APPLICATION FOR HCAI SPECIAL SEISMIC CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0772

HCAI Special Seismic Certification Preapproval (OSP)

Type: [X] New [ ] Renewal

Manufacturer Information

Manufacturer: Nailor Industries, Inc.

Manufacturer's Technical Representative: David Duff

Mailing Address: 4714 Winfield Road, Houston, TX 77039

Telephone: (281) 854-3607 Email: dduff@nailor.com

Product Information

Product Name: Horizontal Fan Coil Units 35FH, 37FH, and 40H

Product Model Number(s): Horizontal Fan Coil Units 35FH, 37FH, and 40H

Product Category: Air Conditioning Units

Product Sub-Category: Fan Coil Units

General Description: Horizontal fan coil units. Model 35FH are direct drive draw-through with inlet cooling and/or heating coils, and option for electric heat on the discharge.
Model 37FH are low profile direct drive draw-through with inlet cooling and/or heating coils, and option for electric heat on the discharge. Model 40H are blow-through with cooling and/or heating coils, and option for electric heat on the discharge.

Mounting Description: Suspended Spring Vibration Isolated -

Tested Seismic Enhancements: Seismic enhancements made to the test units and/or modifications required to address anomalies during the tests shall be incorporated into the production units.

Applicant Information

Applicant Company Name: Petra Seismic Design

Contact Person: Robert Simmons

Mailing Address: 14525 FM 529, Ste 205, Houston, TX 77095

Telephone: (281) 656-1439 Email: rsimmons@petraseismicdesign.com

Title: CEO

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

Company Name: RESPONSE STRUCTURAL ENGINEERS

Name: Todd Kemen California License Number: S5409

Mailing Address: 5441 Fair Oaks Blvd, STE G2, Carmichael, CA 95608

Telephone: (530) 200-4022 Email: toddk@response-eng.com

Certification Method

☐ GR-63-Core ☒ ICC-ES AC156 ☐ IEEE 344 ☐ IEEE 693 ☐ NEBS 3

☐ Other (Please Specify):

Testing Laboratory

Company Name: ENVIRONMENTAL TESTING LABORATORIES, INC. (ETL)

Contact Person: Jeremy Lange

Mailing Address: 11034 Indian Trail, Dallas TX 75229-3513

Telephone: (972) 247-9657 Email: Jeremy@etldallas.com

Seismic Parameters

Design Basis of Equipment or Components (F_p/W_p) = (3.60 @ SDS = 2.0, z/h = 1); (1.50 @ SDS = 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 (Amplification factor) = 2.5

R_p (Response modification factor) = 2.5

Ω_0 (System overstrength factor) = 2.0

I_p (Importance factor) = 1.5

z/h (Height ratio factor) = 1 and 0

Natural frequencies (Hz) = See Attachment

Overall dimensions and weight = See Attachment

HCAI Approval (For Office Use Only) - Approval Expires on 04/08/2031

Date: 4/8/2025

Name: Timothy Piland Title: Senior Structural Engineer

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

Condition of Approval (if applicable):

TABLE 1-1 CERTIFIED PRODUCT

Manufacturer: Nailor Industries

Product Family: Model 40H Horizontal Low Profile Fan Coil - Constant or Variable Volume

Certified Product Construction: Zinc Coated 18ga Steel Casing Cabinet, 18ga Modular Frame for size 3 to 15

Certified Mounting Description: Vibration Isolated Ceiling Suspended[1] with Seismic Cable restraints

Product Family	Model[2]	Unit Size	Inlet	Max Length (in) L[4]	Max Width (in) W[4]	Max Height (in) H[4]	Maximum Weight[4] (lb)	No. of Vibration Isolated Support Hangers	No. of Seismic Cable Braces	S_{DS} (z/h = 0.0)	S_{DS} (z/h = 1.0)	UUT[3]
40H Fan Coil Units	D40HP-3	3	10 X 20.375	31.125	26.50	10	77.5	4	4	2.5	2.0	UUT-1
	D40HP-4	4	10 X 60.375	31.125	31.50	10	90	4	8	2.5	2.0	Interpolated
	D40HP-6	6	20.25 X 10.5	31.125	36.50	10	109	4	8	2.5	2.0	Interpolated
	D40HP-8	8	52.25 X 10.5	31.125	46.50	10	126	4	8	2.5	2.0	Interpolated
	D40HP-12	12	20.5 X 16.5	31.125	56.50	10	162	4	8	2.5	2.0	Interpolated
	D40HP-15	15	62.25 X 22.5	31.125	66.50	10	185.5	4	8	2.5	2.0	UUT-2
	D40HF-3	3	N/A	25.875	26.50	10	66	4	4	2.5	2.0	Interpolated
	D40HF-4	4	N/A	25.875	31.50	10	78	4	8	2.5	2.0	Interpolated
	D40HF-6	6	N/A	25.875	36.50	10	94.5	4	8	2.5	2.0	Interpolated
	D40HF-8	8	N/A	25.875	46.50	10	109.5	4	8	2.5	2.0	Interpolated
	D40HF-12	12	N/A	25.875	56.50	10	142.5	4	8	2.5	2.0	Interpolated
	D40HF-15	15	N/A	25.875	66.50	10	161.5	4	8	2.5	2.0	Interpolated

Notes:

1. If (4) cables were used, supports must be mounted so that Length to Width ration is less than 1.5.
2. Models D40HP denote a plenum installed on inlet. Models D40HF denote plenum 'free' fan coil units without a plenum on inlet.
3. Box model tested indicated UUT which was same box with larger mass option added, providing least seismic resistant combination.
4. Measured weight of UUT.
5. Expressions used to cross-reference dimensions on cut-sheets.

TABLE 1-2 CERTIFIED PRODUCT

Manufacturer: Nailor Industries

Product Family: Model 37FH - Low Profile Horizontal Fan Coil Unit

Certified Product Construction **:** Zinc Coated 20ga Steel Casing Cabinet with 18ga Modular Frame

Certified Mounting Description **:** Vibration Isolated Ceiling Suspended[3] with Seismic Cable restraints

