



# **MagiCAD Create**

Release Notes

# MagiCAD Create 2020.10 – Release notes

## New features

### New pump types

New pump types have been added with different curves. The new types are called “Stepless” and “Stepped”. The old pumps are now known as “Fixed Pumps”. The type can be selected from product basic data:

#### Basic data

Code

L\_-32 ...-100 VS - fixed (old and new)

Description (English)

INLINE-pumps with integrated VS-frequency converter,

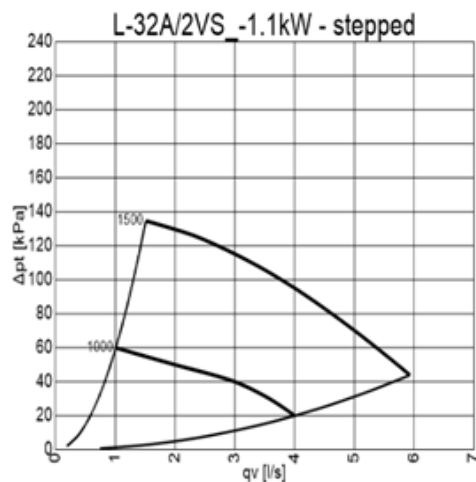
#### Pump type

☒ Fixed

☐ Stepless

☐ Stepped

An example of stepped pump curve. At least two points per rpm and at least two different rpms are needed:



#### Diagram limits

min qv 0.01 l/s

min Δpt 0.1 kPa

max qv 7 l/s

max Δpt 225 kPa

qv [l/s]	Δpt [kPa]	Rpm
1	60	1000
2	50	1000
3	40	1000
4	20	1000
1	140	1500
1.3	136.9	1500
2.3	126.2	1500
3.2	111.6	1500
4	95.1	1500
5	70.2	1500
6	42	1500

Add

Delete

Clear

#### Operational area limits

min qv 1 l/s

min Δpt 59 kPa

max qv 4 l/s

max Δpt 20 kPa

## Pressure independent radiator valve

New type of radiator valve has been added. Pressure independent radiator valve allows creation of radiator valves with similar data as the pressure independent zone valve. The type can be selected from product basic data:

### Basic data

Code


PIRVP

Description (English)

Pressure independent radiator valve product

### Valve type

- ☐ Normal radiator valve
- ☒ Pressure independent radiator valve
- ☐ Interpolation allowed

 Advanced

## Fixes and improvements




- Drainage pipe segment UI fixes
- Import/export fixes
- Various smaller fixes

# MagiCAD Create 2020.5 – Release notes

## New features


### Gas valve

Gas valve has been added to MagiCAD Create.

Ventilation (55) >	Components (19) >	 Gas component (2)
Piping (47) >	Fire suppression (1) >	 Gas device (3)
Electrical (3) >	Gas devices / components (5) >	 Gas valve (0)
Tele, Data, and Building Automation (1) >	Radiators (1) >	
	Pump (0) >	
	Climate control devices (5) >	
	Plumbing terminals / components (4) >	
	Other devices (1) >	
	Substations (1) >	
	Mixing units (1) >	
	Pipe series and fittings (9) >	

### Back box

Back box has been added to MagiCAD Create.

Ventilation (55) >	Electrical (3) >	 Back box (0)
Piping (47) >	Cable Tray Series and Fittings (0) >	
Electrical (3) >	Conduit Series and Fittings (0) >	
Tele, Data, and Building Automation (1) >	Other cable route products (0) >	

### Custom values for sprinkler nominal release temperature

Sprinkler nominal release temperature can now be set with either the old preset values or completely custom values.

3D Technical data (optional)

Technical data

Nominal release temperature	<input type="text" value="99"/>	°C Use custom value <input checked="" type="checkbox"/>
Response class	<input type="text" value="QR"/>	
k-factor	<input type="text" value="80"/>	

Clear

### Fixes and improvements

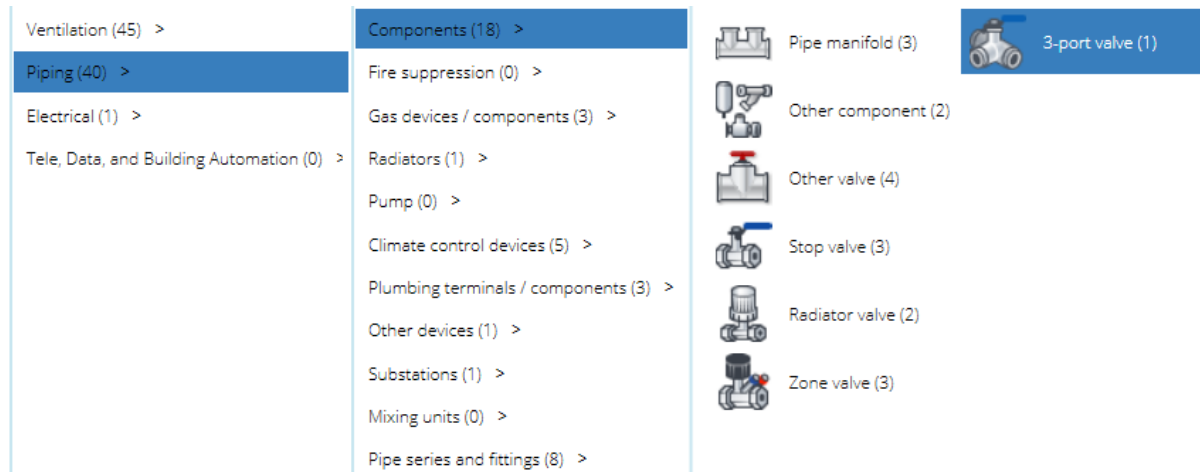
- Added support for new types of substations
- Shape attribute should now be updated correctly with drainage devices
- Connection port sizes attribute should no longer be created when not needed
- Fixed a problem that caused Lp10(A) calculations to give wrong values with small octave band values.
- Various smaller fixes

# MagiCAD Create 2020.2 – Release notes

## New features

### 3-Port Valve

3-port valve has been added to MagiCAD Create.



### New warning and validation for electrical products

Voltage now shows a warning if it is not set. Saving is still possible.

Active power  W

Power supply

Phase ☐ 1~ ☐ 2~ ☒ 3~

Voltage  V 

cos  $\Phi$

If active power is set, then voltage must be also set. In this case saving is not possible until voltage is set and is not 0.

Active power  W

Power supply

Phase ☐ 1~ ☐ 2~ ☒ 3~

Voltage

cos  $\Phi$

Value cannot be 0.

## Fixes and improvements

- Export/import should now handle electrical connectors correctly for fancoils.
- Unticking the “variants share the same data” check box on some products caused pressure and sound data rows to double. This has now been fixed.
- Fixed ordering of variant list in Single Product Mode.
- Fixed problem with Chinese characters sometimes not appearing correctly.
- Drainage components with 90 degree angle should now set correct behaviour attribute values.

## MagiCAD Create 2019.12 – Release notes

### New features

- Added new inputs for pipe series:
  - Thermal conductivity
  - Flexible pipe

#### Pipe sizes

Size	Din	Dout

Add
Delete
Clear

Material code

Roughness for piping

Roughness for fresh water

Hazen-Williams factor

Thermal conductivity  W/mK

Flexible pipe ☐

+ Data for flexible sprinkler pipes

### Fixes and improvements

- Fixed a problem that caused copying variants of certain product classes to crash the program.
- Fixed a problem that caused the program to crash when editing filter.
- Connection ID for qpdElectConnDimData attribute is now correctly updated.
- The number of variants shown on product card is now automatically updated when creating, deleting or copying variants.
- Several export/import fixes and improvements
- Negative values are no longer accepted in the count of vanes.



## MagiCAD Create 2019.9 – Release notes

### New features

Single Product Mode now supports third party RFAs.

### New product classes

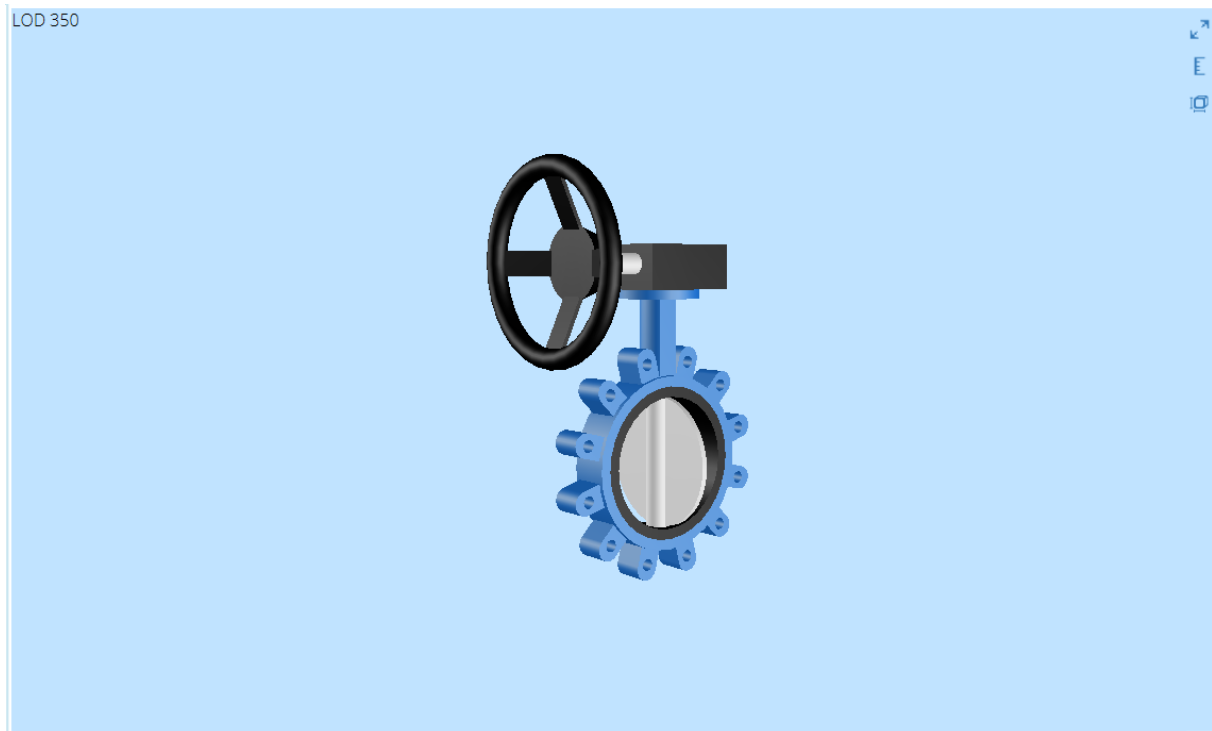
Pipe tap and drainage N-branch have been added.

# MagiCAD Create 2019.5 – Release notes

## New features

### Level of Detail (LOD) support

MagiCAD Create now support different detail modes for models. The program will show the highest available detail mode. Current detail mode is shown in the upper left corner of the the model.



### Constant Pressure Valve

New subtype of zone valve, constant pressure valve has been added:

Product

ConstantPressureValve

MagiCAD for Revit 2020 ->

MagiCAD for AutoCAD 2020 ->

## Basic data


Code

ConstantPressureValve

Description (English)

## Valve type

- ☐ Balancing valve
- ☐ Automatic balancing valve
- ☒ Constant pressure valve
- ☐ Pressure independent valve
- ☐ Interpolation allowed

 Advanced

## Inlet pressure

Max inlet pressure  kPa

## Outlet pressure

Min outlet pressure  kPa

Max outlet pressure  kPa

Factory pressure (default value)  kPa

## Flow

Min flow  l/s

Max flow  l/s

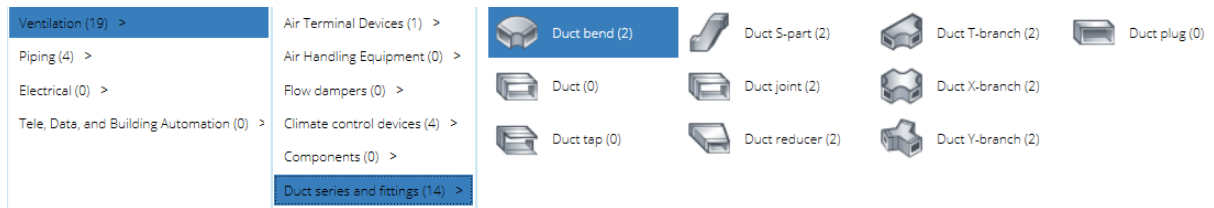
## Pressure limits

Min pressure difference (between inlet/outlet)  kPa

Max pressure ratio

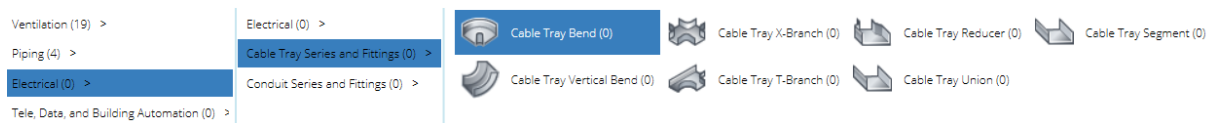
## Ducts Series and Fittings

Ducts series and fittings have been added:



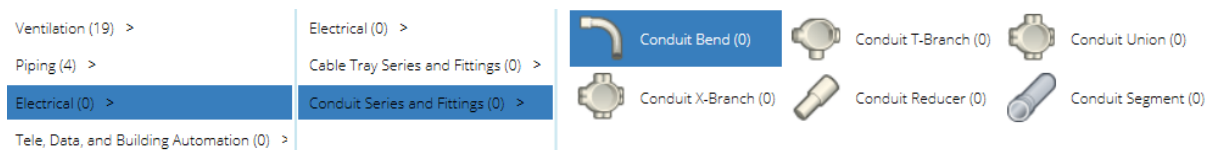
## Cable Tray Series and Fittings

Cable tray series and fittings have been added:



## Conduit Series and Fittings

Conduit series and fittings have been added:



## Single Product Mode

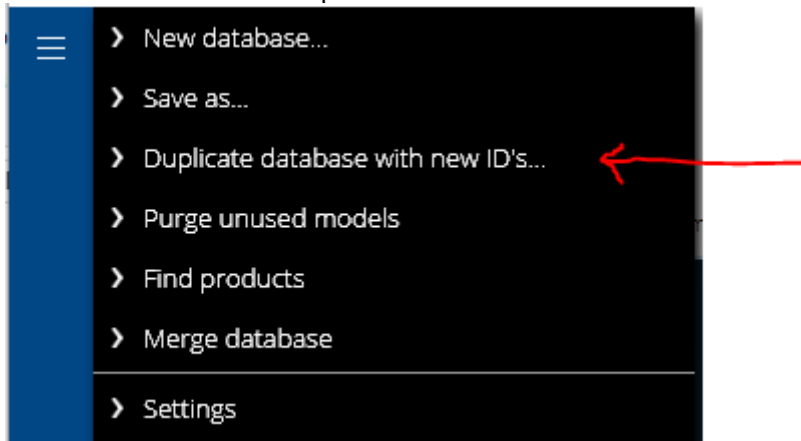
MagiCAD Create can now be launched from MagiCAD to edit single products.

