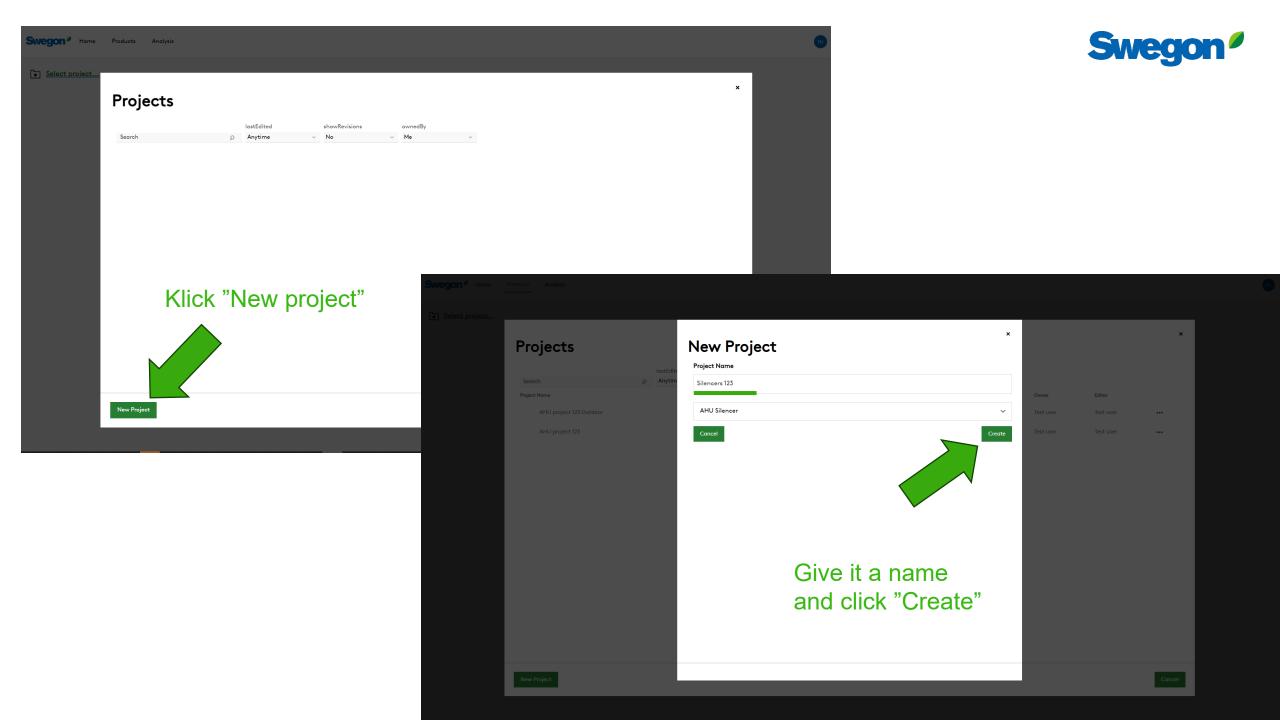


Silencer Selection in Acoustic Design Products



Welcome Test user Products Products <th>Swegon[®] Home Products Analysis</th> <th></th> <th></th> <th></th>	Swegon [®] Home Products Analysis			
Select and configure noise control product without conducting a duct Analyze a duct system for noise levels in occupied spaces. Create or open a project in your account for duct analysis or product Create or open a project in your account for duct analysis or product Recent Projects Project Name Type Revision Create or open a project in your account for duct analysis or product User settings Like language Project Name Type Revision Create or open a project in your account for duct analysis or product User settings Like language User settings Like language	Welcome Test user	ck Products to create a new	v project	
Recent Projects Need help? Like Language Project Norme Type Revision Created Image: Created A and A and	Select and configure noise control product without conducting a duct	(*=	Create or open a project in your account for duct analysis or product	User settings
Contact your local Swegon representative for assistance.	Recent Projects		Need help?	
	Project Name Ty	ype Revision Created	Contact your local Swegon representative for assistance	æ.



Swegon [®] Home	Products	Analysis	Reporting																	τυ
Silencers 123																				
Swegon Silencers																				
Noise Control																				
View	System	Tag	W (mm)	H (mm)	Dia (mm)	I+U	L (mm)	l/s	m/s	Pa	63	125	250	500	1k	2k	4k	8k	Weight (kg)	Model
Add new																				
				ick Add	New to d	nen	configu	irato)r											
				ICK Auu		open	connge	iate	л.											



