



# **MagiCAD Create**

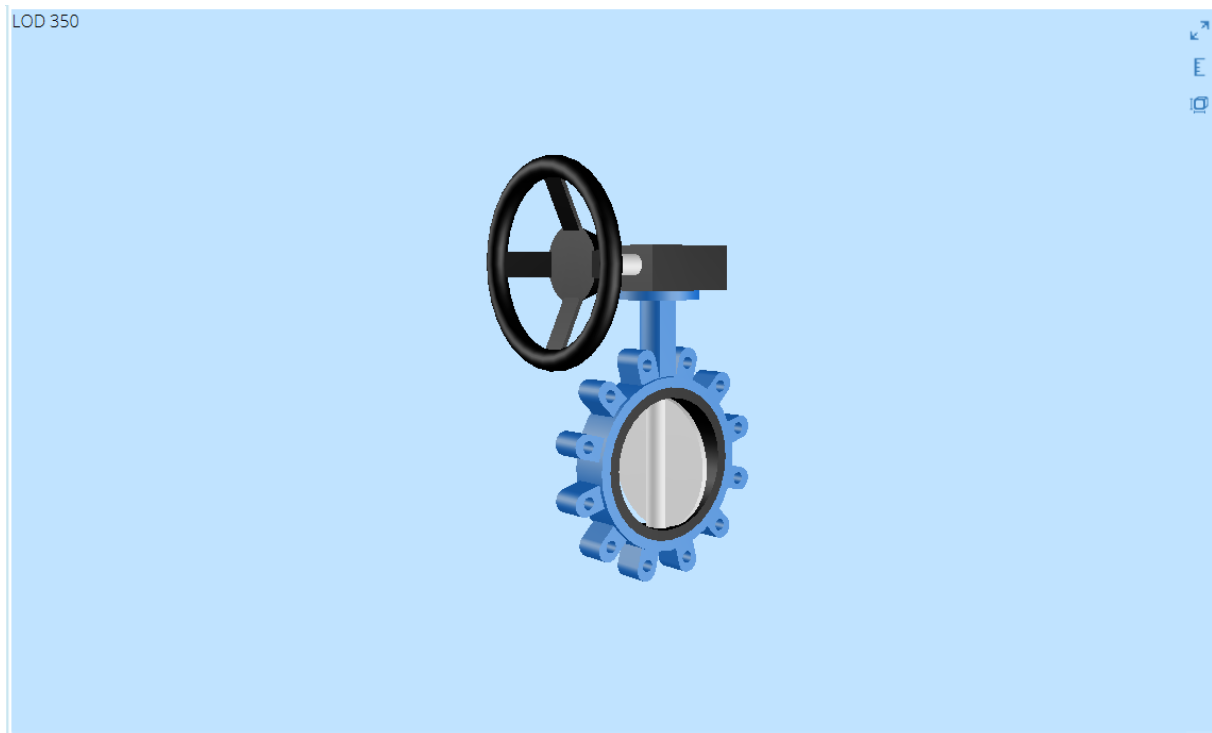
Release Notes

# 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

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

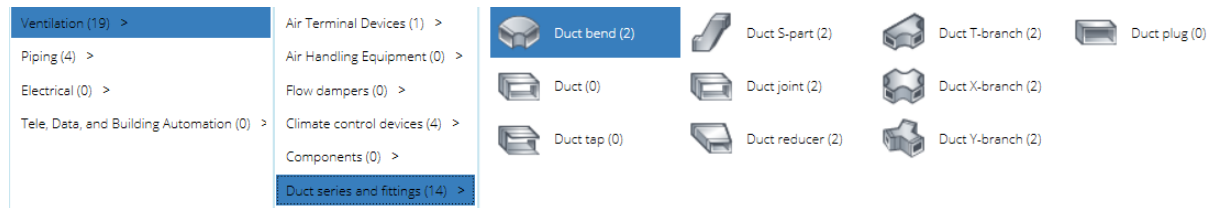
## Pressure limits

Min pressure difference (between inlet/outlet)  kPa

Max pressure ratio

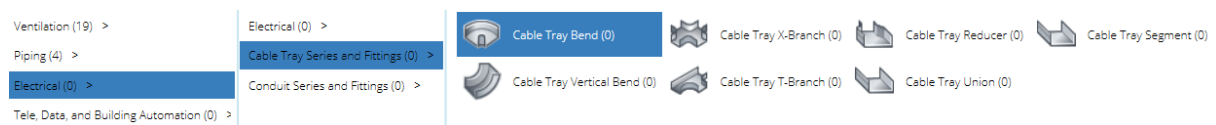
## Ducts Series and Fittings

Ducts series and fittings have been added:



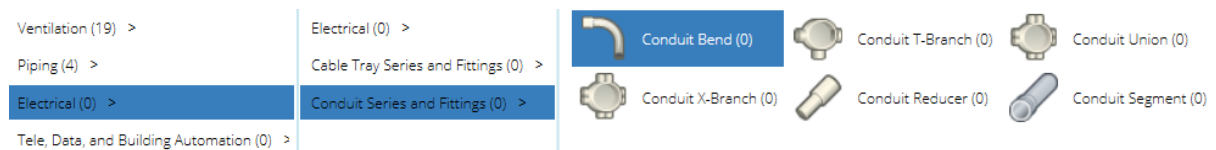
## Cable Tray Series and Fittings

Cable tray series and fittings have been added:



## Conduit Series and Fittings

Conduit series and fittings have been added:

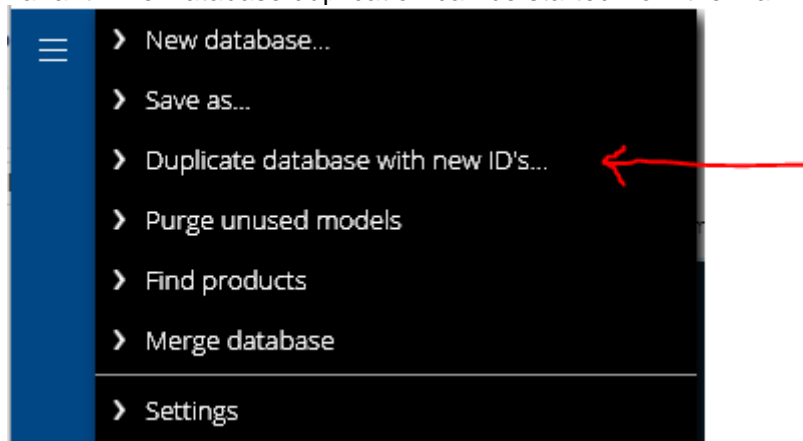


## MagiCAD Create 2019.3 – Release notes

### 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**

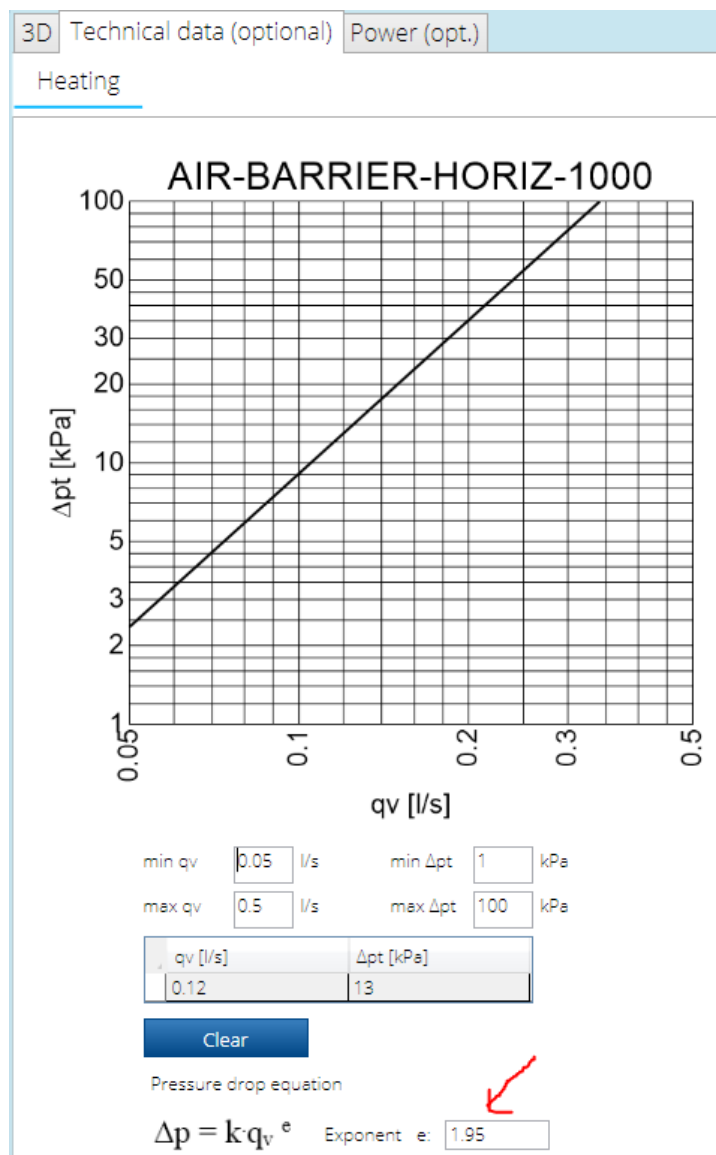
| AL                  | AM     | AN      | AO            |
|---------------------|--------|---------|---------------|
| Local product codes |        |         |               |
| Finland             | France | Germany | Great Britain |

| 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:

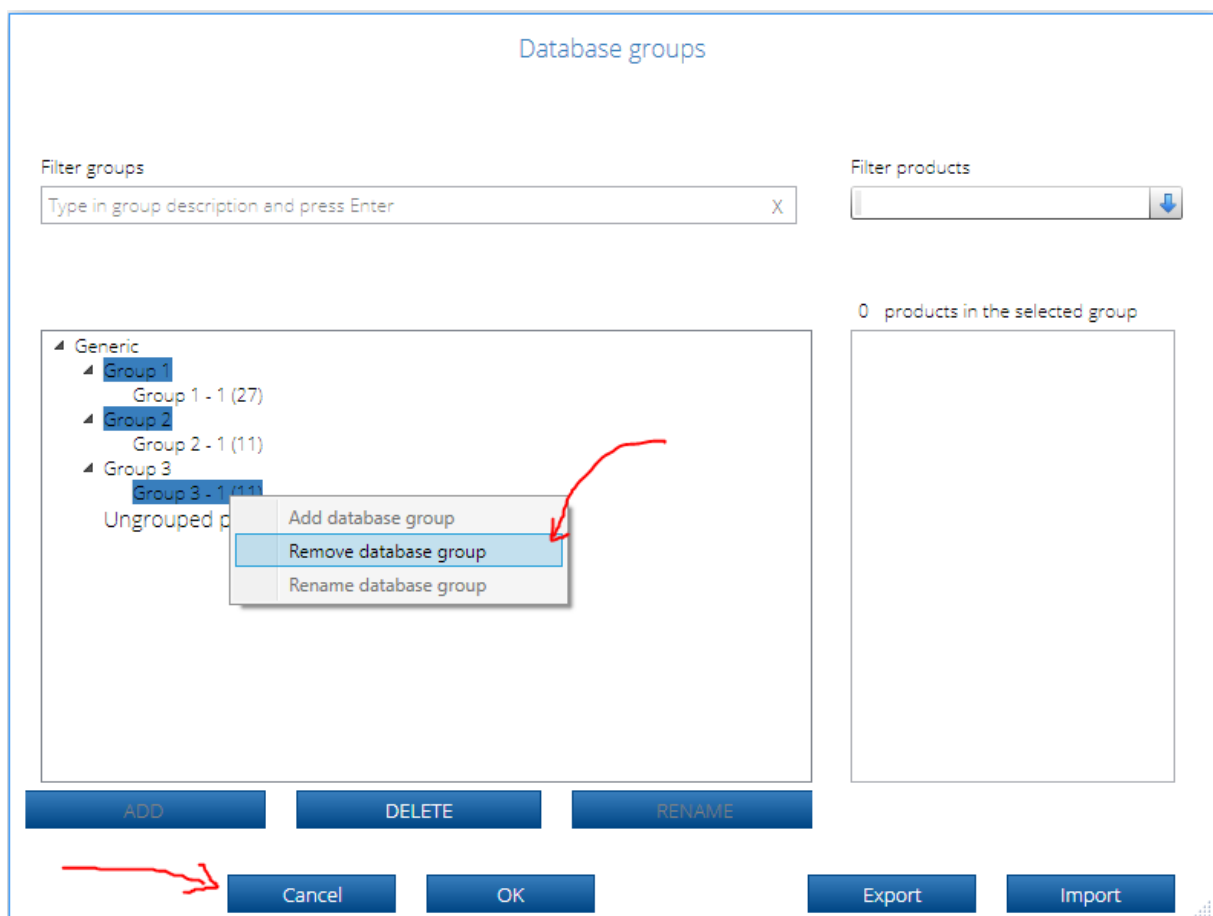


## MagiCAD Create 2019.1 – Release notes

### 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.

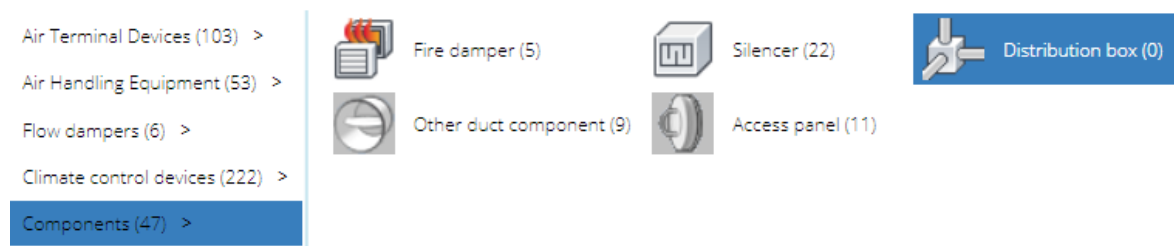
After the copy, the copied product is now always selected and visible at the product list.

