

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

# APPLICATION FOR OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OSM)

OFFICE USE ONLY

MANUFACTURER'S CERTIFICATION (OSM)	APPLICATION #: OPM-0205							
OSHPD Preapproval of Manufacturer's Certification OPM)								
Type: New X Renewal/Update								
Manufacturer Information								
Manufacturer: NUAIRE, INC.								
Manufacturer's Technical Representative: WILLIAM PETERS								
Mailing Address: 2100 FERNBROOK LANE, PLYMIUTH, MN 55447	7							
Telephone: (763) 553-1279 Email: BPETER	S@NUAIRE.COM							
Product Information FOR COD	)E							
Product Name: LAMINAR AIRFLOW CABINETS	COMP							
Product Type: Horizontal								
Product Model Number: Numerous models, see drawing 1 of 7 - 02	205							
General Description: Horizontal airflow cabinets providing product p sciences, pharmaceuticals, pharmacy and other								
Applicant Information	0							
Applicant Company Name: LTK ASSOCIATES, INC.	2020							
Contact Person: RAYMOND Z. URIBES								
Mailing Address: 745 DISTEL DRIVE, SUITE 7, LOS ALTOS, CA 94	4022							
Telephone: () - Email: LTK@LT	KSE.COM							
Title:								
Registered Design Professonal Preparing Engineering Rec	commendations							
Company Name: LTK ASSOCIATES, INC.								
•	fornia License S2479 nber:							
Mailing Address: 745 Distel Drive, Suite 7, Los Altos, CA 94022								
Telephone: (650) 967-8465 Email: Itk@ltkse	e.com							
OSHPD Special Seismic Certification Preapproval (OSP)								
Special Seismic Certification is preapproved under OSP	OSP Number:							





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

<b>Certification Method</b>							
Testing in accordance with:	CC-ES AC156						
Other(s) (Please Specify):							
and attachments are not permitted. For	ed by the California Building Standards Code, 2019 (CBSC 2019) for component supports or distribution system, interior partition wall, and suspended ceiling seismic bracings, test e CBSC 2019 may be used when approved by OSHPD prior to testing.						
X Analysis							
Experience Data							
Combination of Testing, Analysis,	and/or Experience Data (Please Specify):						
OSHPD Approval							
Date: 3/20/2020	EOR CODE CO.						
Name: Haeseong Lim	lame: Haeseong Lim Title: Senior Structural Engineer						
Condition of Approval (if applicable):							
	OPM-0205						
	O BY: Haeseong Lim						
	DATE: 03/20/2020						

03/20/2020

AIrflow Workstation Models				
Model Number	Associated Basestand Model Number			
NU-140-330	NU-200-143			
NU-140-430	NU-200-144			
NU-140-530	NU-200-145			
NU-140-630	NU-200-146			
NU-201-224	NU-200-142			
NU-201-230	NU-200-142			
NU-240-224	NU-200-142			
NU-240-230	NU-200-142			
NU-201-324	NU-200-143			
NU-201-330	NU-200-143			
NU-201-336	NU-200-143			
NU-240-324	NU-200-143			
NU-240-330	NU-200-143			
NU-240-336	NU-200-143			
NU-201-424	NU-200-144			
NU-201-430	NU-200-144			
NU-201-436	NU-200-144			
NU-240-424	NU-200-144			
NU-240-430	NU-200-144			
NU-240-436	NU-200-144			
NU-201-524	NU-200-145			
NU-201-530	NU-200-145			
NU-201-536	NU-200-145			
NU-240-524	NU-200-145			
NU-240-530	NU-200-145			
NU-240-536	NU-200-145			
NU-201-624	NU-200-146			
NU-201-630	NU-200-146			
NU-240-624	NU-200-146			

NU-200-146

Airflow Workstation Models
Model Number
NU-301-324
NU-340-324
NU-301-330
NU-340-330
NU-301-336
NU-340-336
NU-301-424
NU-340-424
NU-301-430
NU-340-430
NU-301-436
NU-340-436
NU-301-524
NU-340-524
NU-301-530
NU-340-530
NU-301-536
NU-340-536
NU-301-624
NU-340-624
NU-301-630
NU-340-630
NU-301-636
NU-340-636

