# LindQST plugin for Revit and MagiCAD for Revit User guide

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## 1 General

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

#### **1.1 How to install plugin**

#### 1.1.1 Required third-party software

LindQST Revit plugin works with the following Revit and MagiCAD for Revit versions:

- Revit 2023 2026
- MagiCAD for Revit 2025 (with Revit 2023-2025)
- MagiCAD for Revit 2026 (with Revit 2023-2026)

#### **1.1.2 Installation**

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



## **2** Starting the program

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





## 3 How to use the plugin

LindQST Revit plugin contains 7 commands:

- LindQST Selection tool
- LindQST for silencers
- LindQST for dampers
- Link to LindQST project
- Upload spaces
- Import products to spaces
- Opens rooms

### 3.1 LindQST Selection tool

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

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

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

lindQ\$T - Start Documentation Downloads News Suppo	ht	find products, documents el Q Global V
Q V Find	Calculate	Project
Ind products, documents etc.     Q     P       Airborne Solutions     Diffusers, Nozzes, Grifles, Valves     P       Waterborne Solutions     Childeb beams, Radant panels, Fascade units     P       Sound reduction     Circular & rectangular Files dampers     P       Circular & rectangular Files dampers     P     P       Damper Solutions     Airlow, circular     Industrial Fan Solutions       Industrial Fan Solutions     Industrial fans	Airborne Products Diffusers, Nozzles, Grilles, Valves Waterborne Products Childre beams, Radiant panels, Fascade units Acoustic Products Circular & rectangular Silencers Damper Products Balancog & Fire dampers Duct Leakage Energy and cost benefits between duct tightness classes Wiring Schemes Regulation units, connect cards, actuators, sensors	Untitled project Pick up where you left off My Projects Create a new project or manage existing Indoor Climate Designer Simulate your indoor climate System Sound Calculator Calculate distribution and attenuation in a ventilation system Recent open projects Untitled project
Crewineld 2023, Lindah All, All reiden reservent. Bird/DEF rom in rusenet for Lindah All all imanes	factorizal data and other material found on this site belows to I indeb &R. Plaase contact	



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 t	Downloads News Support					Bind	I products, documents ef Q Globa	al 🗸 🥥
lindQST / Airborne Calculator									
Product category		Ceiling diffusers	v	CR	L-100+MBB-10	0-100-S			
Product name		CRL Y Q	Reset	Z	Generate PDF	Generate DXF	Visualize	+ Add to project Export to Revit	1
Plenum box		Yes	~	P	oduct information	Results	View in 3D		
Function		100	*	Face	velocity		v 5	6	m/s
Connection		Box	~	Tota	pressure loss		Δpt 66	1	Ра
Working setup		4-way	~	Sou	nd power level		L <sub>WA</sub> 38	1.	dB(A)
Article name		CRL-100+MBB-100-100-S	~	Sou	id pressure level		LpA 3		dB(A)
Air volume	q <sub>v</sub>	35.0	l∕s ∙				L02 2	3	
Adjustment pressure	D <sub>r</sub>	4		dB Pr	essure and soun	d power diagr	am		^
Description		0			250-			X	
		a Calculate			150-		1		55 dB(A) 50 dB(A)
					100- 5 70- 5 70-				45 dB(A)
					50-			40 35 dB(A)	dB(A)
					75 30-			30 dB(A)	
					20- 15-			25 dB(A)	
					10		-10	-20 -30 -40	-55 -53
							-	Air volume [I/s]	

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

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

Product	Variant	System	Airflow (I/s)	Height level (mm)	2D Symbol	Airflow Arrow	
L-125+MBB-125-125-S4	CRL-125+MBB-125-125 V	Supply 1 v	50	2800	Select	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.





Lindab LindQST Plugin for	Revit - Insert						
Product	Variant	System	Airflow (l/s)	Height level (mm)	2D Symbol	Airflow Arrow	
RL-125+MBB-125-125-S4	CRL-125+MBB-125-125 ~	Supply 1 ~	50	2800	Select	Select	
elect 2D Symbol for All	Select Airflow Arrow f	or All				Insert Ca	ance

Airflow arrow can be selected for airborne products with similar steps by clicking the Select... - button from Airflow Arrow -column.