## MagiCAD Create 2018.10 – Release notes

### New features

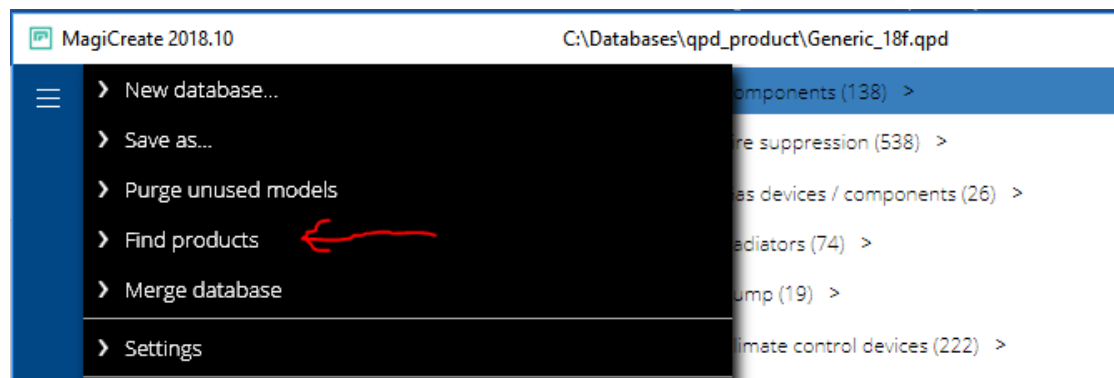
#### The modelling of Distribution box

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

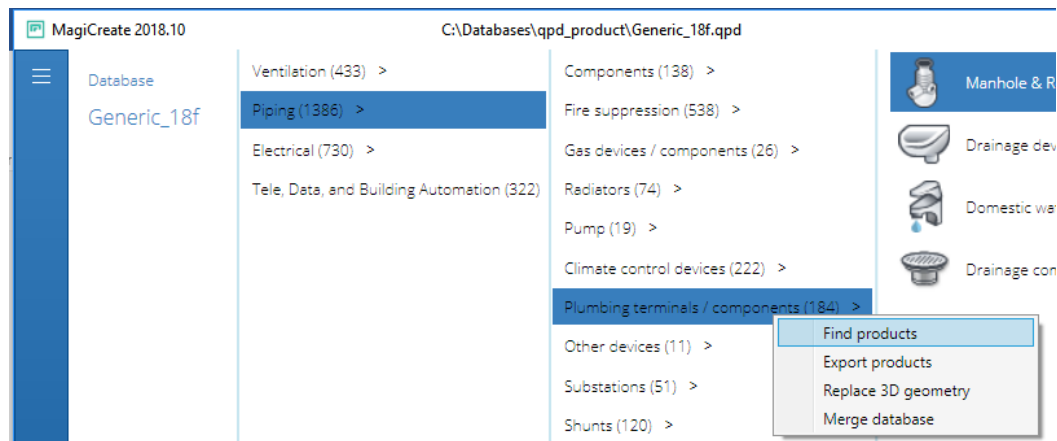


#### The 'Find product' feature extended

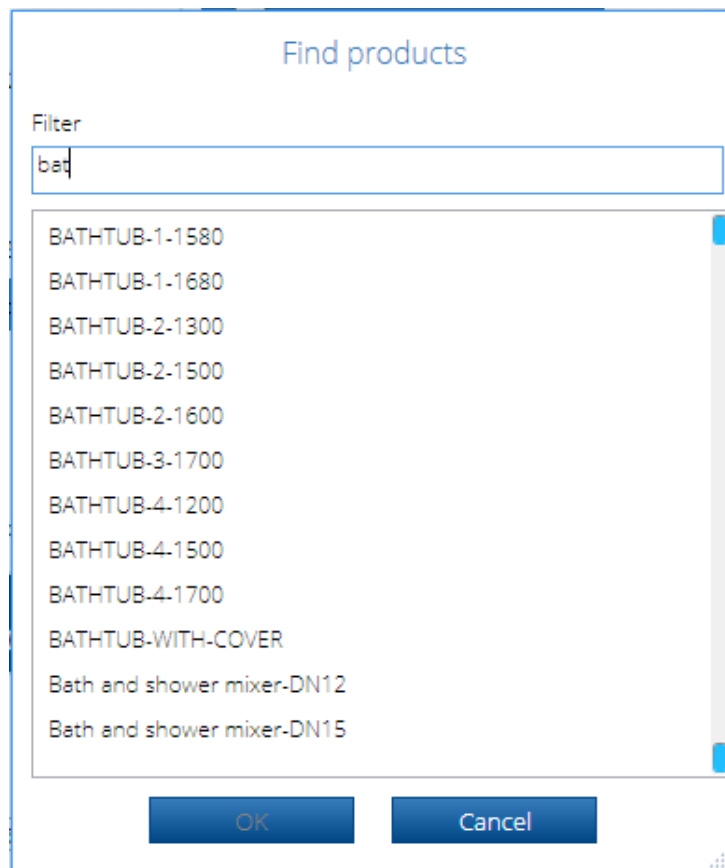
The products can now be found in the whole database, discipline, product category or product type. The **Find products** dialog can be opened from the Main menu:



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



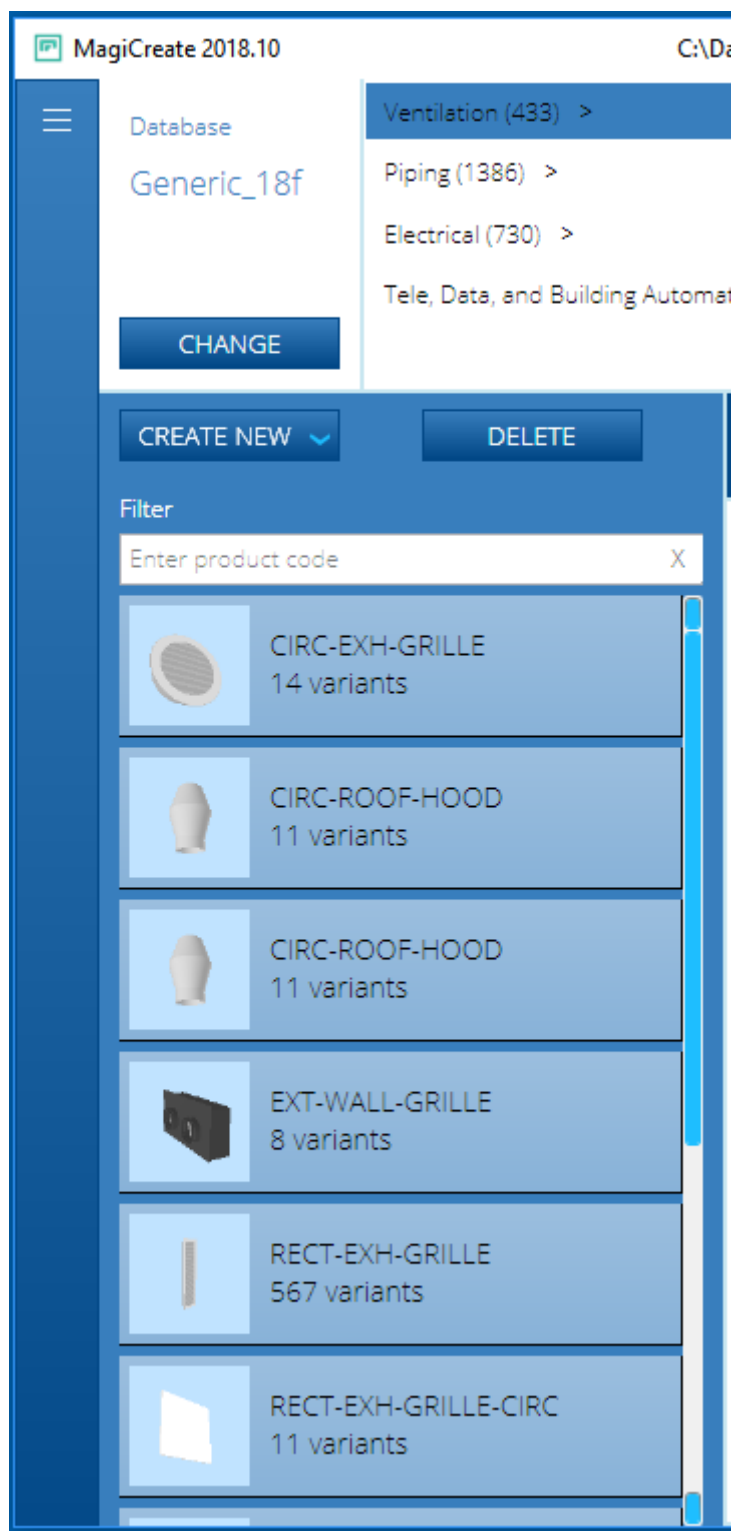
All products at the selected level (Discipline, product category or product type) are on the list of the **FindProducts** dialog:



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

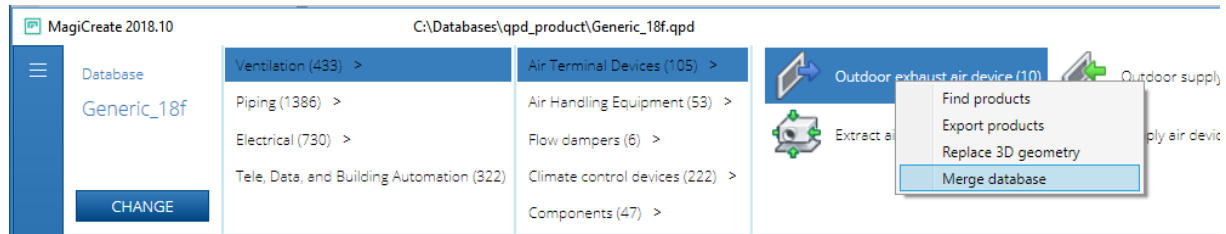
## Variant count visible in all products with several variants