Silencer Selection

Identity Tag Quantity 1 Tag is required

Dimensions & Airflow

Shape

	Rectangular	~
--	-------------	---

Duct Width		Duct Height			
150	~	mm	150	~	mm

Max Length

Silencer Flow Rate	Velocity		
650		~	mr

0 I/s 0

Maximum Pressure Drop

87.18

System Effects

Silencer Inlet Condition

Ideal Outlet Conditions - 3 to 4 diameters of straight duct 🔍

Diameter from Silencer Transition Length

0	\sim		

	Always	give	the	Silencer	a	Tag
--	--------	------	-----	----------	---	-----

		Required Insertion Loss													Options
		Frequency			dBA	63	125	250	500	1k	2k	4	k	8k	Unisunlated Cleaning Cover
		Sound Before Attenuator			7	0	0	0	0	0	0	0		0	None 🗸
		Required Insertion Loss			7	-	-	-	-	-	-	-		-	
		Calculated Insertion Loss				0	0	0	0	0	0	0		0	Fire-Resistant Insulated Cleaning Cover
		Safety Factor				0	0	0	0	0	0	0		0	None 🗸
															Insulated 50mm Stone Wool
\sim		Silencer Selection													Perforated Sheet Metal Lining
					Octave M	idband Fre	equency, I	Ηz							□ Flange Connection
															Resources
mm	1	Model	L	PD	w/SE	Α	6	3 125	250	500	1k	2k	4k	8k	
		MORENDO a-0151-150-150-650 Generated Noise	650	0	0		3	7 10 <10	15 <10	25 <10	34 <10	34 <10	21 <10	17 <10	Product Sheet Rectangular sound attenuator with low build-in heights
mm	h	End Result				7	2		0	0	0	0	0	0	Brochure
															Acoustics Overview
															Instruction <u>Installation, commissioning, maintenance</u>
m/:	5														Quality
															Approval 2706/92, Duct insulation Building, product declaration
															building product deciditation
Po	1														Image
~															
~															



Silencer Selection

Identity		Required Insertion Loss											Options
Tag	Quantity	Frequency		dBA	63	125	250	500	1k	2k	4k	81	k Unisunlated Cleaning Cover
Silencer 123	1	Sound Before Attenuator		7	0	0	0	0	0	0	0	0	None 🗸
		Required Insertion Loss		7	-	-	-	-	-	-	-	-	
Dimensions & Airflow		Calculated Insertion Loss			0	0	0	0	0	0	0	0	Fire-Resistant Insulated Cleaning Cover
Shape		Safety Factor			0	0	0	0	0	0	0	0	None v
Rectangular	~	Silencer Selection											Insulated 50mm Stone Wool
Rectangular													Perforated Sheet Metal Lining
Rectangular/CADENZA Rectangular/CALMO Rectangular/FACILE				Octave N	lidband F	requency,	Hz						Flange Connection
Rectangular/MORENDO Rectangular Elbow		Model	L PI	D w/SE	Α		3 125	250	500	1k	2k	4k	8k Resources
Rectangular Elbow/LENTO Rectangular Elbow/LENTO Circular Circular/CLA-A Circular/CLA-B Circular/SORDO-A		MORENDO a-0151-150-150-650 Generated Noise End Result	650 0	0	7		5 7 <10 <10 ? 1	15 <10 0	25 <10 0	<10	<10	<10	17 Product Sheet <10
Circular/SORDO-B Circular/SORDO-C Circular/SORDO-P Circular/SORDO-PF Acoustical Louver Acoustical Louver/ALD 87.18	Ρα	Choose sha that shape,											Instruction Installation, commissioning, maintenance Quality Approval 2706/92, Duct insulation Building product declaration
System Effects		· · · · ·			uuc	ιII	yuu	a	ICa	uy			
Silencer Inlet Condition		know which		use.									
Ideal Outlet Conditions - 3 to Diameter from Silencer 0 ~	• 4 diameters of straight duct v Transition Length												