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



4. Next product is converted into Revit Family and can be placed to Revit project into wanted position:



### 3.2 LindQST for silencers

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

Follow these steps to insert silencer from LindQST to Revit 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 Revit, information read from it is now populated automatically into corresponding fields in LindQST (fields highlighted in red):

2ST Plugin for Revit 202	13.3.2													
	2 Sile	encer pe	formance											
	State re	quirement i	n octave									_		
Hz	z			63	125	250	500	1k	2k	4k	8k	dB(A)		
Lw	vi		L	60	59	59	57	56	56	55	54	7		
IL,	(Required)													
Lw	v (Required)	)		99	99	99	99	99	99	99	99			
Lw	wo											57		
				dB	dB	dB	dB	dB	dB	dB	dB	dB(A)		
Sil Pri Du	lencer typ roduct nar uct conne Updale s	e me ection size earch SE	ARCH RESULT	Stra All 125	light	~ Q ~	]	Max. total press Max. outer dian Sound toleranc	sure loss neter e	50	lumber of products s-	elected: 0 Comp	Pa mm dB pare Add to project	
			Order code				L (mm)	Δpt [Pa	]	L <sub>wA</sub> [dB(A)]		v [m/s]		
+		<b>V</b>	PVD-125-300	-50-1			300	0		53		2.9		
•		<b>\$</b>	PVA-125-300-	50			300	0		52		2.9		
•			PVD-125-300-	-50-7			300	0		52		2.9		
+		ø	SLTR-125-390	0			390	0		50		2.9		
+		808	KVDPX-125-3	00-3			300	4		49		2.9		

꼔 MagiCAD



Soud values are available only in case MagiCAD for Revit is in use and sound calculations have been performed.

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

Bit Construction         PVA-125-300-50           Image: System         Extract           Fan         Not selected           Image: System         Extract           Fan         Not selected           Image: System         Extract           Fan         Not selected           Image: System         Image: System           Extract         Image: System           Fan         Not selected           Image: System         Image: System           Extract         Image: System           Extract         Image: System           Fan         Not selected           Image: System         Image: System           Extract         Image: System           Extract         Image: System           Fan         Not selected           Image: System         Image: System           Extract         Image: System           Image: System         Image: System           Extract         Image: System	Ра
IndOST / Skncer Cakulator         ImADST / Skncer Cakulator         PVA-125-300-50         © Generate DDF         Comparing the point of the po	Ра
1       2       3       4       1       9	Pa
3       4       1       Cenerate D2F       Cenerate D2F       Ad3 to project       Export to Revit         System       Extract       Product information       Results       Vew in 3D         Fan       Not seected       0       0       0       0       0       0       7         Lui       63       125       250       500       1 K       2K       4K       8K       dB(A)	Ра
System         Extract         Product information         Results         View in 3D           Fan         Before fan         Image: Second fan in the second fa	Ра
Flacement         Extract         0         2.9           Fan         Not selected         •         63         125         250         500         1K         2K         4K         8K         dB(A)           63         125         250         500         1K         2K         4K         8K         dB(A)	Pa
Fan         Not selected         Image: Constraint of the selected<	
Last         63         125         280         500         1K         2K         4K         8K         dB(A)           63         125         250         500         1K         2K         4K         8K         dB(A)	m/s
63 125 250 500 1K 2K 4K 8K L <sub>MI</sub> 0 0 0 0 0 0 0 7	NR
	8
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	17
Ductype         Circular         Los         Los <thlos< thr="">         Los         Los         <t< td=""><td>18</td></t<></thlos<>	18
Silencer type Straight v dB	NR
Product name v Q Reset	
Duct connection size 125 mm	
Insulation thickness 50 v	
Length 300 v mm	
Air volume q <sub>v</sub> 35 Us •	
Description	

#### MagiCAD

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

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

Product	Variant	System	Airflow (I/s)	Height level (mm)	2D Symbol	Airflow Arrow
A 300	PVA-125-300-50 V	Ŷ	35	0	Select	Select

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





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

5. Next product is converted into Revit family and can then be placed to Revit project into the duct that was selected at the beginning of the operation (it is possible to insert the silencer to any position though):