Product Family	Model[1,5]	Unit Size	Inlet	Max Length (in) L[6]	Max Length w/OAI[4] (in) L/O[6]	Max Width (in) W[6]	Max Height (in) H[6]	Max Weight (lb)	No. of Vibration Isolated Support Hangers	No. of Seismic Cable Brace[3]	S_{DS} (z/h = 0.0)	S_{DS} (z/h = 1.0)	UUT[2]
37FH Fan Coil Units	D37FHE-5	5	19 x 8 3/4	31	-	23	11	125.5	4	4	2.5	2.0	Interpolate
	D37FHE-8	8	33 x 8 3/4	37	-	37	11	188	4	4	2.5	2.0	Interpolate
	D37FHE-12	12	50 x 8 3/4	37	-	54	11	268.5	4	4	2.5	2.0	Interpolate
	D37FHZ-5	5	19 x 8 3/4	35	48	26	11	125.5	4	4	2.5	2.0	Interpolate
	D37FHZ-8	8	33 x 8 3/4	35	48	40	11	188	4	4	2.5	2.0	Interpolate
	D37FHZ-12	12	50 x 8 3/4	35	48	57	11	268.5	4	4	2.5	2.0	Interpolate
	D37FHZW-5	5	19 x 8 3/4	35	48	26	11	125.5	4	4	2.5	2.0	Interpolate
	D37FHZW-8	8	33 x 8 3/4	35	48	40	11	188	4	4	2.5	2.0	Interpolate
	D37FHZW-12	12	50 x 8 3/4	35	48	57	11	268.5	4	4	2.5	2.0	Interpolate
	D37FHW-5	5	19 x 8 3/4	35	48	26	11	125.5	4	4	2.5	2.0	Interpolate
	D37FHW-8	8	33 x 8 3/4	35	48	40	11	188	4	4	2.5	2.0	Interpolate
	D37FHW-12	12	50 x 8 3/4	35	48	57	11	268.5	4	4	2.5	2.0	Interpolate
	D37FHZE-5	5	19 x 8 3/4	43	56	26	11	125.5	4	4.0	2.5	2	UUT-3
	D37FHZE-8	8	33 x 8 3/4	49	62	40	11	188	4	4	2.5	2.0	Interpolate
	D37FHZE-12	12	50 x 8 3/4	49	62	57	11	268.5	4	4.0	2.5	2	UUT-4

Notes:

1. W= Hot Water Coil on Inlet, E= Electric Heat on Discharge, Z= Chilled Water on Inlet
2. Box Model tested with indicated UUT which was same box with larger mass option added, providing least resistant seismic combination.
3. If (4) cables are used, Supports must be mounted so that Length to width ratio is no less than 1.5.
4. OAI = Outside air inlet. Has a larger unit length per the additional air inlet.
5. Testing and subsequent passing of the smallest (UUT-3) and largest (UUT-4) units indicate that all sizes of units should also pass and earn seismic certification. UUT-3 is physically the smallest 37FH unit currently offered. UUT-4 is physically the largest 37FH unit currently offered.
6. Expressions used to cross-reference dimensions on cut-sheets.

TABLE 1-3 CERTIFIED PRODUCT

Manufacturer : Nailor Industries
Product Family: Model D35FH - High Capacity Horizontal Fan Coil Units
Certified Product Construction: Zinc Coated 20ga Steel Casing Cabinet
Certified Mounting Description: Vibration Isolated Ceiling Suspended[3] with Seismic Cable restraints

Product Family	Model[1,4]	Unit Size	Inlet Size (in x in)	Max Length (in)	Max Length w/OAI (in)	Max Width (in)	Max Height (in)	Max Weight (lb)	No. of Vibration Isolated Support Hangers	No. of Seismic Cable Restraints[3]	S_{DS} (z/h = 0.0)	S_{DS} (z/h = 1.0)	UUT[2]
				L[5]	L/O[5]	W[5]	H[5]						
D35FH Fan Coil Units	D35FHE-4	4	19 X 15	38.25	--	23	17	160	4	8	2.5	2.0	Interpolate
	D35FHE-6	6	19 X 15	38.25	--	23	17	160	4	8	2.5	2.0	Interpolate
	D35FHE-8	8	19 X 15	38.25	--	23	17	160	4	8	2.5	2.0	Interpolate
	D35FHE-10	10	33 X 15	38.25	--	37	17	240	4	8	2.5	2.0	Interpolate
	D35FHE-12	12	33 X 15	38.25	--	37	17	240	4	8	2.5	2.0	Interpolate
	D35FHE-14	14	33 X 15	38.25	--	37	17	240	4	8	2.5	2.0	Interpolate
	D35FHE-16	16	33 X 15	38.25	--	37	17	240	4	8	2.5	2.0	Interpolate
	D35FHE-18	18	50 x 15	38.25	--	54	17	320	4	8	2.5	2.0	Interpolate
	D35FHE-20	20	50 x 15	38.25	--	54	17	320	4	8	2.5	2.0	Interpolate
	D35FHE-24	24	50 x 15	38.25	--	54	17	320	4	8	2.5	2.0	Interpolate
	D35FHE-30	30	50 x 20	58	--	54	23	515	4	8	2.5	2.0	Interpolate
	D35FHE-40	40	60 x 20	58	--	64	23	580	4	8	2.5	2.0	Interpolate
	D35FHW-4	4	19 X 15	35	48	23	17	160	4	8	2.5	2.0	Interpolate
	D35FHW-6	6	19 X 15	35	48	23	17	160	4	8	2.5	2.0	Interpolate
	D35FHW-8	8	19 X 15	35	48	23	17	160	4	8	2.5	2.0	Interpolate
	D35FHW-10	10	33 X 15	35	48	37	17	240	4	8	2.5	2.0	Interpolate
	D35FHW-12	12	33 X 15	35	48	37	17	240	4	8	2.5	2.0	Interpolate
	D35FHW-14	14	33 X 15	35	48	37	17	240	4	8	2.5	2.0	Interpolate
	D35FHW-16	16	33 X 15	35	48	37	17	240	4	8	2.5	2.0	Interpolate
	D35FHW-18	18	50 x 15	35	48	54	17	320	4	8	2.5	2.0	Interpolate
	D35FHW-20	20	50 x 15	35	48	54	17	320	4	8	2.5	2.0	Interpolate
	D35FHW-24	24	50 x 15	35	48	54	17	320	4	8	2.5	2.0	Interpolate
	D35FHW-30	30	50 x 20	50	50	54	23	515	4	8	2.5	2.0	Interpolate
	D35FHW-40	40	60 x 20	50	50	64	23	580	4	8	2.5	2.0	Interpolate
	D35FHZ-4	4	19 X 15	37	50	23	17	160	4	8	2.5	2.0	Interpolate
	D35FHZ-6	6	19 X 15	37	50	23	17	160	4	8	2.5	2.0	Interpolate
	D35FHZ-8	8	19 X 15	37	50	23	17	160	4	8	2.5	2.0	Interpolate
	D35FHZ-10	10	33 X 15	37	50	37	17	240	4	8	2.5	2.0	Interpolate
	D35FHZ-12	12	33 X 15	37	50	37	17	240	4	8	2.5	2.0	Interpolate
	D35FHZ-14	14	33 X 15	37	50	37	17	240	4	8	2.5	2.0	Interpolate
	D35FHZ-16	16	33 X 15	37	50	37	17	240	4	8	2.5	2.0	Interpolate
	D35FHZ-18	18	50 x 15	37	50	54	17	320	4	8	2.5	2.0	Interpolate
	D35FHZ-20	20	50 x 15	37	50	54	17	320	4	8	2.5	2.0	Interpolate
	D35FHZ-24	24	50 x 15	37	50	54	17	320	4	8	2.5	2.0	Interpolate
	D35FHZ-30	30	50 x 20	50	50	54	23	515	4	8	2.5	2.0	Interpolate
	D35FHZ-40	40	60 x 20	50	50	64	23	580	4	8	2.5	2.0	Interpolate
	D35FHZW-4	4	19 X 15	37	50	23	17	160	4	8	2.5	2.0	Interpolate
	D35FHZW-6	6	19 X 15	37	50	23	17	160	4	8	2.5	2.0	Interpolate
	D35FHZW-8	8	19 X 15	37	50	23	17	160	4	8	2.5	2.0	Interpolate
	D35FHZW-10	10	33 X 15	37	50	37	17	240	4	8	2.5	2.0	Interpolate
	D35FHZW-12	12	33 X 15	37	50	37	17	240	4	8	2.5	2.0	Interpolate
	D35FHZW-14	14	33 X 15	37	50	37	17	240	4	8	2.5	2.0	Interpolate
	D35FHZW-16	16	33 X 15	37	50	37	17	240	4	8	2.5	2.0	Interpolate
	D35FHZW-18	18	50 x 15	37	50	54	17	320	4	8	2.5	2.0	Interpolate
	D35FHZW-20	20	50 x 15	37	50	54	17	320	4	8	2.5	2.0	Interpolate
	D35FHZW-24	24	50 x 15	37	50	54	17	320	4	8	2.5	2.0	Interpolate
	D35FHZW-30	30	50 x 20	50	50	54	23	515	4	8	2.5	2.0	Interpolate
	D35FHZW-40	40	60 x 20	50	50	64	23	590	4	8	2.5	2.0	Interpolate