Silencer Selection

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

Identity				Required Insertion Loss												Op	tions
Tag	G	Quantity		Frequency			dBA	63	125	250	500	1k	2k	4k		8k Uni	isunlated Cleaning Cover
Silencer 123		1		Sound Before Attenuator			7	0	0	0	0	0	0	0		D N	None 🗸
				Required Insertion Loss			7	-	-	-	-	-	-	-		-	
Dimensions & Airflow				Calculated Insertion Loss				0	0	0	0	0	0	0		Fire	e-Resistant Insulated Cleaning Cover
Shape				Safety Factor				0	0	0	0	0	0	0		D N	None V
Rectangular			~													0 1	nsulated 50mm Stone Wool
				Silencer Selection												O F	Perforated Sheet Metal Lining
Duct Width		Duct Height					Octave M	lidband F	RAUADOV	4.2							- Tange Connection
1600 v r	mm	800 ~	mm				Octoven		requericy,	12							lange connection
			- 1	Model	L	PD	w/SE	Α	é	3 12	5 250	500	1k	2k	4k	8k Res	sources
Max Length			.	CALMO g-1611-1600-800-650	650	0	0		5	10	15	23	27	27	15	10	duct Sheet
1250		~	mm	Generated Noise				7		10 <1 0			<10	<10	<10	<10	enuator with recessed connection for rectangular ducts
				End Result				7	I	0	0	0	0	0	0		chure ustics Overview
Silencer Flow Rate	V	/elocity		FACILE a-1610-1600-800-750	750	0	0		3		12	18	26	25	15	11 Inst	ruction
0	l/s	0	m/s	Generated Noise End Result				7	2	10 <1 1	0 <10 0	<10 0	<10 0	<10 0	<10 0	<10 0	allation, commissioning, maintenance
																Qua	
Maximum Pressure Drop				CADENZA a-1627-1600-800-1250 Generated Noise	1250	0	0		5	11 10 <1	18 0 <10	27 <10	32 <10	22 <10	13 <10		roval 2706/92, Duct insulation ding product declaration
87.18			Ρα	End Result				7	1	0	0	0	0	0	0	0	<u>ung product desidation</u>
				CADENZA a-1628-1600-800-1250	1250	0	0		7	12	21	33	39	33	18	14 Imc	age
System Effects				Generated Noise End Result				7	<	10 <1 0	0 <10 0	<10 0	<10 0	<10 0	<10 0	<10 0	
Silencer Inlet Condition										0	0	U	U	v	0		
Ideal Outlet Conditions - 3	to 4 d	iameters of straight duct	~	CALMO a-1621-1600-800-1250 Generated Noise	1250	0	0		7	15 10 <1		39 <10	45 <10	40 <10	23 <10	17 <10	
Diamatan farm Silan ara	-			End Result				7	1	0	0	0	0	0	0	0	
Diameter from Silencer	T 	ransition Length		CALMO a-1622-1600-800-1250	1250	0	0		4	9	16	21	25	18	11	11	
0	~		~	Generated Noise				-		10 <1			<10	<10	<10	<10	
				End Result				7	1	1	0	0	0	0	0	0	



Silencer Selection

Write the current airflow

Tag		Quantity	
Silencer 123		1	
Dimensions & Airflow			
Shape			
Rectangular			~
Duct Width		Duct Height	
1600 ~	mm	800 ~	mm
Max Length			
1250		~	mm
Silencer Flow Rate		Velocity	
3000	l/s	2.34	m/s
Maximum Pressure Drop		Velocity in	duc
87.18			Pa
System Effects			
Silencer Inlet Condition			
Ideal Outlet Conditions -	3 to 4	diameters of straight duct	~
Diameter from Silencer		Transition Length	

requency			dBA	63	125	250	500	1k	2k	4	k	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
encer Selection												
			Octave	Midband Fre	equency, H	z						
Model	L	PD	w/SE	Α	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 End Result				25	28 28		24 24	22 22	19 19	16 16	15 15	13 13
ing Result				25	20	20	24	22	19	10	15	15
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 g-1628-1600-800-1250	1250	9	9		7	12	21	33	39	33	18	14
CADENZA a-1628-1600-800-1250 Generated Noise	1250	9	9		7 23	12 23	21 19	33 17	39 14	33 11	18 10	14 <10

Jnisunlated 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					Required Insertion Loss											Options
Tag		Quantity			Frequency		dBA	63	125	250	500	1k	2k	4k	8k	Please select a silencer to configure options
Silencer 123		1			Sound Before Attenuator		92	89	88	88	87	86	85	84	82	
					Required Insertion Loss		7	-	-	-	-	-	-	-	-	
Dimensions & Airflow					Calculated Insertion Loss			0	0	0	0	0	0	0	0	
Shape					Safety Factor			0	0	0	0	0	0	0	0	
Rectangular			~	:	Silencer Selection											
Duct Width		Duct Height		-												
1600 🗸	mm	800	∽ mm				Octave M	lidband F	requency,	Hz						
					Model	L	PD w/SE	A		53 125	250	500	1k	2k 4	k 8k	
Max Length						No	silencers found r	natching	your para	meters						
1250			∽ mm					-	-							
Silencer Flow Rate		Velocity					Ī									
5000	l/s	3.91	m/s				- 1									
Maximum Pressure Drop					If there is n	o Sile	enceri	mat	chi	ng t	he	pa	ram	nete	ers,	
										_						increase to 50 Pa or h
5			Pa													
System Effects					2. Flow rate	e is to	high	for	the	duo	ct d	Ime	ens	ION	try	a larger duct dimensio
Silencer Inlet Condition																
Ideal Outlet Conditions	- 3 to 4	4 diameters of straight d	uct 🗸													
Diameter from Silencer		Transition Length														



