



Silencer Selection in Acoustic Design Products



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Click Products to create a new project

Products



Select and configure noise control product without conducting a duct analysis.

Analysis



Analyze a duct system for noise levels in occupied spaces.

Projects



Create or open a project in your account for duct analysis or product selection.

Recent Projects

Project Name	Type	Revision	Created	Last Edited
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Like language

Select project...

Projects

Search lastEdited Anytime showRevisions No ownedBy Me

Klick "New project"



New Project

Select project...

Projects

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Project Name

AHU project 123 Outdoor

AHU project 123

New Project

Project Name

Silencers 123

AHU Silencer

Cancel Create

Owner Editor

Test user Test user ...

Test user Test user ...

New Project Cancel



Give it a name and click "Create"

☰ Silencers 123

Swegon Silencers

Noise Control

View	System	Tag	W (mm)	H (mm)	Dia (mm)	I+U	L (mm)	I/s	m/s	Pa	63	125	250	500	1k	2k	4k	8k	Weight (kg)	Model
------	--------	-----	--------	--------	----------	-----	--------	-----	-----	----	----	-----	-----	-----	----	----	----	----	-------------	-------

Add new



Click Add New to open configurator.

Silencer Selection

Always give the Silencer a Tag

Identity

Tag Quantity

Tag is required

Dimensions & Airflow

Shape

Duct Width mm Duct Height mm

Max Length mm

Silencer Flow Rate l/s Velocity m/s

Maximum Pressure Drop Pa

System Effects

Silencer Inlet Condition

Diameter from Silencer Transition Length

Required Insertion Loss

Frequency	dBA	63	125	250	500	1k	2k	4k	8k
Sound Before Attenuator	7	0	0	0	0	0	0	0	0
Required Insertion Loss	7	-	-	-	-	-	-	-	-
Calculated Insertion Loss		0	0	0	0	0	0	0	0
Safety Factor		0	0	0	0	0	0	0	0

Silencer Selection

Model	Octave Midband Frequency, Hz											
	L	PD	w/SE	A	63	125	250	500	1k	2k	4k	8k
MORENDO a-0151-150-150-650	650	0	0		3	7	15	25	34	34	21	17
Generated Noise					<10	<10	<10	<10	<10	<10	<10	<10
End Result				7	2	1	0	0	0	0	0	0

Options

Uninsulated Cleaning Cover

Fire-Resistant Insulated Cleaning Cover

- Insulated 50mm Stone Wool
- Perforated Sheet Metal Lining
- Flange Connection

Resources

- Product Sheet [Rectangular sound attenuator with low build-in heights](#)
- Brochure [Acoustics Overview](#)
- Instruction [Installation, commissioning, maintenance](#)
- Quality [Approval 2706/92, Duct insulation](#)
- [Building product declaration](#)

Image



Silencer Selection

Identity

Tag: Silencer 123 Quantity: 1

Dimensions & Airflow

Shape: Rectangular

- Rectangular
- Rectangular/CADENZA
- Rectangular/CALMO
- Rectangular/FACILE
- Rectangular/MORENDO
- Rectangular Elbow
- Rectangular Elbow/LENTO
- Rectangular Elbow/LARGO
- Circular
- Circular/CLA-A
- Circular/CLA-B
- Circular/SORDO-A
- Circular/SORDO-B
- Circular/SORDO-C
- Circular/SORDO-P
- Circular/SORDO-PF
- Acoustical Louver
- Acoustical Louver/ALD

87.18 Pa

System Effects

Silencer Inlet Condition: Ideal Outlet Conditions - 3 to 4 diameters of straight duct

Diameter from Silencer: 0 Transition Length:

Required Insertion Loss

Frequency	dBA	63	125	250	500	1k	2k	4k	8k
Sound Before Attenuator	7	0	0	0	0	0	0	0	0
Required Insertion Loss	7	-	-	-	-	-	-	-	-
Calculated Insertion Loss		0	0	0	0	0	0	0	0
Safety Factor		0	0	0	0	0	0	0	0

Silencer Selection

Model	Octave Midband Frequency, Hz											
	L	PD	w/SE	A	63	125	250	500	1k	2k	4k	8k
MORENDO a-0151-150-150-650	650	0	0		3	7	15	25	34	34	21	17
Generated Noise					<10	<10	<10	<10	<10	<10	<10	<10
End Result				7	2	1	0	0	0	0	0	0

Options

Uninsulated Cleaning Cover: None

Fire-Resistant Insulated Cleaning Cover: None

Insulated 50mm Stone Wool

Perforated Sheet Metal Lining

Flange Connection

Resources

Product Sheet
[Rectangular sound attenuator with low build-in heights](#)

Brochure
[Acoustics Overview](#)

Instruction
[Installation, commissioning, maintenance](#)

Quality
[Approval 2706/92, Duct insulation](#)
[Building product declaration](#)

Image

Choose shape to get all products with that shape, or a Product if you already know which to use.