#### 3.3 LindQST for dampers

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

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

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



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





R 🖸 🕞 🖯 🖓 • 🗠 •	ି - 😂 🖴 - 🖍 ଣ 🖓 - ବ 📰	14 B · · ·	Autodesk Revit	2022 - MagiCAD for Revit_HVAC_E.rvt - Floor Plan:	1 - V	+ 🏨 💄 veli-matti.antt+ 🍃 🔞 +	_ & X
File Architecture Structure	re Steel Precast Systems Insert A elp R LindCIST for silencers to Formelt	innotate Analyze Massing & Site Collaborate	View Manage Add-Ins CADv	ent Modify 🗭 💼 Rent AHU Insert Topvex AHU Insert Product	MagiCAD Create		
Select • eTransmit	Formit Converter Lindab	MagiCAD Plugins Swegon	Swegon AB	Systemair	MagiCAD Databases		
P		X O 10 former Biolog Barry					
C Lindab LindQST Plugin for Rev	ít 2023.3.2	<ul> <li>(g) so camera bining koom</li> <li>(g) i</li> </ul>				-	σ×
	Login Sign up Settings Ur	ntitled project				(C) Lindab	ŕ
	lindQST - Start Document	lation Downloads News Support			find products, documents el Q Glob	al 🗸 🤤	
	lindQST / Damper Calculator						- 1
	Product name	DIRU 🗸	Q Reset	DIRU-250			
	Duct connection size	250	~	Generate PDF Generate DXF	+ Add to project Export to Revit		
	Airflow	qv* 161	1/5 <b>-</b>	Droduct Information Regula	May in 2D		- 1
	Adjustment pressure	Δp 20	Pa	Total pressure loss	An.	Pa	
	Description			Sound nowar level	20	(8(4)	
		Galculate		Velocity	32 V	mis	- 1
				K factor	3.3 K	к	- 1
					25.4		
				Pressure and sound power diag	ram	^	
						70 dB(A) 00 dB(A) 55 dB(	

- 9. Proceed by selecting the wanted product and calculate it. Then click Export to Revit -button in order to insert selected damper into Revit project.
- 10. LindQST view is closed and plugin Insert Products view is opened:

61 0 Select Select

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





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

Select Airflow Arrow for All...

Select 2D Symbol for All...

6. Next product is converted into Revit family and can then be placed to Revit project into the duct that was selected at the beginning of the operation (it is possible to insert the damper to any position though):

Insert Cancel





### 3.4 Link to LindQST project

User needs to create link between active Revit project and LindQST project in order to upload MEP spaces from Revit project to LindQST project and in later stage for importing products back to Revit from LindQST project.

Link between active Revit project and LindQST project can be created with Link to LindQST project command. Command is started from LindQST plugin ribbon panel.

Following view is opened:

R Create / Link LindQST project to Revit Project	×
LindQST Log in	
User Name	
veli-matti.anttila@magicad.com	
Password	
•••••	
Forgot your password?	
Register new user	
Login Logout	
Create a LindQST Project	
Name	
RevitTestProject	
Create and link to Revit Project Delete Link	
	Close



First login to LindQST by entering user name and password and the click the login -button. In case you have not registered as LindQST user yet, you can do it by clicking the Register new user -link from the view.

Once you're logged in, create new project to LindQST by entering the name for the project and then click Create and link to Revit project -button. You will get following notification when the project and link has been successfully created.



You can also delete the existing link between Revit and LindQST project by clicking the Delete link - button.

Once the link has been created, Upload Spaces command can be used for uploading the MEP spaces from Revit project into LindQST project. See details from chapter 3.5.

### 3.5 Upload spaces

Upload spaces command can be used for uploading all or selected MEP spaces from Revit project into LindQST project. LindQST indoor climate designer can then be used for designing the ventilation for the uploaded spaces.