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

Identity				Required Insertion Loss												Options
Tag		Quantity		Frequency			dBA	63	125	250	500	1k	2k	4k	8k	Unisunlated Cleaning Cover
Silencer 123		1		Sound Before Attenuator			92	89	88	88	87	86	85	84	82	None ~
Dimensions & Airflow				Required Insertion Loss			7	-	-	-	-	-	-	-	-	Fire-Resistant Insulated Cleaning Cover
Shape				Safety Factor				0	0	0	0	0	0	0	0	None
•																
Rectangular			~	Silencer Selection												Insulated 50mm Stone Wool
Duct Width		Duct Height					Orteur	Aidband Fr		_						Perforated Sheet Metal Lining
1600 v n	mm	800 ~	mm				Octave	Madana Fr	equency, n	Z						Flange Connection
Max Length				Model	L	PD	w/SE	A	63	125	250	500	1k	2k	4k 8	k Resources
1250		~	mm	CALMO a-1611-1600-800-650 Generated Noise	650	6	6	75	5 28		15 24	23 22	27 19 59	16	15 10 15 13	3 Attenuator with recessed connection for rectangular ducts
Silencer Flow Rate		Velocity		End Result				75	84	78	73	64			69 7.	Acoustics Overview
		2.34		FACILE a-1610-1600-800-750 Generated Noise	750	11	11		3 20		12 16	18 14	26 11	<10		10 Instruction
5000	1/5	2.54	m/s	End Result				75	86	81	76	69	60	60	69 7	1 Quality
Maximum Pressure Drop				CALMO a-1622-1600-800-1250 Generated Noise	1250	3	3		4	9 11	16 <10	21 <10	25 <10		11 1 [.] <10 <	Approval 2706/92, Duct insulation
87.18			Pa	End Result				77	85		72	66	<10 61		73 7	<u>building product decididation</u>
System Effects				CADENZA a-1627-1600-800-1250 Generated Noise	1250	7	7		5 17	11 17	18 13	27 11	32 <10		13 12 <10 <	2 Image
Silencer Inlet Condition				End Result				75	84	77	70	60	54	63	71 7	0
Ideal Outlet Conditions - 3	i to 4	diameters of straight duct	~	CALMO a-1621-1600-800-1250 Generated Noise End Result	1250	7	7	67	7 28 82		24 24 64	39 22 48	45 19 41	16	23 17 15 13 61 6	3
Diameter from Silencer		Transition Length							02							
0	~		~	CADENZA a-1628-1600-800-1250 Generated Noise End Result	1250	9	9	71	7 23 82		21 19 67	33 17 54	39 14 47	11	18 1- 10 < 66 6	10



Silencer Selection

Tag		Quantity	
Silencer 123		1	
Dimensions & Airflow			
Shape			
Rectangular			\sim
Duct Width		Duct Height	
1600 ~	mm	800 ~	mm
Max Length			
1250		~	mm
Silencer Flow Rate		Velocity	
3000	l/s	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	\sim
Diameter from Silencer		Transition Length	

			Ŭ			0.1	01	(• / •			
Required Insertion Loss												
Frequency			dBA	63	125	250	500	1k	2k	4	lk	8k
Sound Before Attenuator			92	89	88	88	87	86	85	8	4	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
ilencer Selection												
			Octave Mid	lband Fre	quency, Hz							
Model	L	PD	w/SE	A	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 End Result				75	28 84	28 78	24 73	22 64	19 59	16 58	15 69	13 72
FACILE a-1610-1600-800-750	750	11	11		3	7	12	18	26	25	15	11
Generated Noise End Result				75	20 86	20 81	16 76	14 69	11 60	<10 60	<10 69	<1(71
				/3		01	70	07	00	00	07	
CALMO a-1622-1600-800-1250	1250	3	3		4	9	16	21	25	18	11	11
Generated Noise End Result				77	11 85	11 79	<10 72	<10 66	<10 61	<10 67	<10 73	<1(71
CADENZA a-1627-1600-800-1250	1250	7	7		5	11	18	27	32	22	13	12
Generated Noise End Result				75	17 84	17 77	13 70	11 60	<10 54	<10 63	<10 71	<10 70
				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			,,,	00	54	00	<i>''</i>	,0
CALMO a-1621-1600-800-1250	1250	7	7		7	15	24	39	45	40	23	17
Generated Noise End Result				67	28 82	28 73	24 64	22 48	19 41	16 45	15 61	13 65
CADENZA a-1628-1600-800-1250	1250	9	9		7	12	21	33	39	33	18	14
Generated Noise				74	23	23	19	17	14	11	10	<1
End Result				71	82	76	67	54	47	52	66	68