Silencer Selection

Choose duct dimensions and your maximum length for a silencer (space)

Identity

Tag: Silencer 123 Quantity: 1

Dimensions & Airflow

Shape: Rectangular

Duct Width: 1600 mm Duct Height: 800 mm

Max Length: 1250 mm

Silencer Flow Rate: 0 l/s Velocity: 0 m/s

Maximum Pressure Drop: 87.18 Pa

System Effects

Silencer Inlet Condition: Ideal Outlet Conditions - 3 to 4 diameters of straight duct

Diameter from Silencer: 0 Transition Length:

Required Insertion Loss

Frequency	dB(A)	63	125	250	500	1k	2k	4k	8k
Sound Before Attenuator	7	0	0	0	0	0	0	0	0
Required Insertion Loss	7	-	-	-	-	-	-	-	-
Calculated Insertion Loss		0	0	0	0	0	0	0	0
Safety Factor		0	0	0	0	0	0	0	0

Silencer Selection

Model	L	PD	w/SE	A	Octave Midband Frequency, Hz							
					63	125	250	500	1k	2k	4k	8k
CALMO α-1611-1600-800-650	650	0	0		5	10	15	23	27	27	15	10
Generated Noise					<10	<10	<10	<10	<10	<10	<10	<10
End Result				7	1	0	0	0	0	0	0	0
FACILE α-1610-1600-800-750	750	0	0		3	7	12	18	26	25	15	11
Generated Noise					<10	<10	<10	<10	<10	<10	<10	<10
End Result				7	2	1	0	0	0	0	0	0
CADENZA α-1627-1600-800-1250	1250	0	0		5	11	18	27	32	22	13	12
Generated Noise					<10	<10	<10	<10	<10	<10	<10	<10
End Result				7	1	0	0	0	0	0	0	0
CADENZA α-1628-1600-800-1250	1250	0	0		7	12	21	33	39	33	18	14
Generated Noise					<10	<10	<10	<10	<10	<10	<10	<10
End Result				7	1	0	0	0	0	0	0	0
CALMO α-1621-1600-800-1250	1250	0	0		7	15	24	39	45	40	23	17
Generated Noise					<10	<10	<10	<10	<10	<10	<10	<10
End Result				7	1	0	0	0	0	0	0	0
CALMO α-1622-1600-800-1250	1250	0	0		4	9	16	21	25	18	11	11
Generated Noise					<10	<10	<10	<10	<10	<10	<10	<10
End Result				7	1	1	0	0	0	0	0	0

Options

Uninsulated Cleaning Cover: None

Fire-Resistant Insulated Cleaning Cover: None

Insulated 50mm Stone Wool

Perforated Sheet Metal Lining

Flange Connection

Resources

- Product Sheet: [Attenuator with recessed connection for rectangular ducts](#)
- Brochure: [Acoustics Overview](#)
- Instruction: [Installation, commissioning, maintenance](#)
- Quality: [Approval 2706/92, Duct insulation](#)
- [Building product declaration](#)

Image



Silencer Selection

Write the current airflow

Identity

Tag	Quantity
Silencer 123	1

Dimensions & Airflow

Shape: Rectangular

Duct Width: 1600 mm

Duct Height: 800 mm

Max Length: 1250 mm

Silencer Flow Rate: 3000 l/s

Velocity: 2.34 m/s

Velocity in duct

Maximum Pressure Drop: 87.18 Pa

System Effects

Silencer Inlet Condition: Ideal Outlet Conditions - 3 to 4 diameters of straight duct

Diameter from Silencer: 0

Transition Length:

Required Insertion Loss

Frequency	dBA	63	125	250	500	1k	2k	4k	8k
Sound Before Attenuator	7	0	0	0	0	0	0	0	0
Required Insertion Loss	7	-	-	-	-	-	-	-	-
Calculated Insertion Loss		0	0	0	0	0	0	0	0
Safety Factor		0	0	0	0	0	0	0	0