Notes:
1. W= Hot Water Coil on Inlet, E=Electic Heat on Discharge, Z=Chilled Water Coil on Inlet
2. Box Model tested with indicated UUT which was same box with larger mass option added, providing least resistant seismic combination.
3. If (4) cables are used, Supports must be mounted so that Length to width ratio is no less than 1.5.
4. Testing and subsequent passing of the smallest (UUT-5) and largest (UUT-6) units indicate that all sizes of units should also pass and earn seismic certification. UUT-5 is physically the smallest 35FH unit currently offered. UUT-6 is physically the largest 35FH unit currently offered.
5. Expressions used to cross-reference dimensions on cut-sheets.

TABLE 1-3 CERTIFIED PRODUCT CONT'D

Manufacturer : Nailor Industries

Product Family: Model D35FH - High Capacity Horizontal Fan Coil Units

Certified Product Construction: Zinc Coated 20ga Steel Casing Cabinet

Certified Mounting Description: Vibration Isolated Ceiling Suspended[3] with Seismic Cable restraints

Product Family	Model[1,5]	Unit Size	Inlet Size (in x in)	Max Length (in)	Max Length w/OAI (in)	Max Width[4] (in)	Max Height (in)	Max Weight (lb)	No. of Vibration Isolated Support Hangers	No. of Seismic Cable Restraints[3]	S_{DS} (z/h = 0.0)	S_{DS} (z/h = 1.0)	UUT[2]
				L[6]	L/O[6]	W[6]	H[6]						
D35FH Fan Coil Units	D35FHZE-4	4	19 X 15	50.25	72	23	17	160	4	8	2.5	2.0	Interpolate
	D35FHZE-6	6	19 X 15	50.25	72	23	17	160	4	8	2.5	2.0	Interpolate
	D35FHZE-8	8	19 X 15	50.25	72	23	17	171.5	4	8	2.5	2.0	UUT-5[5]
	D35FHZE-10	10	33 X 15	50.25	72	37	17	320	4	8	2.5	2.0	Interpolate
	D35FHZE-12	12	33 X 15	50.25	72	37	17	320	4	8	2.5	2.0	Interpolate
	D35FHZE-14	14	33 X 15	50.25	72	37	17	320	4	8	2.5	2.0	Interpolate
	D35FHZE-16	16	33 X 15	50.25	72	37	17	320	4	8	2.5	2.0	Interpolate
	D35FHZE-18	18	50 x 15	50.25	72	54	17	450	4	8	2.5	2.0	Interpolate
	D35FHZE-20	20	50 x 15	50.25	72	54	17	450	4	8	2.5	2.0	Interpolate
	D35FHZE-24	24	50 x 15	50.25	72	54	17	450	4	8	2.5	2.0	Interpolate
	D35FHZE-30	30	50 x 20	72	72	54	23	580	4	8	2.5	2.0	Interpolate
	D35FHZE-40	40	60 x 20	72	72	64	23	590	4	8	2.5	2.0	UUT-6[5]

Notes:

1. W= Hot Water Coil on Inlet, E=Electic Heat on Discharge, Z=Chilled Water Coil on Inlet
2. Box Model tested with indicated UUT which was same box with larger mass option added, providing least resistant seismic combination.
3. If (4) cables are used, Supports must be mounted so that Length to width ratio is no less than 1.5.
4. Dimension is fan box width.
5. Testing and subsequent passing of the smallest (UUT-5) and largest (UUT-6) units indicate that all sizes of units should also pass and earn seismic certification. UUT-5 is physically the smallest 35FH unit currently offered. UUT-6 is physically the largest 35FH unit currently offered.
6. Expressions used to cross-reference dimensions on cut-sheets.

Fan Coil Unit Nomenclature

D 35FH ZE - 8

Size

Heating/ Cooling	
E	Electric Heat
W	Hot Water Heat
Z	Cold Water Cooling
--	None

FCU Model	
35FH	Standard Fan Coil
37FH	Low profile Fan Coil
40HP	Low profile Fan Coil
40HF	Low profile Fan Coil