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

Unisunlated 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				Safety Facto
Rectangular			~	Silencer Sel
Duct Width		Duct Height		
1600	∽ mm	800	~ m	nm
Max Length				Model
1250			v m	CALMO a-16 Generated N End Result
Silencer Flow Rate		Velocity		FACILE a-16
3000	l/s	2.34	m	n/s Generated N End Result
Maximum Pressure I	Drop			CALMO a-10 Generated N End Result
87.18 System Effects				Pa End Result CADENZA a Generated N End Result
	itions - 3 to 4	diameters of straight		CALMO a-16 Generated N End Result
Transition - 7.5 de Transition - 25 de Transition - 45 de Radius Elbow with	grees per side grees per side grees per side	e 9		CADENZA a Generated N End Result
Mitered Elbow wit Mitered Elbow wit Abrupt Entry or E Abrupt Entry or E Centrifugal Fan Axial Fan Coils or Filters	h no turning kit, Smooth Ir	vanes Ilet or Discharge		

encer Selection												
			Octave Mi	dband Frequ	ency, Hz							
1odel	L	PD	w/SE	A	63	125	250	500	1k	2k	4k	8k
ALMO a-1611-1600-800-650	650	6	6		5	10	15	23	27	27	15	10
ienerated Noise					28	28	24		19	16	15	13
nd Result				75	84	78	73	64	59	58	69	72
ACILE a-1610-1600-800-750	750	11	11		3	7	12	18	26	25	15	11
ienerated Noise					20	20	16	14	11	<10	<10	<10
nd Result				75	86	81	76	69	60	60	69	71
ALMO a-1622-1600-800-1250	1250	3	3		4	9	16	21	25	18	11	11
ienerated Noise		-	-		11	11	<10	<10	<10	<10	<10	<10
nd Result				77	85	79	72	66	61	67	73	71
ADENZA g-1627-1600-800-1250	1250	7	7		5	11	18	27	32	22	13	12
ienerated Noise	1250	,	,		17	17	13	11	<10	<10	<10	<10
nd Result				75	84	77	70	60	54	63	71	70
ALMO a-1621-1600-800-1250	1250	7	7		7	15	24	39	45	40	23	17
ienerated Noise	1250	'	/		28	28	24	22	45	40 16	15	13
nd Result				67	82	73	24 64	48	41	45	61	65
nu nesun					02	,5	04	40	-11	40	01	00
ADENZA a-1628-1600-800-1250	1250	9	9		7	12	21	33	39	33	18	14
ienerated Noise					23	23	19	17	14	11	10	<10

0

0

0

0

0

0

0

0

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



 \sim .

Silencer Selection

Rectangular			~
Duct Width		Duct Height	
1600 ~	mm	800 ~	m
Max Length			
1250		~	m
Silencer Flow Rate		Velocity	
3000	l/s	2.34	m
Maximum Pressure Drop			
87.18 Cu	rrent	system effect	
System Effects	rrent	system effect	
System Effects Silencer Inlet Condition	rrent	system effect	
System Effects	rrent	system effect	
System Effects Silencer Inlet Condition Axial Fan	rrent	system effect	~
System Effects Silencer Inlet Condition Axial Fan	rrent ~		~
System Effects Silencer Inlet Condition Axial Fan Diameter from Silencer	~		~
System Effects Silencer Inlet Condition Axial Fan Diameter from Silencer	~	Transition Length	~
System Effects Silencer Inlet Condition Axial Fan Diameter from Silencer 0 Silencer Outlet Condition	~	Transition Length	~