Silencer Selection

Model	L	PD	w/SE	A	Octave Midband Frequency, Hz							
					63	125	250	500	1k	2k	4k	8k
CALMO a-1611-1600-800-650	650	6	6		5	10	15	23	27	27	15	10
Generated Noise					28	28	24	22	19	16	15	13
End Result				25	28	28	24	22	19	16	15	13
FACILE a-1610-1600-800-750	750	11	11		3	7	12	18	26	25	15	11
Generated Noise					20	20	16	14	11	<10	<10	<10
End Result				17	20	20	16	14	11	8	7	5
CALMO a-1622-1600-800-1250	1250	3	3		4	9	16	21	25	18	11	11
Generated Noise					11	11	<10	<10	<10	<10	<10	<10
End Result				8	11	11	7	5	2	0	0	0
CADENZA a-1627-1600-800-1250	1250	7	7		5	11	18	27	32	22	13	12
Generated Noise					17	17	13	11	<10	<10	<10	<10
End Result				14	17	17	13	11	8	5	4	2
CALMO a-1621-1600-800-1250	1250	7	7		7	15	24	39	45	40	23	17
Generated Noise					28	28	24	22	19	16	15	13
End Result				25	28	28	24	22	19	16	15	13
CADENZA a-1628-1600-800-1250	1250	9	9		7	12	21	33	39	33	18	14
Generated Noise					23	23	19	17	14	11	10	<10
End Result				20	23	23	19	17	14	11	10	8

Options

Uninsulated Cleaning Cover: None

Fire-Resistant Insulated Cleaning Cover: None

- Insulated 50mm Stone Wool
- Perforated Sheet Metal Lining
- Flange Connection

Resources

- Product Sheet: [Attenuator with recessed connection for rectangular ducts](#)
- Brochure: [Acoustics Overview](#)
- Instruction: [Installation, commissioning, maintenance](#)
- Quality: [Approval 2706/92, Duct insulation](#)
- [Building product declaration](#)

Image



Silencer Selection

Identity

Tag: Silencer 123 Quantity: 1

Dimensions & Airflow

Shape: Rectangular

Duct Width: 1600 mm Duct Height: 800 mm

Max Length: 1250 mm

Silencer Flow Rate: 5000 l/s Velocity: 3.91 m/s

Maximum Pressure Drop: 5 Pa

System Effects

Silencer Inlet Condition: Ideal Outlet Conditions - 3 to 4 diameters of straight duct

Diameter from Silencer: 0 Transition Length:

Required Insertion Loss

Frequency	dBA	63	125	250	500	1k	2k	4k	8k
Sound Before Attenuator	92	89	88	88	87	86	85	84	82
Required Insertion Loss	7	-	-	-	-	-	-	-	-
Calculated Insertion Loss		0	0	0	0	0	0	0	0
Safety Factor		0	0	0	0	0	0	0	0

Silencer Selection

Model	Octave Midband Frequency, Hz											
	L	PD	w/SE	A	63	125	250	500	1k	2k	4k	8k
No silencers found matching your parameters												

Options

Please select a silencer to configure options

If there is no Silencer matching the parameters,

1. Check if maximum pressure drop is set to low, increase to 50 Pa or higher.
2. Flow rate is too high for the duct dimension, try a larger duct dimension.

Silencer Selection

If you know the sound power (Lw) in the duct, write it here for each octave band

Identity

Tag: Silencer 123 Quantity: 1

Dimensions & Airflow

Shape: Rectangular

Duct Width: 1600 mm Duct Height: 800 mm

Max Length: 1250 mm

Silencer Flow Rate: 3000 l/s Velocity: 2.34 m/s

Maximum Pressure Drop: 87.18 Pa

System Effects:

Silencer Inlet Condition: Ideal Outlet Conditions - 3 to 4 diameters of straight duct

Diameter from Silencer: 0 Transition Length:

Required Insertion Loss

Frequency	dBA	63	125	250	500	1k	2k	4k	8k
Sound Before Attenuator	92	89	88	88	87	86	85	84	82
Required Insertion Loss	7	-	-	-	-	-	-	-	-
Calculated Insertion Loss		0	0	0	0	0	0	0	0
Safety Factor		0	0	0	0	0	0	0	0