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

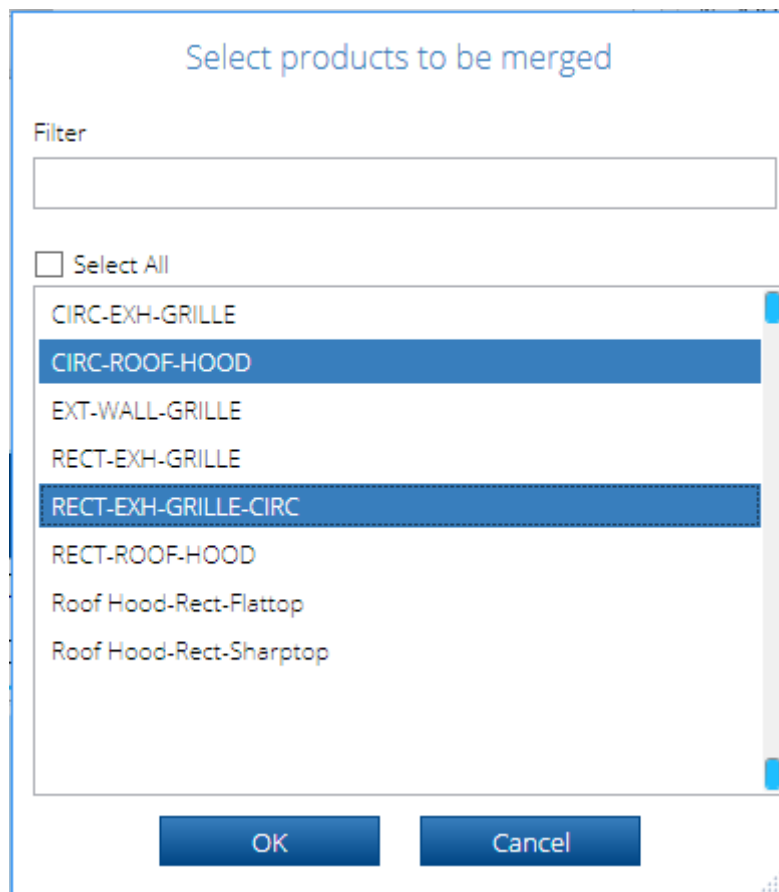


## The 'Merge database' feature extended

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

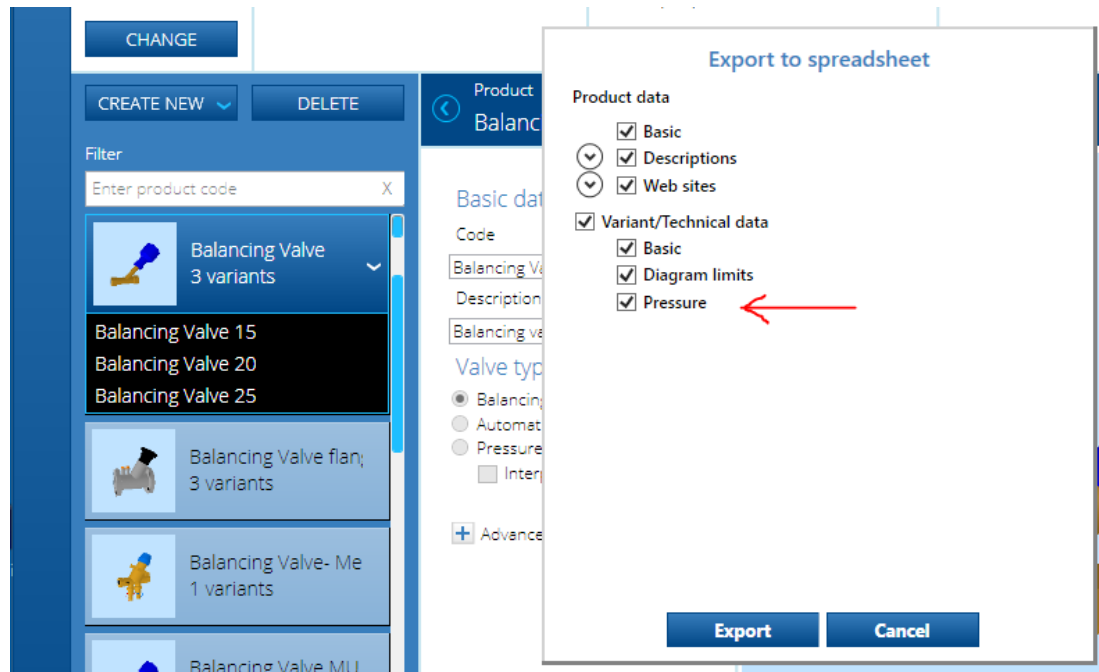


When selecting **Merge database** on the context menu, the selection dialog will open with a whole list of the products at the selected level. All products on the list can be selected, or if needed, only the ones that need to be merged.



## 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:

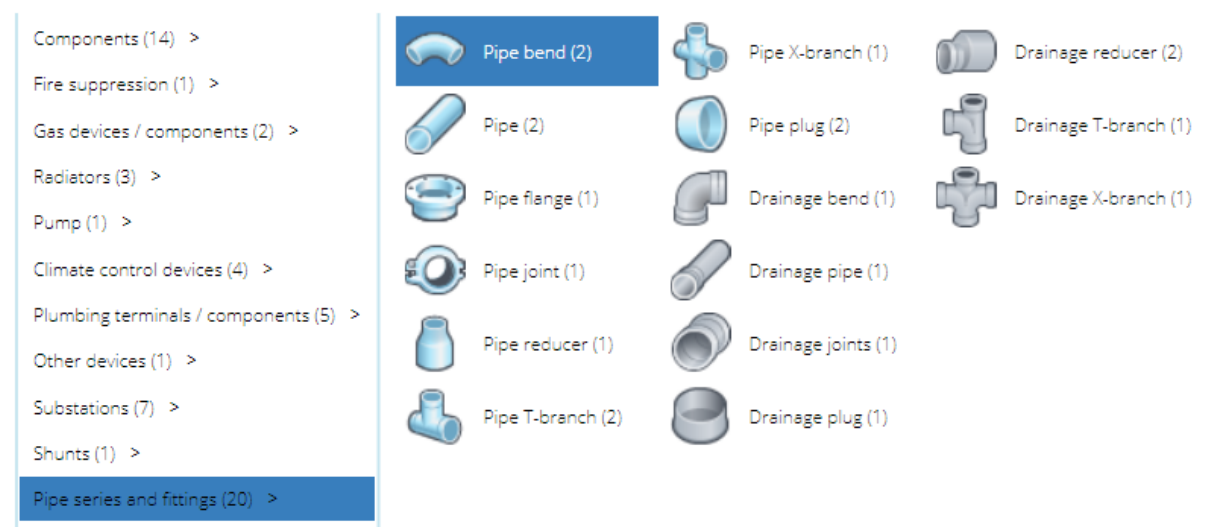
| Variant/Technical data |               |    |                             |             |
|------------------------|---------------|----|-----------------------------|-------------|
| Kvs values             |               |    | Differential pressure range |             |
| Flow                  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

## MagiCAD Create 2018.6 – Release notes

### New features

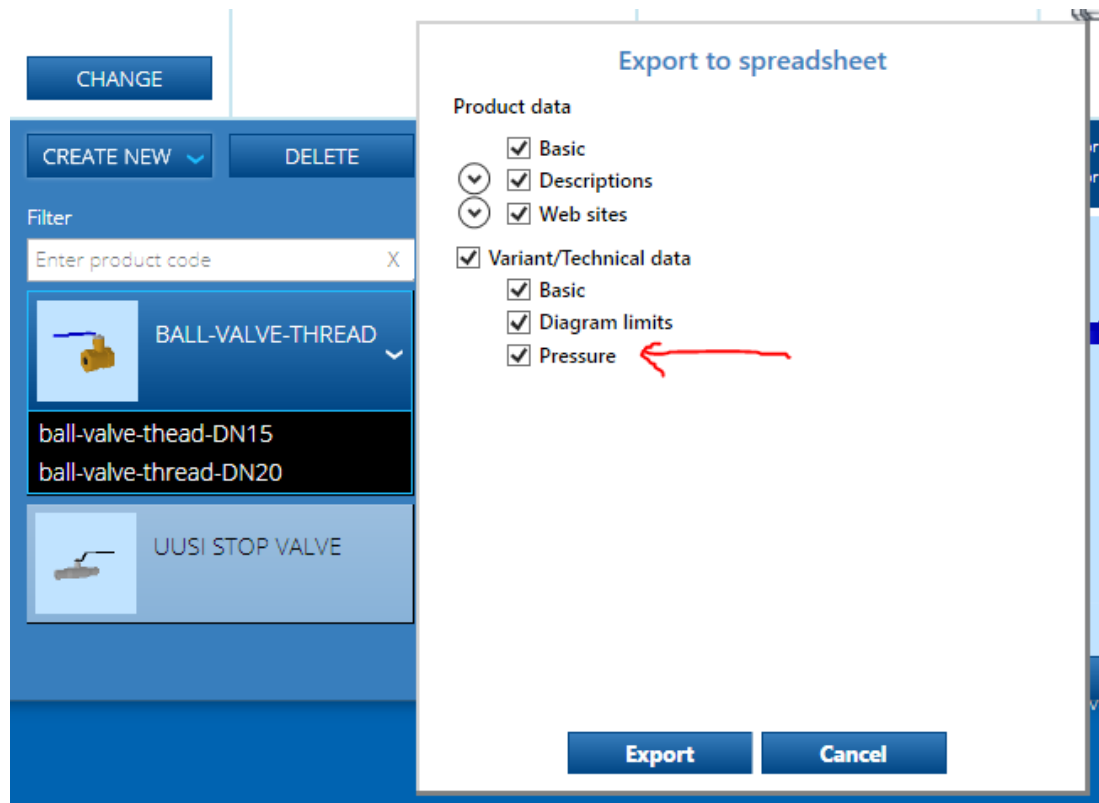
#### Modelling of Pipe series and fittings