# MagiCAD Create 2019.3 – Release notes

## New features

### Duplicate database with new new ID values

The whole database can be copied so that new ID values are created for every product and variant. The Database duplication can be started from the main menu:



### Zeta values have been added to Pipe fittings







Technical data

#### Equivalent lengths

DN1 [mm]	DN2 [mm]	Leqv branch [m]	Leqv run [m]
10	5	30	10

Add
Delete
Clear

#### Zeta values

DN (r)						
10	4	5	4.5	5.6	5.5	5.2

Add
Delete
Clear

## The 'Export products to spreadsheet' feature extended

Local product codes and Variant descriptions can be exported now:

**Export to spreadsheet**

**Product data**

- ☒ Basic
- ☒ Descriptions
- ☒ Local product codes
  - ☐ China
  - ☐ Croatia
  - ☐ Czech Republic
  - ☐ Denmark
  - ☐ Estonia
  - ☒ Finland
  - ☒ France
  - ☒ Germany
  - ☒ Great Britain
  - ☐ Hungary
  - ☐ Iceland
  - ☐ Italy
  - ☐ Japan
- ☒ Web sites

**Variant/Technical data**

- ☒ Basic
- ☒ Descriptions
  - ☐ Arabic
  - ☐ Bosnian
  - ☐ Bulgarian
  - ☐ Chinese
  - ☐ Croatian
  - ☐ Czech
  - ☒ Danish
  - ☒ Dutch
  - ☒ English
  - ☐ English(US)
  - ☐ Estonian
  - ☐ Finnish
  - ☐ Flemish
- ☒ Diagram limits

**Export** **Cancel**

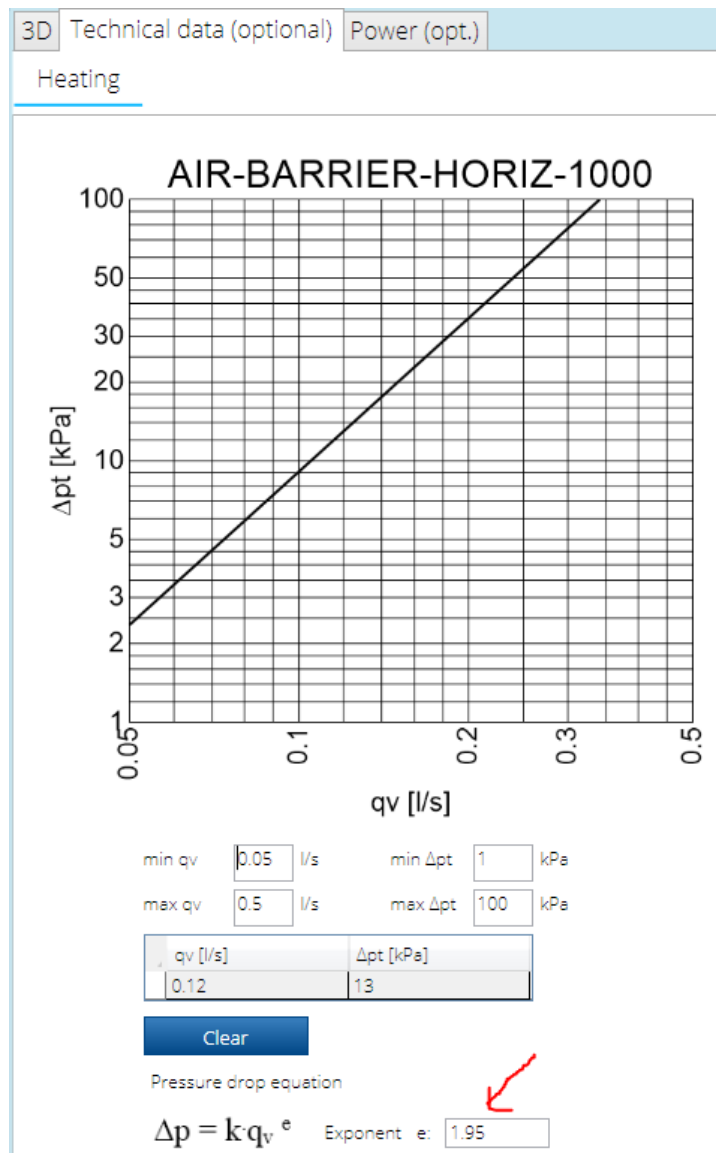
AL	AM	AN	AO
Local product codes			
Finland	France	Germany	Great Britain

AQ	AR	AS	AT	AU	AV	AW
Product code						
Short product description. Max. 60 characters.						
Danish						
Dutch						
English (mandatory)						
circ-exh-grille-250	D=2					

IP-Class has been added to the basic export data in Electrical products:

C	D	E	F	G	H	I	J	K	L
Product data					Variant/Technical data				
3D geometry	Restricted to countries		IP Class		Product code	Dimensions and parameters	Weight	Manufacturer article number	IP Class
MAGIE_INTER-COMB-		Change	IP67		125A Switched-Interlocked	L=180;W=134;H=510;			

The exponent value for the pressure drop equation has been added also to the **Fan Coil Unit** and **Other device** product classes:

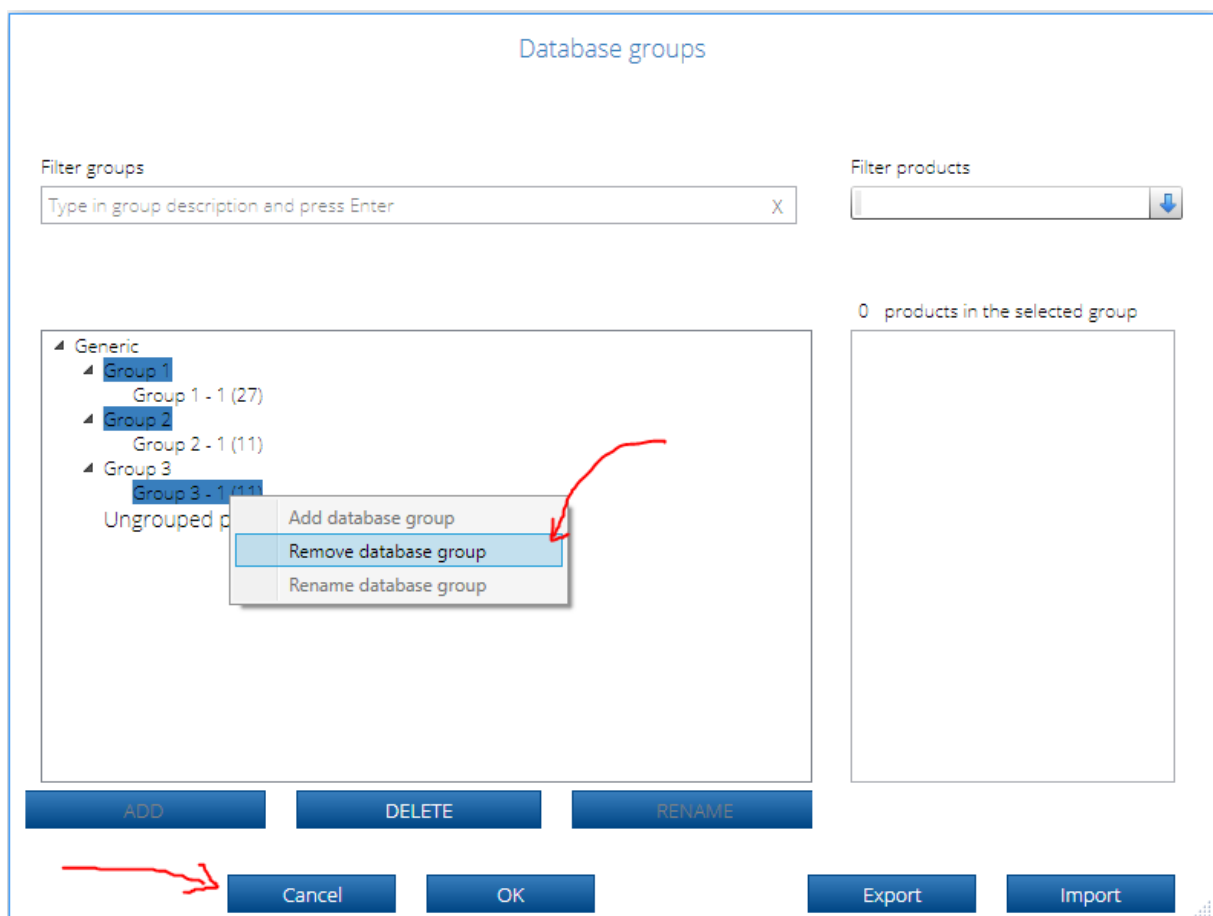


## MagiCAD Create 2019.1 – Release notes

### Database groups improved

In this release, several database groups can be selected and the selected groups can be deleted in the **Database groups** dialog.

Also, the current operations in the **Database groups** dialog can be cancelled:





### **Validation improvements**

Single curve is not acceptable in adjustable ventilation products.

### **Import products from spreadsheet - corrections**

Fan speed changes are now handled correctly when importing **Air Handling Equipment** products.

Diagram limits are now exported correctly for **Air Handling Equipment** products.

### **Product selection improvements**

The last, partially visible product at the end of the product list can now be selected as easily as all other products in the product list.

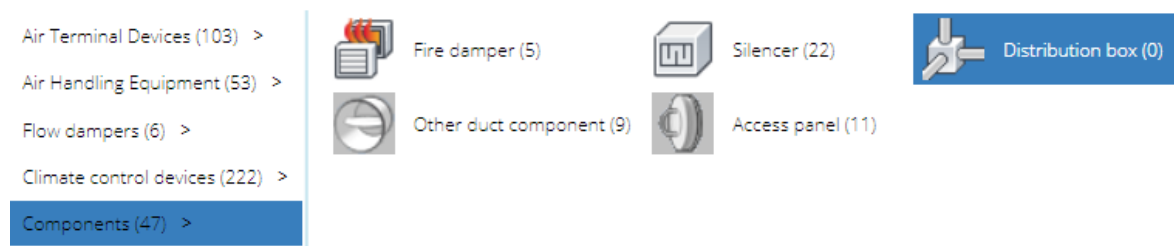
After the copy, the copied product is now always selected and visible at the product list.

# MagiCAD Create 2018.10 – Release notes

## New features

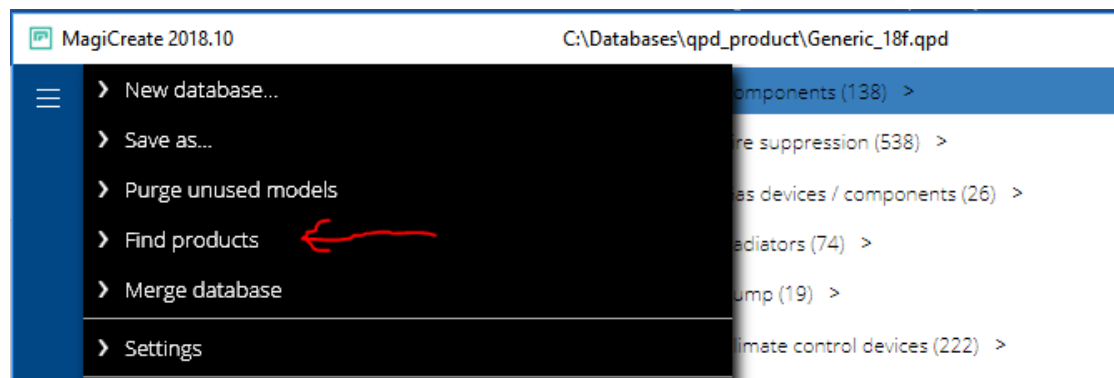
### The modelling of Distribution box

The modelling of the Distribution box product type has been added.

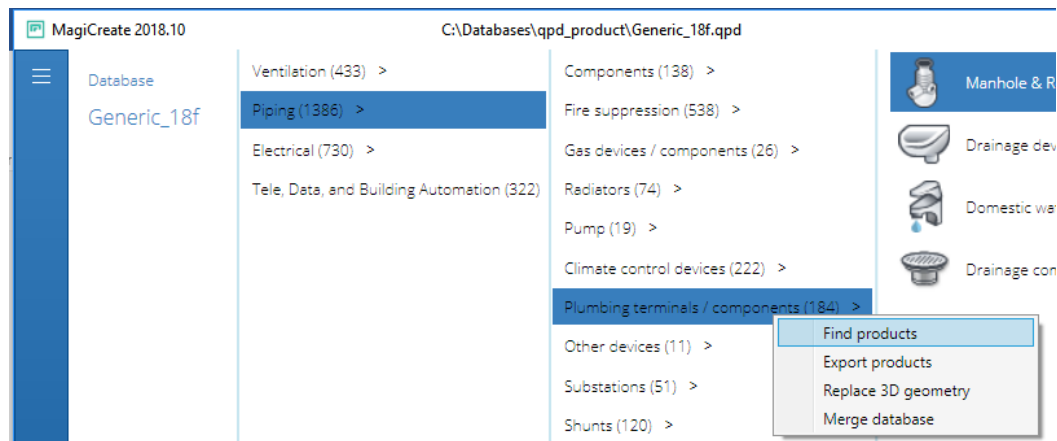


### The 'Find product' feature extended

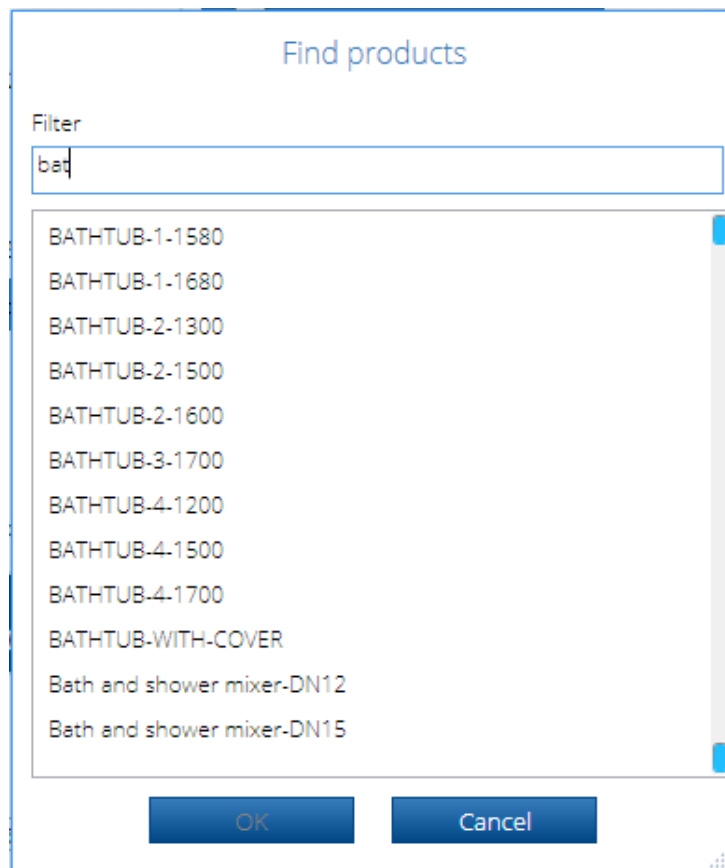
The products can now be found in the whole database, discipline, product category or product type. The **Find products** dialog can be opened from the Main menu:



Or the product can be found by selecting Find products in the context menu at the selected level:



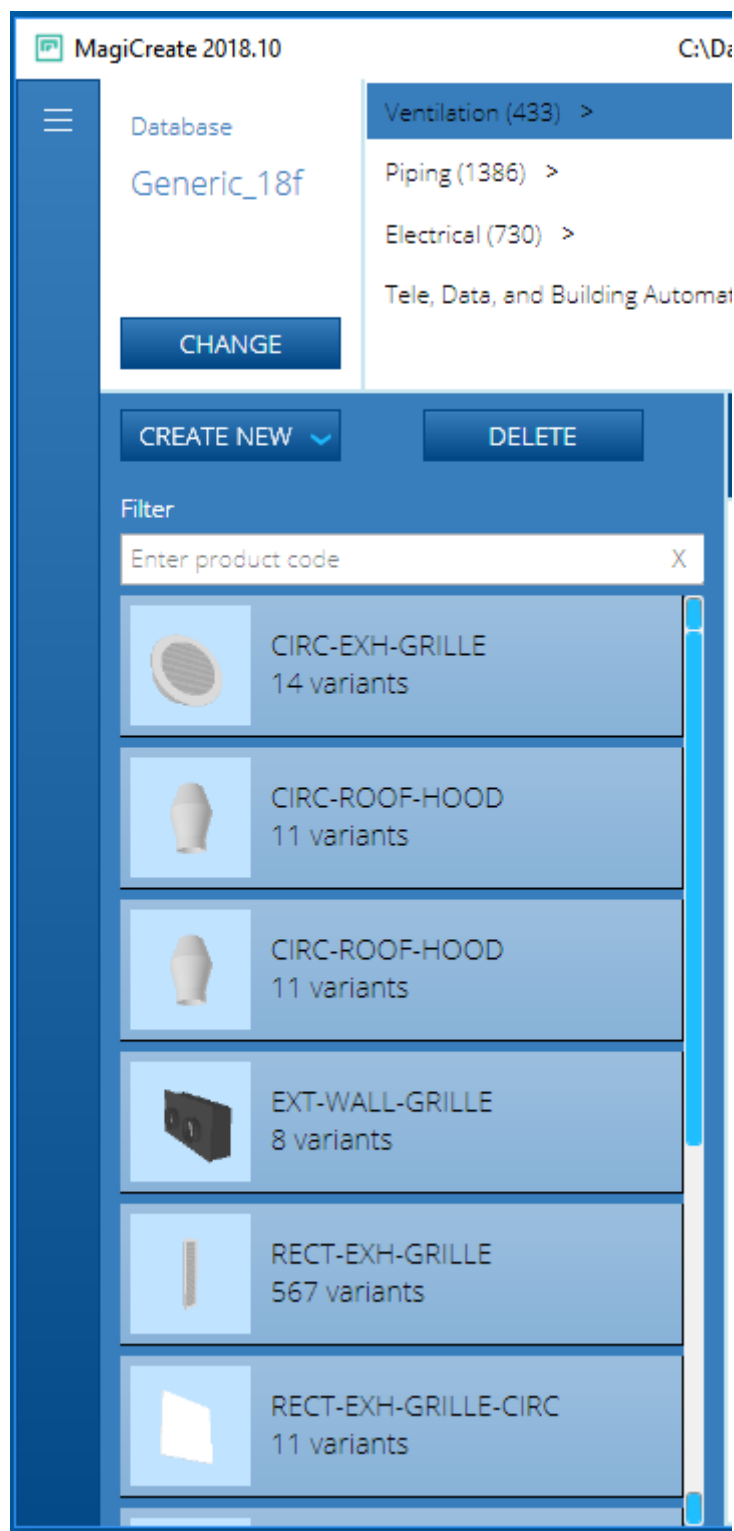
All products at the selected level (Discipline, product category or product type) are on the list of the **FindProducts** dialog:



The **Find products** dialog can also be opened simply by pressing **CTRL+F**

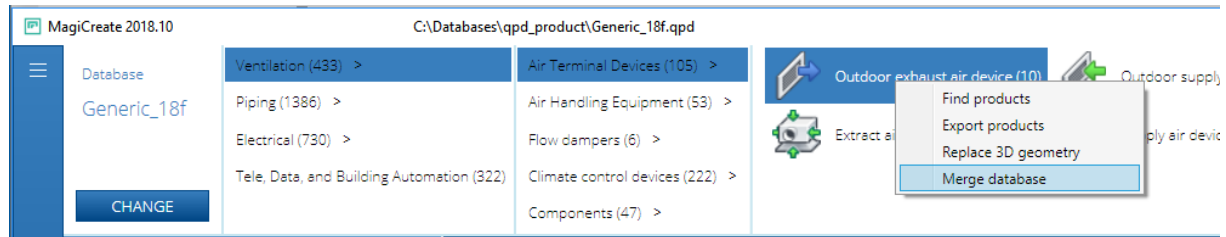
## Variant count visible in all products with several variants

The number of variants in the product can be seen on the product list.

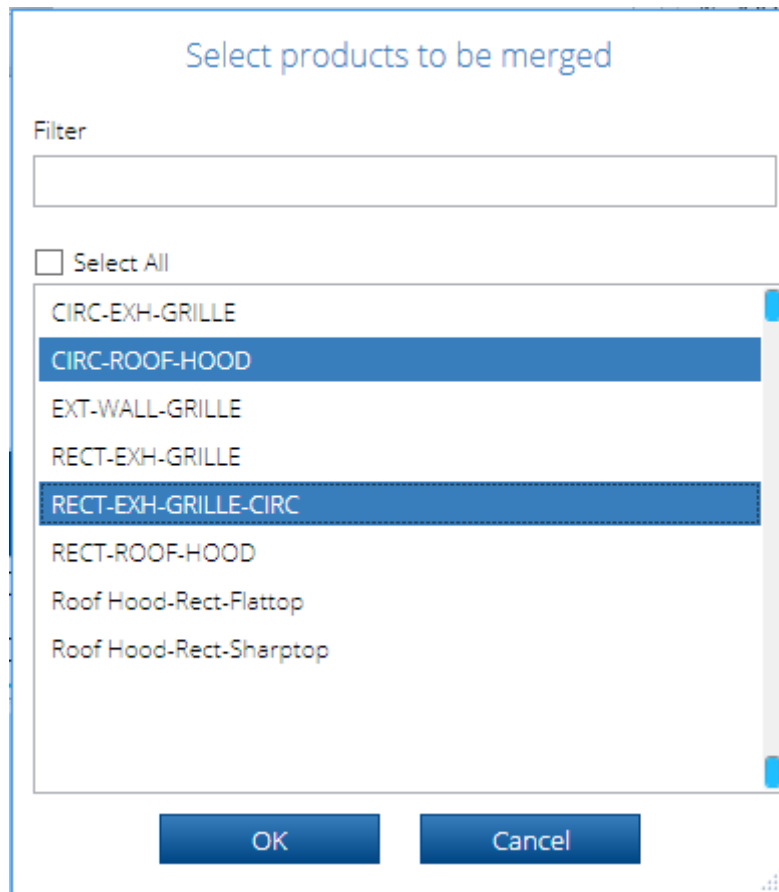


## The 'Merge database' feature extended

The merge feature can be used for merging also distinct products.

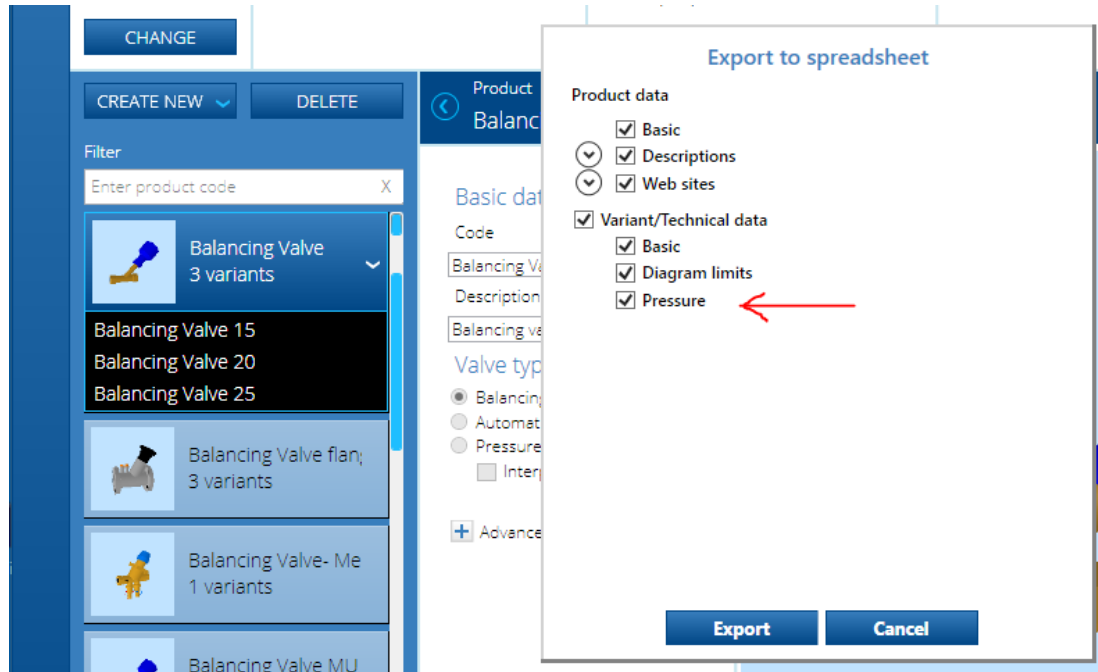


When selecting **Merge database** on the context menu, the selection dialog will open with a whole list of the products at the selected level. All products on the list can be selected, or if needed, only the ones that need to be merged.



## The 'Export products to spreadsheet' feature extended

Pressure data can be exported now also from the **Zone valve** product type.



New excel sheet columns in the **Balancing valve** type:

Variant/Technical data			
Pressure data with volume control			
Adjustment	Flow	Pressure drop	Kv
2	0.014305	1	0.515
2.5	0.019	1	0.684

New excel sheet in the **Automatic Balancing valve** type:

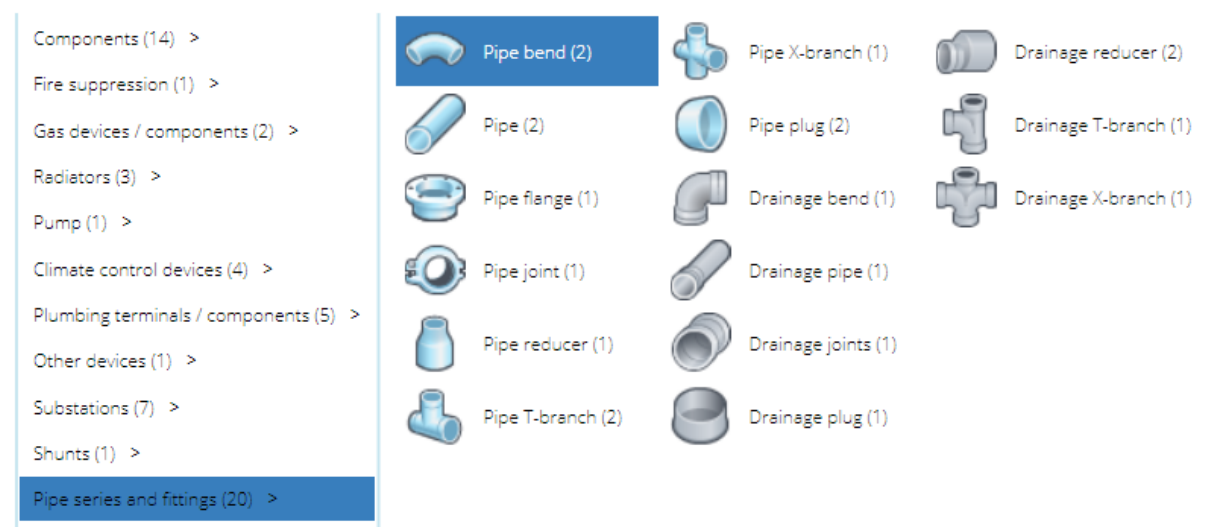
Variant/Technical data				
Kvs values			Differential pressure range	
Flow	Pressure drop	Kv	PressureMin	PressureMax
0.027777	1	1	1	100

## MagiCAD Create 2018.6 – Release notes

### New features

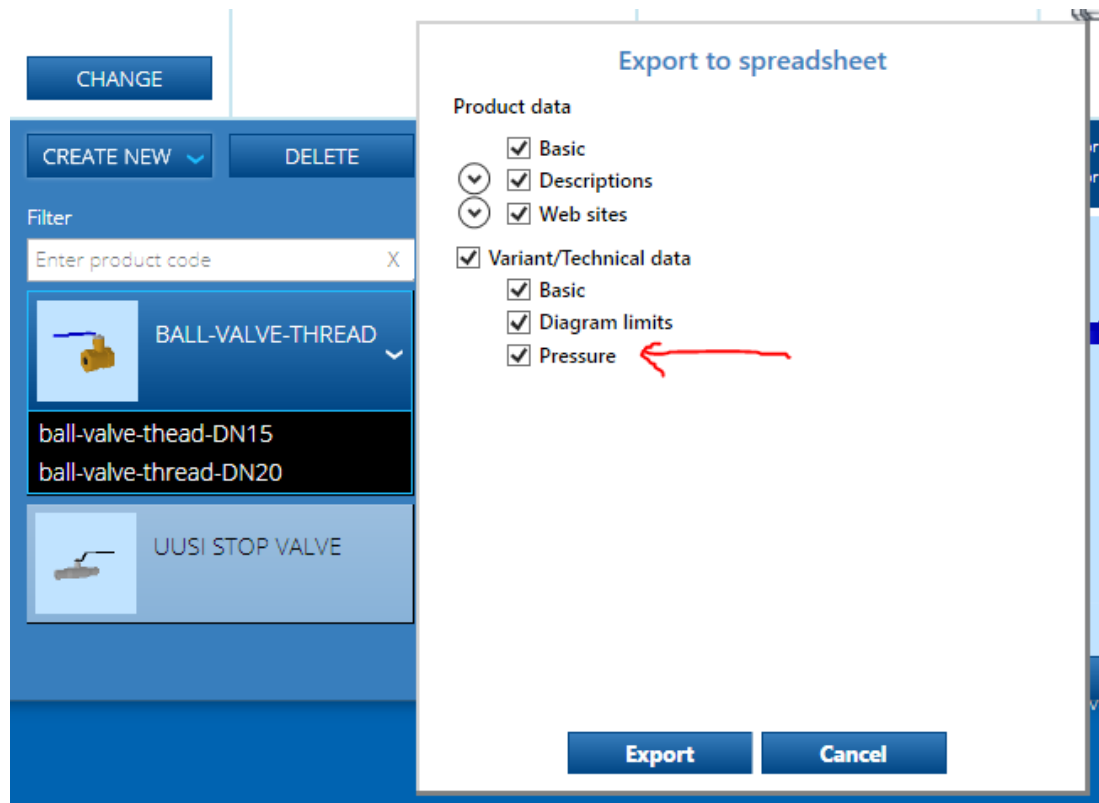
#### Modelling of Pipe series and fittings

The modelling of Pipe series and fittings product category has been considerably extended in this release. Plenty of pipe fitting product types have been added.