		Octave Midband Frequency, Hz														
1odel	L	PD	w/SE	Α	63	125	250	500	1k	2k	4k					
CALMO a-1611-1600-800-650	650	6	12		5	10	15	23	27	27	15					
enerated Noise			+9		28	28	24	22	19	16	15					
nd Result				75	84	78	73	64	59	58	69					
ACILE a-1610-1600-800-750	750	11	23		3	7	12	18	26	25	15					
enerated Noise			+9		20	20	16	14	11	<10	<10					
nd Result				75	86	81	76	69	60	60	69					
ALMO a-1622-1600-800-1250	1250	3	7		4	9	16	21	25	18	11					
enerated Noise			+9		11	11	<10	<10	<10	<10	<10					
nd Result				77	85	79	72	66	61	67	73					
ADENZA a-1627-1600-800-1250	1250	7	14		5	11	18	27	32	22	13					
enerated Noise			+9		17	17	13	11	<10	<10	<10					
nd Result				75	84	77	70	60	54	63	71					
CALMO a-1621-1600-800-1250	1250	7	14		7	15	24	39	4 5	40	23					
enerated Noise			+9		28	28	24	22	19	16	15					
nd Result				67	82	73	64	48	41	45	61					
ADENZA a-1628-1600-800-1250	1250	9	19		7	12	21	33	39	33	18					
enerated Noise		1	77	74	23	23	19	17	14	11	10					
nd Result			- N	71	82	76	67	54	47	52	66					

None 0 0 0 0

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



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



Create

Cancel

Silencer Selection

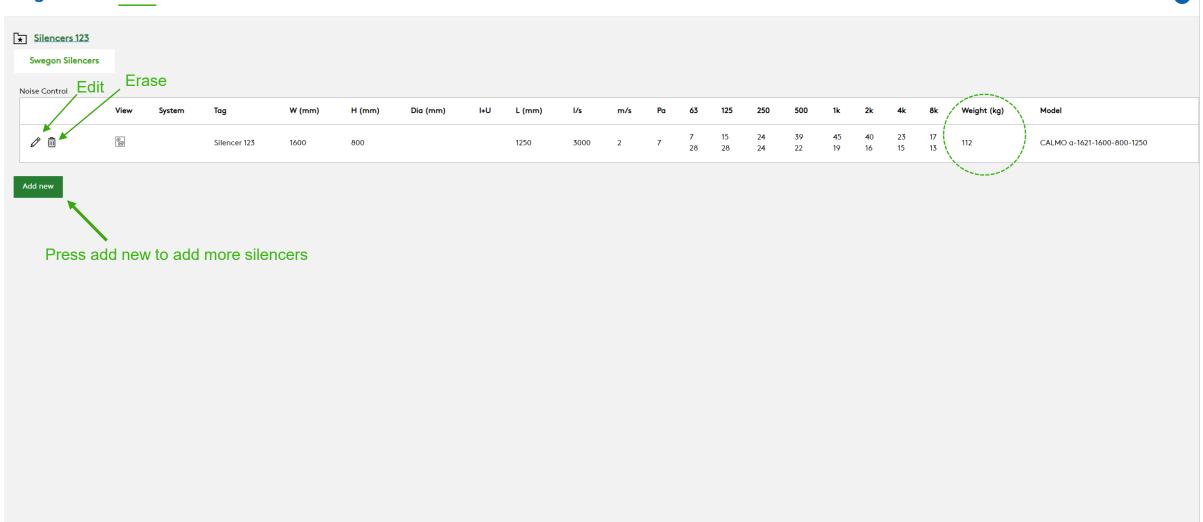
dentity				Required Insertion Loss									Options			
lag	Quantity			Frequency			dBA	63	125	250	500	1k	2k	4k	8k	Unisunlated Cleaning Cover
Silencer 123	1			Sound Before Attenuator			92	89	88	88	87	86	85	84	82	None 🗸
				Required Insertion Loss			7	-	-	-	-	-	-	-	-	
Dimensions & Airflow				Calculated Insertion Loss				0	0	0	0	0	0	0	0	Fire-Resistant Insulated Cleaning Cover
hape				Safety Factor				0	0	0	0	0	0	0	0	None ~
Rectangular			~	Silencer Selection												Insulated 50mm Stone Wool
uct Width	Duct Height															Perforated Sheet Metal Lining
	-						Octave Mi	dband Fr	equency, H	z						Flange Connection
1600 ~ 1	nm 800	~	mm	Model	L	PD	w/SE	Α	63	125	250	500	1k :	2k 4	8k	Resources
lax Length				CALMO g-1611-1600-800-650	650	,	12			10	15	23	27	27 15	10	Product Sheet
1250		~	mm	Generated Noise	000	6	12 +9		28		24	25		27 13 16 15		Attenuator with recessed connection for rectangular ducts
				End Result				75	84	78	73	64	59	58 69	72	Brochure
ilencer Flow Rate	Velocity			FACILE a-1610-1600-800-750	750	11	23		3	7	12	18	26	25 15	11	Acoustics Overview
			۱. ۱	Generated Noise			+9		20	20	16	14		<10 <1		Instruction
3000	l/s 2.34		m/s	End Result				75	86	81	76	69	60	50 <u>69</u>	71	Installation, commissioning, maintenance
laximum Pressure Drop				CALMO a-1622-1600-800-1250	1250	3	7		4	9	16	21	25	18 11	11	Quality <u>Approval 2706/92, Duct insulation</u>
				Generated Noise			+9		11	11	<10	<10		<10 <1	0 <10	Building product declaration
87.18			Pa	End Result				77	85	79	72	66	61 0	67 73	5 71	
				CADENZA g-1627-1600-800-1250	1250	7	14		5	11	18	27	32	22 13	12	Image
system Effects				Generated Noise			+9		17		13	11		<10 <1	0 <10	
ilencer Inlet Condition				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	5 17	
Axial Fan			~	Generated Noise End Result			+9	67	28 82		24 64	22 48		16 15 45 6 1		
Diameter from Silencer	Transition Leng	ıth						0/	02							
0	•		~	CADENZA a-1628-1600-800-1250 Generated Noise	1250	9	19 +9		7 23	12 23	21 19	33 17		33 18 11 10		
-	•		Ť	End Result			17	71	82		67	54		52 60		