REV	ECO	DESCRIPTION	DATE	DRFT	CHKD
Α		RELEASED TO PRODUCTION	9/8/15	LS	BP

#### PRE-APPROVAL NOTES:

- 1. THIS OSHPD PREAPPROVAL OF MANUFACTURER'S CERTIFICATION (OPM) IS BASED ON CBC 2019. THE DEMAND (DESIGN FORCES) FOR USE WITH THIS OPM SHALL BE BASED ON THE CBC 2019.
- 2. FORCES PER ASCE 7-16 SECTION 13.3.1, EQUATIONS 13.3-1, 13.3-2 AND 13.3-3, WHERE:  $S_{DS}$  = 2.0, ap = 1.0, AND Rp = 2.5. (FORCE LEVEL FOR Eh & Ev IS ASD) HORIZONTAL FORCE (Eh) = 1.00Wp, VERTICAL FORCE (Ev) = 0.28Wp.
- 3. THE DETAILS IN THIS PRE-APPROVAL ARE APPLICABLE TO ANY LOCATION IN THE STATE OF CALIFORNIA WHERE S<sub>DS</sub> IS NOT GREATER THAN 2.0. THE DETAILS WERE DEVELOPED USING h=z AND MAY BE USED AT ANY HEIGHT IN THE BUILDING WHERE z/h <= 1.0.
- 4. DESIGN FORCES SHOWN ON THE DRAWINGS ARE BASED ON WORKING STRESS LOADS AND MAY BE USED FOR ALLOWABLE STRESS DESIGN.
- 5. THIS PRE-APPROVAL COVERS ONLY THE ATTACHMENT OF THE UNIT TO THE STRUCTURE. IT DOES NOT CONSTITUTE SEISMIC CERTIFICATION OF THE EQUIPMENT.

#### RESPONSIBILITIES OF THE STRUCTURAL ENGINEER OF RECORD:

- VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE WEIGHT AND FORCES SHOWN IN THIS PRE-APPROVAL IN ADDITION TO ALL OTHER WEIGHTS AND FORCES THAT ARE IMPOSED ON IT.
- 2. PROVIDE ANY SUPPLEMENTARY STRUCTURE REQUIRED FOR STRENGTH AND STABILITY.
- VERIFY THAT THE INSTALLATION IS IN CONFORMANCE WITH THE 2019 CBC AND WITH THE NOTES AND DETAILS SHOWN IN THIS PRE-APPROVAL. VERIFY THAT THE EQUIPMENT'S ACTUAL WEIGHT, CG LOCATION, ANCHOR LOCATIONS, ANCHOR DETAILS AND THE MATERIAL AND GAGE OF THE UNIT WHERE ATTACHMENTS ARE MADE CONFORM WITH THE INFORMATION SHOWN IN THIS PRE-APPROVAL.





Structural Engineers 745 Distel Drive Los Altos, CA 94022 **ASSOCIATES** (650) 967-8465