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

0.15

Roughness for fresh water

1

Hazen-Williams factor

120

☒

Data for flexible sprinkler pipes

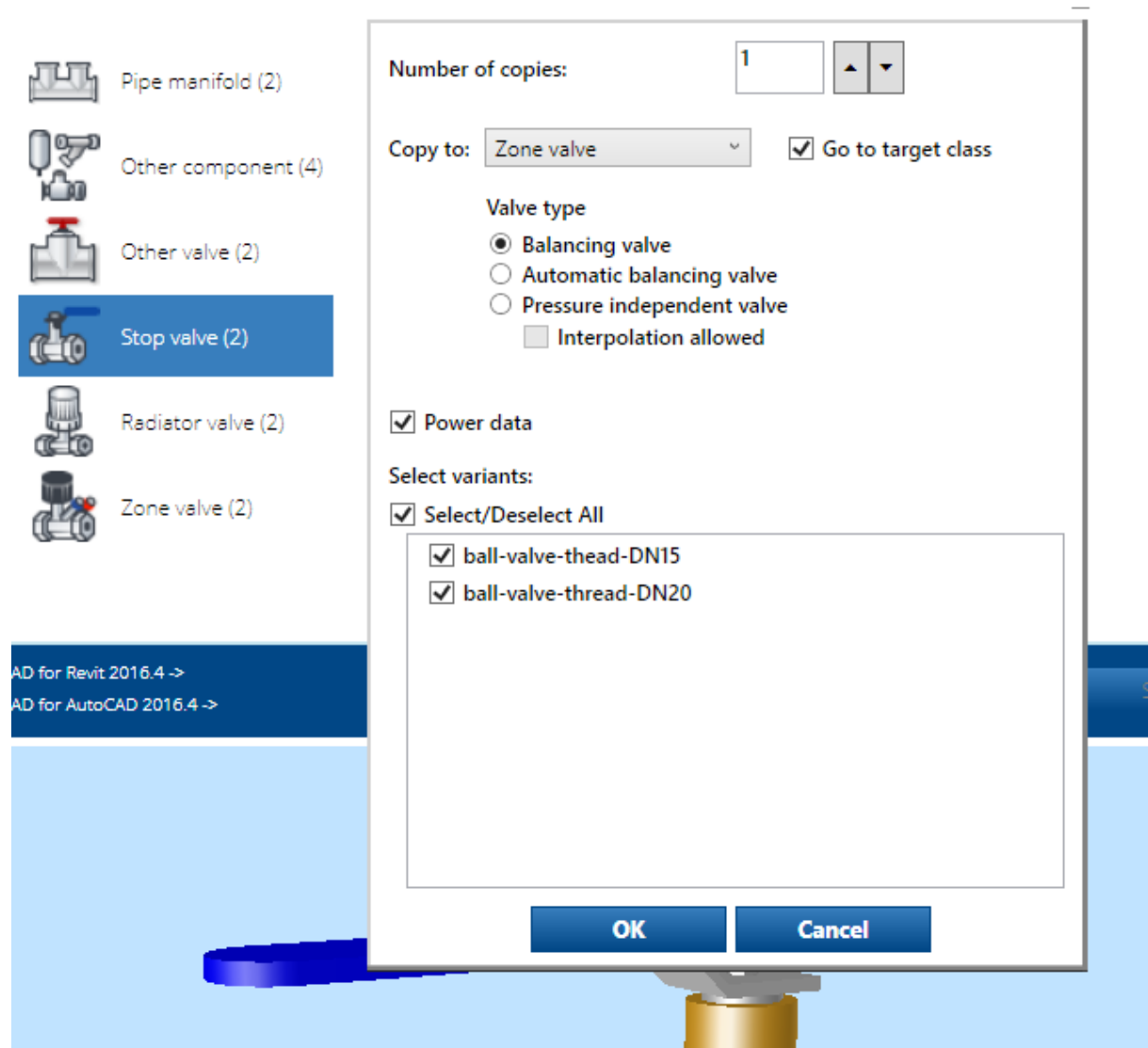
### Equivalent length, DN Size: 50

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

Add
Delete
Clear

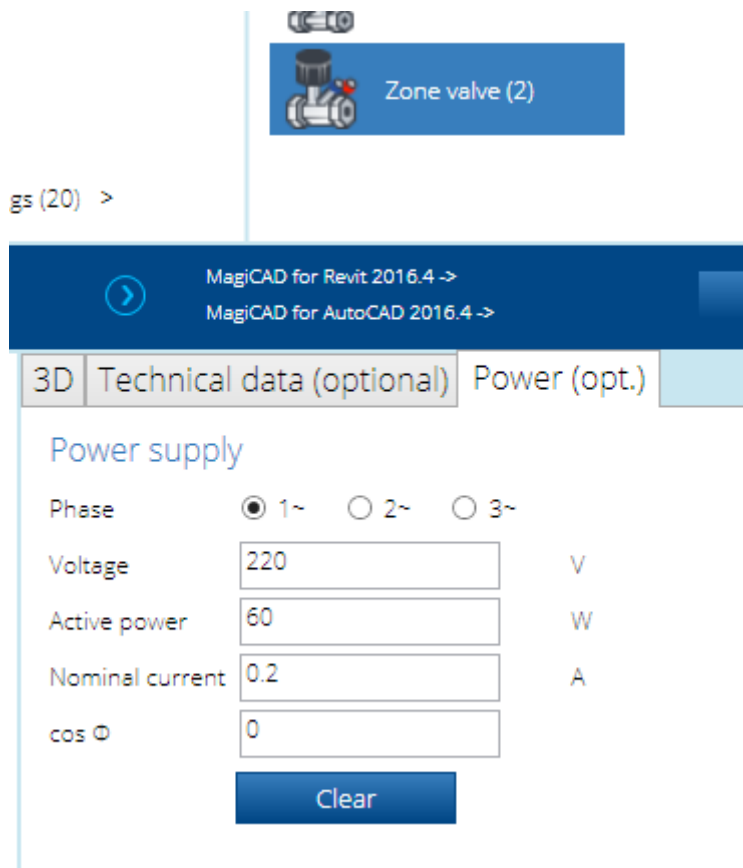
## Product copy from one product class to another extended

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  $\Phi$

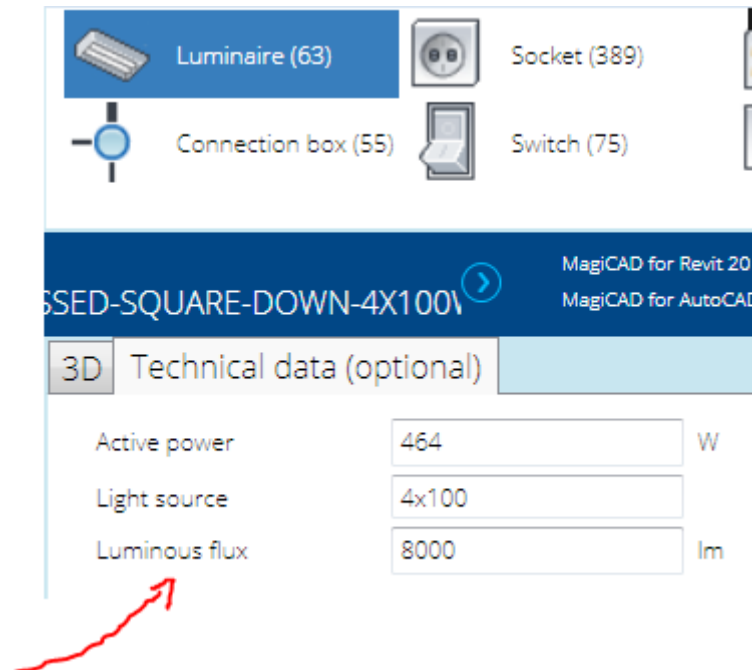
**Clear**

# MagiCAD Create 2018.3 – Release notes

## New features

### Luminous flux

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



## 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)



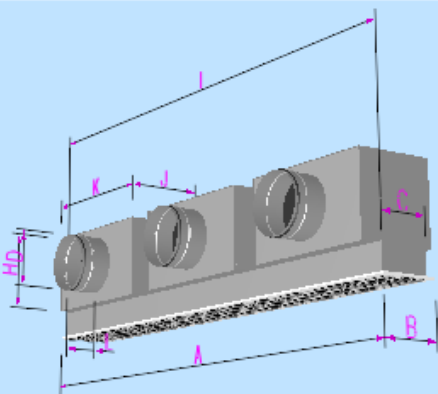
Supply air device (6)

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

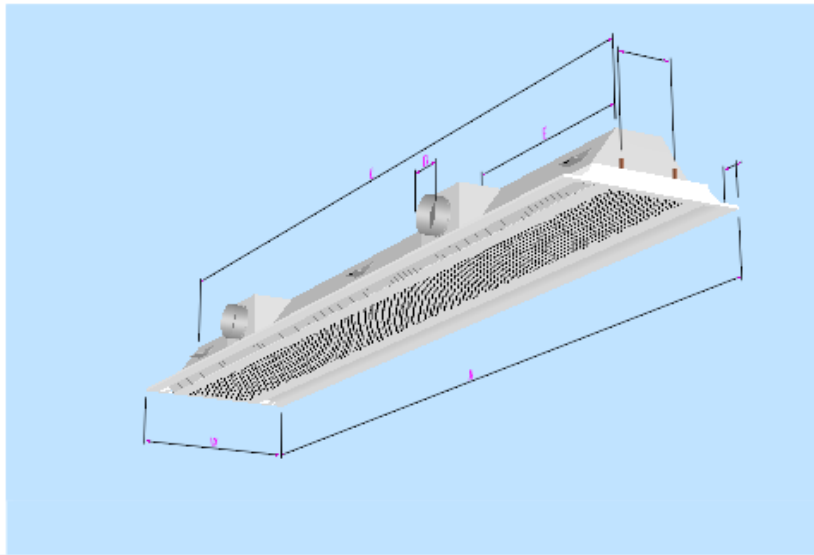
Ventilation (opt.)