Silencer Selection

Model	L	PD	w/SE	A	Octave Midband Frequency, Hz							
					63	125	250	500	1k	2k	4k	8k
CALMO α-1611-1600-800-650	650	6	6		5	10	15	23	27	27	15	10
Generated Noise					28	28	24	22	19	16	15	13
End Result				75	84	78	73	64	59	58	69	72
FACILE α-1610-1600-800-750	750	11	11		3	7	12	18	26	25	15	11
Generated Noise					20	20	16	14	11	<10	<10	<10
End Result				75	86	81	76	69	60	60	69	71
CALMO α-1622-1600-800-1250	1250	3	3		4	9	16	21	25	18	11	11
Generated Noise					11	11	<10	<10	<10	<10	<10	<10
End Result				77	85	79	72	66	61	67	73	71
CADENZA α-1627-1600-800-1250	1250	7	7		5	11	18	27	32	22	13	12
Generated Noise					17	17	13	11	<10	<10	<10	<10
End Result				75	84	77	70	60	54	63	71	70
CALMO α-1621-1600-800-1250	1250	7	7		7	15	24	39	45	40	23	17
Generated Noise					28	28	24	22	19	16	15	13
End Result				67	82	73	64	48	41	45	61	65
CADENZA α-1628-1600-800-1250	1250	9	9		7	12	21	33	39	33	18	14
Generated Noise					23	23	19	17	14	11	10	<10
End Result				71	82	76	67	54	47	52	66	68

Options

Uninsulated Cleaning Cover: None

Fire-Resistant Insulated Cleaning Cover: None

Insulated 50mm Stone Wool

Perforated Sheet Metal Lining

Flange Connection

Resources

Product Sheet: [Attenuator with recessed connection for rectangular ducts](#)

Brochure: [Acoustics Overview](#)

Instruction: [Installation, commissioning, maintenance](#)

Quality: [Approval 2706/92_Duct insulation](#)
[Building product declaration](#)

Image

Silencer Selection

Sound power (Lw) in duct before silencer in dB(A)

Identity

Tag: Silencer 123 Quantity: 1

Dimensions & Airflow

Shape: Rectangular

Duct Width: 1600 mm Duct Height: 800 mm

Max Length: 1250 mm

Silencer Flow Rate: 3000 l/s Velocity: 2.34 m/s

Maximum Pressure Drop: 87.18 Pa

System Effects

Silencer Inlet Condition: Ideal Outlet Conditions - 3 to 4 diameters of straight duct

Diameter from Silencer: 0 Transition Length:

Required Insertion Loss

Frequency	63	125	250	500	1k	2k	4k	8k	
Sound Before Attenuator	92	89	88	88	87	86	85	84	82
Required Insertion Loss	7	-	-	-	-	-	-	-	-
Calculated Insertion Loss	0	0	0	0	0	0	0	0	0
Safety Factor	0	0	0	0	0	0	0	0	0

Silencer Selection

Model	L	PD	w/SE	A	Octave Midband Frequency, Hz							
					63	125	250	500	1k	2k	4k	8k
CALMO a-1611-1600-800-650	650	6	6		5	10	15	23	27	27	15	10
Generated Noise					28	28	24	22	19	16	15	13
End Result				75	84	78	73	64	59	58	69	72
FACILE a-1610-1600-800-750	750	11	11		3	7	12	18	26	25	15	11
Generated Noise					20	20	16	14	11	<10	<10	<10
End Result				75	86	81	76	69	60	60	69	71
CALMO a-1622-1600-800-1250	1250	3	3		4	9	16	21	25	18	11	11
Generated Noise					11	11	<10	<10	<10	<10	<10	<10
End Result				77	85	79	72	66	61	67	73	71
CADENZA a-1627-1600-800-1250	1250	7	7		5	11	18	27	32	22	13	12
Generated Noise					17	17	13	11	<10	<10	<10	<10
End Result				75	84	77	70	60	54	63	71	70
CALMO a-1621-1600-800-1250	1250	7	7		7	15	24	39	45	40	23	17
Generated Noise					28	28	24	22	19	16	15	13
End Result				67	82	73	64	48	41	45	61	65
CADENZA a-1628-1600-800-1250	1250	9	9		7	12	21	33	39	33	18	14
Generated Noise					23	23	19	17	14	11	10	<10
End Result				71	82	76	67	54	47	52	66	68