Follow these steps to use the Upload spaces command:

- 1. Start Upload spaces command by clicking the Upload spaces -button from LindQST plugin ribbon panel.
- 2. Upload spaces view is opened:



R MEP Spaces in Lindab LindQST Plugin for Revit Indoor Cli	_		×
▷ 🗹 1. floor			$\sim$
▲ 🖌 2. floor			
✓ Meeting Room 218			
✓ Office 219			
✓ Office 213			
✓ Office 212			
✓ Office 210			
✓ Office 211			
✓ Meeting Room 220			
✓ Office 224			
✓ Office 225			
✓ Office 226			
✓ Office 223			
✓ Office 214			
✓ Office 227			
✓ Office 215			
✓ Office 222			
✓ Office 221			
✓ Office 217			
✓ Office 216			
V Recention-2 151-2			
Corridor 202			
Recention -2 151-2			
WC 222			
V WC 255			
V EL. Space E002			
V WC 231			
V HVAC Shaπ-2 V001-2			
V Stock 232			
V Meeting Room 228			
Corridor 201			
IV Elevator-2 150-2			
✓ Stock-1 142-1			
▲ 🔽 3. floor			
✓ Staircase T3			
Space 220			
Ventilation room 313			$\sim$
<b>L</b>			
Upload Selected Spaces to LindQST		Close	

Proceed by selecting wanted spaces and floors and then click Upload Selected Spaces to LindQST -button.

Following confirmation is asked from the user:

Question		$\times$
	Uploading spaces will overwrite the existing spaces in the LindQST project. Proceed?	
	Yes No	

It is important to recognize that uploading spaces will always overwrite possible previous uploadings from the linked LindQST project. Click yes to continue the upload.

3. LindQST indoor climate designer is now opened in default browser window:





You can now continue working with the project in LindQST. Add wanted product to the rooms and take advantage of LindQST room visualization features etc.

4. Products can be added for example by right clicking the mouse over the room:





5. In this example case we proceed by clicking Calculate diffuser menu item. Airborne calculator is opened:

🎍 veli-matti.anttila@magica	ad.com Logout	Settings R	evitTestProject										() Lin	dab			
lindQST - Start I	Documentation Do	wnloads Ne	ws Support							find products, documents el	Q	Global	÷	0			
lindQST / Airborne Calculato	r																
Product category		Ceiling diffus	ers		~	<ul> <li>CRL-100-MBB-100-100-S</li> </ul>							1. floor/Meeting Room 1				
Product name		CRL	~	Q	Reset		B Generate PDF	Generate DXF	Visua	ize + Add to project							
Plenum box		Yes	res 🗸														
Duct connection size	Duct connection size				~		Product information	Results	View in 3D								
Diffuser connection size	100					Face velocity		v	22.9			m/s					
Function	Supply			~		Total pressure loss		Δpt	1118	ŀ							
Working setup		4-way			~		Sound power level Sound pressure level	L <sub>WA</sub>		>60			dB(A)				
Air volume	q <sub>v</sub>	144			Vs -				LpA	>60			dB(A)				
Room attenuation	Dr	4				dB	Throw		L0.2	8.1		m					
Adjustment pressure	Δp	0							Ра	Pressure and sour	nd power diagr	am					^
Description							1			$\langle \rangle$		CKL.	H D				
		Calculate					250 - 200 -					XX	55	dR(A)			
							150			$\rightarrow$	$\mathbf{\nabla}$	12	50 dB(A)				
							100- 9 70		-	$\rightarrow$	Ť	1	5 dB(A)				
							50-			$\langle \gamma \rangle$	V	40 dB(A)					
							10 10 30			30	dBIA'	o arify)					
							i = 30										

Select wanted diffuser make required selections and then click Add to project -button.

ttila@magicad.com	Logout	Settings RevitTestProject							C Lindab
Start Documenta	tion D	Add to project				×	iments el C	Global	~ @
me Calculator		Please note that any room-related parameter	er used in the calculation v	will not be transferred to any exist	ing room.				
ry		Project	RevitTestProject			1. floor/Mee	ting Room 135		
		Floor	1. floor		oject				
		Room	Meeting Room 135		~	🕑 Open in 🕶			
n size		Number of products	1			Indoor Climat	e Designer		
ction size			+ Add			System Soun	d Calculator		Pa
					+ Create new pro	oject Close			dB(A)
	qv	144 VS •		_	_	_			dB(A)
ion	Dr	4	dB	Throw	L <sub>0.2</sub>	8.1			m
ssure	Δр	0	Pa	Pressure and sound power	diagram				^

Make sure that you have correct room selected and then click Add -button. Next you can either enter back to Indoor climate designer or click close and continue adding more products to rooms with Airborne calculator.

6. In this example case we proceed back to indoor climate designer. By switching to edit mode, you can move the products to wanted positions.





