019		Seismic C	Certification	on Limits:	$S_{DS} = 2.0 g$ $z/h = 1.0$ $S_{DS} = 3.2 g$ $z/h = 0.0$	I _P = 1.5	
Model Line	Model	Di	Dimension (in) Weight DE Material			N		
(Manufacturer)	Model	Depth	Width	Height	(lb)	Material	No	otes UUT
		5	34 1/2	26 1/2	26.5	Aluminum		Interp.
Da 222 2 2 2		5	34 1/2	22	22	Aluminum		Interp.
Dampers (Ruskin)	CD50	5	38 1/2	30	30	Aluminum		Interp.
(Ruskiii)		5	40 1/2	32	032-	Aluminum		Interp.
		5	44 1/2	36	36	Aluminum		2
			WWW.	BY: N	/ohamr	mad Aliaari		
				V V V V V V V V V V V V V V V V V V V	7 1747755331117777777			
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UNIT UNDER TEST (UUT) SUMMARY SHEET





Manufacturer: Model Line:	Loren Cook Company QMX-VP/QMXHP-VP	1				
UUT	Unit Description	Report Number	Testing Laboratory	S _{DS}	z/h	I _P
1	90QMXVP09H	13790 Rev. 01	Environmental Testing Laboratory (ETL)	2.0 3.2	1.0 0.0	1.5
2	270QMXHPVP18L	13790 Rev. 01	Environmental Testing Laboratory (ETL)	2.0 3.2	1.0 0.0	1.5
		FOR CODE C	OM			
	jų.	OSHPD	12/4			
	REL	OSP-0442	(Cr.			
		BY: Mohammad Ali	aari			
		DATE: 10/23/2020				
	CAL	60	OF OF			
		OPNIA BUILDING	COT			
Notes:						

UNIT UNDER TEST (UUT) SUMMARY SHEET





UUT 1

1900241-CR-001 R0

Manufacturer: **Loren Cook Company** Model Line: QMX-VP/QMXHP-VP

Model Number: 90QMXVP09H Serial Number: N/A

Product Construction Summary:

Painted carbon steel welded housing. Carbon steel welded wheel. Stainless steel shaft. Stainless steel hardware. NEMA 3R disconnect.

Options/Subcomponent Summary:

Belt drive with fiberglass reinforced plastic induction nozzle with mixing box. Motor: Weg - 002236ET3E145T-S; Isolation Damper: Ruskin - CD50 (24 1/2"x18"); Damper Actuator: Belimo-LF-120-s; Bypass Damper: Ruskin - CD50 (13 1/4"x5"); Safety Switch: Square D - HU361RB.

			UUT Pr	operties		7						
*Weight	Dimension (in)				Lowest Natural Frequency (Hz)							
(lb)	Depth	Width	OS*Height 42		Front-Back		Side-Side		Vertical			
1,023	28.0	38.0	11	110.0		19.8		18.9		17.6		
UUT Highest Passed Seismic Run Information												
Building Code		Test Criteria		S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)		
CBC 2019		ICC-ES AC156 (2015) / 2		2,0	1.0	1.5	3.20	2.40	2.13	0.85		
				3.2	0.0	1.5						

Test Mounting Details: *Weight and h<mark>eight</mark> include curb, nozzle, and mixing box









Rigid base mounted on 18" Loren Cook LECQ curb with (20) 3/8" F593 stainless bolts. Curb is welded to test fixture with 2" long welds at 6" O.C. all around.

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

UNIT UNDER TEST (UUT) SUMMARY SHEET





UUT 2

1900241-CR-001 R0

Manufacturer: **Loren Cook Company** Model Line: QMX-VP/QMXHP-VP

Serial Number: N/A

Model Number: 270QMXHPVP18L

Product Construction Summary:

Painted carbon steel welded housing. Carbon steel welded wheel. Stainless steel shaft. Stainless steel hardware. NEMA 3R disconnect.

Options/Subcomponent Summary:

Belt drive with fiberglass reinforced plastic induction nozzle with mixing box. Motor: Weg - 03018ETE286T-W22; Isolation Damper: Ruskin - CD50 (44 1/2"x36"); Damper Actuator: Belimo-NF-120-s; Bypass Damper: Ruskin - CD50 (34 1/2"x15"); Safety **Switch:** Square D - HU362RB.

			UUT Pr	operties		7						
*Weight	Dimension (in)				Lowest Natural Frequency (Hz)							
(lb)	Depth	Width	OS*Height 42		Front-Back		Side-Side		Vertical			
3,337	48.0	64.6	19	193.0		6.6		5.0		6.3		
UUT Highest Passed Seismic Run Information												
Building Code		Test Criteria		S _{DS} (g)	z/h	I _P	A _{FLX-H} (g)	A _{RIG-H} (g)	A _{FLX-V} (g)	A _{RIG-V} (g)		
CBC 2019		ICC-ES AC156 (2015) / 2		2.0	1.0	1.5	3.20	2.40	2.13	0.85		
				3.2	0.0	1.5						

Test Mounting Details: *Weight and h<mark>eight</mark> include curb, nozzle, and mixing box







TRU Compliance, by Structural Integrity Associates, Inc.

Rigid base mounted on 18" Loren Cook LECQ curb with (28) 3/8" F593 stainless bolts. Curb is welded to test fixture with 2" long welds at 6" O.C. all around.

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