



Lindab Revit plugin for DIMsilencer and LindQST

Lindab supports its Indoor Climate Solution selection tools LindQST and DIMsilencer integrated on Revit. The benefits are that you can now use Lindab's advanced calculation and presentation methods and transfer the result into product families for Revit.

You can use the product families also directly inside a MagiCAD system.

Installation of Lindab Revit plugin

Installation of Lindab Revit plugin

Installation requirements

To be able to use the connection between the Lindab Software and Revit you need to have at least AutoDesk Revit installed.

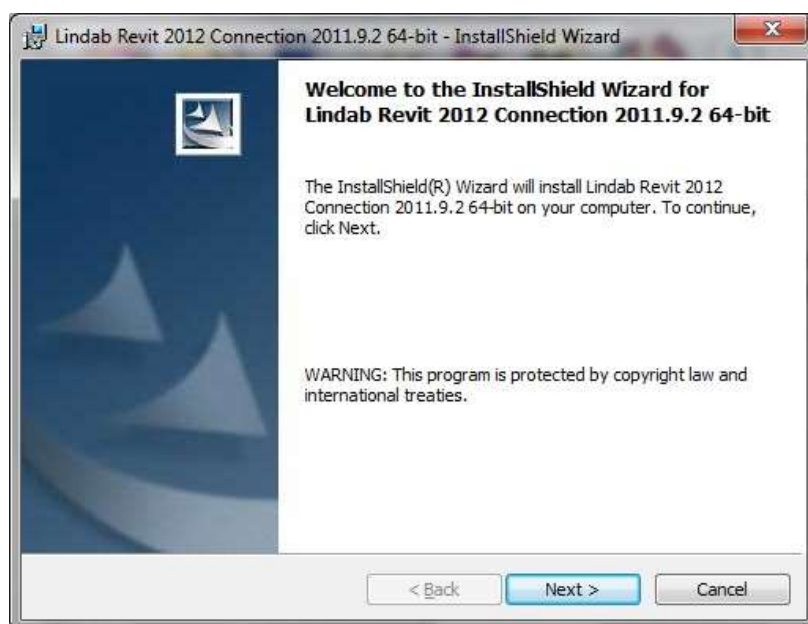
The plugin can be downloaded from:

<http://itsolution.lindab.com/downloads/revitplugin/32/latest.html>

<http://itsolution.lindab.com/downloads/revitplugin/64/latest.html>

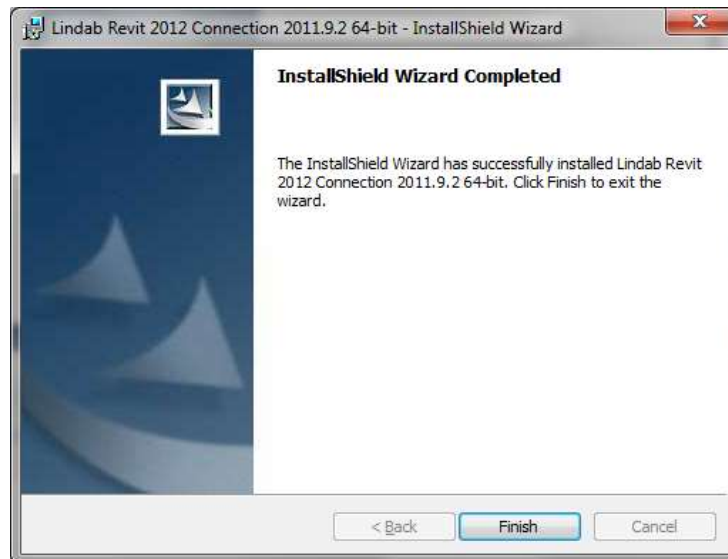
Please select the installation link for 32- or 64-bit version.

NOTE: You need to have local administrator rights to install the plugin on your computer.





The installation Wizard will guide you through the installation; we recommend selecting the suggested installation paths.



Now you can install the Lindab software. Please note that you must have the version numbers below or newer to use the Plug-in.