SUPPORTS AND ATTACHMENTS DETAILS (WALL MOUNT) AIRFLOW BENCH STATION

02/29/20 | CHKD | BP | SHEET 1 OF 7 DFTM LS

**DRAWING** NUMBER

BCD-19633

NU-240-630

	Airflow Station Data					REV ECO	DESCRIPTION	DATE	DRFT CHKD
Model no.	HOOD = W1 (lb) CONTENT = W2 (lb)	TAND = W3 (lb)					UPDATE STAND MODEL NUMBERS	6/18/2019	LTK
NU-201 / 240 - 224, 230 NU-140 / 201 / 240 - 324, 330, 336		0 (NU-200-142) 2 (NU-200-143)							
NU-140 / 201 / 240 - 424, 430, 436 NU-140 / 201 / 240 - 524, 530, 536	370 100	4 (NU-200-144) 6 (NU-200-145)							
NU-140 / 201 / 240 - 624, 630		8 (NU-200-146)							
Model no. C1 C2	DII D2	MENSIONS L L1 L2 H1	H2 Y1 Y2						
NU-140 - 330 68.00 9.50			37.50 58.00 34.50						
NU-140 - 430 68.00 9.50 NU-140 - 530 68.00 9.50			37.50 58.00 34.50 37.50 58.00 34.50						
NU-140 - 630 68.00 9.50 NU-201 / 240 - 224 62.00 9.50			37.50 58.00 34.50 37.50 49.00 34.50						
NU-201 / 240 - 230 68.00 9.50 NU-201 / 240 - 324 62.00 9.50	<del></del>		37.50 55.00 34.50 37.50 49.00 34.50						
NU-201 / 240 - 330 68.00 9.50 NU-201 / 240 - 336 76.00 9.50	32.00 12.00 25.50	38.00 32.25 16.13 84.50	37.50 55.00 34.50 37.50 61.00 34.50						
NU-201 / 240 - 424 62.00 9.50 NU-201 / 240 - 430 68.00 9.50	32.00 12.00 25.50	50.00 44.25 22.13 78.50	37.50 49.00 34.50 37.50 55.00 34.50						
NU-201 / 240 - 436 76.00 9.50 NU-201 / 240 - 524 62.00 9.50	32.00 12.00 25.50	50.00 44.25 22.13 90.50	37.50 61.00 34.50 37.50 49.00 34.50						
NU-201 / 240 - 530 68.00 9.50 NU-201 / 240 - 536 76.00 9.50	32.00 12.00 25.50	62.00 56.25 28.13 84.50	37.50 55.00 34.50 37.50 61.00 34.50						
NU-201 / 240 - 630	32.00 12.00 25.50	74.00 68.25 34.13 78.50	37.50 49.00 34.50 37.50 55.00 34.50		1 1 D	<del></del>	1	L	<u> </u>
140-2017 240 - 030 00.00 9.30	32.00 12.00 23.30	74.00 00.23 34.13 04.30 SEE NOTE 3		OR CODE	4				
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			O WWW B	Y: Haeseong Lim					
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		L <sub>x</sub>	<u> </u>	ATE: 03/20/2020	::88		H1	<u>•</u>	
		C1						<b>6</b> _	<b></b> "  [
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					•	. H2			
			1		C2 :				
				BITTEL					
		AIRFLOW BENCH		201TDTIME	<b>│                                    </b>	<del> </del>	<b>#</b>		
NOTE:		MODEL NU-201-630							
IF AIRFLOW STATION IS U APPLICATION , WALL MOU		SHOWN HERE W/	FRON	T VIEW	SIDEVIEW	\ <sub>MIN</sub>	. 3000 psi	REAR VIEW	
BE ENCLOSED ON TOP AN		BASESTAND MODEL NU-200-146			<del>-</del> <b>/</b> □1−	₹ SAN	ID LW CONC		
CLEANING PURPOSES, SU		WODEL 110-200-140	/	L1	D2		R METAL		
APPROVAL BY THE CA BC		ŕ		-		DEC	,К		
PROIR TO INSTALLATION.	l <b>.</b>				PROFESS/ONA				
NOTE:					Sizion - Carrier		SUPPORTS	AND ATTACHMENTS	DETAILS
1. SEE ALL NOTES SHEE		ATTALIONENITO			2 Ren: 3/31/22 0 R			(WALL MOUNT)	
		ATTAHCMENTS DETAILS, SEE S ASED ON MAXIMUM BASE STAI			The wile of The	Struc	iuiai Liigilieeis	FLOW BENCH STATIC	
		ALL BRACKET LOCATIONS SHA			PUCTURA	Los A	Distel Drive DFTM LS 0	2/29/20 CHKD BP SH	
LOCATED APPROPRIA					OF CALIFORNIA ASS	SOCIATES (650) prporated ltk@	967-8465 DRAWING Itkse.com NUMBER	BCD-19633	A
					*****	· ·	HOMBER		