Controller Options	
D	Digital electronic control

TABLE 1-4 CERTIFIED SUBCOMPONENT

Product Family : Fan Coil Units
Certified Subcomponent: Motors

Product Family	Model	Unit Size	Motor	Rated HP	Voltage	Manufacturer	Number of Motors/Fan	Total Motor Weight (lbs)	S_{DS} (z/h = 0.0)	S_{DS} (z/h = 1.0)	UUT
D40H	D40HP-3	3	ECM	1/4	277	REGAL REXNORD	1/1	7	2.5	2.0	UUT-1
	D40HP-4	4	ECM	1/4	277	REGAL REXNORD	1/1	7	2.5	2.0	Interpolate
	D40HP-6	6	ECM	1/4	277	REGAL REXNORD	1/1	7	2.5	2.0	Interpolate
	D40HP-8	8	ECM	1/4	277	REGAL REXNORD	1/1	7	2.5	2.0	Interpolate
	D40HP-12	12	ECM	1/4	277	REGAL REXNORD	2/1	14	2.5	2.0	Interpolate
	D40HP-15	15	ECM	1/4	277	REGAL REXNORD	2/1	14	2.5	2.0	UUT-2
D37FHZE	D37FHE-5	5	ECM	1/3	277	REGAL REXNORD	1/1	9.5	2.5	2.0	UUT-3
	D37FHE-8	8	ECM	1/3	277	REGAL REXNORD	1/1	9.5	2.5	2.0	Interpolate
	D37FHE-12	12	ECM	1/3	277	REGAL REXNORD	2/1	19	2.5	2.0	UUT-4
D35FHZE	D35FHZE-4	4	ECM	1/3	277	REGAL REXNORD	1/1	9.5	2.5	2.0	Interpolate
	D35FHZE-6	6	ECM	1/3	277	REGAL REXNORD	1/1	9.5	2.5	2.0	Interpolate
	D35FHZE-8	8	ECM	1/3	277	REGAL REXNORD	1/1	9.5	2.5	2.0	UUT-5
	D35FHZE-10	10	ECM	1/3	277	REGAL REXNORD	1/1	9.5	2.5	2.0	Interpolate
	D35FHZE-12	12	ECM	1/2	277	REGAL REXNORD	1/1	9.5	2.5	2.0	Interpolate
	D35FHZE-14	14	ECM	1/2	277	REGAL REXNORD	1/1	9.5	2.5	2.0	Interpolate
	D35FHZE-16	16	ECM	3/4	277	REGAL REXNORD	1/1	9.5	2.5	2.0	Interpolate
	D35FHZE-18	18	ECM	3/4	277	REGAL REXNORD	1/1	9.5	2.5	2.0	Interpolate
	D35FHZE-20	20	ECM	3/4	277	REGAL REXNORD	1/1	9.5	2.5	2.0	Interpolate
	D35FHZE-24	24	ECM	1/2	277	REGAL REXNORD	2/1	19	2.5	2.0	Interpolate
	D35FHZE-30	30	ECM	3/4	277	REGAL REXNORD	2/1	19	2.5	2.0	Interpolate
	D35FHZE-40	40	ECM	1/2	277	REGAL REXNORD	2/1	19	2.5	2.0	UUT-6

TABLE 1-5 CERTIFIED SUBCOMPONENT

Product Family : Fan Coil Units

Certified Subcomponent: Fans

Certified Product Construction: Galvanized steel case wheel material, Galvanized steel housing.

Product Family	Model	Unit Size	Fan Size DxW (in x in)	Blower Quantity	Weight (lb)	Manufacturer[(1)]	S_{DS} (z/h = 0.0)	S_{DS} (z/h = 1.0)	UUT
D40H	D40HP-3	3	9.87x2	1	8	Airdex	2.5	2.0	UUT-1
	D40HP-4	4	9.87x2	1	8	Airdex	2.5	2.0	Interpolate
	D40HP-6	6	9.87x2	1	16	Airdex	2.5	2.0	Interpolate
	D40HP-8	8	9.87x2	1	16	Airdex	2.5	2.0	Interpolate
	D40HP-12	12	9.87x2	1	24	Airdex	2.5	2.0	Interpolate
	D40HP-15	15	9.87x2	1	32	Airdex	2.5	2.0	UUT-2
D37FHZE	D37FHE-5	5	10x6	1	11	Airdex	2.5	2.0	UUT-3
	D37FHE-8	8	10x4	1	11	Airdex	2.5	2.0	Interpolate
	D37FHE-12	12	10x4	2	11	Airdex	2.5	2.0	UUT-4
D35FHZE	D35FHZE-4	4	9x4	1	13.5	Airdex	2.5	2.0	Interpolate
	D35FHZE-6	6	9x7	1	13.5	Airdex	2.5	2.0	Interpolate
	D35FHZE-8	8	9x7	1	13.5	Morrison	2.5	2.0	UUT-5
	D35FHZE-10	10	9x7	1	13.5	Airdex	2.5	2.0	Interpolate
	D35FHZE-12	12	9x9	1	13.5	Airdex	2.5	2.0	Interpolate
	D35FHZE-14	14	9x9	1	13.5	Airdex	2.5	2.0	Interpolate
	D35FHZE-16	16	10x10	1	13.5	Airdex	2.5	2.0	Interpolate
	D35FHZE-18	18	10x10	1	13.5	Airdex	2.5	2.0	Interpolate
	D35FHZE-20	20	10x10	1	13.5	Airdex	2.5	2.0	Interpolate
	D35FHZE-24	24	9x9	2	13.5	Airdex	2.5	2.0	Interpolate
	D35FHZE-30	30	10x10	2	11	Airdex	2.5	2.0	Interpolate
	D35FHZE-40	40	11x11	2	22	Airdex	2.5	2.0	UUT-6

Notes:

1. See manufacturer's letter APPENDIX page 2.

TABLE 1-6 CERTIFIED SUBCOMPONENT

Product Family: Fan Coil Units

Certified Subcomponent: Water Coils

Certified Product Construction: Galvanized steel case, Aluminum Sine wave fin material 0.0045" @ 12 fpi, copper header and 1/2" copper tubing(.016" wall)

