LindQST plugin for MagiCAD for AutoCAD User guide

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	GENERAL

1 General

This document contains instructions on using LindQST plugin for MagiCAD for AutoCAD. The purpose of the plugin is to integrate selection- and indoor climate designer tool LindQST into MagiCAD for AutoCAD. It allows users to find and insert Lindab airborne, waterborne, silencer and damper products into MagiCAD project. In addition, plugin integrates LindQST indoor climate designer features into MagiCAD allowing users to design the air distribution in rooms.

1.1 How to install plugin

1.1.1 Required third-party software

LindQST MagiCAD plugin works with the following AutoCAD and MagiCAD versions:

- MagiCAD for AutoCAD 2025 (with AutoCAD 2021-2025)
- MagiCAD for AutoCAD 2026 (with AutoCAD 2023-2026)

1.1.2 Installation

- 1. Download setup file from <u>https://portal.magicad.com/download/ProductSearch?searchStr=Lindab&categoryId=3</u>
- 2. Install the plugin by running the downloaded installer



2 Starting the program

You will find LindQST MagiCAD plugin ribbon panel under MagiCAD Connect tab in AutoCAD.





3 How to use the plugin

LindQST MagiCAD plugin contains 4 commands:

- LindQST Selection tool
- LindQST for silencers
- LindQST for dampers
- Opens rooms

3.1 LindQST Selection tool

This command opens LindQST for selecting suitable airborne or waterborne products into MagiCAD project.

Follow these steps to insert products from LindQST to MagiCAD project:

1. Click the "LindQST selection tool" -button from LindQST plugin ribbon panel. Plugin opens LindQST in browser control window:

Q			o: 🗘
Find		Calculate	Project
find products, documents etc.	Q #	Airborne Products Diffusers, Nozzies, Grilles, Valves	Untitled project Pick up where you left off
Airborne Solutions Diffusers, Nozzles, Grilles, Valves		Waterborne Products	My Projects
Waterborne Solutions Chilled beams, Radiant panels, Fascade units		Acoustic Products	Indoor Climate Designer
Sound reduction		Circular & rectangular Silencers	Simulate your indoor climate
Fire Protection Solutions		Balancing & Fire dampers	Calculate distribution and attenuation in a ventilation system
Circular & rectangular Fire dampers		Duct Leakage	Recent open projects
Damper Solutions Airflow, circular		Wiring Schemes	Untitled project
Industrial Fan Solutions Industrial fans		Regulation units, connect cards, actuators, sensors	



2. Proceed by selecting either Airborne products or waterborne products. Here we proceed to Airborne product calculator (optionally you can also find suitable airborne products by clicking the Airborne Solutions from the main page):



lindQST - Start Docu	mentation E	Downloads News Support						Ind products, documen	ts el Q	Global		¥
lindQST / Airborne Calculator												
Product category		Ceiling diffusers	~		CRL-125-MBB-12	5-125-S						
Product name		CRL VQ F	Reset		Generate PDF	Generate DXF	Visual	ze + Add to project	Export	to MagiCAI	0	
Plenum box		Yes	~									
Plenum box damper		в	~		Product information	Results	View in 3D					
Duct connection size		125	~		Face velocity		v	3.4			m/s	
Diffuser connection size		125	~		Total pressure loss		Δpt	23			Pa	
Function		Supply	~		Sound power level		L _{wA}	21			dB(A)	20) 5
Working setup		4-way	~		Sound pressure level		L _{pA}	<20			d8(A)	2.5
Flow diffusion		Standard	~		Throw		L _{0.2}	1.9			m	
Air volume	q _v	35.0	l/s ≠		Pressure and sour	nd power diagr	am					
Room attenuation	Dr	4		dB						11	XI	١
Adjustment pressure	Δр	0		Ра	200 -		1		7	41	55	dB
Description					150-	1			rt	1	50	dB
		in Calculate			8 100 - 9 70 -	2		\neg	1	1	45 dB(A)	
					50 -				V	35 dB(A)	D(M)	
					8 30- 23			21 dBIAT	30 dB	B(A)		
					20-			20 dB(A	5 GD(M)			
					15-			35				
					10		-20	30 40	55	- 60	88 98	100
								Air volume [I/s]				

In Airborne calculator proceed by making the required input and selections and then calculate the product. After that proceed by clicking the Export to MagiCAD -button in order to insert the product to MagiCAD.

3. LindQST view is closed and plugin Insert Products view is opened:

RL-125-MBB-125-125-S4 CRL							
	-125-MBB-125-125- V	CRL1	Tuloilma 1 v	35	2800	Select	

Proceed by making required system selections, set height level and select suitable 2D symbol and airflow arrow for the product.