7. Next you can continue for example by adding products to other rooms:





			Coungo Iterra	lestProject									~
	lindQST - Start Docum	entation D	ownloads News	Support						ind products, d	ocuments el Q	Global	~
	lindQST / Waterborne Calculator												
	Product		Architect	~ Q	Reset		Architect Circum-1	2-125-A1-1	2-60-30			1. flo	or/Office
	Function		Cooling 2-pipe sy	stem	*		D Constrato DDE	Caparata DVE	@ Maual		project		
	Туре		Circum		v Q		E Generate PDF	Generale DAP	@ visual	Ze TAUUIO	project		
	Water connection		12		~	mm	Product information	Results	View in 3D				
	Air connection		1x125		~	mm	Results						
	Connection type		A1		~ Q		Town difference had			Cooling			
	Product length	L	1.2		~	m	temp. and mean water	een room air temp.	$\Delta l_{W}$	9.50		к	
	Distribution profile		30°		~ Q		Nominal water capacit	y	Pwnem	389		W	
	Static nozzle pressure loss	∆p <sub>stat</sub>	60			Pa	Water flow rate		qw	0.0279		Vs	
	Primary airflow rate	qa	30		l∕s <del>•</del>		Corrected water capai	ny	Pw	351		W	
	Number of products		2				Capacity air		Pa	252		~~	
	Description						Total Capacity		Pt .	603		w	
	Control valve		No		~ 0		Pressure loss water in	product	Δp <sub>w</sub> p	0.5		dB(A)	
	Flexible hoses		No		· 4		Sound procesure level		EwA	24		(D(A)	
			10		. 4		Water capacity / active	leadth	ърд	20		W/m	
	● ∆t <sub>w</sub> - Calculate water flow from	m given delta '	т				Mixed air temperature	lenga	+ winact	439		10	
out S	Settings RevitTestPro	pject											
	Add to project											× -	
D	taa to projoot											ime	nts el
F	Project			DovitTos		+							
F	Floor			Revictes	siriojeci						<b>Flore</b>		
				1. 1100r						~	Le Open l	n - Djei	
	Room			Office 11	19					~	C Open i	n 🕶	
	Number of products			1							Indoor C	limate Des	igner
				+ Add							System	Sound Cale	ulator
	Product(s) successfully	added to	Office 119.	to to Indo	or Clima		/ System Sound (	alculator					
	Close this window to ca	ilculate ne	ew device of (	90 10 11100		ite Designer	7 System Sound C	aiculatoi					
Datat													
rsidi								-	- Create	e new pro	ect Cl	ose	
			_			Can	acity air		_	Ρ.			
	2					oup	aony an			' a	252		



Once you have completed working with project in LindQST, you can proceed by importing the products to Revit with Import product to spaces command. See detailed instructions from chapter 3.6.



Notice that it is also possible to share your LindQST project with Lindab sales and ask for help.

#### **3.6 Import products to spaces**

Import products to spaces -command allows user to import products from linked LindQST project to the active Revit project. All products that have been placed to the rooms in LindQST indoor climate designer can be brought to Revit project with this command.

Follow these steps to use the Import products to spaces -command:

- 1. Start Import product to spaces -command by clicking the corresponding button from LindQST plugin ribbon panel.
- 2. Import products to spaces view is opened. Treeview includes floors, spaces and the products that can now be imported to the MEP spaces in Revit project. In this example case we have added only 7 products:

R MEP Spaces in Lindab LindQST Plugin for Revit Indoor Cli	_		×
4 1. floor			$\sim$
Meeting Room 135			
CRL-100-MBB-100-100-S(4-way)			
CRL-100-MBB-100-100-S(4-way)			
▲WC 139			
CRL-100-MBB-100-100-S(4-way)			
▲ <u>WC</u> 138			
✓ CRL-100-MBB-100-100-S(4-way)			
EL. Space E001			
WC 134			
HVAC Shaft-1 V001-1			
Stock 137			
Meeting Room 120			
<ul> <li>Office 119</li> </ul>			
✓ A Circum-12-125-A1-1.2-60-C			
<ul> <li>Office 128</li> </ul>			
✓ A Circum-12-125-A1-1.2-60-C			
<ul> <li>Office 127</li> </ul>			
A Circum-12-125-A1-1.2-60-C			
Office 126			
Office 125			
Vestibule 106			
WC M 149			
WC F 148			
Technical space 147			
Vestibule 146			
Tele 107			
Corridor 140			
Office 124			
Office 123			
Office 122			
Office 121			
Office 112			
Office 113			
Office 114			
Office 115			
Office 116			$\sim$
Insert Products		Close	



You can select and deselect products from the treeview before continuing to actual product insertion by clicking the Insert Products -button.