## The 'Export products to spreadsheet' feature extended

Pressure data including Kv value can be exported from **Other component**, **Other valve** and **Stop valve** product types.



Variant/Technical data							
Manufacturer article number							
	Diagram limits (heating)				Pressure data without volume control		
	QvMin	QvMax	DpMin	DpMax	Flow	Pressure drop	Kv
	1	6	1	100	0.555555	1	20
	5	20	1	100	1.666667	1	60



## Support for equivalent lengths for sprinkler pipes

Equivalent length values can be added for every pipe size:

MagiCAD for Revit 2014.4 ->  
 MagiCAD for AutoCAD not supported

**Technical data**

### Pipe sizes

Size	Din	Dout
40	40	45
50	50	55

Add
Delete
Clear

Material code

Roughness for piping

Roughness for fresh water

Hazen-Williams factor

☒ Data for flexible sprinkler pipes

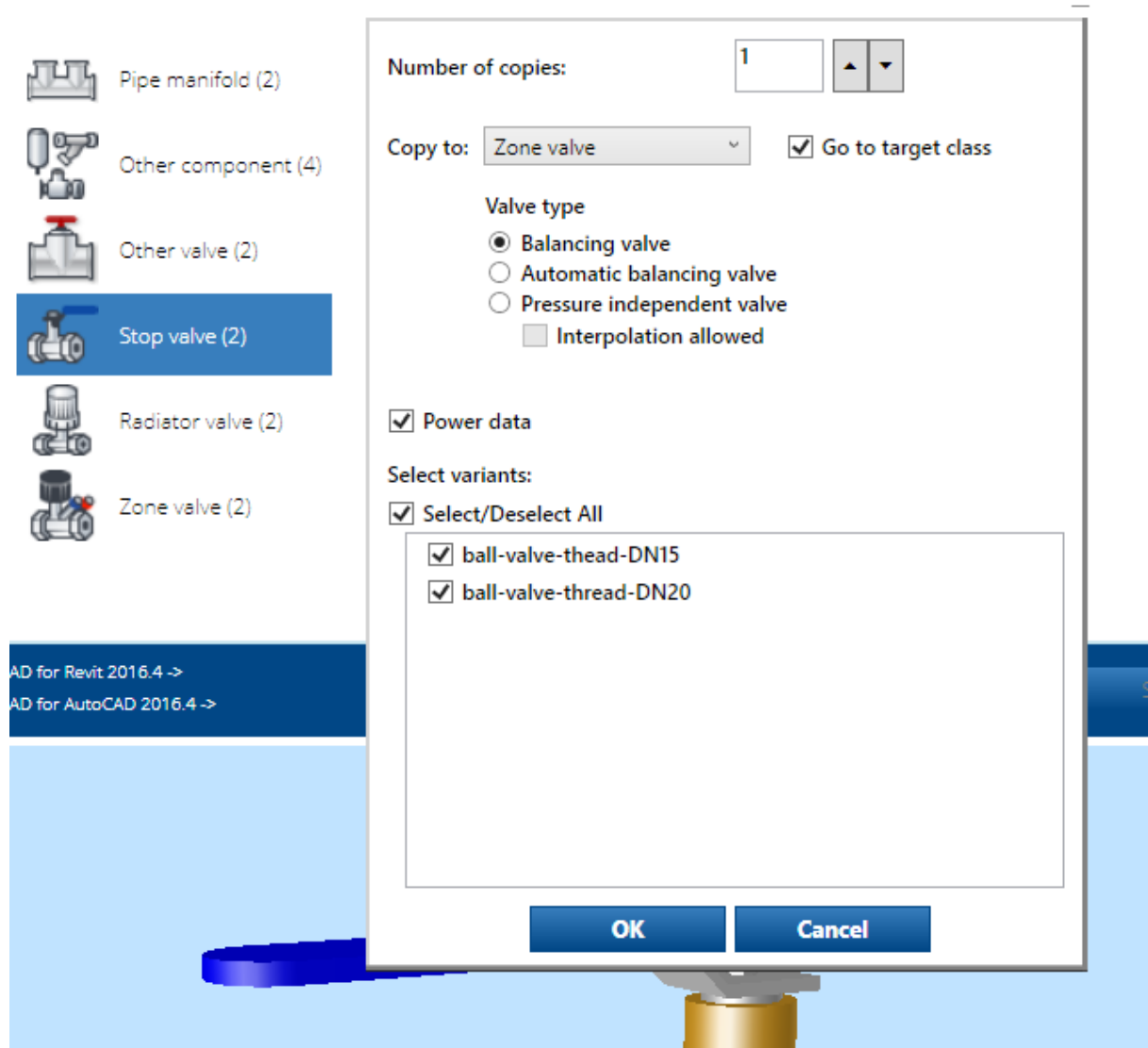
### Equivalent length, DN Size: 50

Pipe length [mm]	Equivalent length [mm]
200	230
300	350

Add
Delete
Clear

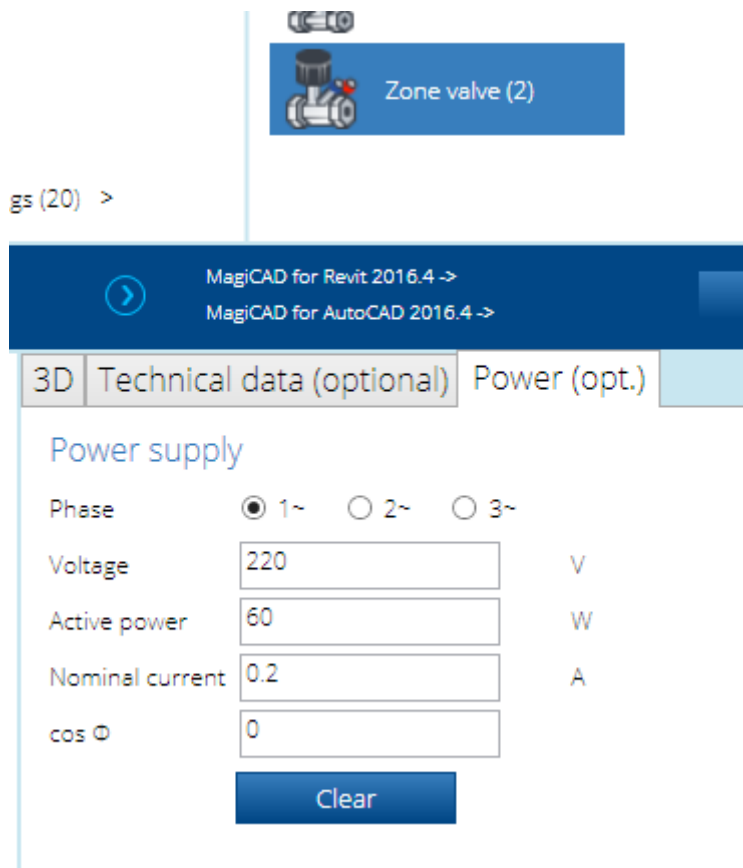
## Product copy from one product class to another extended

In **Other component**, **Other valve**, **Stop valve**, **Radiator valve** and **Zone valve**, it is now possible to copy products from one product class to another. Included variants and Power data can be selected, as well as the target class:



## Power tab has been added to several product types

The power tab can be found now also in **Stop valve**, **Radiator valve**, **Zone valve**, **Other valve**, **Domestic Water device**, **Other Component**, **Gas device**, **Gas component**, **Manifold**.



gs (20) >

Zone valve (2)

MagiCAD for Revit 2016.4 ->  
MagiCAD for AutoCAD 2016.4 ->

3D | Technical data (optional) | **Power (opt.)**

**Power supply**

Phase ☒ 1~ ☐ 2~ ☐ 3~

Voltage  V

Active power  W


Nominal current  A

cos  $\Phi$


**Clear**

## New features


In this release, **Luminous flux** has been added to the **Luminaire** product type:




Luminaire (63)



Socket (389)



Connection box (55)



Switch (75)

3D

Technical data (optional)

Active power	<input type="text" value="464"/>	W
Light source	<input type="text" value="4x100"/>	
Luminous flux	<input type="text" value="8000"/>	lm

## Support for Air Terminal Devices with more than 1 duct connections

The amount of duct connections can be changed:


**Air Terminal Devices (64) >**

Air Handling Equipment (0) >


Flow dampers (29) >

Climate control devices (134) >


Components (376) >




Outdoor exhaust air device (0)



Outdoor supply air device (0)



Extract air device (58)



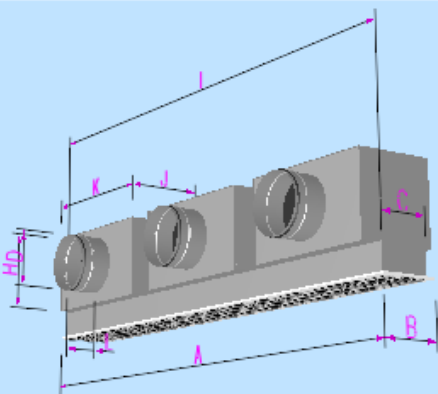
Supply air device (6)

0-3-1V+SRYT1b 4-L

[MagiCAD for Revit 2018 ->](#)  
[MagiCAD for AutoCAD 2018 ->](#)

3D
Ventilation (opt.)
Power (opt.)

Dimensions




Dimensions [mm] and parameters


Description	Label	Value
Diffuser length	A	1797
Diffuser width	B	200
Duct diameter	D	200
	H	276
	J	270
	L	115
distance between conn.box	M	600
distance to 1 box	N	280
number of boxes	NB	3

## Support for Climate beam with more than 1 duct connections

The amount of duct connections can be changed:



Fan coil unit (16)



Climate beam (25)

➔

MagiCAD for Revit 2018 UR-2 ➔  
 MagiCAD for AutoCAD 2016.11 ➔

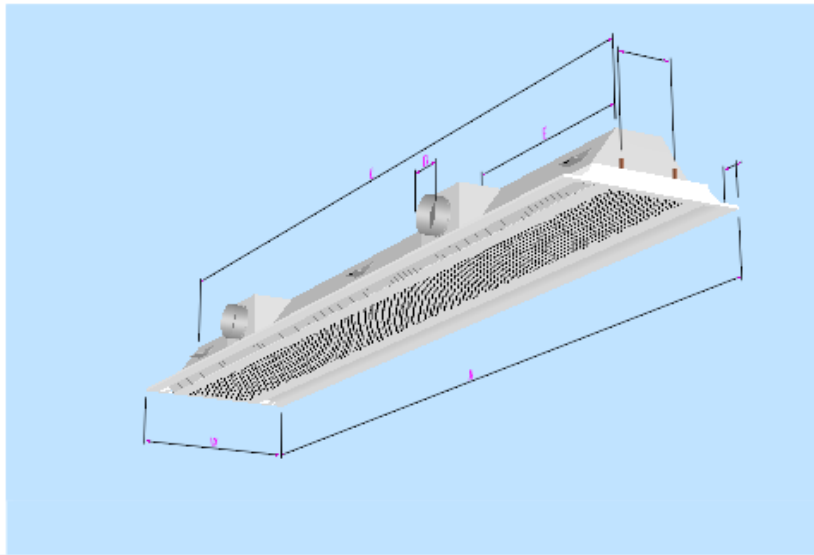
3D

Ventilation (opt.)

Piping (opt.)

Power (opt.)

Dimensions



Dimensions [mm] and parameters

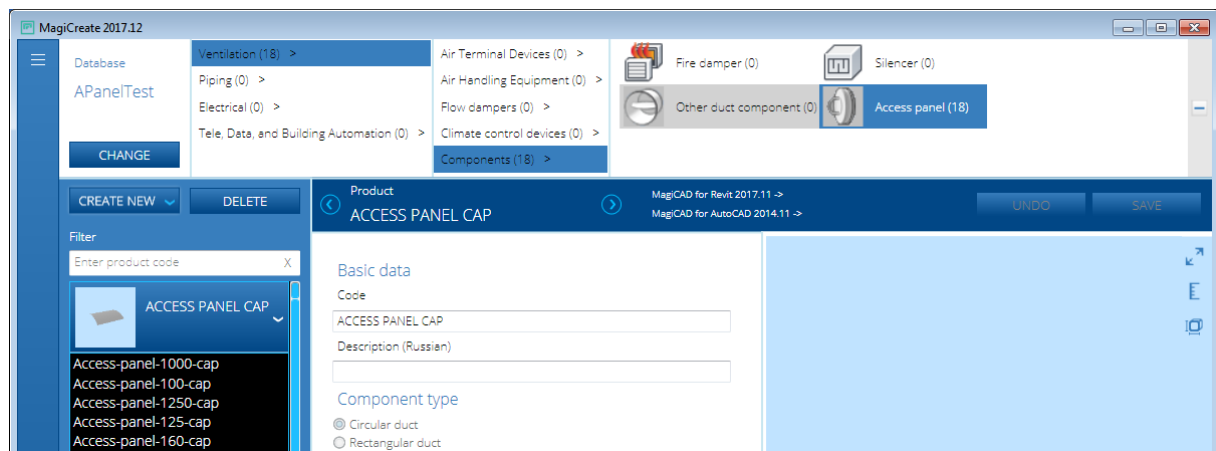
Description	Label	Value
Connection diameter	D	125
Total length	A	2992
Duct diameter	D1	15
Spigot: front/1r/2r/1top/2top	MT	3
1: cooling 2:heating 3: c&h	MT2	2