DIMsilencer: <http://itsolution.lindab.com/downloads/dimsilencer/latest/install.exe>





Using the connections



Start a project on Revit and select the “Add-Ins” tab.

 DIMsilencer Connection to DIMsilencer

 Lindab Quick Selection Tool Connection to LindQST (Webbased Comfort Selection Tool)

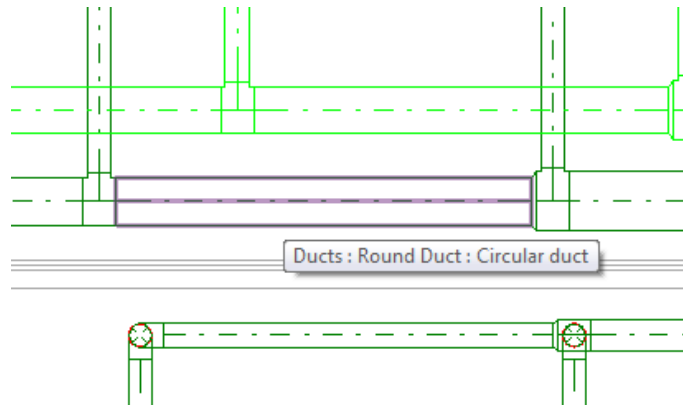


DIMSilencer

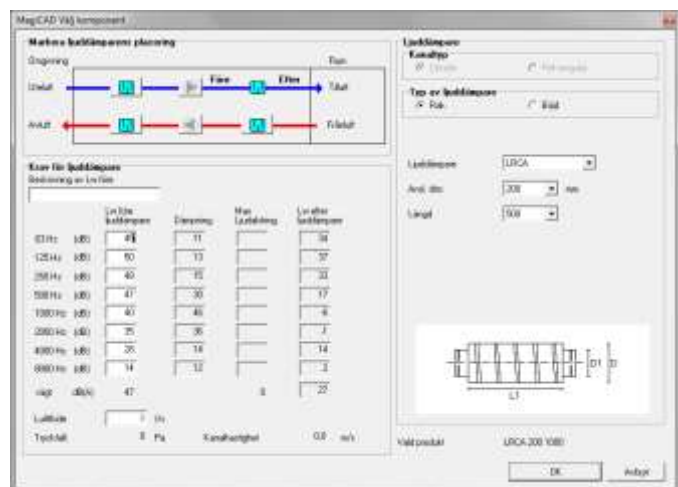
In DIMSilencer you can select Lindab silencers. DIMSilencer is an advanced software to state requirements, calculate results and compare Lindab silencers with each other are of great benefit to detect and solve sound problems in your duct design. Especially the possibility to use parametrical, will say non-standard sizes, for rectangular silencers and transfer them to Revit is unique.

Push the DIMSilencer button and select the circular or rectangular duct for which you want to calculate and insert a silencer.

DIMSilencer will now open and you can enter the sound values before the silencer and the designated result after the silencer.

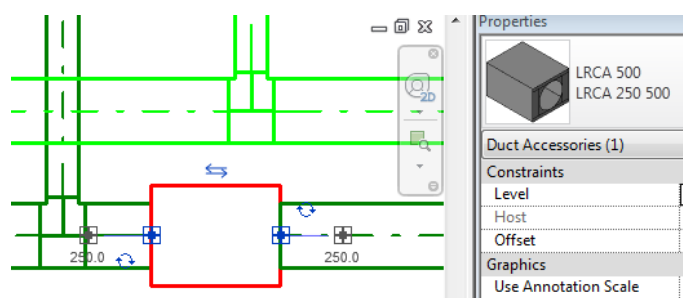


If you ran flow summation in MagiCAD before, the airflow will be transferred as well to calculate the sound generation; otherwise you can enter these values also manually.



When you selected a silencer you press the "OK"-button. DIMSilencer will then close and MagiCAD dialog asks you to state a User Code.