2D symbol can be selected by clicking the select... -button from 2D symbol column. Select Symbol view is opened. Select 2D symbol and then click the OK -button.





		User Code	System	AITTIOW (I/S)	Height level (mm)	2D Symbol
RL-125-MBB-125-125-S4	CRL-125-MBB-125-125- 🛸	CRL1	Tuloilma 1 v	35	2800	Select

Once all selections have been made proceed by clicking the Insert -button.

4. Next product can be placed to MagiCAD drawing into wanted position:





3.2 LindQST for silencers

This command opens LindQST for selecting suitable silencer products into MagiCAD project.

Follow these steps to insert silencer from LindQST to MagiCAD project:

- 1. Click the "LindQST for silencers" -button from LindQST plugin ribbon panel.
- 2. Select the duct where you want to add silencer to (this step can be skipped by clicking esc button):



3. LindQST silencer selector is opened. If you selected the duct in MagiCAD, information read from it is now populated automatically into corresponding fields in LindQST (fields highlighted in red):



Lindab MagiCAD Plugin for Auto	CAD 2	023.1.1															
	2	Sile	encer pe	rformance													
	Hz				63	125	250	500	1k		2k		4k	8k	dB	(A)	
	L _{wi}			- F	59	59	59	57	56		56	56		56	63		
	IL _{(Re}	quired)		- 1													
	L _{w (Re}	equired)			99	99	99	99	99		99	99		99			
	L _{wo}														45		
					dB	dB	dB	dB	dB		dB		dB	dB	dB	(A)	
	3 Duct Silen Produ Duct	Tec type cer typ uct nan connec	chnical n e ne ction size	equirements	2 2	Circular Straight All	* * Q *		Air volume Max. total Max. outer Sound tole	pressure diamete erance	i loss ir		77 50			l∕s ▼	Pa mm dB
	æ∪p	date se	earch Si	EARCH RESULTS:	18								Num	nber of products se	elected: 0	Compare	Add to project
				Order code				L [mm]	Δp	h [Pa]		L	-wA [dB(A)]			v [m/s]	
	•		6	PVA-250-1200-10	0			1200	0			4	45			1.6	
	•		0	PVAP-250-1200-5	0			1200	1			4	14			1.6	
	•		6	PVD-250-1200-10	0			1200	0			4	14			1.6	

Soud values are available only in case sound calculations have been performed in MagiCAD.

4. Proceed by clicking the wanted product from the search results. Silencer calculator is opened.

Lindab MagiCAD Plugin for i	AutoCAD 2023.	1.1																			- 0
	Login	Sign up	Settings	Untitled pro	ject															C Lindab	
lagiCAD Plugin for AutoCAD 2	023.1.1																				- 0 ×
lindQ	ST / Silencer	Selector																			•
Lindab MagiCAD Plugin for J	AutoCAD 2023.	u'																			- 0
	Login	Sign up	Settings	Untitled pro	ject															C Lindab	
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	lindQST	Silencer C	alculator																		
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	59	59	59	57	56	56	56	56		IL.	3	6	12	21	38	26	18	11			
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	Product r	name			PVA		× (Reset													
	Duct con	nection size	e		250			~	mm												
	Insulation	n thickness			50			*													
	Length				1200			~	mm												
	Air volum	e		q _v	77			l/s ▪													
	Descripti	on																			
					Cal	Iculate															

Calculate the product and the click Export to MagiCAD -button in order to insert calculated product into MagiCAD project.

5. LindQST view is closed and MagiCAD user code and symbol selection view is opened:





2D symbol can be selected for the silencer by clicking the Select -button:







General		Product variables		
UserCode:	S1	Property	Value	
Product:	PVA 1200	Product variable		
Ohio at ID farmati		National code		
Object ID format:	•	Installation code	Not selected	\sim
Running index amount:	1	V National classification		
2D aurach als		HyperLink		
2D symbol:		IfcExportAs	IfcDuctSilencerType (IFC2X3, IF	
Select	lfcType	NOTDEFINED (IFC2X3, IFC4)	\sim	
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Eldse	Erase	P2		
		P3		
		P4		
		P5		
		P6		
		P7		
		P8		
		P9		
		P10		
		P11		
		P12		
		P13		

Once all selections have been made proceed by clicking the OK -button.