						REV ECO	DESCRIPTION	DATE DRFT CHKD
CAL	tation Data AB = CONTENT =					REV ECO	DESCRIPTION	DATE DRFT CHAD
Model no. W1								
NU-301 / 340 - 424, 430, 436 42	20 100 40 100							
	30 100							
		DIMENSIONS						
Model no. C1 D	D1 D2	L L1 L2 H1	H2 Y1 Y2					
NU-301 / 340 - 324 39.00 32.00 NU-301 / 340 - 330 39.00 32.00		3.00 34.00 17.00 60.00 3.00 34.00 17.00 66.00	38.00 78.50 36.00 38.00 78.50 36.00					
NU-301 / 340 - 336 39.00 32.00 NU-301 / 340 - 424 39.00 32.00	10.00 19.75 38	3.00 34.00 17.00 72.00 0.00 46.00 29.00 60.00	38.00         78.50         36.00           38.00         78.50         36.00					
NU-301 / 340 - 430 39.00 32.00 NU-301 / 340 - 436 39.00 32.00	10.00 19.75 50	0.00 46.00 29.00 66.00 0.00 46.00 29.00 72.00	38.00 78.50 36.00 38.00 78.50 36.00					
NU-301 / 340 - 524 39.00 32.00 NU-301 / 340 - 530 39.00 32.00	10.00 19.75 62	2.00 58.00 29.00 60.00 2.00 58.00 29.00 66.00	38.00 78.50 36.00 38.00 78.50 36.00 38.00 78.50 36.00					
NU-301 / 340 - 536 39.00 32.00 NU-301 / 340 - 624 39.00 32.00	10.00 19.75 62	2.00 58.00 29.00 72.00 4.00 70.00 23.00 60.00	38.00 78.50 36.00 38.00 78.50 36.00 38.00 78.50 36.00					
NU-301 / 340 - 630 39.00 32.00	10.00 19.75 74	4.00 70.00 29.00 66.00	38.00 78.50 36.00	★	D		<del>//</del>	<del>/</del> _
NU-301 / 340 - 636 39.00 32.00	10.00   19.75   74	4.00 70.00 35.00 72.00	38.00 78.50 36.00	$\left\langle \frac{1}{4} \right\rangle$		$\square$		
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			FRONT VIEW	MIN. 3000 psi	SIDE VIEW		REAR VIEW	1
		+	L2	SAND LW CONC OVER METAL	<del>↓</del> D1— <del>↓</del>			
				DECK	D2		Fr. E	
NOTE: IF AIRFLOW STATION IS USED FOR	R PHARMACY	7	-LI	A PARIT	OFESS/ON			
APPLICATION , WALL MOUNT BRACE BE ENCLOSED ON TOP AND SIDES	CKETS MUST			Lite in	Z. CALLES			2
CLEANING PURPOSES, SUBJECT T BY THE CA BOARD OF PHARMACY	TO THE APPROVAL			EGIS;	2479 (24.00 S) EN		SUPPORTS AND ATTA (WALL M	
PRIOR TO INSTALLATION.				Rer X		Structural Engineers 745 Distel Drive	AIRFLOW BEN	CH STATION
NOTE:					VCTURA IN	Los Altos, CA 94022	DFTM LS 03/29/19 CF	HKD BP SHEET 3 OF 7
1. SEE ALL NOTES SHEET 1 OF 7.	CUIDDODTO 9 ATTACUMENT	O DETAIL O OEF OUFFT 4 OF 7		Mr. O	CALIFOR ASSOCIA Incorpor	TES (650) 967-8465 ated ltk@ltkse.com	DRAWING BCD	-19633 A
2. FOR ANCHOR SCHEDULE AND	SUPPORTS & ATTACHMENTS	S DETAILS, SEE SHEET 4 OF 7.		4			NUMBER DCD	10000 /1