Options

Uninsulated Cleaning Cover: None

Fire-Resistant Insulated Cleaning Cover: None

Insulated 50mm Stone Wool

Perforated Sheet Metal Lining

Flange Connection

Resources

Product Sheet
[Attenuator with recessed connection for rectangular ducts](#)

Brochure
[Acoustics Overview](#)

Instruction
[Installation, commissioning, maintenance](#)

Quality
[Approval 2706/92, Duct insulation](#)
[Building product declaration](#)

Image

Sound power in duct after silencer in dB(A)

For more correct pressure drop, use system effects

Silencer Selection

Shape
 Rectangular

Duct Width: 1600 mm, Duct Height: 800 mm

Max Length: 1250 mm

Silencer Flow Rate: 3000 l/s, Velocity: 2.34 m/s

Maximum Pressure Drop: 87.18 Pa

System Effects

Silencer Inlet Condition
 Ideal Outlet Conditions - 3 to 4 diameters of straight duct

- Transition - 7.5 degrees per side
- Transition - 25 degrees per side
- Transition - 45 degrees per side
- Radius Elbow with no turning vanes
- Mitered Elbow with short turning vanes
- Mitered Elbow with no turning vanes
- Abrupt Entry or Exit, Smooth Inlet or Discharge
- Abrupt Entry or Exit, Sharp Inlet or Discharge
- Centrifugal Fan
- Axial Fan
- Coils or Filters

Safety Factor: 0 0 0 0 0 0 0 0

Silencer Selection

Model	Octave Midband Frequency, Hz											
	L	PD	w/SE	A	63	125	250	500	1k	2k	4k	8k
CALMO a-1611-1600-800-650 Generated Noise End Result	650	6	6		5	10	15	23	27	27	15	10
				75	84	78	73	64	59	58	69	72
FACILE a-1610-1600-800-750 Generated Noise End Result	750	11	11		3	7	12	18	26	25	15	11
				75	86	81	76	69	60	60	69	71
CALMO a-1622-1600-800-1250 Generated Noise End Result	1250	3	3		4	9	16	21	25	18	11	11
				77	85	79	72	66	61	67	73	71
CADENZA a-1627-1600-800-1250 Generated Noise End Result	1250	7	7		5	11	18	27	32	22	13	12
				75	84	77	70	60	54	63	71	70
CALMO a-1621-1600-800-1250 Generated Noise End Result	1250	7	7		7	15	24	39	45	40	23	17
				67	82	73	64	48	41	45	61	65
CADENZA a-1628-1600-800-1250 Generated Noise End Result	1250	9	9		7	12	21	33	39	33	18	14
				71	82	76	67	54	47	52	66	68

None

Insulated 50mm Stone Wool

Perforated Sheet Metal Lining

Flange Connection

Resources

Product Sheet
[Attenuator with recessed connection for rectangular ducts](#)

Brochure
[Acoustics Overview](#)

Instruction
[Installation, commissioning, maintenance](#)

Quality
[Approval 2706/92, Duct insulation](#)
[Building product declaration](#)

Image

Choose current condition before and after silencer

Silencer Selection

Shape: Rectangular

Duct Width: 1600 mm, Duct Height: 800 mm

Max Length: 1250 mm

Silencer Flow Rate: 3000 l/s, Velocity: 2.34 m/s

Maximum Pressure Drop: 87.18 Pa

System Effects

Silencer Inlet Condition: Axial Fan

Diameter from Silencer: 0, Transition Length: []

Silencer Outlet Condition: Radius Elbow with no turning vanes

Diameter from Silencer: 0, Transition Length: []

Current system effect

Safety Factor: 0 0 0 0 0 0 0 0 0

Silencer Selection

Model	L	PD	w/SE	A	Octave Midband Frequency, Hz							
					63	125	250	500	1k	2k	4k	8k
CALMO α-1611-1600-800-650 Generated Noise End Result	650	6	12 +9	75	5 28	10 28	15 24	23 22	27 19	27 16	15 15	10 13
FACILE α-1610-1600-800-750 Generated Noise End Result	750	11	23 +9	75	3 20	7 20	12 16	18 14	26 11	25 <10	15 <10	11 <10
CALMO α-1622-1600-800-1250 Generated Noise End Result	1250	3	7 +9	77	4 11	9 11	16 <10	21 <10	25 <10	18 <10	11 <10	11 <10
CADENZA α-1627-1600-800-1250 Generated Noise End Result	1250	7	14 +9	75	5 17	11 17	18 13	27 11	32 <10	22 <10	13 <10	12 <10
CALMO α-1621-1600-800-1250 Generated Noise End Result	1250	7	14 +9	67	7 28	15 28	24 24	39 22	45 19	40 16	23 15	17 13
CADENZA α-1628-1600-800-1250 Generated Noise End Result	1250	9	19 +9	71	7 23	12 23	21 19	33 17	39 14	33 11	18 10	14 <10