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

The chosen product is added to the list



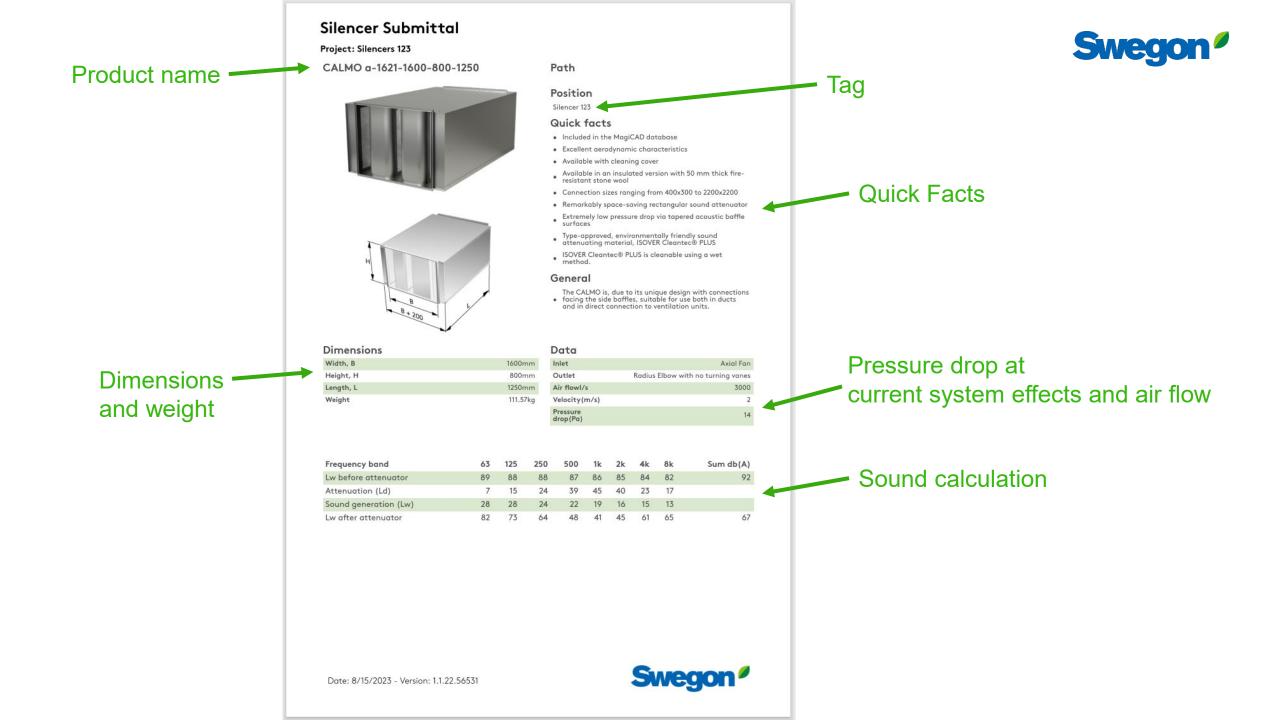
Swegon⁹ Home Products Analysis Reporting





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

Add new



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

	View	System	Tag	W (mm)	H (mm)	Dia (mm)	I+U	L (mm)	l/s	m/s	Pa	63	125	250	500	1k	2k	4k	8k	Weight (kg)	Model
ê û	8		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
I D	8 8		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
I D	8		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
Ø 10	ଷ୍ଡ		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