Product Model	Manufacturer	Unit Size	Number of Water Coil Rows	Dimensions			Weight (lb)	S_{DS} (z/h = 0.0)	S_{DS} (z/h = 1.0)	UUT
				Height (in)	Width (in)	Depth (in)				
D35FH	Great American Coil	4	3	15	19.0	3.24	17	2.5	2.0	Interpolate
			4	15	19.0	4.32	22	2.5	2.0	Interpolate
			5	15	19.0	5.4	26	2.5	2.0	Interpolate
			6	15	19.0	6.48	31	2.5	2.0	Interpolate
		6	3	15	19.0	3.24	17	2.5	2.0	Interpolate
			4	15	19.0	4.32	22	2.5	2.0	Interpolate
			5	15	19.0	5.4	26	2.5	2.0	Interpolate
			6	15	19.0	6.48	31	2.5	2.0	Interpolate
		8	3	15	19.0	3.24	17	2.5	2.0	Interpolate
			4	15	19.0	4.32	22	2.5	2.0	Interpolate
			5	15	19.0	5.4	26	2.5	2.0	Interpolate
			6	15	19.0	6.48	31	2.5	2.0	UUT-5
D35FH	Great American Coil	10	3	15	33.0	3.24	17	2.5	2.0	Interpolate
			4	15	33.0	4.32	22	2.5	2.0	Interpolate
			5	15	33.0	5.4	26	2.5	2.0	Interpolate
			6	15	33.0	6.48	31	2.5	2.0	Interpolate
		12	3	15	33.0	3.24	27	2.5	2.0	Interpolate
			4	15	33.0	4.32	35	2.5	2.0	Interpolate
			5	15	33.0	5.4	43	2.5	2.0	Interpolate
			6	15	33.0	6.48	51	2.5	2.0	Interpolate
		14	3	15	33.0	3.24	27	2.5	2.0	Interpolate
			4	15	33.0	4.32	35	2.5	2.0	Interpolate
			5	15	33.0	5.4	43	2.5	2.0	Interpolate
			6	15	33.0	6.48	51	2.5	2.0	Interpolate
		16	3	15	33.0	3.24	27	2.5	2.0	Interpolate
			4	15	33.0	4.32	35	2.5	2.0	Interpolate
			5	15	33.0	5.4	43	2.5	2.0	Interpolate
			6	15	33.0	6.48	51	2.5	2.0	Interpolate
D35FH	Great American Coil	18	3	20	50.0	3.24	39	2.5	2.0	Interpolate
			4	20	50.0	4.32	50	2.5	2.0	Interpolate
			5	20	50.0	5.4	60	2.5	2.0	Interpolate
			6	20	50.0	6.48	71	2.5	2.0	Interpolate
		20	3	20	50.0	3.24	39	2.5	2.0	Interpolate
			4	20	50.0	4.32	50	2.5	2.0	Interpolate
			5	20	50.0	5.4	60	2.5	2.0	Interpolate
			6	20	50.0	6.48	71	2.5	2.0	Interpolate
		24	3	20	50.0	3.24	39	2.5	2.0	Interpolate
			4	20	50.0	4.32	50	2.5	2.0	Interpolate
			5	20	50.0	5.4	60	2.5	2.0	Interpolate
			6	20	50.0	6.48	71	2.5	2.0	Interpolate
D35FH	Great American Coil	30	3	20	50.0	3.24	57	2.5	2.0	Interpolate
			4	20	50.0	4.32	72	2.5	2.0	Interpolate
			5	20	50.0	5.4	88	2.5	2.0	Interpolate
			6	20	50.0	6.48	103	2.5	2.0	Interpolate
D35FH	Great American Coil	40	3	8.75	60.0	3.24	65	2.5	2.0	Interpolate
			4	8.75	60.0	4.32	83	2.5	2.0	Interpolate
			5	8.75	60.0	5.4	101	2.5	2.0	Interpolate
			6	8.75	60.0	6.48	120	2.5	2.0	UUT-6
D37FH	Great American Coil	5	3	8.75	19.0	3.24	11	2.5	2.0	Interpolate
			4	8.75	19.0	4.32	14	2.5	2.0	Interpolate
			5	8.75	19.0	5.4	17	2.5	2.0	Interpolate
			6	8.75	19.0	6.48	20	2.5	2.0	UUT-3
D37FH	Great American Coil	8	3	8.75	33.0	3.24	16	2.5	2.0	Interpolate
			4	8.75	33.0	4.32	20	2.5	2.0	Interpolate
			5	8.75	33.0	5.4	25	2.5	2.0	Interpolate
			6	8.75	33.0	6.48	30	2.5	2.0	Interpolate
D37FH	Great American Coil	12	3	7.5	50.0	3.24	22	2.5	2.0	Interpolate
			4	7.5	50.0	4.32	29	2.5	2.0	Interpolate
			5	8.75	50.0	5.4	37	2.5	2.0	Interpolate
			6	8.75	50.0	6.48	42	2.5	2.0	UUT-4
D40H	Great American Coil	3	3	7.5	20	3.24	9	2.5	2.0	Interpolate
			4	7.5	20	4.32	11	2.5	2.0	UUT-1
D40H	Great American Coil	4	3	7.5	25	3.24	10	2.5	2.0	Interpolate
			4	7.5	25	4.32	13	2.5	2.0	Interpolate
D40H	Great American Coil	6	3	7.5	30	3.24	12	2.5	2.0	Interpolate
			4	7.5	30	4.32	15	2.5	2.0	Interpolate
D40H	Great American Coil	8	3	7.5	50	3.24	15	2.5	2.0	Interpolate
			4	7.5	50	4.32	20	2.5	2.0	Interpolate
D40H	Great American Coil	12	3	7.5	60	3.24	18	2.5	2.0	Interpolate
			4	7.5	60	4.32	24	2.5	2.0	Interpolate
D40H	Great American Coil	15	3	7.5	60	3.24	21	2.5	2.0	Interpolate
			4	7.5	60	4.32	28	2.5	2.0	UUT-2

TABLE 1-7 CERTIFIED SUBCOMPONENT

Product Family: Fan Coil Units

Certified Subcomponent: Nailor Electric Heater

Certified Product Construction: Galvanized steel case, Aluminum Sine wave fin material 0.0045" @ 12 fpi, copper header and 1/2" copper tubing(.016" wall)

Product Family	Manufacturer	Voltage	KW	Dimensions		Weight (lb)	S_{DS} (z/h = 0.0)	S_{DS} (z/h = 1.0)	UUT
				Width (in)	Height (in)				
Models: 40HF, 40HP, 37FH,35FH	Nailor	1Ph: 277	15	12.375	9	15-90	2.5	2.0	Interpolate
			15	10.25	10.5	15-90	2.5	2.0	Interpolate
			16	13	10.5	15-90	2.5	2.0	Interpolate
			26	14.25	11.75	15-90	2.5	2.0	Interpolate
			26	17	12	15-90	2.5	2.0	Interpolate
			26	17	16	15-90	2.5	2.0	Interpolate
			26	25	16	15-90	2.5	2.0	Interpolate
			30	40.25	11.75	13	2.5	2.0	UUT-3
			30	40.25	11.75	27	2.5	2.0	UUT-4
			26	29	16	10	2.5	2.0	UUT-5
			26	29	16	115	2.5	2.0	UUT-6

TABLE 1-8 CERTIFIED SUBCOMPONENT

Product Family: 35, 37, 40 FCU

Certified Subcomponent: Transformers

Product Family	Model	Voltage	VA	Manufacturer	S_{DS} (z/h =0)	S_{DS} (z/h = 1)	UUT
Models 40HF, 40HP, 37FH, 35FH	HCT-03J2BB07	277, 24	75	Hartland Controls	2.5	2.0	1 to 6

TABLE 1-9 CERTIFIED SUBCOMPONENT

Product Family: 35, 37, 40 FCU

Certified Subcomponent: Relays

Type	Model	Voltage	Amp	Manufacturer	S_{DS} (z/h =0)	S_{DS} (z/h = 1)	UUT
SCR Electric Heat Controller	EHS45-600-10	600	45	Neptronic	2.5	2.0	1-6
SSR Electric Heat Controller	DW SSR50A1B	600	45	Neptronic	2.5	2.0	

TABLE 1-10 CERTIFIED SUBCOMPONENT

Product Family: 35, 37, 40 FCU

Certified Subcomponent: Air Flow Switch

Type	Model	Voltage	Amp	Manufacturer	S_{DS} (z/h =0)	S_{DS} (z/h = 1)	UUT
Airflow Switch	DFS-221-112	277	15	Cleveland Controls	2.5	2.0	1 to 6