5. Next MagiCAD insert view is opened, proceed by clicking OK -button in order to place the silencer to the duct:

dumpera 1	How dampers of cher duct compo	nicius				
serCode	Manufacturer	Product	^	Preview Properties	Ventilation	
1	Lindab	PVA 1200				
EWGF	Lindab	DACKA 2450				
1	Flakt Woods	BAKR-1-B-H-0-20-1				
SG	Lindab	BDLD 0				
7	Swegon AB	CADENZA 418 length=650 mm		_		
8	Swegon AB	CALMOa 411 length=650 mm		4		
HRTH	Lindab	DLDR 2450			/*	
2	IVK-Tuote	KVA-A-1200		U 10		
3	IVK-Tuote	KVA-A-1500				
yty 10		KVAPL 2430				
	I ROX Auranor	LDDCD 500	~			
IUNI	Lindab	LINDED 500	>			
lock size	PVA-250-1200-50		~	View mode	Rendered	
nherit insula	ation from duct					
.ock dp	Pa					
bols						
User S	Symbol Reset Symbol					







3.3 LindQST for dampers

This command opens LindQST for selecting suitable damper products into MagiCAD project.

Follow these steps to insert damper from LindQST to MagiCAD project:

- 1. Click the "LindQST for dampers" -button from LindQST plugin ribbon panel.
- 2. Select the duct where you want to add damper to (this step can be skipped by clicking esc button):



3. LindQST damper calculator is opened. If you selected the duct in MagiCAD, information read from it is now populated automatically into corresponding fields in LindQST (fields highlighted in red):

Login Sign up Settings Untitle	d project			C Lindab
lindQST - Start Documentation	Downloads News Support	find	products, documents el Q Global	~ @
lindQST / Damper Calculator				
Product name	DIRU V Q Reset	DIRU-250		
Duct connection size	250 👻	Generate PDF Generate DXF + Add to pro	ject Export to MagICAD	
Airflow q	v [*] 250 № *	Product information Results View in 3D		
Description	p 10 Pa	Total pressure loss Δp _t 10	1	Ра
	Restautate	Sound power level L _{WA} 36	i	dB(A)
		Velocity v 5.	1	m/s
		K factor K 40	1.0	к
		Pressure and sound power diagram		^
		800 100 100 100 100 100 100 100 100 100	50.0E/A 50.0E/A 40.0E/A	70 dB(A) 65 dB(A) 60 dB(A) dB(A)

4. Proceed by selecting the wanted product and calculate it. Then click Export to MagiCAD - button in order to insert selected damper into MagiCAD project.



General		Product variables		
JserCode:	D1	Property	Value	1
Product:	DIRU-250	Product variable		
Dhiect ID format:		National code		
object to toimat.	-	Installation code	Not selected	\sim
Running index amount:	1	 National classification 		
D sumbol:		HyperLink		
LD Symbol.		IfcExportAs	lfcDamperType (IFC2X3, IFC4)	\sim
Select	Not selected	lfcType	BALANCINGDAMPER (IFC2X3,	~ ~
France		P1		
6000		P2		
Actuator symbol		P3		
Select		P4		
Science	Notselected	P5		
Erase		P6		
		P7		
		P8		
		P9		
		P10		
		P11		
		P12		
		P13		

5. LindQST view is closed and MagiCAD user code and symbol selection view is opened:

2D symbol can be selected for the damper by clicking the Select -button.





🙆 MagiCAD V&P - User	Code		>
General		Product variables	
UserCode:	D1	Property	Value ^
Product:	DIRU-250	Product variable	
Object ID format:		National code	
Object to tolmat.	. •	Installation code	Not selected
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Select		lfcType	BALANCINGDAMPER (IFC2X3, 🗸
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		P10	
		P11	
		P12	
		P13	¥
Edit in MagiCAD Crea	ate		<u>O</u> k <u>C</u> ancel

Once all selections have been made proceed by clicking the OK -button.



🕙 MagiCAD V&P - Sele	ect Product					>
Fire dampers Flow damp	pers Silencers Other duct components					
UserCode Man	nufacturer	Product	^	Preview Properties Ve	entilation	
D1 Lind	lab	DIRU-250				
Lock size	DIRU-250		~	View mode	Rendered	~
Inherit insulation from	duct					
Lock dp	Pa					
Symbols						
User Symbol	Reset Symbol					
					Ok	Cancel

6. Next MagiCAD insert view is opened, proceed by clicking OK -button in order to place the damper to the duct:





3.4 Open rooms

Open Rooms command allows user to select the room area(s) from MagiCAD drawing and export the room geometries to LindQST. User can add products to the rooms in LindQST Indoor climate desginer and take advantage of the room functionalities in LindQST. Once the ventilation design for the rooms is ready, user can insert products to MagiCAD drawing.

Follow these steps to use the Open rooms command:

- 1. Click Open Rooms -command from the plugin ribbon panel.
- 2. Room selection type dialog is opened.