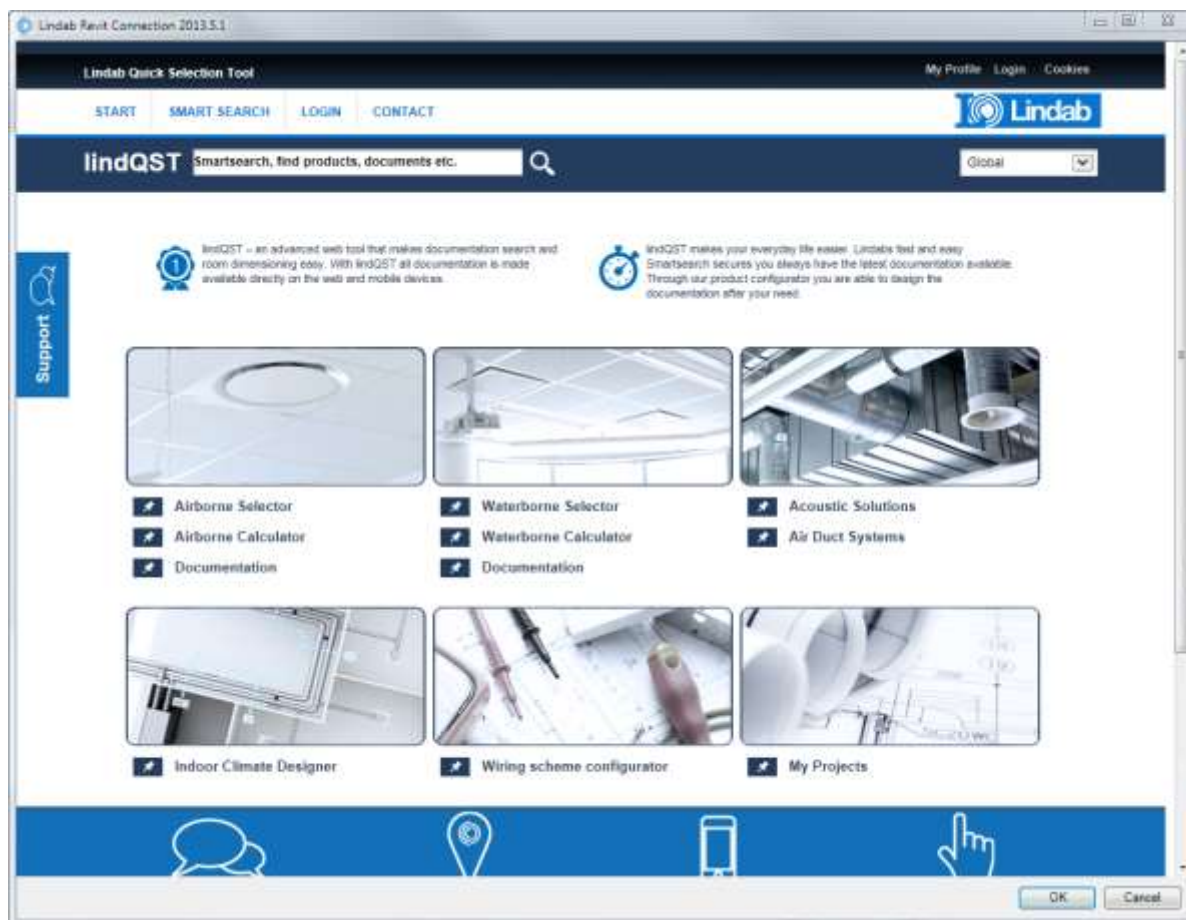
In the last step you click on the duct you want to insert your silencer into. You can even select larger or smaller ducts than the size of the selected silencer. Revit will in this case insert reductions automatically.





LindQST

LindQST is a web based selection tool for Lindabs Indoor Climate Solution product range including documentation.



Push the LindQST button in Revit to open a web browser and start LindQST

NOTE: You must start LindQST in Revit to be able to use the transfer function back to Revit.

Airborn Selector

Example for a diffuser selection:



- Airborne Selector
- Airborne Calculator



Use the Airborn Selector if you are not 100% sure what kind of device you have to use for your specific requirements.