TABLE 1-11 SUMMARY OF TESTED UNITS

Manufacturer: Nailor Industries

Product Family: Models 40HP, 37FH, 35FH Fan Coil Units

Certified Product Construction: Zinc Coated 18ga/20ga Steel Casing Cabinet, 18ga Space Frame

Certified Mounting Description: Vibration Isolated Ceiling Suspended with Seismic Cable restraints

UUT	Model	Unit Size	Housing GA	Nominal Dimensions					UUT Weight	(QTY) Type Seismic Bracing [1,2]	(QTY) Type Spring Hangers	S_{DS} (z/h = 0)	S_{DS} (z/h = 1)
				Air Inlet (LxW)	Length	Width	Height	Nominal Weight					
				(in x in)	(in)	(in)	(in)	(lb)	(lb)				
1	D40HP-3	3	18	10 X 20.375	31.125	26.5	10	75	77.5	(4) Mason SCB-2	(4) Mason RWHS-X-76	2.5	2.0
2	D40HP-15	15	18	10 X 60.375	31.125	66.5	10	170	185.5	(8) Mason SCB-2	(4) Mason RWHS-X-113	2.5	2.0
3	D37FHZE-5	5	20	20.25 X 10.5	43	26	11	126	125.5	(4) Mason SCB-2 & (4) Gripple GS-19	(4) Mason RWHS-X-113	2.5	2.0
4	D37FHZE-12	12	20	52.25 X 10.5	49	57	11	251	268.5	(4) Mason SCB-2	(4) Mason RWHS-X-210	2.5	2.0
5	D35FHZE-8	8	20	20.5 X 16.5	50.25	23	17	164	171.5	(8) Mason SCB-2	(4) Mason RWHS-X-113	2.5	2.0
6	D35FHZE-40	40	20	62.25 X 22.5	72	64	23	529	590	(8) Gripple GS19-10S5-R5	(4) Mason RWHS-X-210	2.5	2.0

Notes:
1. If (4) cables were used, supports must be mounted so that length to width ratio is no less than 1.5.
2. All seismic bracing used 3/16" diameter wire cable.

TABLE 1-12 SUMMARY OF TESTED UNITS

Manufacturer: Nailor Industries

Product Family: Models 40HP, 37FH, 35FH Fan Coil Units

Certified Product Construction: Zinc Coated 18ga/20ga Steel Casing Cabinet, 18ga Space Frame

Certified Mounting Description: Vibration Isolated Ceiling Suspended with Seismic Cable restraints

UUT	Model	Unit Size	Air Inlet (LxW)	Fan Motor EPIC ECM	Space Frame	OAI[1]	Heat Source	Water Coil Rows	Liner	Controller
			(in. x in.)	HP/Amps/Volts						
1	D40HP-3	3	10 X 20.375	0.25/0.7/277	N	N	Electric	4	STD	DDC
2	D40HP-15	15	10 X 60.375	0.25/2.7/277	N	N	Electric	4	STD	DDC
3	D37FHZE-5	5	20.25 X 10.5	-[2]/1.2/277	N	N	Electric	6	STD	90[O]DDC
4	D37FHZE-12	12	52.25 X 10.5	-[2]/3.8/277	N	Y	Electric	6	STD	DDC
5	D35FHZE-8	8	20.5 X 16.5	-[2]/2.1/277	Y	N	Electric	6	STD	90[O]DDC
6	D35FHZE-40	40	62.25 X 22.5	-[2]/11.6/277	Y	Y	Electric	6	STD	90[O]DDC

Notes:
1. OAI = Outdoor air inlet. Unit length may increase to accommodate OAI.
2. ECM with variable horsepower.

UUT - 1 TEST RESULT SUMMARY

Manufacturer: Nailor Industries, Inc.

Model: 40 HP Horizontal Low Profile Fan Coil Terminal Unit

Model Number: D40HP-3
Product Construction Summary
Cabinet: 18 gauge zince coated

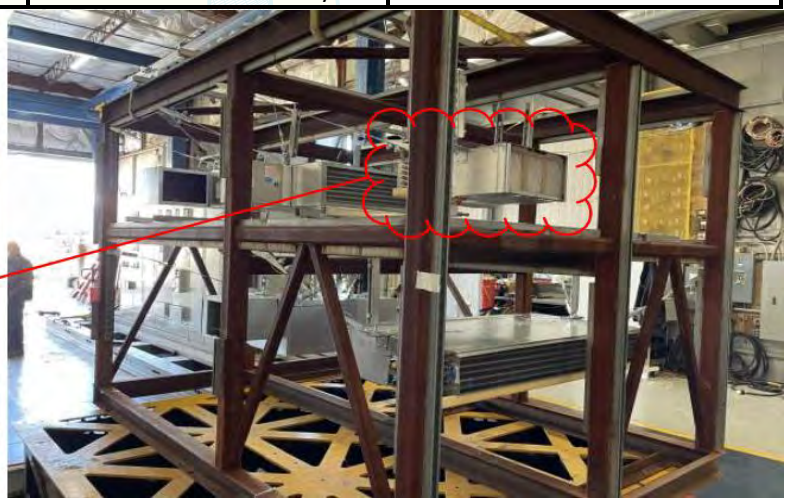
Options/Component Summary:
-Airdex/Morrison Fan with 1/4 HP (277V) Regal Rexnord Motor (Proportional ECM)
-Controller: Digital
-Coils: 4 chill water
-Nailor electric heater
-Disconnect
-Cleveland Controls Airflow Switches

UUT Properties

Operating Weight (lb)	Dimensions (in)			Lowest Natural Frequency (Hz)		
	Length	Width	Height	Front-Back	Side-Side	Vertical
77.5	31.125	26.5	10	NA	NA	NA

Seismic Test Parameter

Test Criteria	S_{DS} (g)	z/h	I_p	A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
ICC-ES AC-156	2.0	1.0	1.5	3.2	2.4	-	-
	2.5	0.0	1.5	-	-	1.67	0.67
Pre-Test Functionality		PASS		Post-Test Functionality		PASS	



Unit Mounting Description:

Spring suspended unit with (4) 3/8" ASTM-A307 rods fastened to the top of the housing through factory Hanger Brackets and secured with 3/8" nut. Rod hanging from Mason RWHS-X-76 spring hanger with rebound plate below hanger box with 1/4" gap. Top of Hanger Box mounted to fixture with 3/8" bolt, square washers and nuts. Max 1/8" gap between top of hanger box and fixture. Unistrut P1000 used to stiffen the rods were fastened with Mason (2 per rod) UC-1 Rod Stiffening Clamps. Seismic bracing with (4) Mason SCB-2 with 3/16-inch diameter cable attached to structure using 1/2" A307 hardware. Brace attached to top of unit with 3/8" rod through SCB-2 bracket.

