

**LINEAR DIFFUSER
DETAIL**

Titus Submittal AGR-35-AA-S 11-3-17

**Air Balancing Devices
Opposed Blade Damper • Duct Mounted • Remote Cable Operated
For Square and Rectangular Necks**

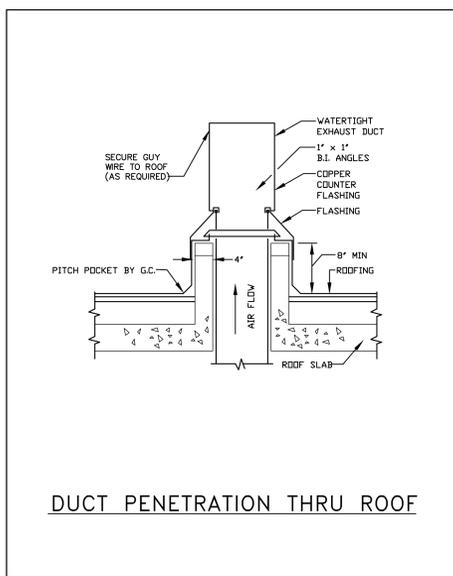
Model: AGR-35-AA-S

Available Sizes:
Size 6" x 4" to 48" x 18"
Maximum 1-piece size: 48" x 18"
Standard Finish: 04 MS

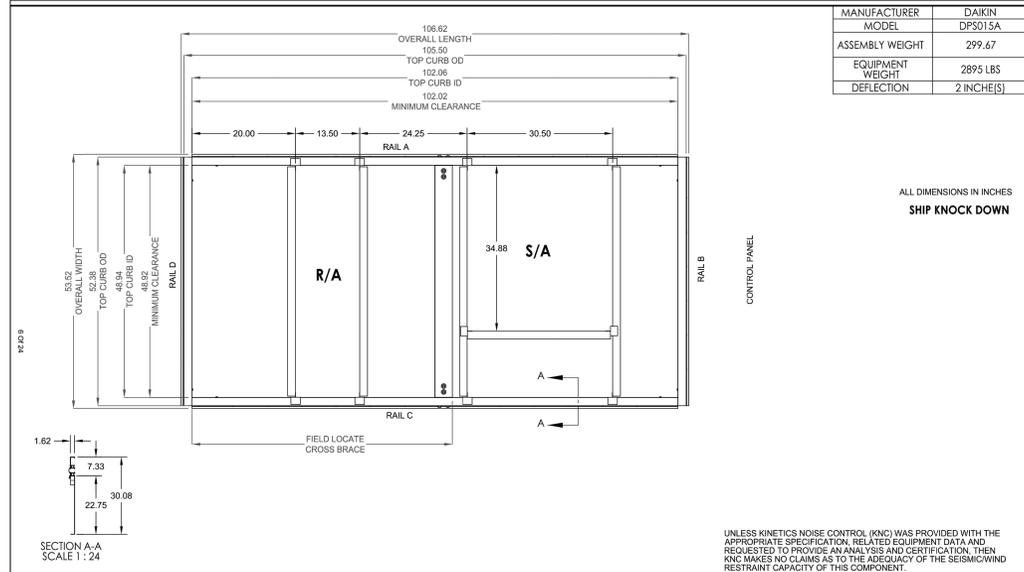
General Description

- The AGR-35-AA-S is a remote, cable operated damper for duct mount applications.
- Remote strap-in cable assembly including mounting hardware is shipped loose for field mounting.
- Available cable lengths: 2 feet to 12 feet in 2-foot increments.
- Cable operated opposed blades make or volume with minimal air disturbance.
- Type 2 remote cable operator.
- Dampers require one to three cables based on neck. Sizes 6-18 inches require one cable, 18-32 inches require two cables, and 34-48 inches require three cables.
- Material is heavy duty extruded aluminum with interpenetrating steel parts.

NOTE: PROVIDE FOR SQUARE DIFFUSERS WHERE VOLUME DAMPERS ARE ABOVE INACCESSIBLE CEILING.



DUCT PENETRATION THRU ROOF



MANUFACTURER	DAIKIN
MODEL	DP5015A
ASSEMBLY WEIGHT	299.67
EQUIPMENT WEIGHT	2895 LBS
DEFLECTION	2 INCHES(S)

ALL DIMENSIONS IN INCHES
SHIP KNOCK DOWN

UNLESS KINETICS NOISE CONTROL (KNC) IS PROVIDED WITH THE APPROPRIATE SPECIFICATION, RELATED EQUIPMENT DATA AND REQUESTED TO PROVIDE AN ANALYSIS AND CERTIFICATION, THEN KNC MAKES NO CLAIMS AS TO THE ADEQUACY OF THE SEISMIC/WIND RESTRAINT CAPACITY OF THIS COMPONENT.