3. Insert products view is opened:

													×
Variant	Space	System	Airflow (l/s)	C. Power (W)	C. Supply System	C. Return System	H. Power (W)	H. Supply System	H. Return System	Height level (mm)	2D Symbol	Airflow A	rrow
RL-100-MBB-100-100- ~	Meeting Room 135	Supply 1 ~	144	0			0			3200	Select	Select	$\rightarrow$
RL-100-MBB-100-100- ~	Meeting Room 135	Supply 1 ~	144	0			0			3200	Select	Select	$\rightarrow$
RL-100-MBB-100-100- ~	WC 139	Supply 1 ~	144	0			0			3200	Select	Select	$\rightarrow$
RL-100-MBB-100-100- ~	WC 138	Supply 1 ~	144	0			0			3200	Select	Select	$\rightarrow$
Circum-12-125-A1-1.; ~	Office 119	Supply 1 ~	30	405.05690826860	Cooling supp ~	Cooling retu 👻	0			3200	Select	Select	
Circum-12-125-A1-1.1 ~	Office 128	Supply 1 ~	30	405.05690826860	Cooling supp ~	Cooling retu ~	0			3200	Select	Select	
Circum-12-125-A1-1.; ~	Office 127	Supply 1 ~	30	405.05690826860	Cooling supp ~	Cooling retu ~	0			3200	Select	Select	
Select Airflow Arrow for A	Select Defau	It Systems for All										Insert	Cancel
य य य य य य य य	Variant 100-468-100-100 ~ 100-468-100-100 ~ 100-468-100-100-100-100-100-100-100-100-100-10	Variant         Space           100-M88-100-100	Variant         Space         System           100-M68-100-100         Meeting Room 133         Supply 1         ×           100-M68-100-100         Meeting Room 135         Supply 1         ×           100-M68-100-100         WC 139         Supply 1         ×           100-M68-100-100         WC 138         Supply 1         ×           incum-12-125-A1-11         Office 128         Supply 1         ×           incum-12-125-A1-11         Office 127         Supply 1         ×           Select Ainflow Amow for AlL.         Select Default Systems for AlL.         Select Default Systems for AlL.	Variant         Space         System         Airflow (I/s)           100-M68-100-100 w         Meeting Room 135         Supply 1         144         144           .100-M68-100-100 w         Meeting Room 135         Supply 1         144         144           .100-M68-100-100 w         WC 139         Supply 1         144         144           .100-M68-100-100 w         WC 138         Supply 1         144         144           .100-M68-100-100 w         WC 138         Supply 1         144         104           .100-M68-100-100 w         WC 138         Supply 1         144         104           .100-M68-100-100 w         WC 138         Supply 1         144         104           .100-M68-100-100 w         WC 138         Supply 1         30         104           .101-12-12-25-41-11 w         Office 128         Supply 1         30         104           .110-12-12-25-41-11 w         Office 127         Supply 1         30         104           .58ect Airflow Amow for All.         Select Default Systems for All.         Select Default Systems for All.         104	Variant         Space         System         Airflow (M)         C. Power (W)           100-M88-100-100-         Meeting Room 135         Supply 1         144         0           100-M88-100-100-         Meeting Room 135         Supply 1         144         0           100-M88-100-100-         Meeting Room 135         Supply 1         144         0           100-M88-100-100-         WC 139         Supply 1         144         0           100-M88-100-100-         WC 139         Supply 1         144         0           100-M88-100-100-         WC 138         Supply 1         144         0           100-M88-100-100-         WC 138         Supply 1         144         0           100-M88-100-100-         WC 138         Supply 1         30         405.05690326668           incum-12-125-A1-12         Office 128         Supply 1         30         405.05690326668           incum-12-125-A1-12         Office 127         Supply 1         30         405.05690326668           Select Airflow Arrow for AlL         Select Default Systems for AlL         Select Default Systems for AlL	Variant         Space         System         Airflow (I/s)         C. Power (W)         C. Supply System           100-M88-100-100-         Meeting Boom 13         Supply 1         144         0         -           .100-M88-100-100-         Meeting Boom 13         Supply 1         144         0         -           .100-M88-100-100-         Meeting Boom 13         Supply 1         144         0         -           .100-M88-100-100-         WC 139         Supply 1         144         0         -         -           .100-M88-100-100-         WC 138         Supply 1         144         0         -         -           .100-M88-100-100-         WC 138         Supply 1         144         0         -         -           .100-M88-100-100-         WC 138         Supply 1         30         405:05990822666         Cooling suplicements           incum-12-125-A1-11         Office 128         Supply 1         30         405:05990822666         Cooling suplicements           incum-12-125-A1-11         Office 127         Supply 1         30         405:05990826666         Cooling suplicements           Select AirBow Amous for All.         