🙆 Lindab Magi	CAD Plugin	for Auto	CAD	×
Room Selection	Туре:			
Draw room are	a with recta	ngular t	ool	Ŷ
Room Height:	2800	mm		
			Select Room Can	icel

From this view user can choose the way to show the room area. Following options are available:

- Draw room area with rectangular tool
- Draw room area with line tool

In this example case we choose to use rectangular tool as the room we are going to select has rectangular shape. Notice that also the room height is defined in the dialog above. By default it has the height level defined in MagiCAD floor settings. Once the selections have been made click Select Room -button.

3. Proceed by showing the room area with rectangular tool:





V_Floor1*					
		[+][Top][2D Wireframe]			N
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		┢╫╌		Intersection	
		Vesticute 1			

4. Once the area has been selected, the room selection type dialog is opened again allowing you to either select another room or continue to LindQST with already selected rooms.

📀 Lindab MagiCAD Plugin for AutoCAD	Х
Room Selection Type:	
Draw room area with rectangular tool	×
Room Height: 2800 mm	
Open LindQST Select Room Cance	el

In this example case we click now Open LindQST -button in order to open selected room in LindQST Indoor climate designer. Optionally user could select another room first by clicking Select Room button.

5. LindQST Indoor climate designer is opened, and the selected room area is loaded:





6. Proceed for example by adding wanted products to the room(s):



MagiCAD



7. Select product and click Add to project.

lindQST - Start Docu	imentation I	Downloads News Support			find products, documents el	Q Global 🗸 Q
lindQST / Airborne Calculator						
Product category		Celling diffusers	v	GS23 160+MBB 100 160 E		Exported Spaces/Poom
Product name		GS23 V O Per	et .	G323-100+WBB-100-100-E		Exponed Spaces/Room
Plenum box		Vec Vec		Generate PDF Generate DXF	Visualize Add to project	
Duct connection size		100	-	Product information Results View	v in 3D	
Function		Extract	-	Total pressure loss	32	Pa
Connection		Pay	-	Sound power level L _w	A 30	dB(A)
Working setup		None		Sound pressure level Lp	26	dB(A)
Article name		0000 100 MER 100 100 E	-	Pressure and sound power diagram		
Air volume	Q.,	0023-1004MBB-100-100-E		, and a second perior degram		55 dB(4)
Room attenuation	D,	30 12	dB	250 -	4 7	
Adjustment pressure	Δρ	4	Pa	150 -		50 dB(A)
Description		0		g 100-		45 dB(A)
				y 70-		40 dB(A)
		ind Calculate		se 50 - 32	TAJEB DE	35 dB(A)
				ž 30-	30 d	I(A)
				20 - 15 -	25 d8(A)	
				10	20 dB(A) 30	
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8. Add another product if needed.





 Import back to drawing 	Settings Un	titled project										Lindab
lindQST - Start Do	ocumentation	Add to project						×	iments ei	Q Glo	bal	~ @
lindQST / Airborne Calculator		Please note that any room-rel	ated parameter used in the calc	ulation will not be tran	sferred to an	/ existing room	m.					
Product category		Project	Untitled project	t				~		Ex	ported Spa	aces/Room
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Room attenuation	Dr	4	dB	MISSING								
Adjustment pressure	Δр	0	Pa	Hz	63	125	250	500	1K	2K	4K	sк
Description				Coct	14	8	5	-7	-8	-14	-17	-22
		E Calculate		ΔL	20	17	7	20	19	20	20	22
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Lindab if you wish to use our material i	in other matters.							Contact Eur	went Cookies	Privacy Pri	Terms of	154 23020
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9. Added products are loaded to the room, and placed into the default location. Click Edit button in order to position the products.







10. Once products are in place and you have finished modifying the room in LindQST, proceed by clicking the Import back to drawing -button in order to send added products to MagiCAD:





11. LindQST is closed and Insert Products view from the plugin is opened:

Product	Variant	Operation	User Code	System		Airflow (I/s)	Height level (mm)	2D Symbol	_
23-160+MBB-100-160-E	GS23-160+MBB-100-16 ×	✓ Insert	ATD1	Extract 1	~	30	2800	Select	
-100-MBB-100-100-S4	CRL-100-MBB-100-100- V	✓ Insert	ATD2	Supply 1	~	0	2800	Select	

Select required systems for the products. Also 2D symbol can be selected for airborne products. Once selections have been made click Insert -button.

12. Products are now placed to the drawing into locations defined in LindQST Indoor climate designer.



The command is now complited.





13. Room can be re-opened with Open rooms command if needed. When the room is opened again, also the existing products in the room are recognized and transferred to LindQST.



- MagiCAD
- 14. User can add more products to the room or modify the existing ones if needed. Once modifications to the products have been made, updates can be sent back to MagiCAD by clicking the Import back to drawing -button.