BY	REVISIONS	DATE	DESIGNED BY	SUBMITTAL	NO.	DESCRIPTION
RYB						

SPECIFICATIONS

- SPRING ISOLATORS ARE COMPUTER SELECTED AND LOCATED TO PROVIDE A NOMINAL 2.00 INCH (50 mm) STATIC DEFLECTION.
- SPRING ISOLATORS HAVE A MINIMUM K_{SPR} OF 1.0.
- SPRING ISOLATORS ARE SAFE AT ISOLATION LOADING.
- SPRING ISOLATORS ARE POWDER COATED.
- ALL UNITS SUPPLIED WITH A TROUBLESHOOTING PACKAGE FOR LEVELING EQUIPMENT, IF REQUIRED, DURING INSTALLATION.

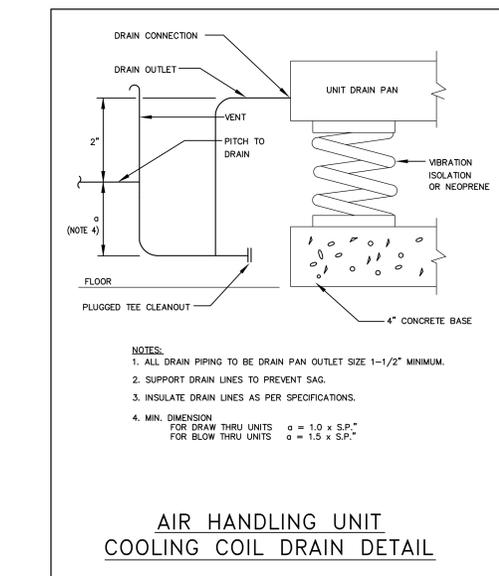
RATED LOAD (LBS)	RATED DEF. (Inch)	SPRING FR. HT. (Inch)	SPRING O. D. (Inch)	SPRING COLOR CODE
3014	2.00/50	3.75/95	1.46/37	GRAY
6500	2.00/50	3.75/95	1.46/37	BLUE
12055	2.00/50	3.75/95	1.46/37	GREEN
20593	2.00/50	3.75/95	1.46/37	BLACK

Typical Section Showing Spring Isolator

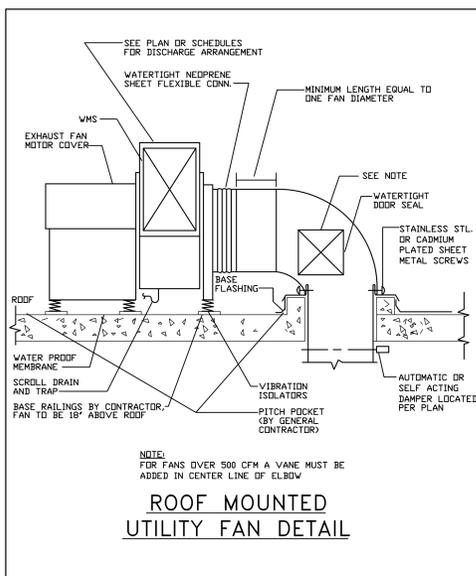
Model: KSCSR 2.2 2" DEFL ISOLATION CURB

By: KR Date: 1/4/22

Drawing No: S-88.851



**AIR HANDLING UNIT
COOLING COIL DRAIN DETAIL**



**ROOF MOUNTED
UTILITY FAN DETAIL**

Rectangular Silencer Submittal Info Page 1 of 2

Project Details

Project Number: 183900
Project Name: Daycare Center - Cosentini
Project Date: December 20, 2021
Customer: Vibration Products
Revision Number:
Revision Date:

Silencer Dimension (in)		Configuration	
Tag	AHU-R-2 - SA	Face Velocity (fpm)	Rectangular
Model	29.5KCRS-F73 - 36 x 29.5 x 34	Flow Volume (cfm)	574
Quantity	1	Pressure drop (in wg)	0.02
System	SUPPLY	Silencer Module Dimension (in) / Weight (lb)	
Width	29.5	Number of Pieces	1
Height	34	M	29.5
Length	36	N	34
RS Type	3	L	36
Unit Size	29.5	Weight each	92