Select Default Systems for All.         Select Default Systems for All.         Select Default Systems for All.	Variant         Space         System         Auflow (I/4)         C. Power (W)         C. Supply System         C. Return System           100-M88-100-100-         Meeting Room 133         Supply 1         144         0         •         •           .100-M88-100-100-         Meeting Room 135         Supply 1         144         0         •         •         •           .100-M88-100-100-         WC 139         Supply 1         144         0         •         •         •           .100-M88-100-100-         WC 139         Supply 1         144         0         •	Variant         Space         System         Airflow (V/s)         C Power (W)         C Supply System         C. Return System         H. Power (W)           100-M88-100-100 -         Meeting Room 135         Supply 1         144         0         -         0           100-M88-100-100 -         Meeting Room 135         Supply 1         144         0         -         0           100-M88-100-100 -         Meeting Room 135         Supply 1         144         0         -         0           100-M88-100-100 -         WC 139         Supply 1         144         0         -         0           100-M88-100-100 -         WC 138         Supply 1         144         0         -         0           100-M88-100-100 -         WC 138         Supply 1         144         0         -         0           100-M88-100-100 -         WC 138         Supply 1         100         405.0560020666         Cooling retu         0           incum-12-125-A1-12         Office 128         Supply 1         30         405.0560020666         Cooling retu         0           incum-12-125-A1-12         Office 127         Supply 1         30         405.0560020666         Cooling retu         0           Select Airflow Ammer for Al	Variant         Space         Syntem         Auflow (M)         C. Power (W)         C. Supply Syntem         C. Return Syntem         H. Power (W)         H. Supply Syntem           100-M88-100-100-         Meeting Room 135         Supply 1         144         0         •         0         •           100-M88-100-100-         Meeting Room 135         Supply 1         144         0         •         0         •         •         0         •         •         0         •         •         0         •         •         0         •	Variant         Space         System         Airflow (h)         C. Power (W)         C. Supply System         H. Power (W)         H. Supply System         H. Return System           100-0488-100-100-         Meeting Boom 135         Supply 1         144         0	Variant         Space         System         Airflow (Iv)         C. Power (W)         C. Supply System         H. Power (W)         H. Supply System         H. Return System         Height Keel (mm)           100-M88-100-100 ···         Meeting Room 113         Supply 1 ···         144         0         ···         0         ···         2000           100-M88-100-100 ···         Meeting Room 133         Supply 1 ···         144         0         ···         0         ···<	Variant         Space         Spatem         Alflow (M)         C. Power (W)         C. Supply System         H. Power (W)         H. H. Power (W)	Variant         Space         Spatem         Alrflow (/A)         C. Power (W)         C. Supply System         H. Power (W)         H. Supply System         H. Power (W)         Supply System         H. Power (W)         H. Supply System         H. P

From this view user can make required system selections for the products. Notice that Select Default Systems for All... -button can help if there is lot of products and you want to set same systems for most of them. Also Select 2D symbol for All... -button can be helpful if you want to use same 2D symbol for example for all supply devices.

4. Once all wanted selections have been made user proceeds by clicking the insert -button. Following progressbar is displayed. Notice that depending on number of different product families used, converting and inserting the products to the drawing can take significant amount of time.