Piping (opt.)

Power (opt.)

Dimensions

---



Dimensions [mm] and parameters

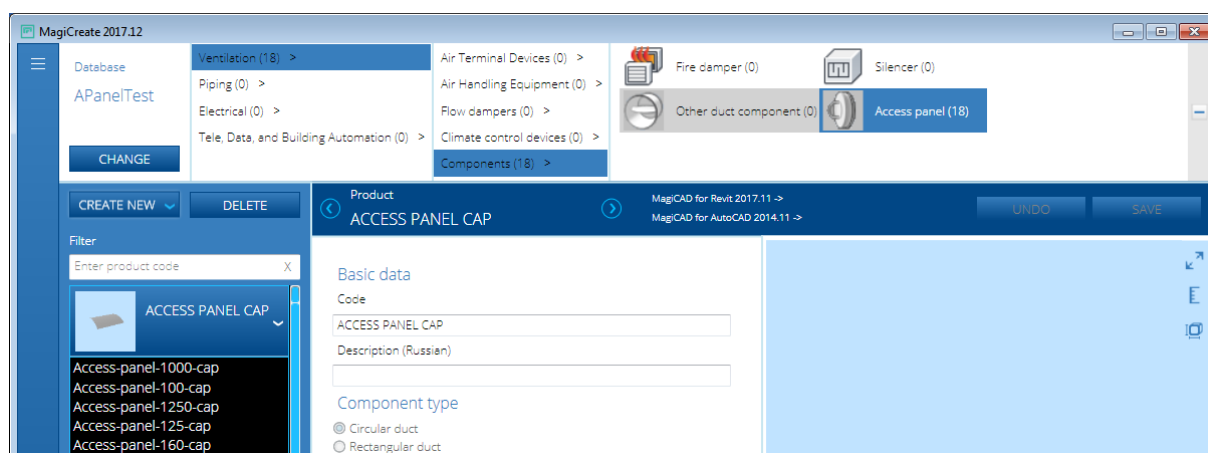
| Description                   | Label | Value |
|-------------------------------|-------|-------|
| Connection diameter           | D     | 125   |
| Total length                  | A     | 2992  |
| Duct diameter                 | D1    | 15    |
| Spigot: front/1r/2r/1top/2top | MT    | 3     |
|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

# MagiCAD Create 2017.12 – Release notes

## New features

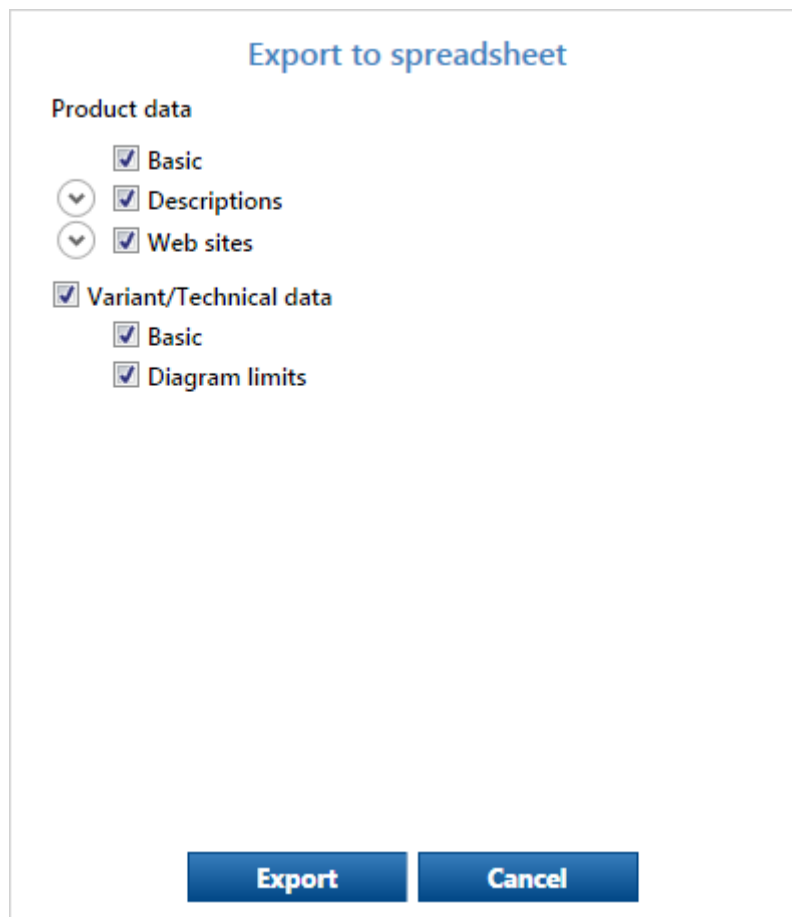
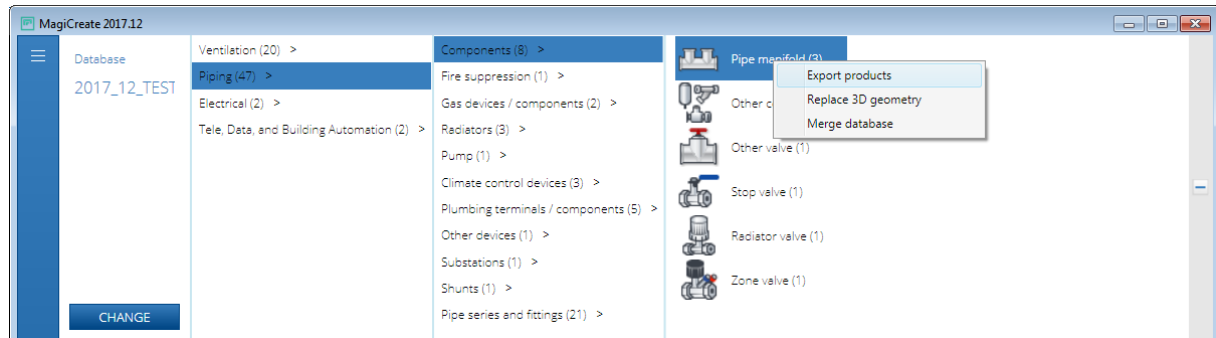
### Modelling of Access panel