Pressure drop at ideal conditions
(3 to 4 diameter straight duct before and after silencer)

Pressure drop with current System Effects

None

Insulated 50mm Stone Wool

Perforated Sheet Metal Lining

Flange Connection

Resources

Product Sheet
[Attenuator with aerodynamically shaped splitters](#)

Brochure
[Acoustics Overview](#)

Instruction
[Installation, commissioning, maintenance](#)

Quality
[Building product declaration](#)
[Approval 2706/92, Duct insulation](#)

Image

Silencer Selection

Identity

Tag: Silencer 123 Quantity: 1

Dimensions & Airflow

Shape: Rectangular

Duct Width: 1600 mm Duct Height: 800 mm

Max Length: 1250 mm

Silencer Flow Rate: 3000 l/s Velocity: 2.34 m/s

Maximum Pressure Drop: 87.18 Pa

System Effects

Silencer Inlet Condition: Axial Fan

Diameter from Silencer: 0 Transition Length:

Required Insertion Loss

Frequency	dBA	63	125	250	500	1k	2k	4k	8k
Sound Before Attenuator	92	89	88	88	87	86	85	84	82
Required Insertion Loss	7	-	-	-	-	-	-	-	-
Calculated Insertion Loss		0	0	0	0	0	0	0	0
Safety Factor		0	0	0	0	0	0	0	0

Silencer Selection

Model	Octave Midband Frequency, Hz											
	L	PD	w/SE	A	63	125	250	500	1k	2k	4k	8k
CALMO a-1611-1600-800-650	650	6	12		5	10	15	23	27	27	15	10
Generated Noise			+9		28	28	24	22	19	16	15	13
End Result				75	84	78	73	64	59	58	69	72
FACILE a-1610-1600-800-750	750	11	23		3	7	12	18	26	25	15	11
Generated Noise			+9		20	20	16	14	11	<10	<10	<10
End Result				75	86	81	76	69	60	60	69	71
CALMO a-1622-1600-800-1250	1250	3	7		4	9	16	21	25	18	11	11
Generated Noise			+9		11	11	<10	<10	<10	<10	<10	<10
End Result				77	85	79	72	66	61	67	73	71
CADENZA a-1627-1600-800-1250	1250	7	14		5	11	18	27	32	22	13	12
Generated Noise			+9		17	17	13	11	<10	<10	<10	<10
End Result				75	84	77	70	60	54	63	71	70
CALMO a-1621-1600-800-1250	1250	7	14		7	15	24	39	45	40	23	17
Generated Noise			+9		28	28	24	22	19	16	15	13
End Result				67	82	73	64	48	41	45	61	65
CADENZA a-1628-1600-800-1250	1250	9	19		7	12	21	33	39	33	18	14
Generated Noise			+9		23	23	19	17	14	11	10	<10
End Result				71	82	76	67	54	47	52	66	68

Options

Uninsulated Cleaning Cover: None

Fire-Resistant Insulated Cleaning Cover: None

- Insulated 50mm Stone Wool
- Perforated Sheet Metal Lining
- Flange Connection

Resources

- Product Sheet: [Attenuator with recessed connection for rectangular ducts](#)
- Brochure: [Acoustics Overview](#)
- Instruction: [Installation, commissioning, maintenance](#)
- Quality: [Approval 2706/92, Duct insulation](#)
[Building product declaration](#)

Image



Click on (highlight) the silencer you choose from the list, and click Create

Cancel Create

The chosen product is added to the list

★ Silencers 123

Swegon Silencers

Noise Control

Edit Erase

	View	System	Tag	W (mm)	H (mm)	Dia (mm)	I+U	L (mm)	I/s	m/s	Pa	63	125	250	500	1k	2k	4k	8k	Weight (kg)	Model
			Silencer 123	1600	800			1250	3000	2	7	7 28	15 28	24 24	39 22	45 19	40 16	23 15	17 13	112	CALMO α-1621-1600-800-1250