Use the [Airborn Calculator](#) if you already know the diffuser type you like to use in your project.

1. Select a product category or a room type to find suitable products

Product category

1

Roomtype All rooms ▼

<input checked="" type="radio"/> Ceiling diffusers	<input type="radio"/> Visible diffusers	<input type="radio"/> Industrial diffusers	<input type="radio"/> Plenum boxes
<input type="radio"/> Wall diffusers	<input type="radio"/> Wall grilles	<input type="radio"/> Nozzles	<input type="radio"/> Ventiduct
<input type="radio"/> Grilles	<input type="radio"/> Displacement diffusers	<input type="radio"/> Theatre diffusers	<input type="radio"/> Lowimpulse diffusers
<input type="radio"/> VAV Pascal	<input type="radio"/> VAV diffusers	<input type="radio"/> VAV dampers	<input type="radio"/> VAV accessories
<input type="radio"/> Air flow regulators	<input type="radio"/> Air valves	<input type="radio"/> Fresh air valves	<input type="radio"/> Overflow units
<input type="radio"/> Clean room diffusers			

2. Select a product or define the search parameters for the diffuser you want to select.

Product selection

2

Product line	All ▼	Plenum box	Yes ▼
Product name	All ▼ 🔍	Design	All ▼
Connection size	All ▼	Geometry	All ▼
Function	Supply ▼	Spread pattern	4-way / Rotation ▼
		Max. product height	<input style="width: 80px;" type="text"/>

3. Enter the technical requirements, but at least airflow and sound.

Technical requirements

3

Air flow unit	<input checked="" type="radio"/> l/s <input type="radio"/> m ³ /h	Total pressure loss	Δp: <input style="width: 60px;" type="text"/> Pa
Air flow	q _v * <input style="width: 80px;" type="text"/> 25	Max. throw	l _{0.2} <input style="width: 60px;" type="text"/> m
Sound power	L _{WA} 25 ▼ to 35 ▼ dB(A)		
Adjustment pressure	Δp <input style="width: 60px;" type="text"/> Pa		

* = these criteria must be completed Note: All technical data are for 1 diffuser Note: L_{PS} = L_{WA} + 4 dB

4. Press Update Search
5. Press Show Results ... all suitable devices are listed in a table.




Compare Number of products selected: 3

Article name	Spread pattern	l_{s3} [m]	L_{w3} [dB(A)]	Δp_3 [Pa]
CRL-100+MBB-100-100-S	4-way	1.7	29	34
LCA-100+MBB-100-100-S	4-way	2.2	27	32
PCA-100+MBB-100-100-S	4-way	1.1	28	31
RSS-H-S-2-12S	Rotation	1.0	30	17
RCG-160+MBB-100-160-S	Rotation	1.1	27	33
RS14-H-S-2-12S	Rotation	1.0	26	14

6. Select up to 3 devices for a comparison and press compare or select directly by using a click on the product name

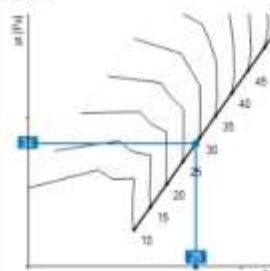
CRL-100+MBB-100-100-S
4-way



Technical data

Air flow	q_v 25	l/s
Balancing pressure	Δp_b	P_a
Total pressure loss	Δp_t 34	P_a
Sound power	L_{w3} 29	dB(A)
Throw	l_{s3} 1.7	m
Product height	100	mm

Diagram




Description

CRL is a circular diffuser with an unperforated adjustable face plate. CRL can be used both for supply and exhaust air. The diffuser can be zeroed between horizontal and vertical supply air, and is therefore suitable for the horizontal supply of cooled air or vertical supply of heated air. Installing a CRL diffuser in a plenum box type MBB can help to achieve a stable airflow to the diffuser as well as realize the potential for individual adjustment. It is also possible to install a damper directly in the diffuser to enable adjustment without a box.