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



## The 'Export products to spreadsheet' feature extended

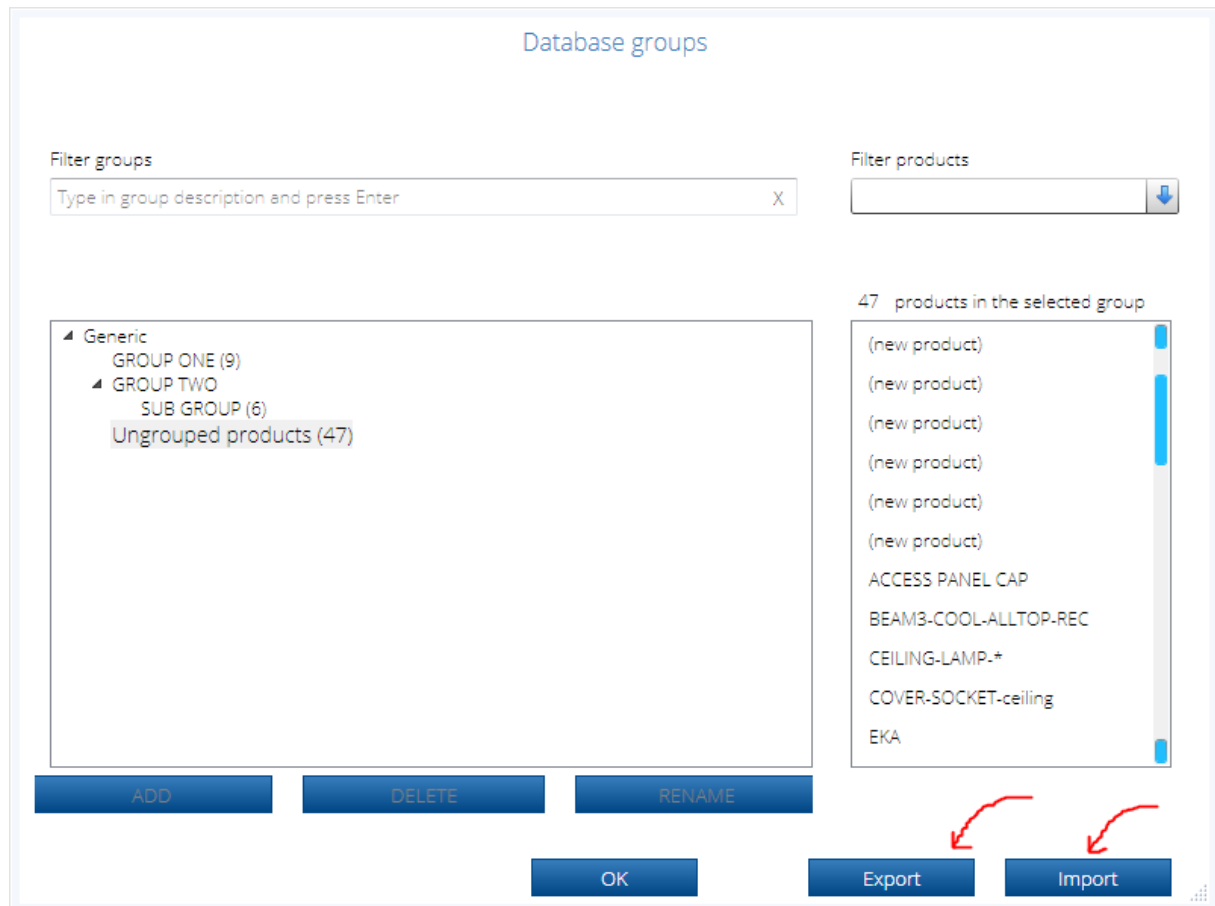
Basic technical data can be exported from all **Piping** products.





## 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.

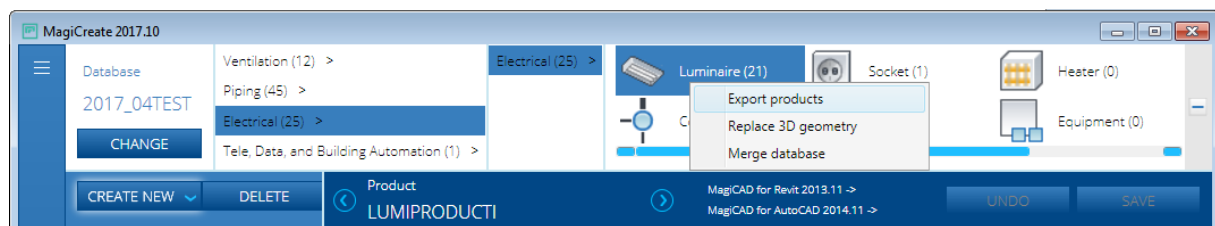


# MagiCAD Create 2017.10 – Release notes

## 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

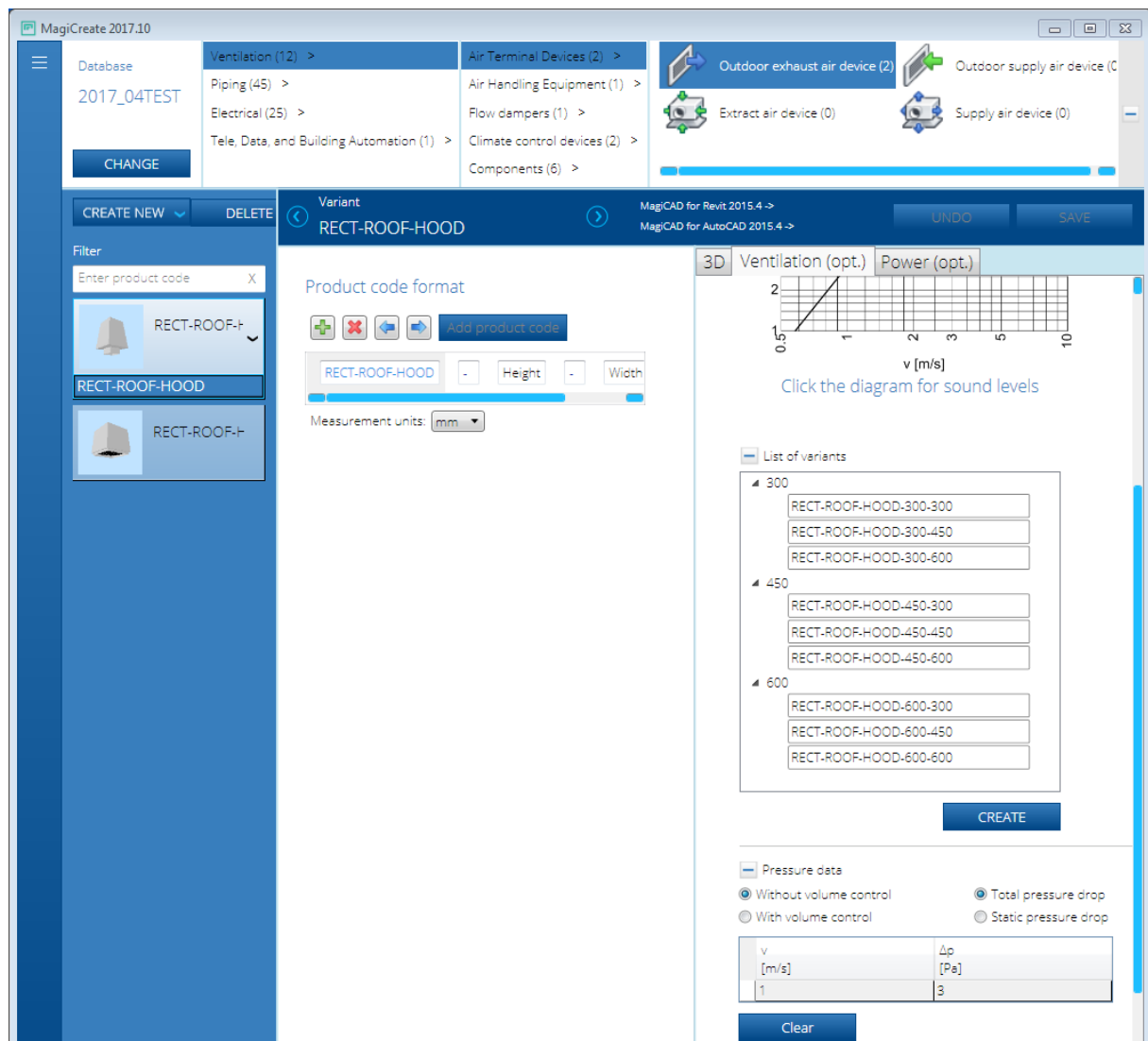
| Market area            | Website    | Code                                 | Available                |
|------------------------|------------|--------------------------------------|--------------------------|
| Russia                 | www.r.com  | market area code for russian markets | <input type="checkbox"/> |
| 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

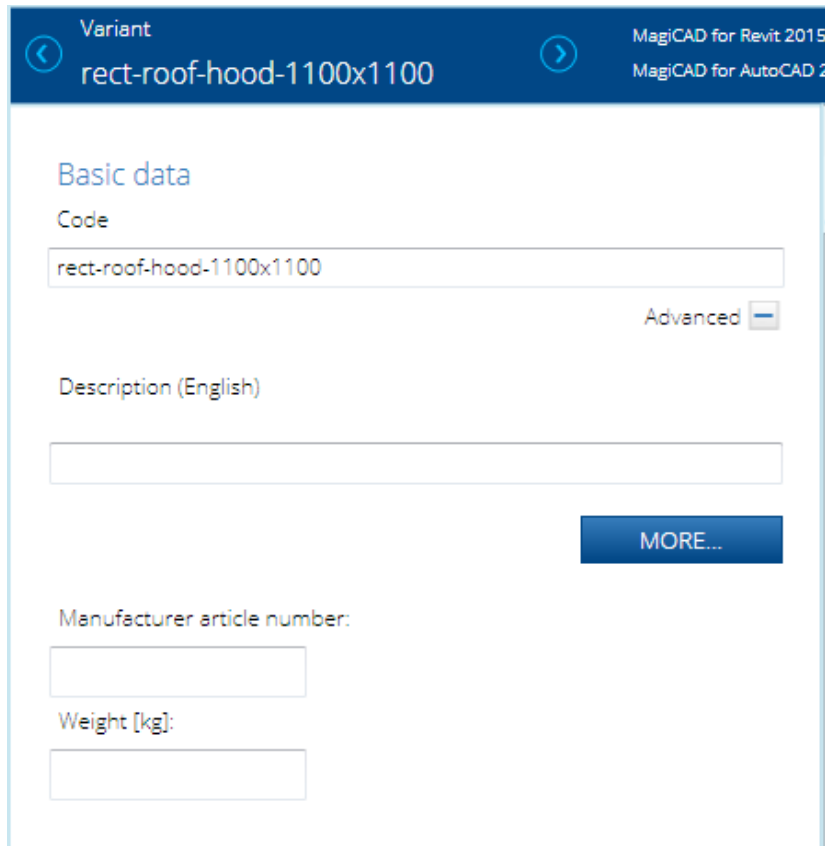
## Improved modelling of the Air Terminal Devices