Hz	dB	Hz	dB
63	2	63	43
125	7	125	38
250	12	250	31
500	18	500	28
1000	13	1000	30
2000	10	2000	31
4000	8	4000	29
8000	6	8000	27

Silencer Construction Options

Casing Thickness: 22 Gauge
Perforated Lining Thickness: 22 Gauge
Material: Galvanized Steel
Acoustic Media: Fiberglass (Standard)
Media Covering: None
Inlet Connection: 2" Slip Connection (S&S)
Inlet Attachment Method: Unattached
Outlet Connection: 2" Slip Connection (S&S)
Outlet Attachment Method: Unattached
Seams Locked: Yes

Rectangular Silencer Submittal Info Page 2 of 2

Project Details

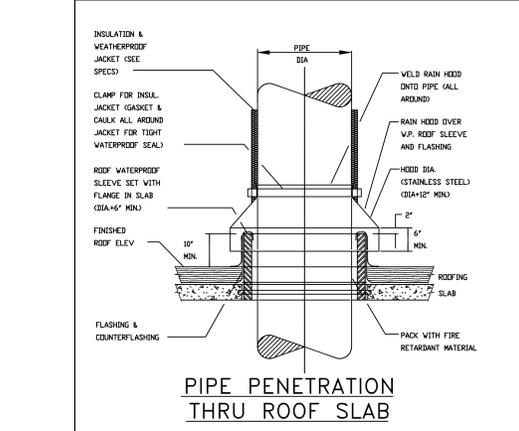
Project Number: 183900
Project Name: Daycare Center - Cosentini
Project Date: December 20, 2021
Customer: Vibration Products
Revision Number:
Revision Date:

Silencer Dimension (in)		Configuration	
Tag	AHU-R-2 - SA	Face Velocity (fpm)	Rectangular
Model	12.5KCRS-F73 - 36 x 12.5 x 47.5	Flow Volume (cfm)	729
Quantity	1	Pressure drop (in wg)	0.04
System	RETURN	Silencer Module Dimension (in) / Weight (lb)	
Width	12.5	Number of Pieces	1
Height	47.5	M	12.5
Length	36	N	47.5
RS Type	3	L	36
Unit Size	12.5	Weight each	86

Hz	dB	Hz	dB
63	2	63	45
125	5	125	41
250	11	250	39
500	20	500	41
1000	28	1000	44
2000	23	2000	44
4000	9	4000	41
8000	4	8000	38

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Casing Thickness: 22 Gauge
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Inlet Attachment Method: None
Outlet Connection: 2" Slip Connection (S&S)
Outlet Attachment Method: None
Seams Locked: Yes



**PIPE PENETRATION
THRU ROOF SLAB**

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE 2020 ENERGY CONSERVATION CODE OF NYS

This plan is approved only for work indicated on the application specification sheet. All other matters shown are not to be relied upon, or to be considered as either being approved or in accordance with applicable codes.

Alterations or additions to this engineering document by an unlicensed person is a violation of Chapter 16, Title VIII, Article 145 § 7209.2 of the New York State Education Law.

**REGENERON
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**Building #17
Campus Expansion Child
Day-care Center**

899 Old Saw Mill River Road
Mount Pleasant, NY 10591

Project No. B17-DAYCARE

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Gensler**
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(212) 492-1472 Fax

Structural Engineer

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120 Broadway, 15th Floor
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(917) 661-7801 Fax

MEP / IT / Security Engineer

Cosentini Associates
498 Seventh Avenue
New York, NY 10018
(212) 615-3600 Phone
(212) 615-3700 Fax

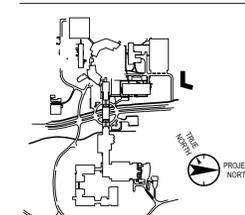
Civil Engineer

JMC
120 Bedford Road
Armonk, NY 10504
(914) 273-5225 Phone
(914) 273-2102 Fax

Landscape Architect

Langan
21 Penn Plaza, 360 West 31st Street, 8th Floor
New York, NY 10001
(212) 479-5400 Phone
(212) 479-5444 Fax

Key Plan



No.	Date	Description
0	05.20.2022	ISSUED FOR PERMIT
1	06.22.2022	100% CONSTRUCTION DOCUMENTS
2	07.01.2022	100% CONSTRUCTION DOCUMENTS-1

Plot Date: 07.01.2022

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Professional Seal and Signature

Vendor Name: COSENTINI
Vendor Project No.: 210104
Discipline: Mechanical Drawn By: BC

**MECHANICAL
DETAILS
SHEET 2**

Scale: NTS Floor:

M-501