- Suitable for both supply and exhaust air
- Suitable for horizontal or vertical supply air patterns
- A damper can be installed on the diffuser to achieve adjustment

Select

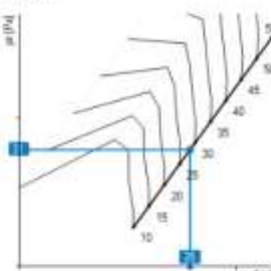
PCA-100+MBB-100-100-S
4-way



Technical data

Air flow	q_v 25	l/s
Balancing pressure	Δp_b	P_a
Total pressure loss	Δp_t 31	P_a
Sound power	L_{w3} 28	dB(A)
Throw	l_{s3} 1.1	m
Product height	100	mm

Diagram




Description

PCA is a circular diffuser with perforated face plate. PCA can be used for both supply and exhaust air. PCA is suitable for horizontal supply of cooled air and can be equipped with accessories of various types in order to achieve optimal function. Installing a PCA diffuser in a plenum box type MBB can help to achieve a stable airflow to the diffuser as well as realize the potential for individual adjustment.

- Suitable for both supply and exhaust air
- Suitable for horizontal supply of cooled air
- Option of 1, 2 and 3-way supply air

Select

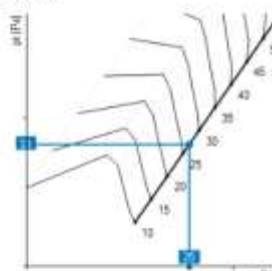
RCG-160+MBB-100-160-S
Rotation



Technical data

Air flow	q_v 25	l/s
Balancing pressure	Δp_b	P_a
Total pressure loss	Δp_t 33	P_a
Sound power	L_{w3} 27	dB(A)
Throw	l_{s3} 1.1	m
Product height	160	mm

Diagram



Description

RCG is a circular swirl diffuser with fixed bars. RCG is suitable for the horizontal supply of very cool air. The swirl pattern ensures optimum distribution and high induction, as well as a large dynamic range. Installing a RCG diffuser in a plenum box type MBB can help to achieve a stable flow of air to the diffuser as well as realize the potential for individual adjustment. RCG can also be installed directly in the duct using the transition bracket GRZ1, which is available as an accessory.

- Large dynamic range
- High induction
- Suitable for cooling at very low temperatures

Select

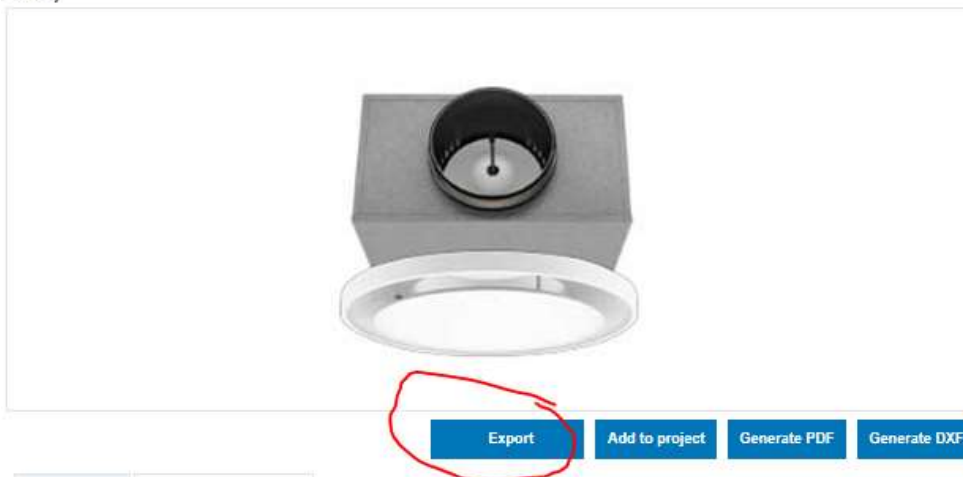
7. Select your choice and view the product on the product page



8. Press Export to export the product data to the Revit Plug-In

CRL-100+MBB-100-100-S

4-way



Description Related documents

CRL is a circular diffuser with an unperforated adjustable face plate. CRL can be used both for supply and exhaust air. The diffuser can be switched between horizontal and vertical supply air, and is therefore suitable for the horizontal supply of cooled air or vertical supply of heated air. Installing a CRL diffuser in a plenum box type MBB can help to achieve a stable airflow to the diffuser as well as realise the potential for individual adjustment. It is also possible to install a damper directly in the diffuser to enable adjustment without a box.