R	Lindab LindQST Plugin for Revit	_	×
	Converting and inserting products		
	2/7		

Once the operation is completed, all product instances have been placed to the MEP spaces into position that was defined in the LindQST Indoor climate designer:





## 3.7 Open rooms

Open Room command allows user to select the MEP spaces from Revit drawing and export the room geometry to LindQST. User can add products to the rooms in LindQST Indoor climate desginer and take advantage of the room functionalities. Once the ventilation design for the rooms is ready, user can insert products to Revit project. Open rooms command do not necessarily require linking the active Revit project into LindQST project.

Follow these steps to use the Open rooms command:

- 1. Click Open Rooms -command from the plugin ribbon panel.
- 2. Select MEP spaces to be opened in LindQST Indoor climate designer:





3. LindQST Indoor climate designer is opened, and the selected Revit MEP space(s) are available:





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



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- 5. Add more products to room if needed:





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Uindab LindQST Plugin	for Revit 2023.3.2											- a
	✓ Import back to drawing Se	ttings Untit	ed project							Ó	Lindab	
	lindQST - Start Docur	mentation D	Add to project					×	ments et Q	Global	~ 0	
	lindQST / Waterborne Calculator		Please note that any room-related parameter used in the calculation will not be transferred to any existing room.									
	Product		Project		Untitled project		Exported 3	Spaces/Meeting Ro	oom 118			
	Function		Floor		Exported Spaces		oject					
	Туре		Room		Meeting Room 118							
	Water connection		Number of products		1			Indoor Climate	e Designer			
	Air connection		+ Add Syste						d Calculator		^	
	Connection type											
	Product length	L	Close this window to calculate new device or go to Indoor Climate Designer / System Sound Calculator									
	Distribution profile									W		
	Static nozzle pressure loss	$\Delta p_{stat}$								Vs		
	Primary airflow rate	qa						Close		w		
	Number of products		1			Capacity air	Pa	324		w		
	Description					Total Capacity	Pt	675		w		
						Pressure loss water in product	∆₽ <sub>n</sub> ₽			kPa		
	Control valve		No	~ Q		Sound power level	L <sub>soli</sub>	24		dB(A)		
	Flexible hoses		No	~ Q		Sound pressure level	LpA	20		dB(A)		
	At - Calculate water flow fro	om given delta '	T			Water capacity / active length	P <sub>s</sub> /L <sub>act</sub>	439		W/m		
	O q <sub>w</sub> - Calculate delta T from g	given water flow				Mixed air temperature	tan			°C		
	O q <sub>amom</sub> - Calculate delta T fro	m nominal wate	er flow			Total and the						
	Room attenuation	Dr	4	dB		Total results					Ť	
	Capacity pand	D.	* Cooling			Additional results					~	
	Capacity met	-		17								
	Room ar temperature	l <sub>r</sub>	25	*C								





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6. Once products are in place and everything is ready, proceed by clicking the Import back to drawing -button in order to send added products to Revit:



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

Eindab LindQST Plugin for Revit	Insert Products														×
Product	Variant	Space	Operation	System	Airflow (Vs)	C. Power (W)	C. Supply System	C. Return System	H. Power (W)	H. Supply System	H. Return System	Height level (mm)	2D Symbol	Airflow Arro	w
RS16-V-S-0-315+MBB-200-315-S	RS16-V-S-0-315+M88-i ~	Meeting Room 118	V Insert	Supply 1 ~	95	0			0			3200	Select	Select	+-\$
A Circum-12-125-A1-1.2-60-C	A Circum-12-125-A1-12 ×	Meeting Room 118	Insert	Supply 1 v	30	405.05690826860	Cooling supp *	Cooling retu 👻	0			3200	Select	Select	
<															>
Select 2D Symbol for All	Select Airflow Arrow for All.	. Select Default	Systems for All										Inse	t Cano	el

Select ventilation and cooling systems (and heating systems if needed) for the products. Also 2D symbol and airflow arrow can be selected for airborne products.

Once selections have been made click Insert -button.





8. Products are now placed to the MEP space(s) to locations defined in LindQST.

The command is now complited.

9. User can re-open the space(s) in LindQST any time he/she wants with Open rooms command. When the room is selected again, also the existing products in the room are recognized and transferred to LindQST.



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 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 Revit by clicking the Import back to drawing -button.