Test Lab: Environmental Testing Laboratory, Inc.
Report: AC156 SEISMIC CERTIFICATION TEST REPORT, ETL 16422, Rev. 3
Report Date: 01/13/2025

UUT - 2 TEST RESULT SUMMARY

Manufacturer: Nailor Industries, Inc.

Model: 40 HP Horizontal Low Profile Fan Coil Terminal Unit

Model Number: D40HP-15

Product Construction Summary

Cabinet: 18 gauge zince coated

Options/Component Summary:

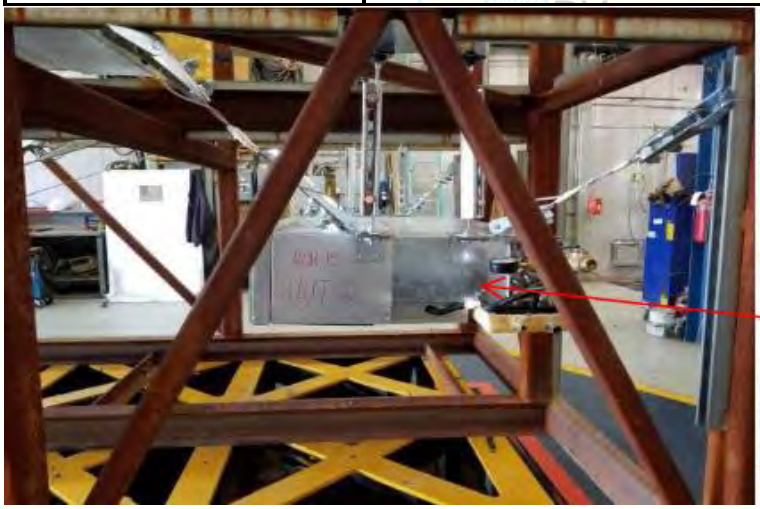
-Airdex/Morrison Fan with two (2) 1/4 HP (277V) Regal Rexnord Motor (Proportional ECM)
-Controller: Digital
-Coils: 4 chill water
-Nailor electric heater
-Disconnect
-Cleveland Controls Airflow Switches

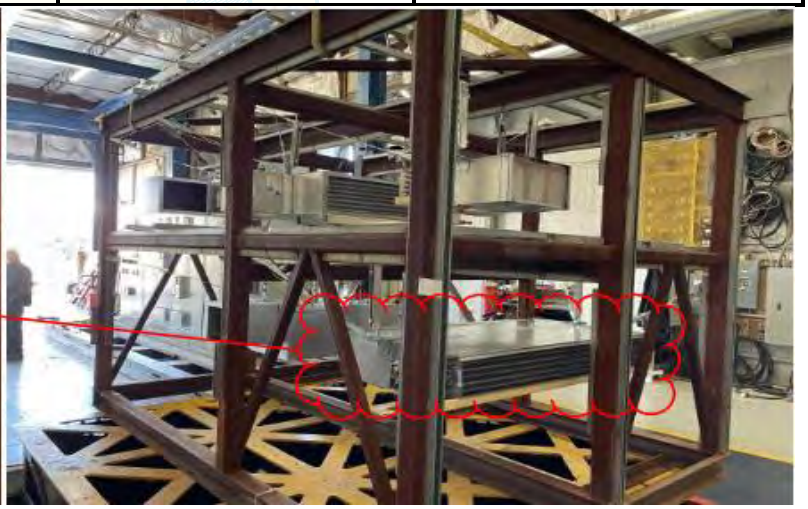
UUT Properties

Operating Weight (lb)	Dimensions (in)			Lowest Natural Frequency (Hz)			
	Length	Width	Height	Front-Back		Side-Side	Vertical
185.5	31.125	66.5	10	NA		NA	NA

Seismic Test Parameter

Test Criteria	S_{DS} (g)	z/h	I_p	A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
ICC-ES AC-156	2.0	1.0	1.5	3.2	2.4	-	-
	2.5	0.0	1.5	-	-	1.67	0.67
Pre-Test Functionality		PASS		Post-Test Functionality		PASS	





Unit Mounting Description:

Spring suspended unit with (4) 3/8" ASTM-A307 rods fastened to the top of the housing through factory Hanger Brackets and secured with 3/8" nut. Rod hanging from Mason RWHS-X-113 spring hanger with rebound plate below hanger box with 1/4" gap. Top of Hanger Box mounted to fixture with 3/8" bolt, square washers and nuts. Max 1/8" gap between top of hanger box and fixture. Unistrut P1000 used to stiffen the rods were fastened with Mason (2 per rod) UC-1 Rod Stiffening Clamps. Seismic bracing with (8) Mason SCB-2 with 3/16-inch diameter cable attached to structure using 1/2" A307 hardware. Brace attached to top of unit with 3/8" rod through SCB-2 bracket.

Test Lab: Environmental Testing Laboratory, Inc.
Report: AC156 SEISMIC CERTIFICATION TEST REPORT, ETL 16422, Rev. 3
Report Date: 01/13/2025

UUT - 3 TEST RESULT SUMMARY

Manufacturer: Nailor Industries, Inc.

Model: 37FH Horizontal Low Profile Fan Coil Terminal Unit

Model Number: 37FHZE-5
Product Construction Summary
Cabinet: 20 gauge zince coated

Options/Component Summary:
-Airdex/Morrison Fan with 1/4 HP (277V) Regal Rexnord Motor (Proportional ECM)
-Controller: Digital
-Coils: 6 chill water
-Nailor electric heater
-Disconnect
-Cleveland Controls Airflow Switches
-Neptronic Relay

UUT Properties

Operating Weight (lb)	Dimensions (in)			Lowest Natural Frequency (Hz)		
	Length	Width	Height	Front-Back	Side-Side	Vertical
125.5	43	26	11	NA	NA	NA

Seismic Test Parameter

Test Criteria	S_{DS} (g)	z/h	I_p	A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
ICC-ES AC-156	2.0	1.0	1.5	3.2	2.4	-	-
	2.5	0.0	1.5	-	-	1.67	0.67
Pre-Test Functionality		PASS		Post-Test Functionality		PASS	

Unit Mounting Description:

Spring suspended unit with (4) 3/8" ASTM-A307 rods fastened to the top of the housing through factory swaged 3/8" Rivnut and secured with 3/8" nut. Rod hanging from Mason RWHS-X-113 spring hanger with rebound plate below hanger box with 1/4" gap. Top of Hanger Box mounted to fixture with 3/8" bolt, square washers and nuts. Max 1/8" gap between top of hanger box and fixture. Unistrut P1000 used to stiffen the rods were fastened with Mason (2 per rod) UC-1 Rod Stiffening Clamps. Seismic bracing with (4) Gripple GS-19 brace & (4) Mason SCB-2 with 3/16-inch diameter cable attached to structure using 1/2" A307 hardware. Brace attached to top of unit with 3/8" rod through SCB-2 bracket.