- Suitable for both supply and exhaust air
- Suitable for horizontal or vertical supply air patterns
- A damper can be installed on the diffuser to achieve adjustment

Technical data

Air flow unit: l/s m³/h

Air flow: m³/h

Adjustment pressure: Pa

Total pressure loss: Pa

Sound power: dB(A)

Throw: m

* = these criterias must be completed
 Note: All technical datas are for 1 diffuser

Pressure and sound power diagram


The diagram shows pressure loss curves for air flow rates from 10 to 55 m³/h. A horizontal line at 34 Pa intersects the 25 m³/h curve. A vertical line from this point drops to 25 m³/h on the x-axis. Below the x-axis, sound power level (Ksk) values are provided for various frequencies.

Hz	63	125	250	500	1K	2K	4K	8K
K _{sk}	14	8	5	-7	-8	-14	-17	-22
L _{sk}	20	17	7	20	19	20	20	22

The following window confirms the data transfer.

9. Press OK to import the data into your Revit project





START SMART SEARCH LOGIN CONTACT 


lindQST Smartsearch, find products, documents etc.


MagiCAD Export



CRL-100 MB8-100-100-S has been added to export list. Press 'Export' in the bottom left corner of the Browser Pop-Up to finish the export or select another product.


 **Support**
Here you can find guidelines, FAQ and video clip about the use of lindQST. And contact to your local lindQST supporter.

 **Lindab departments**
Here you can find your local Lindab department. Get sales support or contact to hear even about our assortment.


 **Lindab IT solutions**
Here you can find all about our wide range of innovative apps and online solutions. We simplify your daily work.

 **Websites**
Buy Lindab products 24 hour a day. Here you find a wide range of our standard products – easy and simple.

 Phone: +45 7323 2525
 E-Mail: support.comfort@lindab.com

 Lindab AB
Järnväggsgatan 41
SE-269 62 Gevnie
Båstad, Sweden

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 Eurovent v3.8.47



Airborn Calculator

If you already know what kind of diffuser you want to export to your project activate the Airborn Calculator on the front page.

1. Select your product type and fill in all required data.
2. Press Export to export the product data to the Revit Plug-In
3. Press OK to import the data into your Revit project



- Airborne Selector
- Airborne Calculator

Technical data

Product name: RCW

Connection size: 400

Function: Supply

Plenum box: No

Spread pattern: Rotation

Article name: RCW-0-400-A

Air flow unit: m³/s

Air flow: 900

Total pressure loss: 20 Pa

Sound power: 30 dB(A)

Thrust: 3.7 m

* these criteria must be completed
Note: All technical data are for 1 diffuser

Pressure and sound power diagram

Pa	10	15	20	25	30	35	40	45	50	55
Pa	10	15	20	25	30	35	40	45	50	55
m³/s	0	100	200	300	400	500	600	700	800	

RCW-0-400-A

Export
Add to project
Generate PDF
Generate DXF

Description | Related documents

RCW is a rotation diffuser particularly suitable for rooms with a high ceiling. The diffuser is equipped with adjustable blades, so the supply air pattern can be changed from vertical to horizontal. The blade settings can be adjusted manually, or the function can be automated using various types of motor. RCW with manual blade adjustment is supplied as standard with a blade setting of 30°. The motorized models are supplied as standard with a blade setting from 30° to 75°. In the motorized versions, RCW can be supplied with an electric on/off motor, a modulating motor or a thermal actuator, where the supply air pattern is changed in step with the supply air temperature.