Swegon[®] Home Products Analysis

Swegon Silencers

Noise Control

Silencer Schedule

Project: Silencers 123

Tag	Model	Dia/WxH (mm)	L/I+U (mm)	Weight (kg)	l/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





Date: 8/15/2023 - Version: 1.1.22.56531

Tips and Tricks

Search silencer using required insertion loss



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Silencer Selection Add required insertion loss on the Calculated Insertion loss row **Required Insertion Loss** Options Identity Unisunlated Cleaning Cover Tag Quantity Frequency dBA 250 500 8k 63 125 1k 2k 4k Sound Before Attenuator 7 None Silencer 1 1 0 0 0 0 0 0 0 29 **Required Insertion Loss** 6 14 18 20 25 24 13 8 Fire-Resistant Insulated Cleaning Cover **Dimensions & Airflow** Calculated Insertion Loss 14 20 25 24 13 6 18 8 Safety Factor None 0 0 0 0 0 0 0 Shape Insulated 50mm Stone Wool Rectangular/CALMO \sim Silencer Selection This silencer meets the required insertion loss (all figures are black) Perforated Sheet Metal Lining Duct Height Duct Width Octave Midband Frequency, Hz □ Flange Connection 1600 ∨ mm 800 ∽ mm Resources Model PD w/SE Α 63 125 250 500 1k 2k 4k 8k 1 Max Length Product Sheet CALMO a-1621-1600-800-1250 1250 0 15 24 39 45 40 23 17 0 Attenuator with recessed connection for rectangular ducts 1250 Generated Noise ∽ mm 7 0 0 0 End Result 1 0 0 0 0 Brochure Acoustics Overview Silencer Flow Rate Velocity CALMO a-1611-1600-800-650 650 0 0 10 15 23 27 27 5 15 10 Instruction Generated Noise <10 <10 <10 <10 <10 0 l/s 0 m/s Installation, commissioning, maintenance End Result 0 7 1 0 0 0 0 0 0 Quality Approval 2706/92, Duct insulation CALMO g-1622-1600-800-1250 1250 0 0 Maximum Pressure Drop 16 21 11 11 Generated Noise <10 <10 <10 <10 <10 <10 Building product declaration 1 0 0 End Result 0 0 0 0 87.18 Pa Image System Effects Figures are red if they don't meet the requirement Silencer Inlet Condition Ideal Outlet Conditions - 3 to 4 diameters of straight duct 🛛 🗸 **Diameter from Silencer Transition Length** 0 \sim \sim





Silencer Selection

Identity				Required Insertion Loss												Options
Тад		Quantity		Frequency	dBA	63	125	250	500	1k	2k	4k	8k	Unisunlated Cleaning Cover		
		1		Sound Before Attenuator			7	0	0	0	0	0	0	0	0	None ~
Tag is required				Required Insertion Loss	7	-	-	-	-	-	-	-	-	Fire-Resistant Insulated Cleaning Cover		
Dimensions & Airflow				Calculated Insertion Loss Safety Factor		0	0	0	0	0	0	0	0			
Shape				Surety ructor			None v									
Rectangular			~	Silencer Selection		Insulated 50mm Stone Wool										
Rectangular			~				Perforated Sheet Metal Lining									
Duct Width		Duct Height					Octave N	lidband Fre	equency, I	łz						Flange Connection
150 ~	mm	150 ~	mm	Model	L	PD	w/SE	A	6	3 125	250	500	1k	2k 4	k 8k	Resources
Max Length				MORENDO a-0151-150-150-650 Generated Noise	650	0	0		3	7 10 <10	15 <10	25 <10		34 21 <10 <		Product Sheet <u>Rectangular sound attenuator with low build-in heights</u>
650 ~ m			mm	End Result				7	2	1	0	0	0	0 0	0	Brochure Acoustics Overview
Silencer Flow Rate	•	Velocity														Instruction Installation, commissioning, maintenance
0	l/s	0	m/s													Quality
Maximum Pressure Drop				Linko to dov			nto	ford	h a		o ot		مالم			Approval 2706/92. Duct insulation Building product declaration
•				Links to doo	Sui	ne	ents		ine	sei	ecu	eas	sile	nce		
87.18			Pa													Image
System Effects																
Silencer Inlet Condition																
Ideal Outlet Conditions - 3	5 to 4 c	diameters of straight duct	~													
Diameter from Silencer		Transition Length														
0	~		~													