# MagiCAD Create 2017.12 – Release notes

## New features

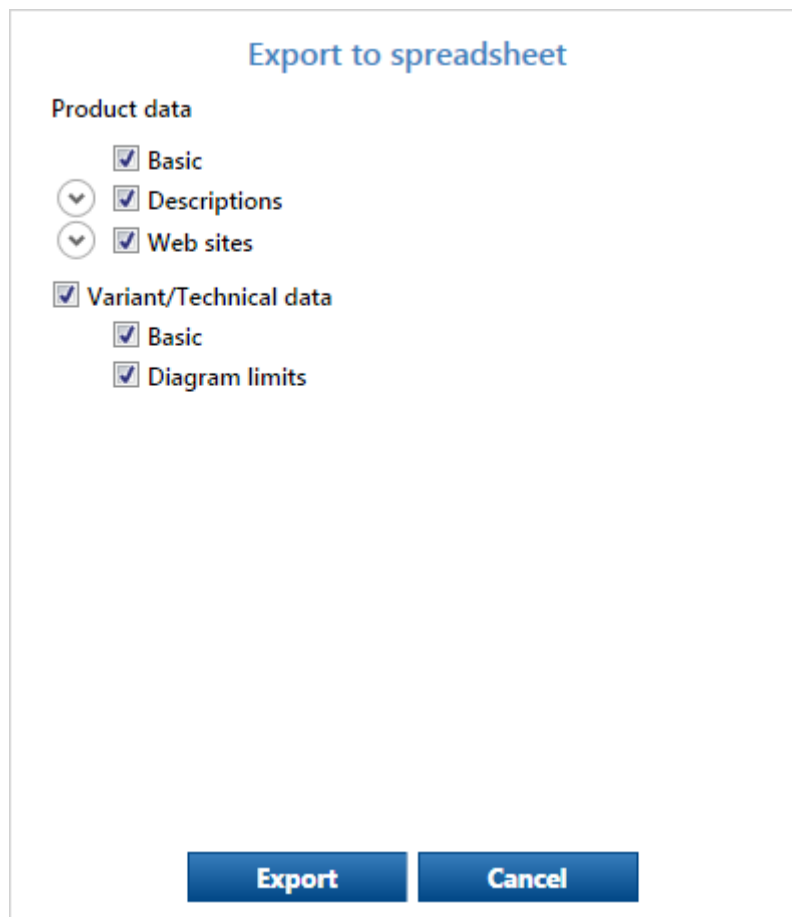
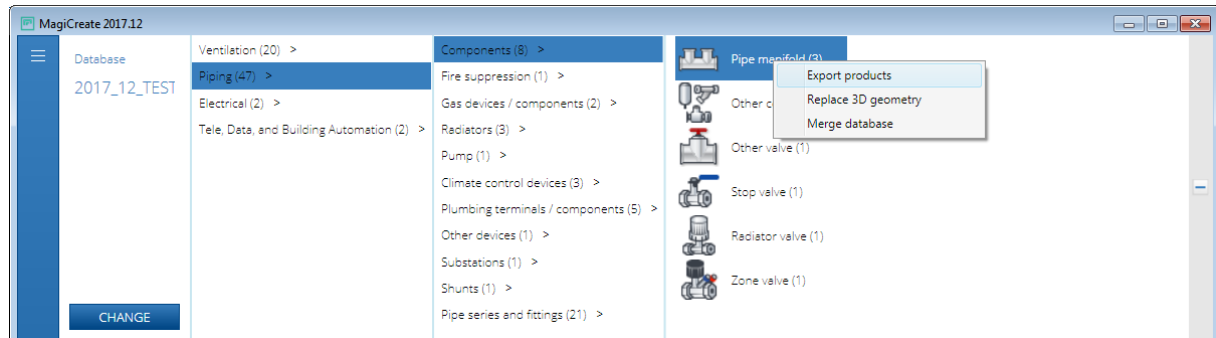
### Modelling of Access panel

The modelling of Access panel has been added in this release.



## The 'Export products to spreadsheet' feature extended

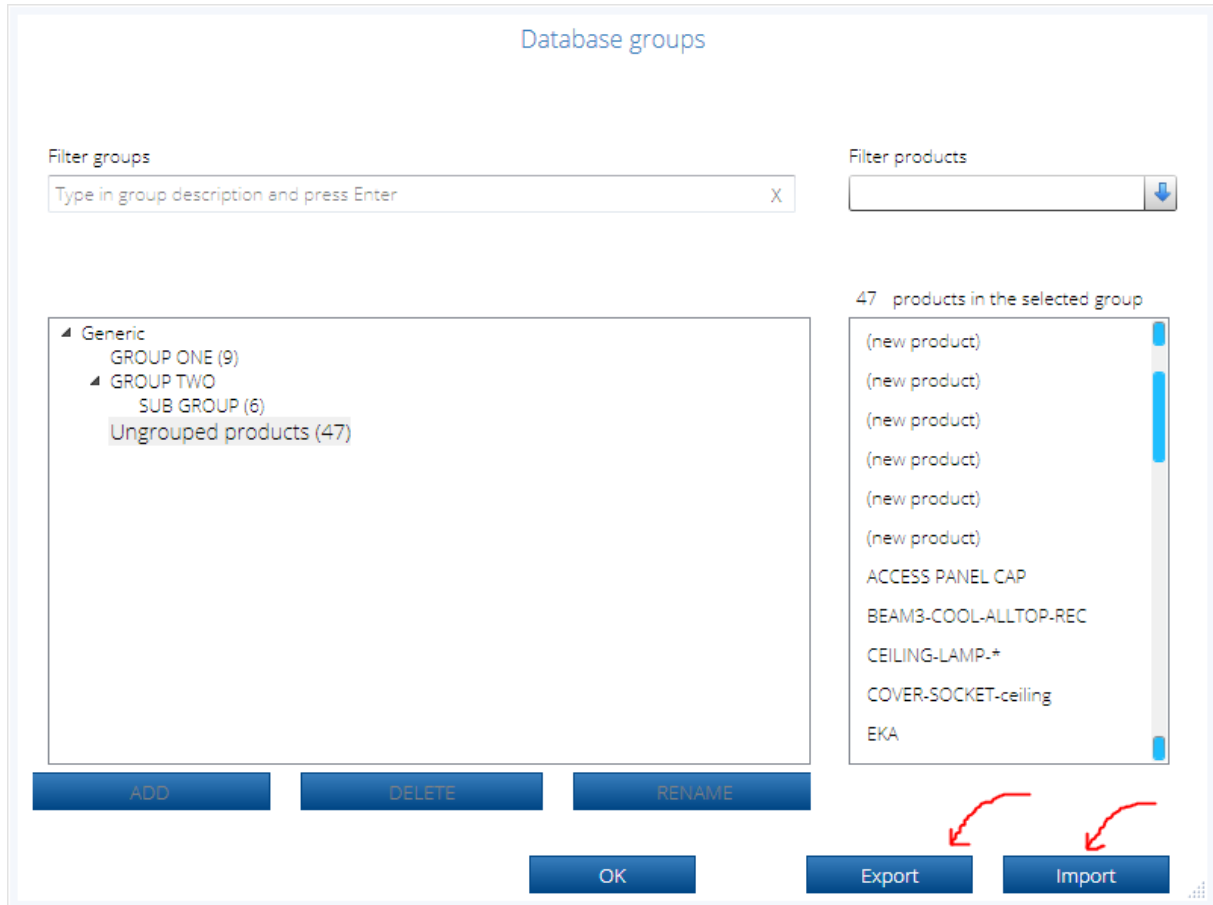
Basic technical data can be exported from all **Piping** products.





## Export Database groups to spreadsheet

The database groups can be exported to spreadsheet, and the localized group headers can be edited there and imported back to the database.

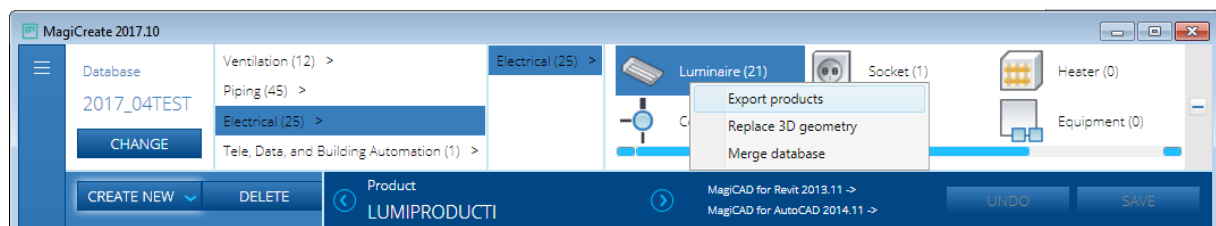


# MagiCAD Create 2017.10 – Release notes

## New features

### ‘Export products to spreadsheet’ feature extended

The technical data can be exported from all **Electrical** products as well as all products from **Tele, Data, and Building Automation**.



## Extended Descriptions and Market area codes and websites

The amount of description languages has been added, as well as the possible Market areas:

Descriptions

Language	Description
Chinese	排气罩, 矩形连接
Swedish	Swedish desc
Russian	Russian desc
French	French desc
English	Exhaust air cowl, rectangular connection
English(US)	English description
Arabic	
Bosnian	
Bulgarian	
Croatian	
Czech	
Danish	
Dutch	
Estonian	
Finnish	
Flemish	
German	
Hungarian	
Icelandic	
Italian	
Japanese	

OK

Cancel

Market area codes and websites

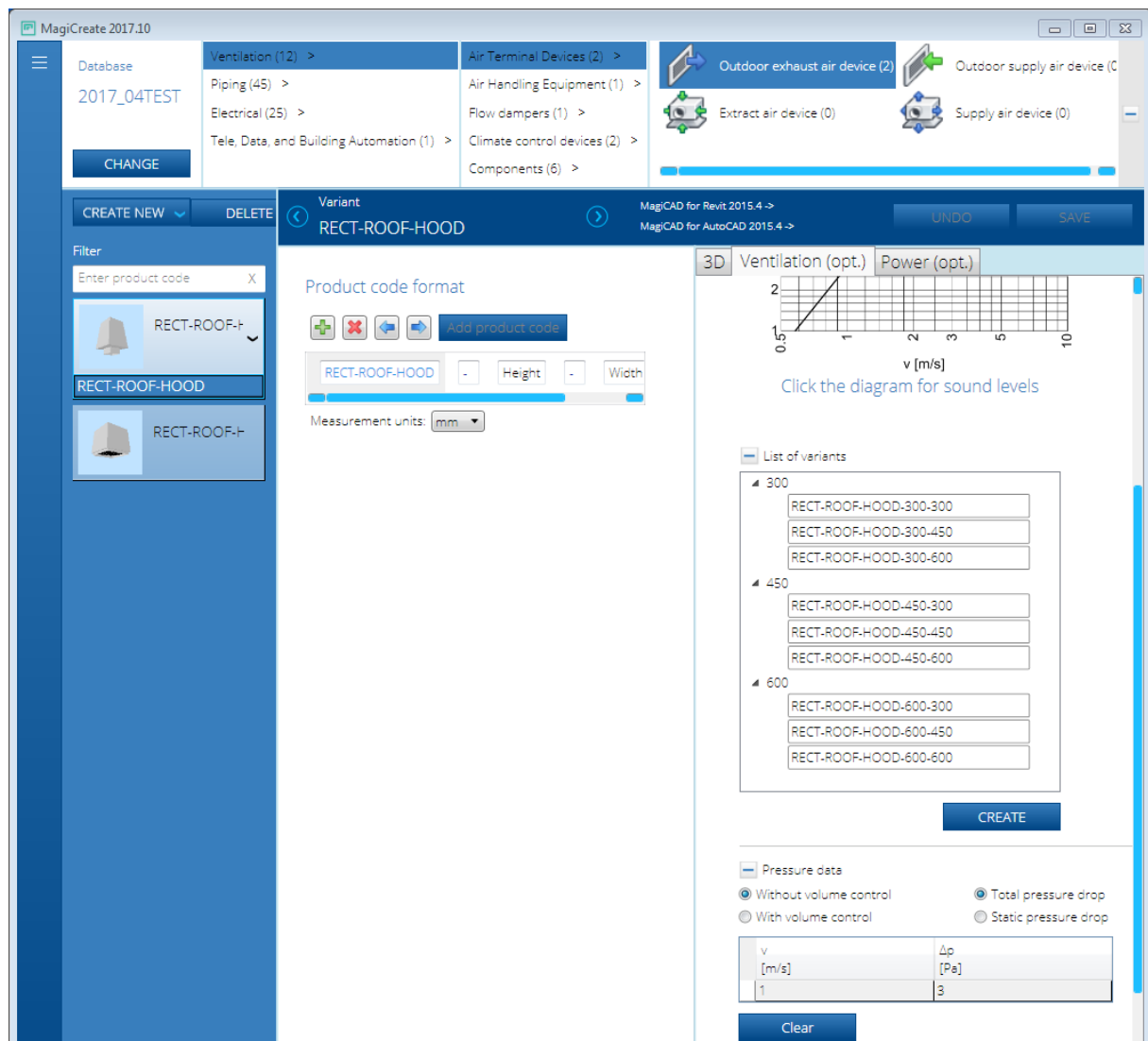
Market area	Website	Code	Available
Russia	www.r.com	market area code for russian markets	<input type="checkbox"/>
Great Britain	www.gb.com	market area code for GB markets	<input type="checkbox"/>
Bosnia and Herzegovina			<input type="checkbox"/>
Bulgaria			<input type="checkbox"/>
China			<input type="checkbox"/>
Croatia			<input type="checkbox"/>
Czech Republic			<input type="checkbox"/>
Denmark			<input type="checkbox"/>
Estonia			<input type="checkbox"/>
Finland			<input type="checkbox"/>
France			<input type="checkbox"/>
Germany			<input type="checkbox"/>
Hungary			<input type="checkbox"/>
Iceland			<input type="checkbox"/>
Italy			<input type="checkbox"/>
Japan			<input type="checkbox"/>
Latvia			<input type="checkbox"/>
Lithuania			<input type="checkbox"/>
Norway			<input type="checkbox"/>
Poland			<input type="checkbox"/>
Portugal			<input type="checkbox"/>

OK

Cancel

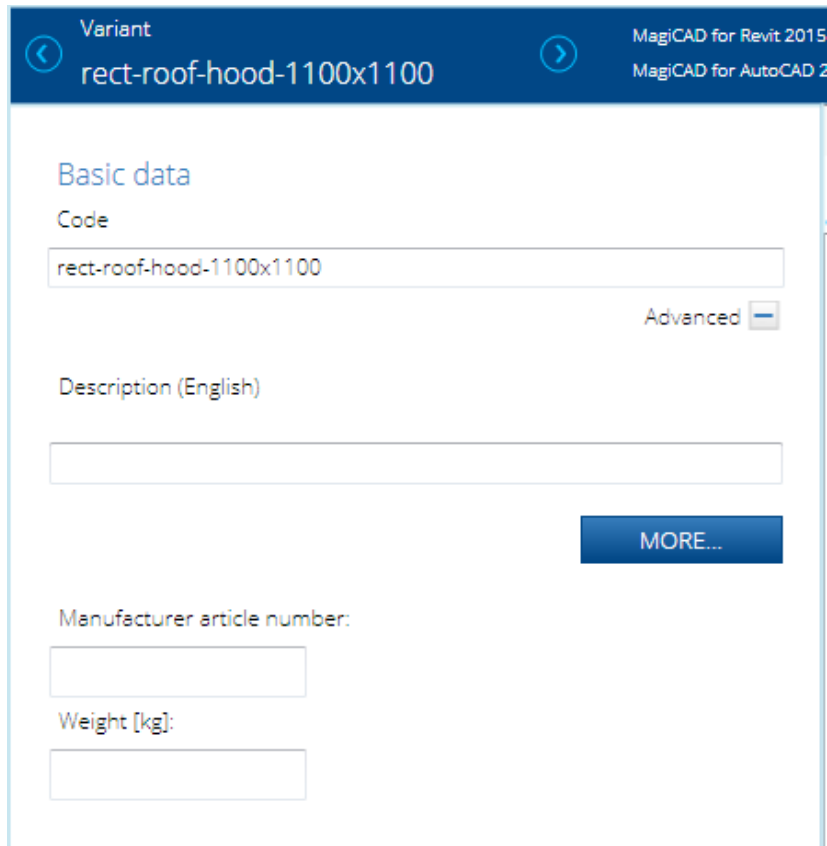
## Improved modelling of the Air Terminal Devices

The modelling of the **Air Terminal Devices** can now be started by defining the size range of the variants. The common technical data can be given for all sizes. This is a significantly helpful tool for creating quickly hundreds of rectangular grilles. After entering the data, the distinct variants can be created by pressing the **CREATE** button.