- Suitable for both cooling and heating
- Horizontal and vertical dispersal pattern
- High induction
- Can be supplied with an electric motor
- Can be supplied with a thermal actuator

OK
Cancel



Waterborne Selector

Use the Waterborn Selector if you are not 100% sure what kind of device you have to use for your specific requirements.

Use the [Waterborn Calculator](#) if you already know the diffuser type you like to use in your project.

1. Select a Product category or a room type to find suitable products.

Limit the product category list by selecting your requirements



- Waterborne Selector
- Waterborne Calculator

1

Product category	
Roomtype	All rooms <input type="button" value="v"/>
Placement	All <input type="button" value="v"/>
Product category	Supply air beams <input type="button" value="v"/>
Product name	All <input type="button" value="v"/> <input type="button" value="🔍"/>
Function	Cooling <input type="button" value="v"/>
Spread pattern	All <input type="button" value="v"/>

2. Select a product or define the search parameters for the beam you want to select.

2

Product selection Cooling

Room air temperature	t _r 25.0 °C	<input type="radio"/> Δt _{ra} <input type="radio"/> q _w <input type="radio"/> q _w (nom)
Temperature gradient in room	t _g 0.0 K	Temperature difference water circuit Δt _w 3.0 K
Primary air temperature	t _{pa} 18.0 °C	Water flow rate q _w 0 l/s
Water inlet temperature	t _{wi} 14.0 °C	

3. Enter the technical requirements, but at least airflow, pressure, cooling / heating capacity and sound.

3

Technical requirements



Air flow unit	<input type="radio"/> l/s <input checked="" type="radio"/> m ³ /h	<input type="checkbox"/> Advanced search
Primary air flow rate	q _a 15 m ³ /h	<input checked="" type="checkbox"/> * these criterias must be completed
Static nozzle pressure loss	Δp _{st} 60 Pa	
Required capacity/cooling*	P <input type="text"/> W	
Max. sound power*	L _{wk} 35 dB(A)	
Max. allowed pressure drop loss in water circuit/cooling	Δp _w 12.0 kPa	

SEARCH RESULTS: 42 Update search



NOTE: the more parameter you define the quicker and more selective the calculations will work.

- LindQST calculates all supply air beams which fulfil the requirements. Press "Update Search" and "Show Results" to get a list of calculated chilled beams. In the selection you can even compare up to three products for detailed information or select directly your choice.

<input checked="" type="checkbox"/>		Premax (type)-15-125	1	1.2	20	749	0.041	0.7
<input type="checkbox"/>		Premum (type)-12-125	1	1.2	20	704	0.037	1.6
<input checked="" type="checkbox"/>		Professor (type)-15-100	1	1.5	31	678	0.035	0.8
<input checked="" type="checkbox"/>		Professor Plus (type)-15-100	1	1.8	31	739	0.040	0.7


[Compare](#) Number of products selected: 0

- Select up to 3 devices for a comparison and press compare or select directly by using a click on the product name



Premax I-60-15-125-A1-1.2-60-28

2-way



Technical data

Primary air flow rate	q_a	360	m ³ /h
Temperature difference	Δt_{ra}	3	K
Required capacity ^{cooling*}	P	600	W

Result

Number of beams required		1	
Temp. difference between	Δt_{rw}	9.50	K
Nominal water capacity	P_{nom}	645	W
Water flow rate	q_w	0.041	l/s
Corrected water capacity	P_w	516	W
Capacity air	P_a	234	W
Total capacity / beam	P	749	W
Total Capacity	P	749	W
Pipe pressure drop loss	Δp_{pw}	0.7	kPa
Sound power level	L_{pA}		dB(A)


factory p...
AirGuide system on... adjustable...
control. The Premax chilled beam is fully...
with the Lindab eHybrid solution and together b...
provide an optimal energy efficient solution.