Test Lab: Environmental Testing Laboratory, Inc.
Report: AC156 SEISMIC CERTIFICATION TEST REPORT, ETL 16422, Rev. 3
Report Date: 01/13/2025

UUT - 4 TEST RESULT SUMMARY

Manufacturer: Nailor Industries, Inc.

Model: 37FH Horizontal Low Profile Fan Coil Terminal Unit

Model Number: 37FHZE-12
Product Construction Summary
Cabinet: 20 gauge zince coated

Options/Component Summary:
-Airdex/Morrison Fan with (277V/3.8A) Regal Rexnord Motor (Proportional EPIC ECM)
-Controller: Digital
-Coils: 6 chill water
-Nailor electric heater
-Disconnect
-Cleveland Controls Airflow Switches
-Neptronic Relay

UUT Properties

Operating Weight (lb)	Dimensions (in)			Lowest Natural Frequency (Hz)			
	Length	Width	Height	Front-Back		Side-Side	Vertical
268.5	49	57	11	NA		NA	NA
Seismic Test Parameter							
Test Criteria	S_{DS} (g)	z/h	I_p	A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
ICC-ES AC-156	2.0	1.0	1.5	3.2	2.4	-	-
	2.5	0.0	1.5	-	-	1.67	0.67
Pre-Test Functionality		PASS		Post-Test Functionality		PASS	

Unit Mounting Description:

Spring suspended unit with (4) 3/8" ASTM-A307 rods fastened to the top of the housing through factory swaged 3/8" Rivnut and secured with 3/8" nut. Rod hanging from Mason RWHS-X-210 spring hanger with rebound plate below hanger box with 1/4" gap. Top of Hanger Box mounted to fixture with 3/8" bolt, square washers and nuts. Max 1/8" gap between top of hanger box and fixture. Unistrut P1000 used to stiffen the rods were fastened with Mason (2 per rod) UC-1 Rod Stiffening Clamps. Seismic bracing with (4) Mason SCB-2 with 3/16-inch diameter cable attached to structure using 1/2" A307 hardware. Brace attached to top of unit with 3/8" rod through SCB-2 bracket.

Test Lab: Environmental Testing Laboratory, Inc.
Report: AC156 SEISMIC CERTIFICATION TEST REPORT, ETL 16422, Rev. 3
Report Date: 01/13/2025

UUT - 5 TEST RESULT SUMMARY

Manufacturer: Nailor Industries, Inc.

Model: 35FH Horizontal Low Profile Fan Coil Terminal Unit

Model Number: 35FHZE-8
Product Construction Summary
Cabinet: 20 gauge zince coated

Options/Component Summary:
-Airdex/Morrison Fan with (277V/2.1A) Regal Rexnord Motor (Proportional EPIC ECM)
-Controller: Digital
-Coils: 6 chill water
-Nailor electric heater
-Disconnect
-Cleveland Controls Airflow Switches
-Neptronic Relay

UUT Properties

Operating Weight (lb)	Dimensions (in)			Lowest Natural Frequency (Hz)		
	Length	Width	Height	Front-Back	Side-Side	Vertical
171.5	50.25	23	17	NA	NA	NA

Seismic Test Parameter

Test Criteria	S_{DS} (g)	z/h	I_p	A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
ICC-ES AC-156	2.0	1.0	1.5	3.2	2.4	-	-
	2.5	0.0	1.5	-	-	1.67	0.67
Pre-Test Functionality		PASS		Post-Test Functionality		PASS	

Unit Mounting Description:

Spring suspended unit with (4) 3/8" ASTM-A307 rods fastened to the top of the housing through factory swaged 3/8" Rivnut and secured with 3/8" nut. Rod hanging from Mason RWHS-X-113 spring hanger with rebound plate below hanger box with 1/4" gap. Top of Hanger Box mounted to fixture with 3/8" bolt, square washers and nuts. Max 1/8" gap between top of hanger box and fixture. Unistrut P1000 used to stiffen the rods were fastened with Mason (2 per rod) UC-1 Rod Stiffening Clamps. Seismic bracing with (8) Mason SCB-2 with 3/16-inch diameter cable attached to structure using 1/2" A307 hardware. Brace attached to top of unit with 3/8" rod through SCB-2 bracket.

Test Lab: Environmental Testing Laboratory, Inc.
Report: AC156 SEISMIC CERTIFICATION TEST REPORT, ETL 16422, Rev. 3
Report Date: 01/13/2025

UUT - 6 TEST RESULT SUMMARY

Manufacturer: Nailor Industries, Inc.

Model: 35FH Horizontal Low Profile Fan Coil Terminal Unit

Model Number: 35FHZE-40
Product Construction Summary
Cabinet: 20 gauge zince coated

Options/Component Summary:
-Airdex/Morrison Fan with (277V/11.6A) Regal Rexnord Motor (Proportional EPIC ECM)
-Controller: Digital
-Coils: 6 chill water
-Nailor electric heater
-Disconnect
-Cleveland Controls Airflow Switches
-Neptronic Relay

UUT Properties

Operating Weight (lb)	Dimensions (in)			Lowest Natural Frequency (Hz)			
	Length	Width	Height	Front-Back		Side-Side	Vertical
590	72	64	23	NA		NA	NA
Seismic Test Parameter							
Test Criteria	S_{DS} (g)	z/h	I_p	A_{FLX-H}	A_{RIG-H}	A_{FLX-V}	A_{RIG-V}
ICC-ES AC-156	2.0	1.0	1.5	3.2	2.4	-	-
	2.5	0.0	1.5	-	-	1.67	0.67
Pre-Test Functionality		PASS		Post-Test Functionality		PASS	

Unit Mounting Description:

Spring suspended unit with (4) 1/2" ASTM-A307 rods fastened to the top of the housing through factory Hanger Brackets stiffened with 4"x4"x1/4" plate. Rod hanging from RWHS-X-210 spring hanger with rebound plate below hanger box with 1/4" gap. Top of Hanger Box mounted to fixture with 3/8" bolt, square washers and nuts. Max 1/8" gap between top of hanger box and fixture. Unistrut P1000 used to stiffen rods were fastened with Mason (2 per rod) UC-1 Rod Stiffening Clamps. Seismic bracing with (8) Gripple GS19-10S5-R5 brace with 3/16-inch diameter cable attached to the structure using 1/2" A307 hardware. Brace attached to top of unit with 1/2" rod through Gripple R5 bracket.

Test Lab: Environmental Testing Laboratory, Inc.
Report:AC156 SEISMIC CERTIFICATION TEST REPORT, ETL 16569, Rev. 2
Report Date: 12/16/2024