## Manufacturer article number

In this release, **Manufacturer article number** has been added to every product type:



The screenshot shows the 'Variant' selection bar at the top with 'rect-roof-hood-1100x1100' selected. Below this, the 'Basic data' tab is active. It contains a 'Code' field with the value 'rect-roof-hood-1100x1100', a 'Description (English)' field, and a 'Manufacturer article number' field. There are also fields for 'Weight [kg]' and an 'Advanced' toggle. A 'MORE...' button is located to the right of the 'Description' field.

Variant  
rect-roof-hood-1100x1100

MagiCAD for Revit 2015  
MagiCAD for AutoCAD 2015

Basic data

Code  
rect-roof-hood-1100x1100

Advanced

Description (English)

MORE...

Manufacturer article number:

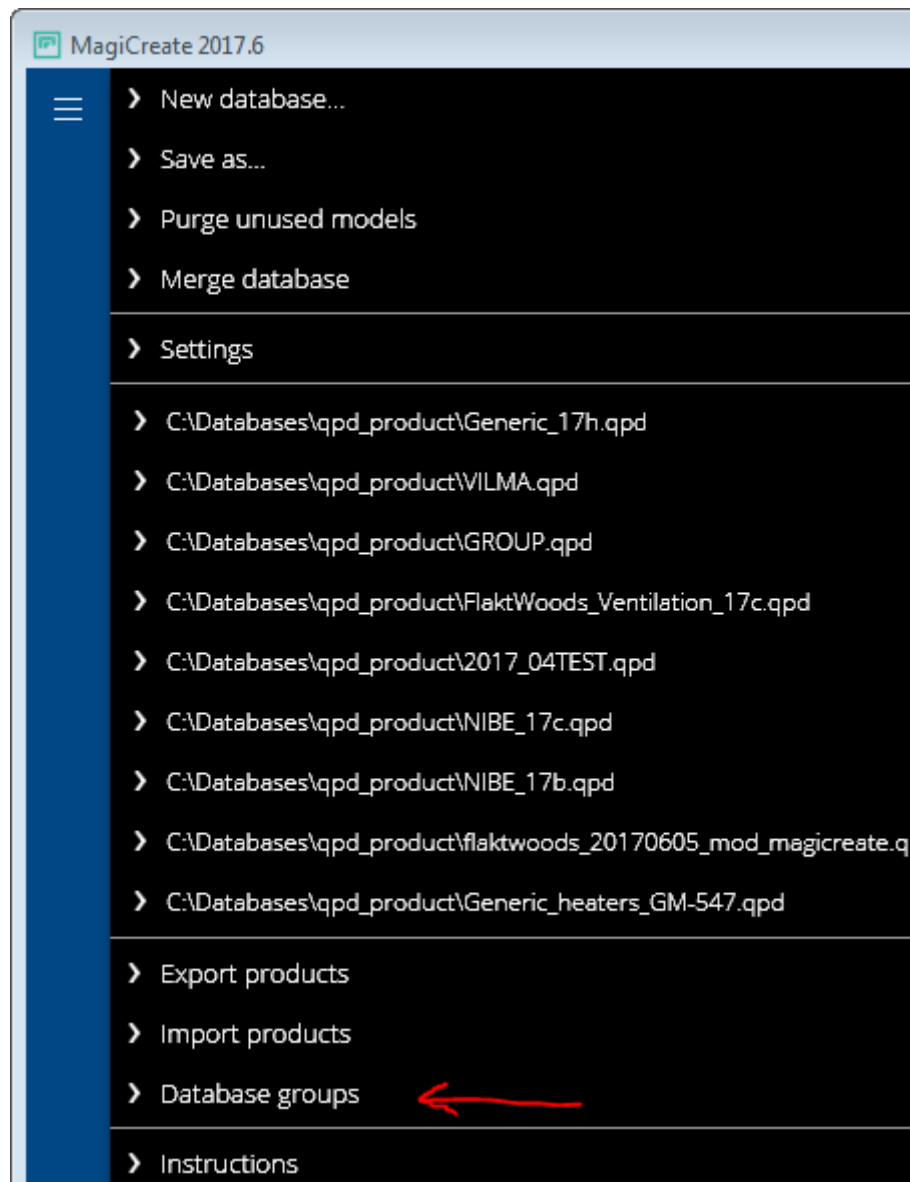
Weight [kg]:

# MagiCAD Create 2017.6 – Release notes

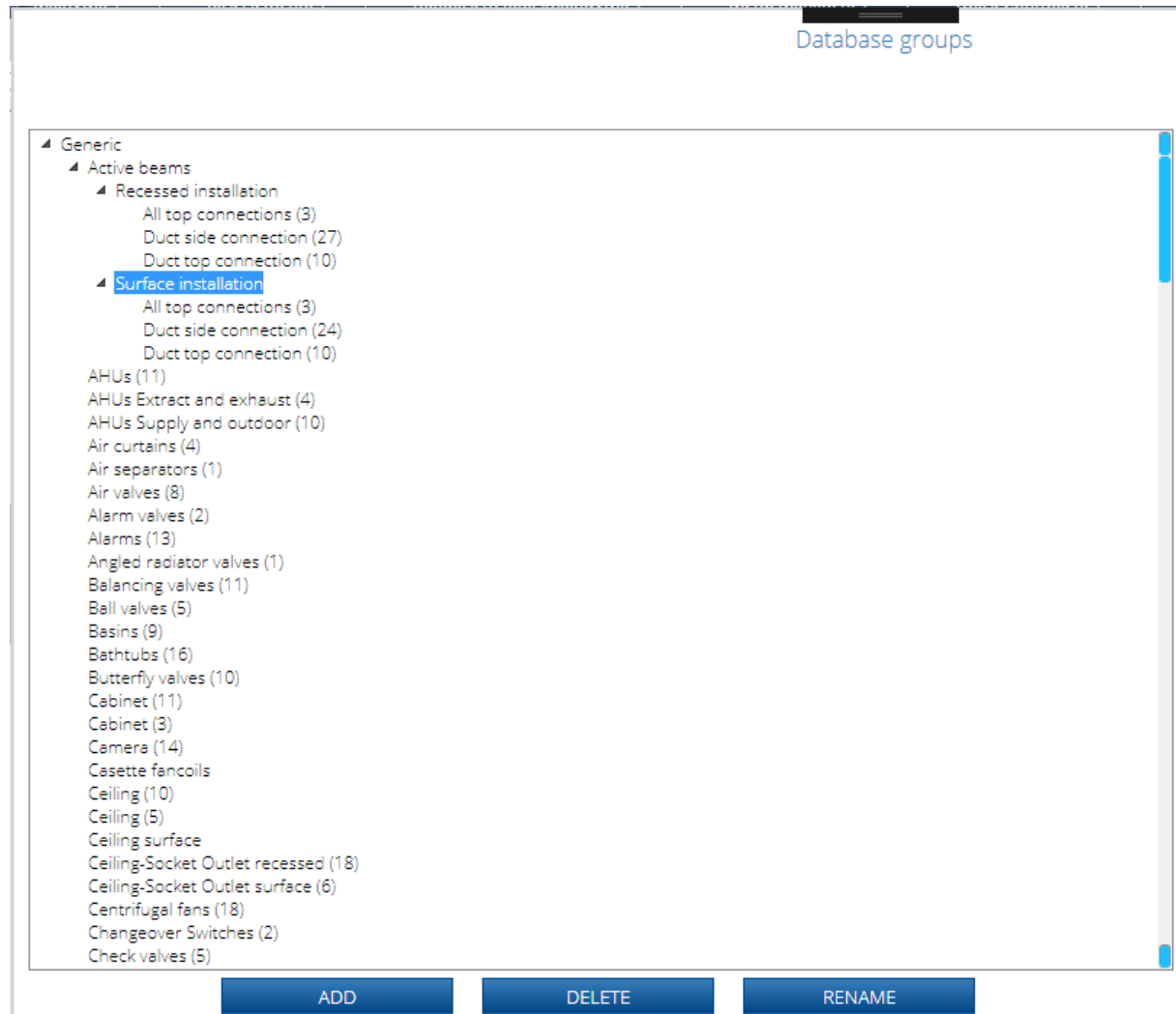
## New features

### Database groups

In this release, database groups can be created and modified. The **Database groups** dialog can be started in the main menu:



In the **Database groups** dialog, the groups can be added, deleted and renamed. The location in the group tree can be changed by dragging the group and dropping it in the new location. If the group is removed, the products in the group will be moved to the **Undefined** group.



The selected products listed on the right can be dragged and dropped to any leaf (= lowest level) group.



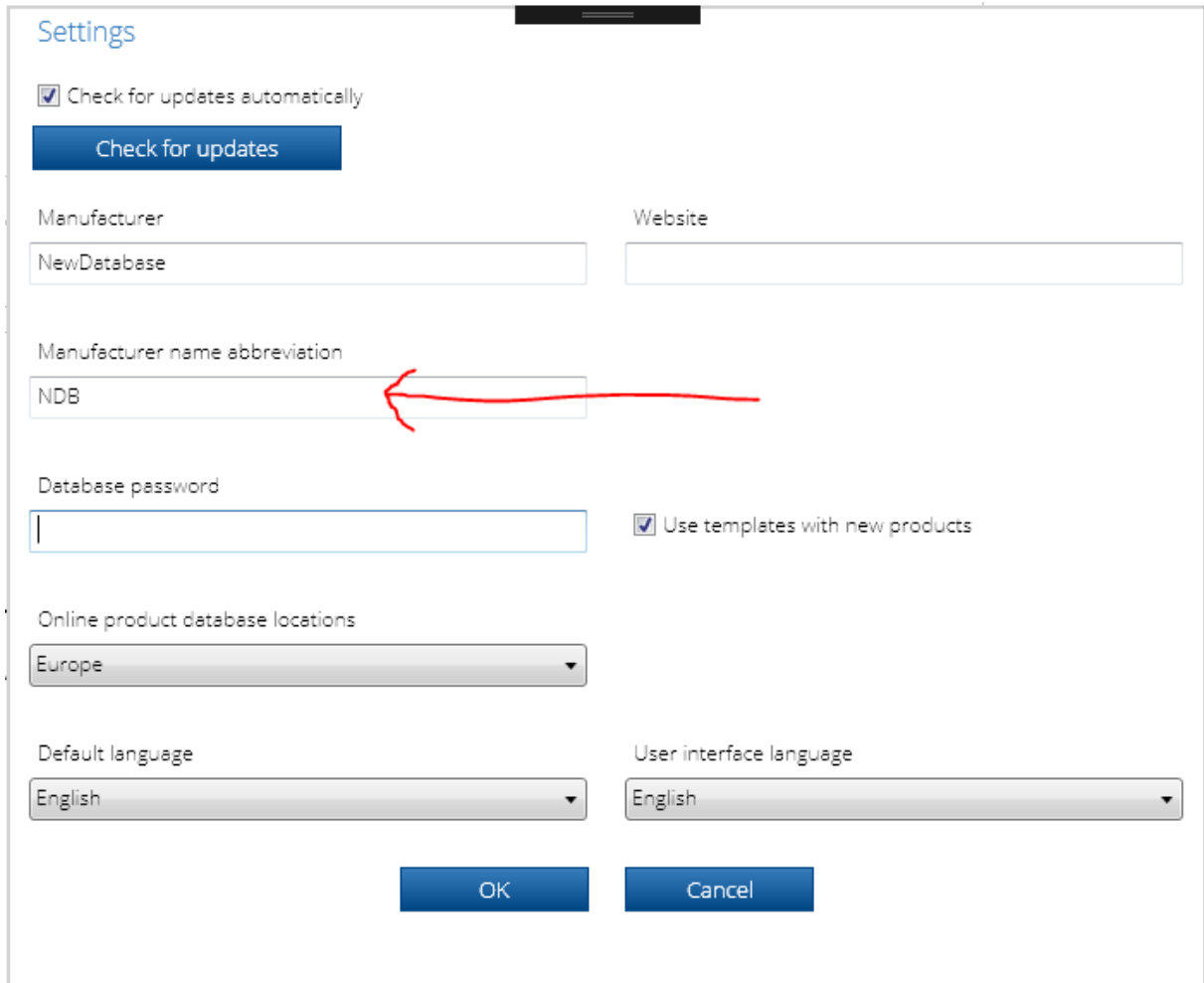
When starting **Database groups** in a new database, all existing products will automatically be connected to the **Undefined** group.