- Powerful – exceptional cooling performance
- Flexibility – adapt to the individual workspace
- Control – innovations eliminating draughts

[Select](#)

Professor I-45-15-100-A1-1.5-60-28

2-way



Technical data

Primary air flow rate	q_a	360	m ³ /h
Temperature difference	Δt_{ra}	3	K
Required capacity ^{cooling*}	P	600	W

Result


Number of beams required		1	
Temp. difference between	Δt_{rw}	9.50	K
Nominal water capacity	P_{nom}	453	W
Water flow rate	q_w	0.035	l/s
Corrected water capacity	P_w	444	W
Capacity air	P_a	234	W
Total capacity / beam	P	678	W
Total Capacity	P	678	W
Pipe pressure drop loss	Δp_{pw}	0.8	kPa
Sound power level	L_{pA}		dB(A)

- Low building height – only 120mm
- Fan-shaped distribution pattern
- High hygiene – easy to clean
- Adaptable with lighting, exhaust etc.
- Eurovent certified

[Select](#)

Professor Plus I-60-15-100-A1-1.8-60-28

2-way



Technical data

Primary air flow rate	q_a	360	m ³ /h
Temperature difference	Δt_{ra}	3	K
Required capacity ^{cooling*}	P	600	W

Result

Number of beams required		1	
Temp. difference between	Δt_{rw}	9.50	K
Nominal water capacity	P_{nom}	637	W
Water flow rate	q_w	0.040	l/s
Corrected water capacity	P_w	505	W
Capacity air	P_a	234	W
Total capacity / beam	P	739	W
Total Capacity	P	739	W
Pipe pressure drop loss	Δp_{pw}	0.7	kPa
Sound power level	L_{pA}		dB(A)

- High cooling capacity
- Low building height – only 120mm
- Fan-shaped distribution pattern
- High hygiene – easy to clean
- Eurovent certified

[Select](#)



q_w - Calculate delta T from given water flow
 $q_w (nom)$ - Calculate delta T from nominal water flow

Temperature difference water circuit	Δt_w	3.0	K
Static nozzle pressure loss	Δp_{stat}	60	Pa
Air flow unit		<input type="radio"/> l/s <input checked="" type="radio"/> m ³ /h	
Primary air flow rate	q_a	100	m ³ /h
Primary air flow rate (total)	q_a	100	m ³ /h

Premax I-60-15-125-A1-1.2-60-28



- Export
- Add to project
- Generate PDF
- Generate DXF

Result

Number of beams required		1	
Temp. difference between room air temp. and mean water temp.	Δt_w	9.50	K
Nominal water capacity	P_{nom}	645	W
Water flow rate	q_w	0.041	l/s
Corrected water capacity	P_w	516	W
Capacity air	P_a	234	W
Total capacity / beam	P	749	W

6. Press Export to export the product data to the Revit Plug-In



7. A successful data transfer will be confirmed by a pop up window "Device export OK"
8. Press OK to import the data into your Revit project

Waterborn Calculator

Use the [Waterborn Selector](#) if you are not 100% sure what kind of device you have to use for your specific requirements.

Use the Waterborn Calculator if you already know the diffuser type you like to use in your project.

1. Select your product type and fill in all required data.
2. Press Export to export the product data to the Revit Plug-In
3. Press OK to import the data into your Revit project

Δt_w - Calculate water flow from given delta T
 q_w - Calculate delta T from given water flow
 q_w (nom) - Calculate delta T from nominal water flow

Temperature difference water circuit: Δt_w 3.0 K
 Static nozzle pressure loss: Δp_{stat} 80 Pa
 Air flow unit: l/s m^3/h
 Primary air flow rate: q_c 35 m^3/h

Calculate

Premax I-60-12-125-A1-2.4-60-10

Export **Add to project** **Generate PDF** **Generate DXF**

Result

Temp. difference between room air temp. and mean water temp.	Δt_w	9.50	K
Nominal water capacity	P_{nom}	570	W
Water flow rate	q_w	0.047	l/s
Corrected water capacity	P_c	592	W
Capacity air	P_a	82	W
Total Capacity	P	674	W
Static pressure drop loss	Δp	10.1	Pa

OK **Cancel**



Import to Revit

After confirming the export with OK (see previous chapters) the selected product will be tranfered into a Revit family of your current Revit version.

You can place the device with the left mouse click.