Add new

Press add new to add more silencers

Hover over Reporting and press Silencer Submittal for a detailed silencer print out

- Calculation Summary
- Silencer Schedule
- Silencer Submittal

Silencers 123

Swegon Silencers

Noise Control

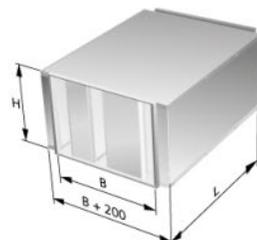
	View	System	Tag	W (mm)	H (mm)	Dia (mm)	I+U	L (mm)	I/s	m/s	Pa	63	125	250	500	1k	2k	4k	8k	Weight (kg)	Model
			Silencer 123	1600	800			1250	3000	2	7	7 28	15 28	24 24	39 22	45 19	40 16	23 15	17 13	112	CALMO a-1621-1600-800-1250

Add new

Silencer Submittal

Project: Silencers 123

CALMO a-1621-1600-800-1250



Path

Position

Silencer 123

Quick facts

- Included in the MagiCAD database
- Excellent aerodynamic characteristics
- Available with cleaning cover
- Available in an insulated version with 50 mm thick fire-resistant stone wool
- Connection sizes ranging from 400x300 to 2200x2200
- Remarkably space-saving rectangular sound attenuator
- Extremely low pressure drop via tapered acoustic baffle surfaces
- Type-approved, environmentally friendly sound attenuating material, ISOVER Cleantec® PLUS
- ISOVER Cleantec® PLUS is cleanable using a wet method.

General

- The CALMO is, due to its unique design with connections facing the side baffles, suitable for use both in ducts and in direct connection to ventilation units.

Dimensions

Width, B	1600mm
Height, H	800mm
Length, L	1250mm
Weight	111.57kg

Data

Inlet	Axial Fan
Outlet	Radius Elbow with no turning vanes
Air flow/l/s	3000
Velocity(m/s)	2
Pressure drop(Pa)	14

Frequency band	63	125	250	500	1k	2k	4k	8k	Sum db(A)
Lw before attenuator	89	88	88	87	86	85	84	82	92
Attenuation (Ld)	7	15	24	39	45	40	23	17	
Sound generation (Lw)	28	28	24	22	19	16	15	13	
Lw after attenuator	82	73	64	48	41	45	61	65	67

Product name

Tag



Quick Facts



Dimensions and weight



Pressure drop at current system effects and air flow



Sound calculation



Silencers 123

Swegon Silencers

Noise Control

	View	System	Tag	W (mm)	H (mm)	Dia (mm)	I+U	L (mm)	I/s	m/s	Pa	63	125	250	500	1k	2k	4k	8k	Weight (kg)	Model
			Silencer 1	1600	800			1250	3000	2	7	7 28	15 28	24 24	39 22	45 19	40 16	23 15	17 13	112	CALMO a-1621-1600-800-1250
			Silencer 2	236	177	125		1000	100	8	19	7 27	16 27	23 23	39 21	50 18	50 15	47 14	35 12	7	CLA-A-125-1000
			Silencer 3	1000	400		300	1300	1300	3	30	8 22	16 22	26 18	31 16	42 13	34 <10	23 <10	23 <10	48	LENTO a-1032-1000-400-300
			Silencer 4	2000	1200			1950	8000	3	24	5 20	11 20	27 16	39 14	39 11	34 <10	24 <10	17 <10	472	FACILE a-2030-2000-1200-1950

Add new

Calculation Summary
 Silencer Schedule
 Silencer Submittal

Hover over Reporting and click Silencer Schedule for a print out of the listed silencers below

Silencer Schedule

Project: Silencers 123

Tag	Model	Dia/WxH (mm)	L/I+U (mm)	Weight (kg)	I/s	Pa	63	125	250	500	1k	2k	4k	8k	
Silencer 1	CALMO a-1621-1600-800-1250	1600 x 800	1250	111.57	3000	7	Lw	28	28	24	22	19	16	15	13
							Ld	7	15	24	39	45	40	23	17
Silencer 2	CLA-A-125-1000	125	1000	7.2	100	19	Lw	27	27	23	21	18	15	14	12
							Ld	7	16	23	39	50	50	47	35
Silencer 3	LENTO a-1032-1000-400-300	1000 x 400	300	48.35	1300	30	Lw	22	22	18	16	13	<10	<10	<10
							Ld	8	16	26	31	42	34	23	23
Silencer 4	FACILE a-2030-2000-1200-1950	2000 x 1200	1950	472.49	8000	24	Lw	20	20	16	14	11	<10	<10	<10
							Ld	5	11	27	39	39	34	24	17