## Manufacturer name abbreviation

The **Manufacturer name abbreviation** field is a new three letter field in the **Settings**:



Settings

☒ Check for updates automatically

Check for updates

Manufacturer: NewDatabase

Website:

Manufacturer name abbreviation: NDB

Database password:

☒ Use templates with new products

Online product database locations: Europe

Default language: English

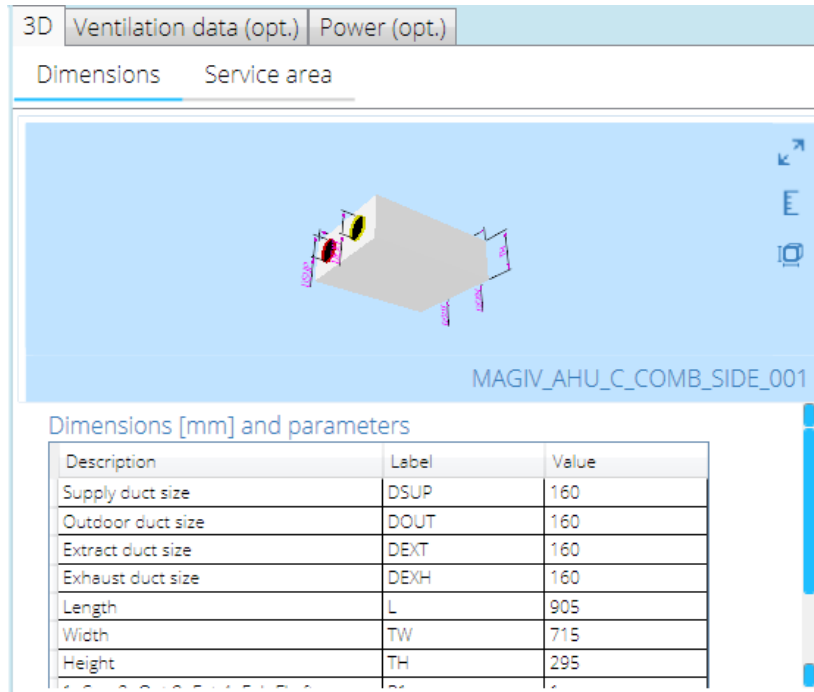
User interface language: English

OK Cancel

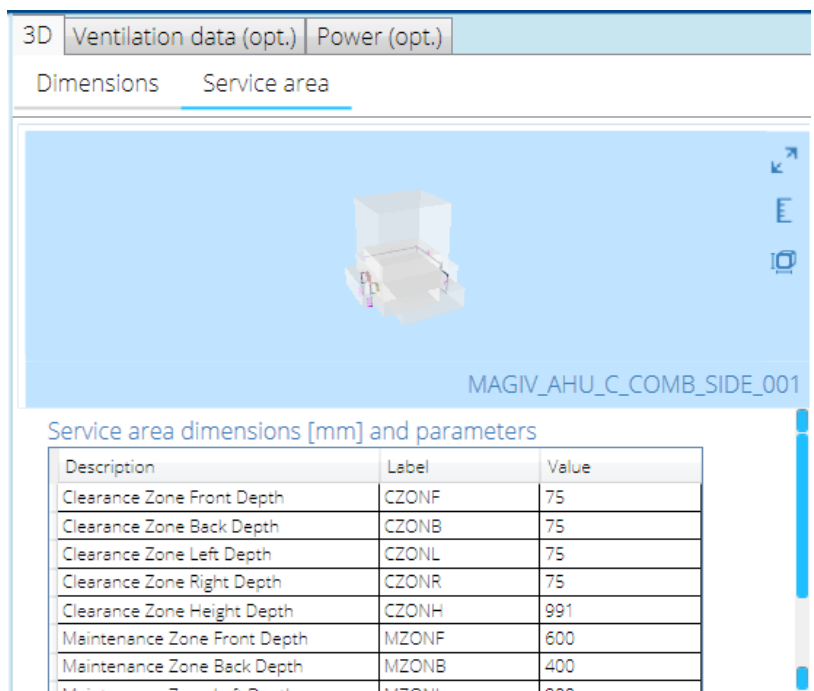
The **Manufacturer name abbreviation** value in this field will be saved for every product in the database. It is not visible in MagiCAD Create.

The **3D** tab has been divided into two sub tabs.

### Dimensions:



### Service area:



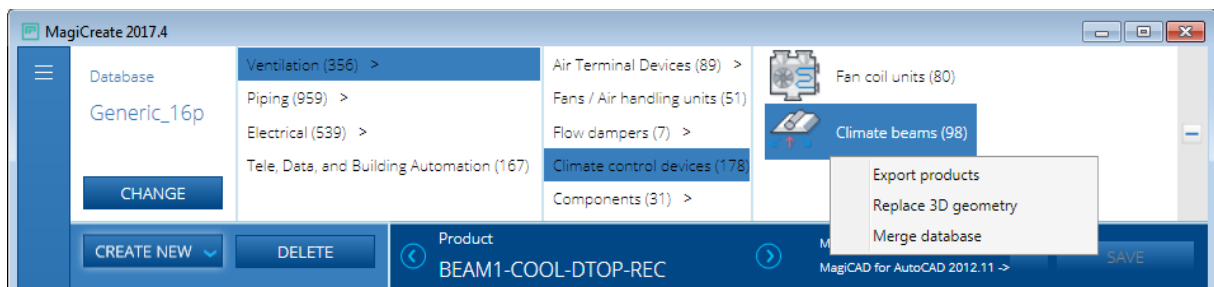
The **Service area** sub tab only exists with parameters starting with “CZ” or “MZ” in the 3D Geometry.

# MagiCAD Create 2017.4 – Release notes

## New features

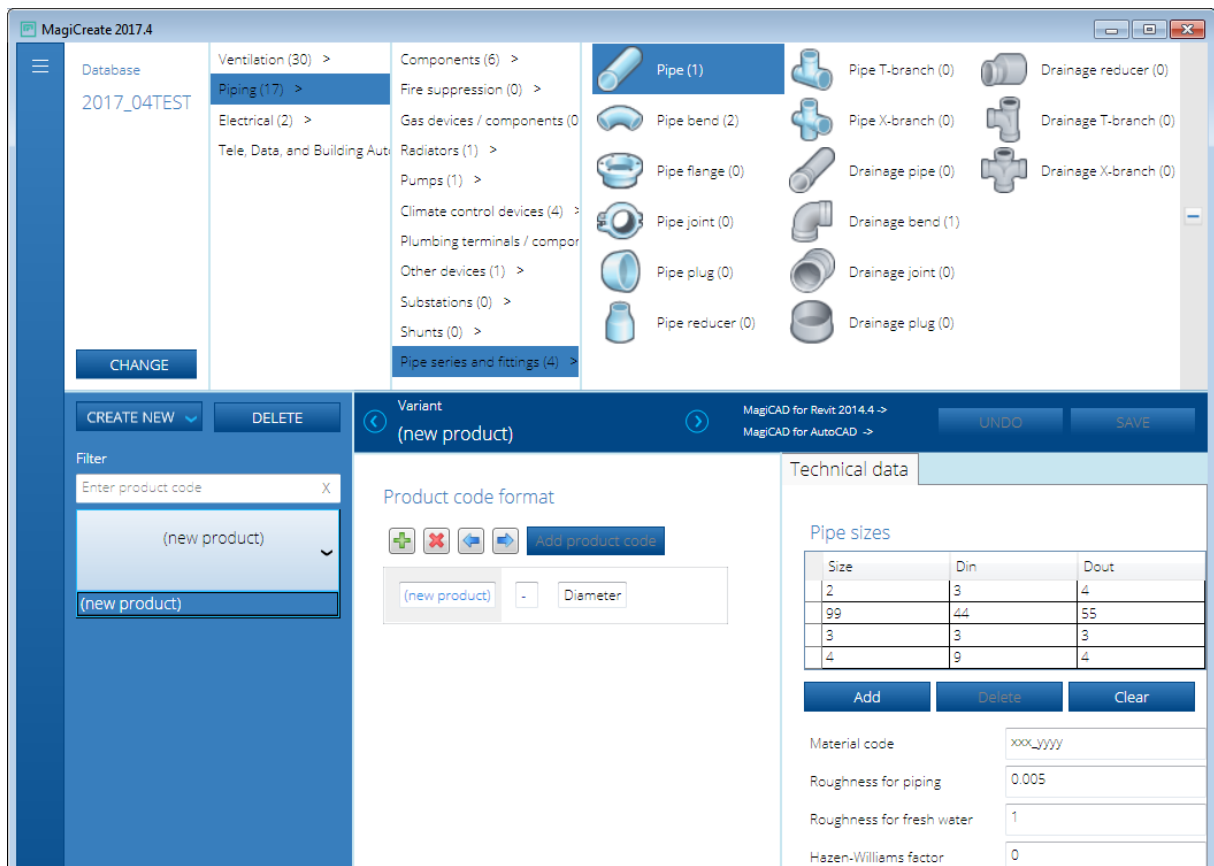
### ‘Export products to spreadsheet’ feature extended

In this release, the technical data can be exported from all Ventilation products, also from Fans / Air handling units, Fan coils, and Climate beams.



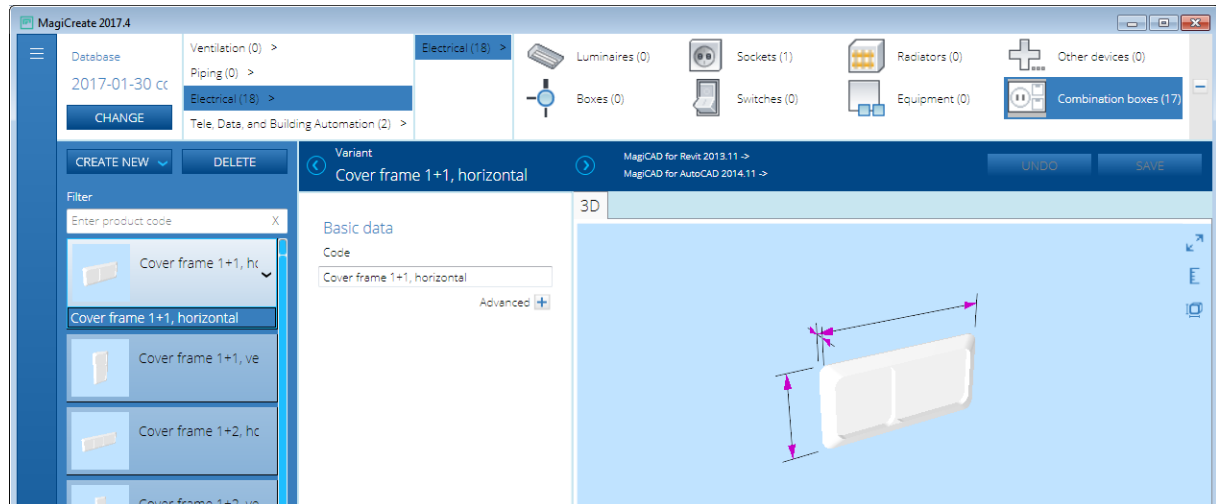
## Modelling of Pipe series and fittings

The modelling of Pipe series and fittings is also possible in this release.



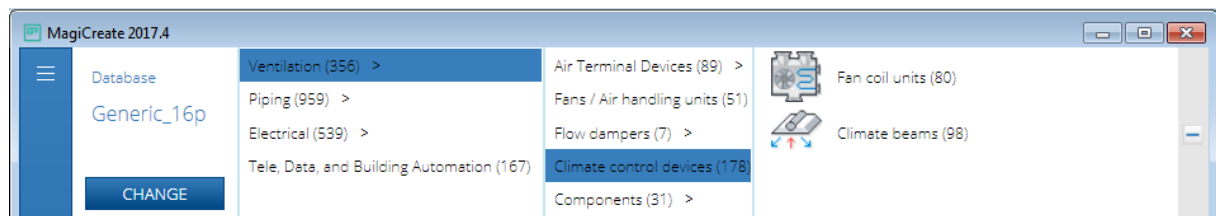
## Modelling of Combination boxes

The modelling of Combination boxes has been added in this release.



## Product count is visible in all product categories

The number of products in the product category can be seen in parenthesis at the end of each category name.

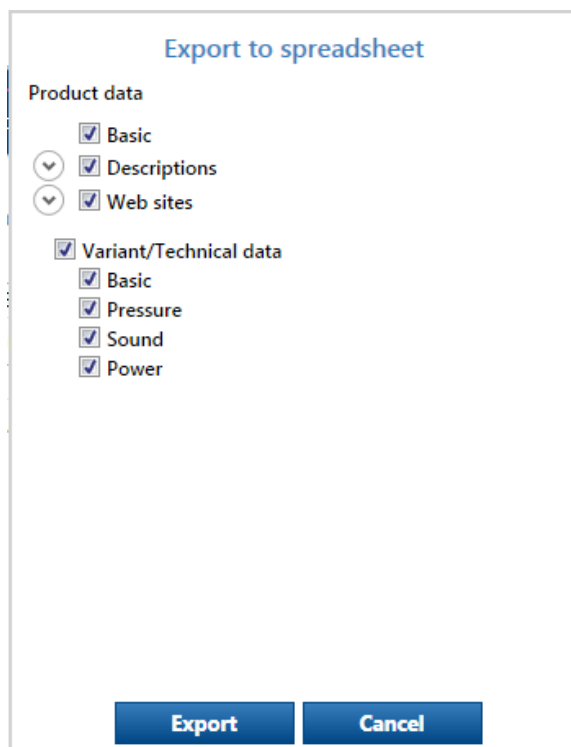
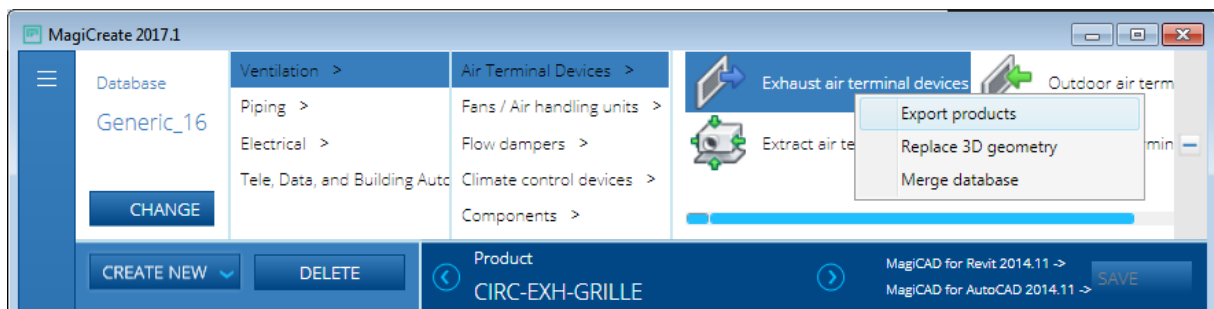


# MagiCAD Create 2017.1 – Release notes

## New features

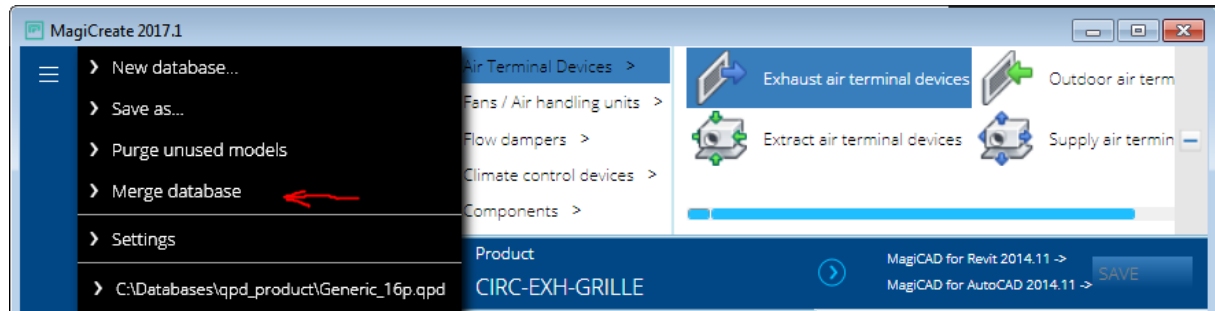
### ‘Export products to spreadsheet’ feature extended

When exporting the selected product class or selected products, also technical data can be exported to a spreadsheet. In this release, the technical data can be exported from Ventilation products (except Fan coils and Climate beams).