Tips and Tricks

Search silencer using required insertion loss

Silencer Selection

Add required insertion loss on the Calculated Insertion loss row

Identity

Tag: Silencer 1 Quantity: 1

Dimensions & Airflow

Shape: Rectangular/CALMO

Duct Width: 1600 mm Duct Height: 800 mm

Max Length: 1250 mm

Silencer Flow Rate: 0 l/s Velocity: 0 m/s

Maximum Pressure Drop: 87.18 Pa

System Effects

Silencer Inlet Condition: Ideal Outlet Conditions - 3 to 4 diameters of straight duct

Diameter from Silencer: 0 Transition Length:

Required Insertion Loss

Frequency	dBA	63	125	250	500	1k	2k	4k	8k
Sound Before Attenuator	7	0	0	0	0	0	0	0	0
Required Insertion Loss	29	6	14	18	20	25	24	13	8
Calculated Insertion Loss		6	14	18	20	25	24	13	8
Safety Factor		0	0	0	0	0	0	0	0

This silencer meets the required insertion loss (all figures are black)

Silencer Selection

Model	L	PD	w/SE	A	Octave Midband Frequency, Hz							
					63	125	250	500	1k	2k	4k	8k
CALMO a-1621-1600-800-1250	1250	0	0		7	15	24	39	45	40	23	17
Generated Noise					<10	<10	<10	<10	<10	<10	<10	<10
End Result				7	1	0	0	0	0	0	0	0
CALMO a-1611-1600-800-650	650	0	0		5	10	15	23	27	27	15	10
Generated Noise					<10	<10	<10	<10	<10	<10	<10	<10
End Result				7	1	0	0	0	0	0	0	0
CALMO a-1622-1600-800-1250	1250	0	0		4	9	16	21	25	18	11	11
Generated Noise					<10	<10	<10	<10	<10	<10	<10	<10
End Result				7	1	1	0	0	0	0	0	0

Figures are red if they don't meet the requirement

Options

Unisolated Cleaning Cover: None

Fire-Resistant Insulated Cleaning Cover: None

Insulated 50mm Stone Wool

Perforated Sheet Metal Lining

Flange Connection

Resources

Product Sheet: [Attenuator with recessed connection for rectangular ducts](#)

Brochure: [Acoustics Overview](#)

Instruction: [Installation, commissioning, maintenance](#)

Quality: [Approval 2706/92, Duct insulation](#)
[Building product declaration](#)

Image

Silencer Selection

Identity

Tag Quantity

Tag is required

Dimensions & Airflow

Shape

Duct Width mm Duct Height mm

Max Length mm

Silencer Flow Rate l/s Velocity m/s

Maximum Pressure Drop Pa

System Effects

Silencer Inlet Condition

Diameter from Silencer Transition Length

Required Insertion Loss

Frequency	dBA	63	125	250	500	1k	2k	4k	8k
Sound Before Attenuator	7	0	0	0	0	0	0	0	0
Required Insertion Loss	7	-	-	-	-	-	-	-	-
Calculated Insertion Loss		0	0	0	0	0	0	0	0
Safety Factor		0	0	0	0	0	0	0	0

Silencer Selection

Model	L	PD	w/SE	A	Octave Midband Frequency, Hz							
					63	125	250	500	1k	2k	4k	8k
MORENDO a-0151-150-150-650	650	0	0		3	7	15	25	34	34	21	17
Generated Noise					<10	<10	<10	<10	<10	<10	<10	<10
End Result				7	2	1	0	0	0	0	0	0

Options

Uninsulated Cleaning Cover

Fire-Resistant Insulated Cleaning Cover

Insulated 50mm Stone Wool

Perforated Sheet Metal Lining

Flange Connection

Resources

- Product Sheet [Rectangular sound attenuator with low build-in heights](#)
- Brochure [Acoustics Overview](#)
- Instruction [Installation, commissioning, maintenance](#)
- Quality [Approval 2706/92_Duct insulation](#)
- [Building product declaration](#)

Image



Links to documents for the selected silencer

Swegon 