## Merge database

The whole external database can now be merged with the current database. All products with 3D geometry can be merged.

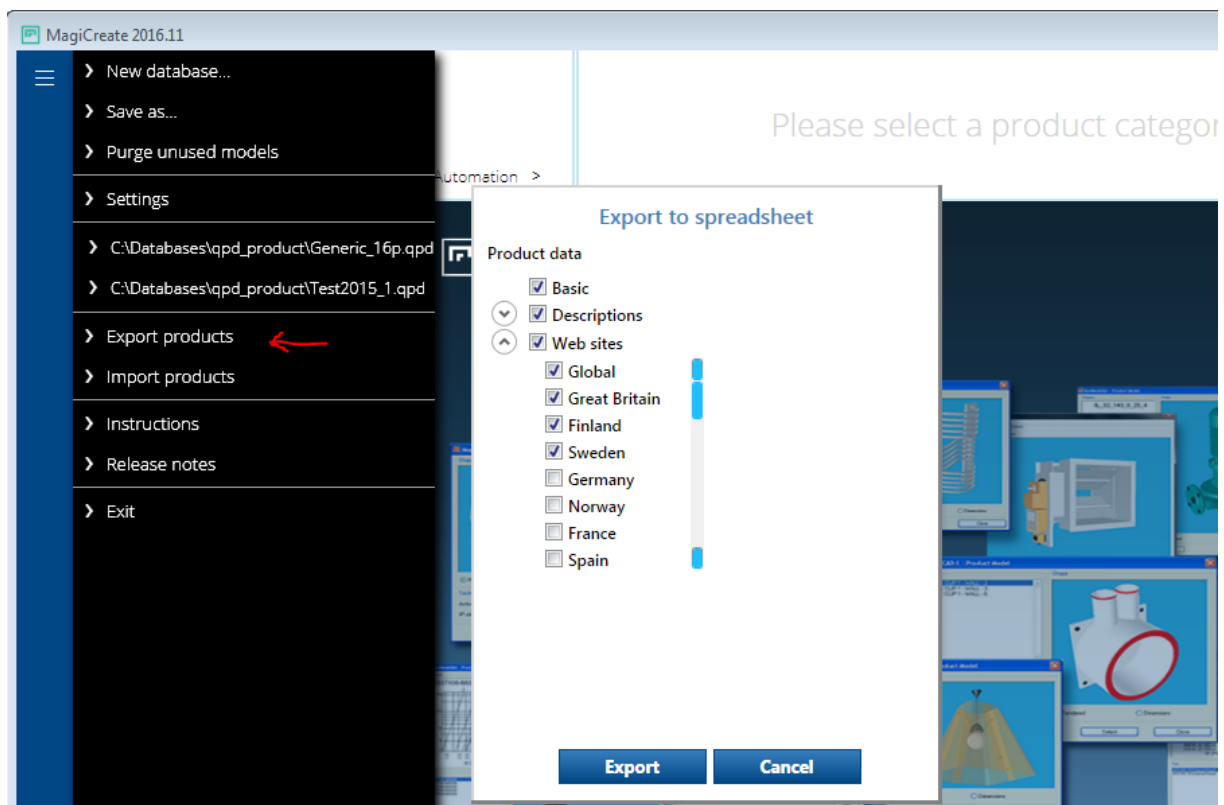


# MagiCAD Create 2016.11 – Release notes

## New features

### Export products to spreadsheet

The whole database, selected product class or selected products can be exported to a spreadsheet. The export data can consist of **Basic** data (product code, country restrictions), **Descriptions** (short product descriptions of the selected languages) and **Web sites** (of the selected countries):

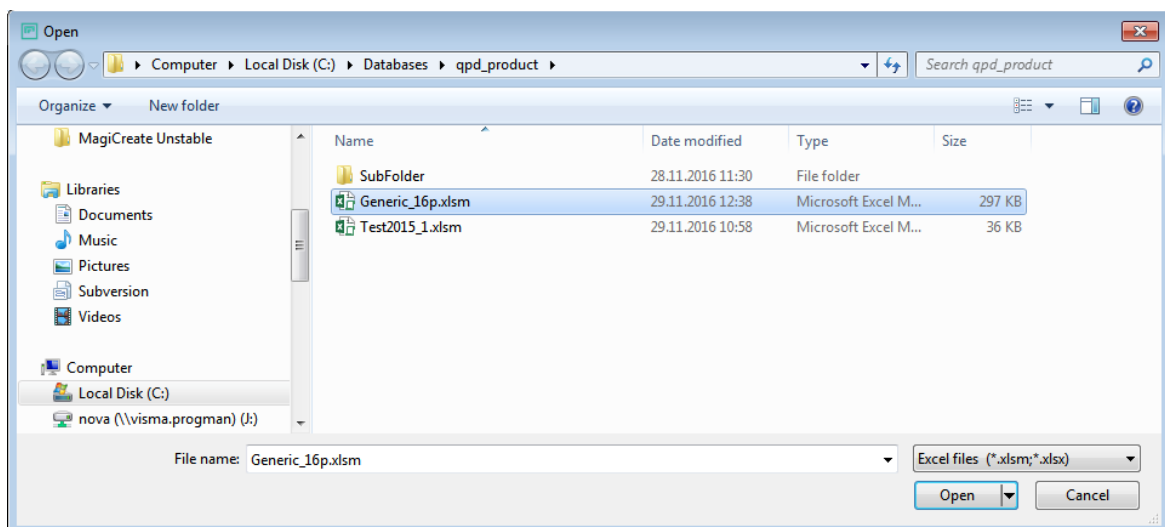
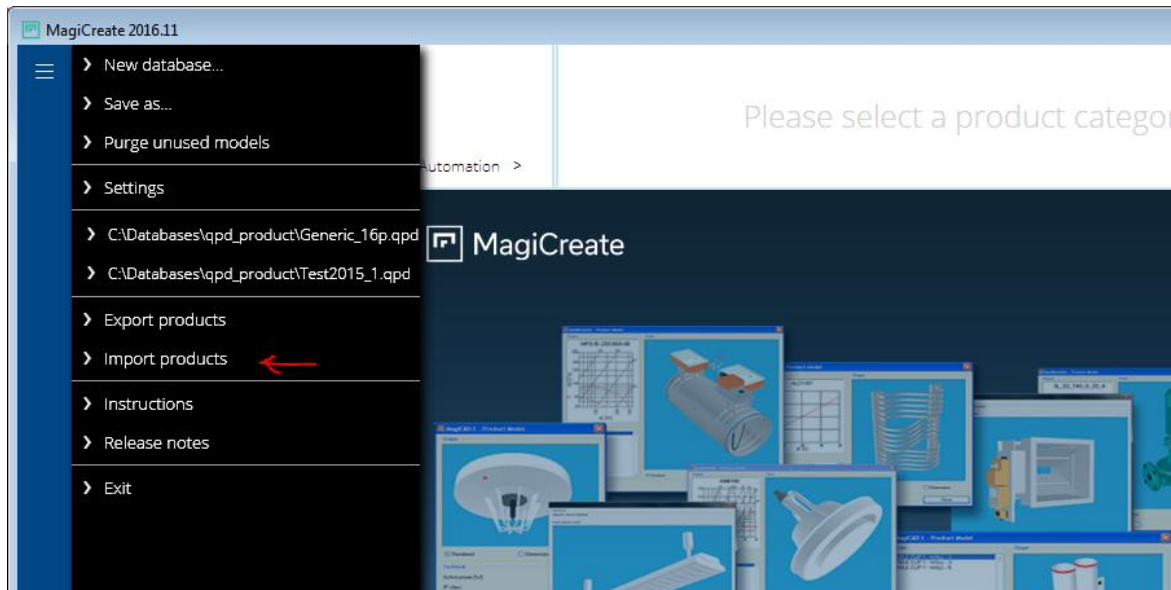


The data can be modified and supplied in the spreadsheet:

	A	B	C	D	E	F	G	H
1	MagiCAD product type	Product code	3D geometry	Restricted to countries		Short product description. Max. 60 characters.		
2						English (mandatory)	German	French
3	Exhaust air terminal devices	CIRC-EXH-GRILLE	MAGIV_CIRC-OUTD-	China,Denmark,Finland,Germany,Great	Change	Weather protection grille, circular	German description  ...	French description ....
4	Exhaust air terminal devices	CIRC-ROOF-HOOD	MAGIV_CIRC-ROOF-		Change	Exhaust air cowl, circular		
5	Exhaust air terminal devices	EXT-WALL-GRILLE	MAGIV_EXT-WALL-	Estonia,Finland,France	Change	External wall grille for exhaust		
6	Exhaust air terminal devices	RECT-EXH-GRILLE	MAGIV_RECT-EXH_G		Change	Weather protection grille,		
7	Exhaust air terminal devices	RECT-EXH-GRILLE-CIRC	MAGIV_RECT-GRIL_C		Change	Weather protection grille for circular		

## Import products from spreadsheet

After having input the data to the spreadsheet, it can be imported back to the database:





Finally, a report of the modifications is shown and the changes will be applied on accept:

Import report

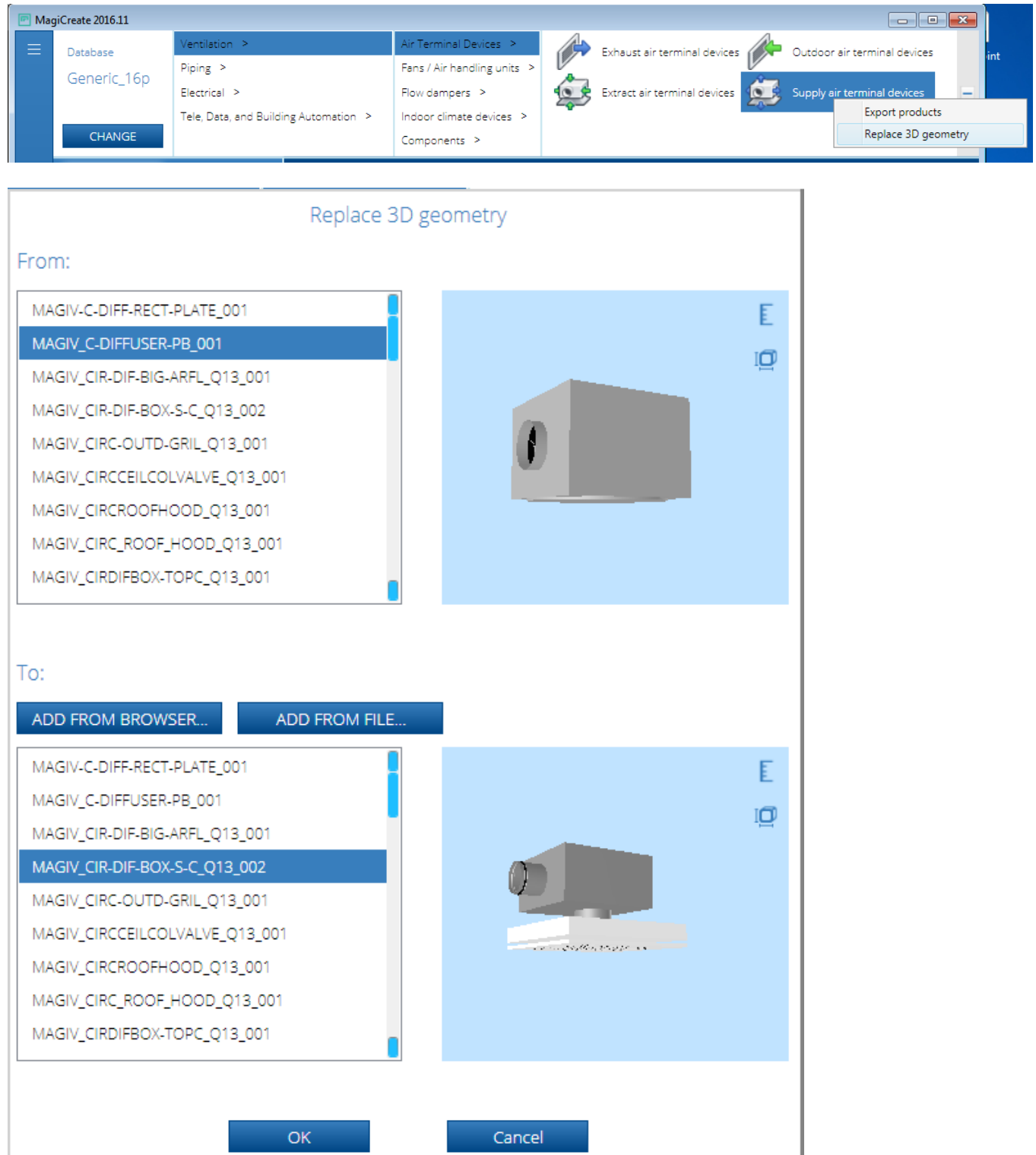
Database: Generic\_16p

Product code and type	Attribute name	Values
CIRC-EXH-GRILLE Exhaust air terminal devices	French description	Current: New: <b>French description ....</b>
	Restricted to countries	Current: New: <b>China,Denmark,Finland,Germany,Great Britain</b>
EXT-WALL-GRILLE Exhaust air terminal devices	Restricted to countries	Current: New: <b>Estonia,Finland,France</b>

Accept
Discard

## Replace 3D geometry

It is now possible to replace the products' 3D geometry. The **Replace 3D geometry** function can be found in the context menu of the selected product class:



The 3D geometry to be replaced (**From:**) and the replaced 3D geometry (**To:**) are shown at the top. All products using the original 3D geometry are selected by default.

### Replace 3D geometry

**From:**                   MAGIV\_C-DIFFUSER-PB\_001

**To:**                       MAGIV\_CIR-DIF-BOX-S-C\_Q13\_002

☐ Remove unused 3D geometry

☒ Select/Deselect All

▲ Extract air terminal devices

☒ Select/Deselect All

☒ RECT-DIFF-BOX-SIDE

▲ Supply air terminal devices

☒ Select/Deselect All

☒ CEIL-DIFF-PB-S

☒ CEIL-DIFF-PB-T

☒ RECT-DIFF-BOX-SIDE

4 products selected

OK

Cancel

Copy to clipboard

If all products are selected, the unused 3D geometry can be removed by checking the **Remove unused 3D geometry** checkbox.