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:

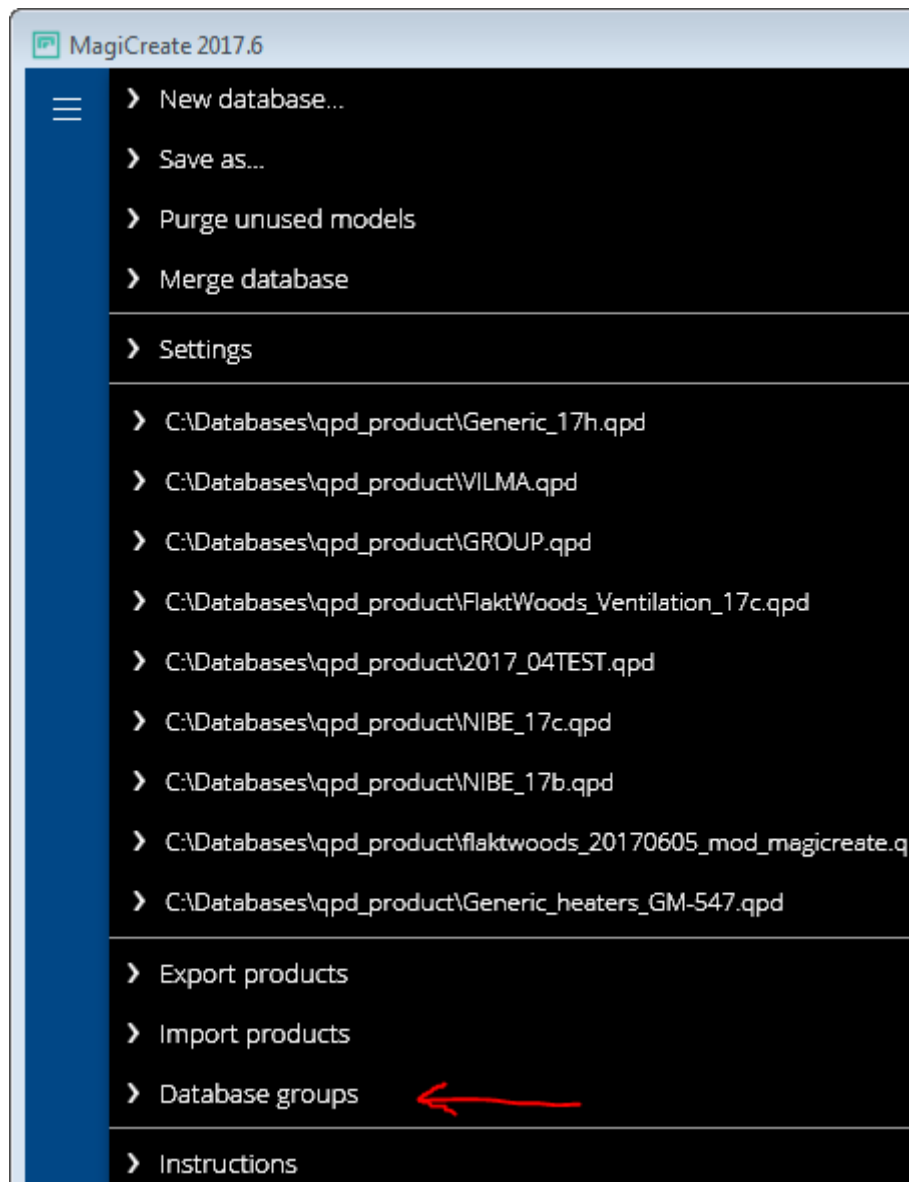
Weight [kg]:

# MagiCAD Create 2017.6 – Release notes

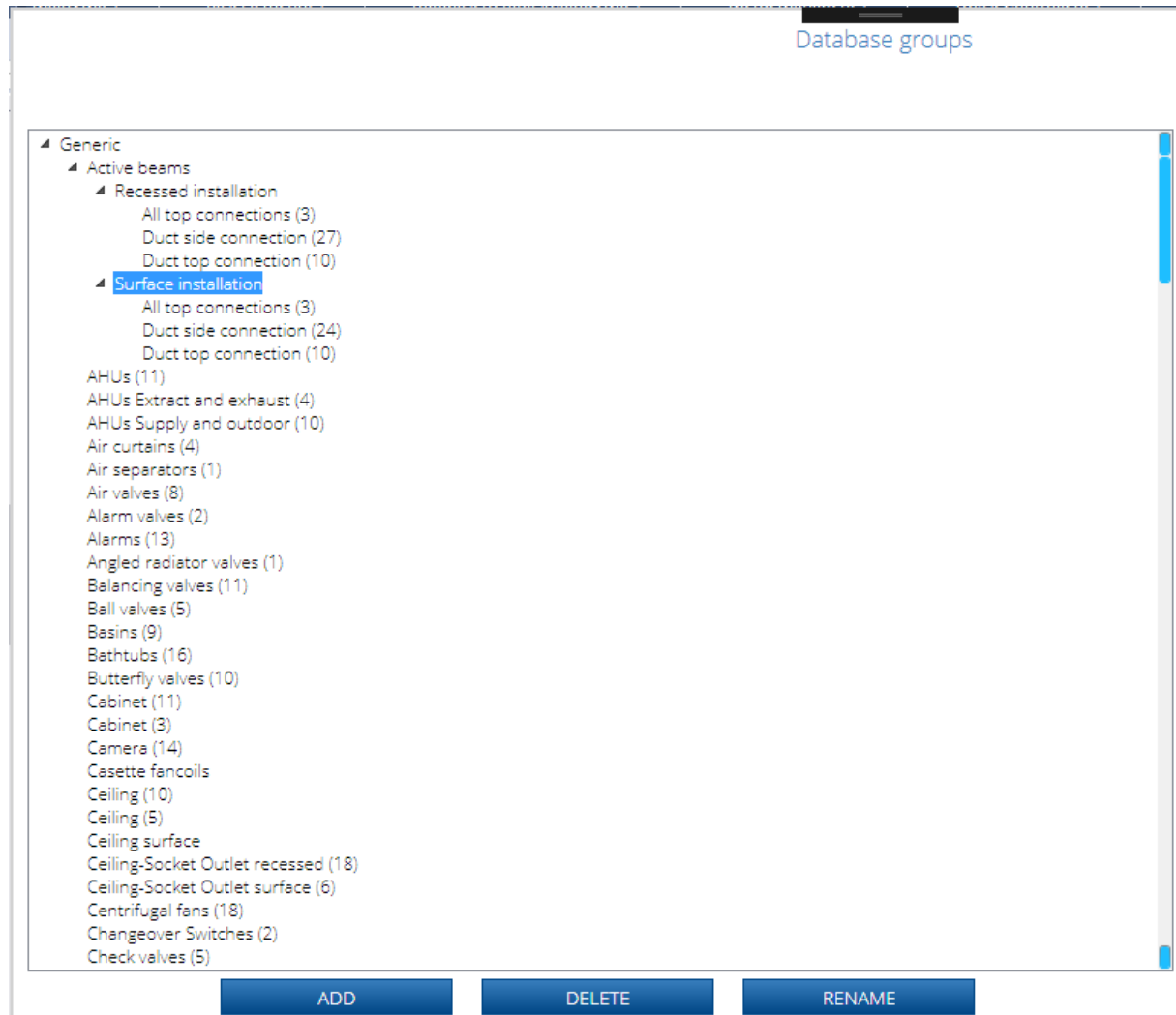
## New features

### 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.



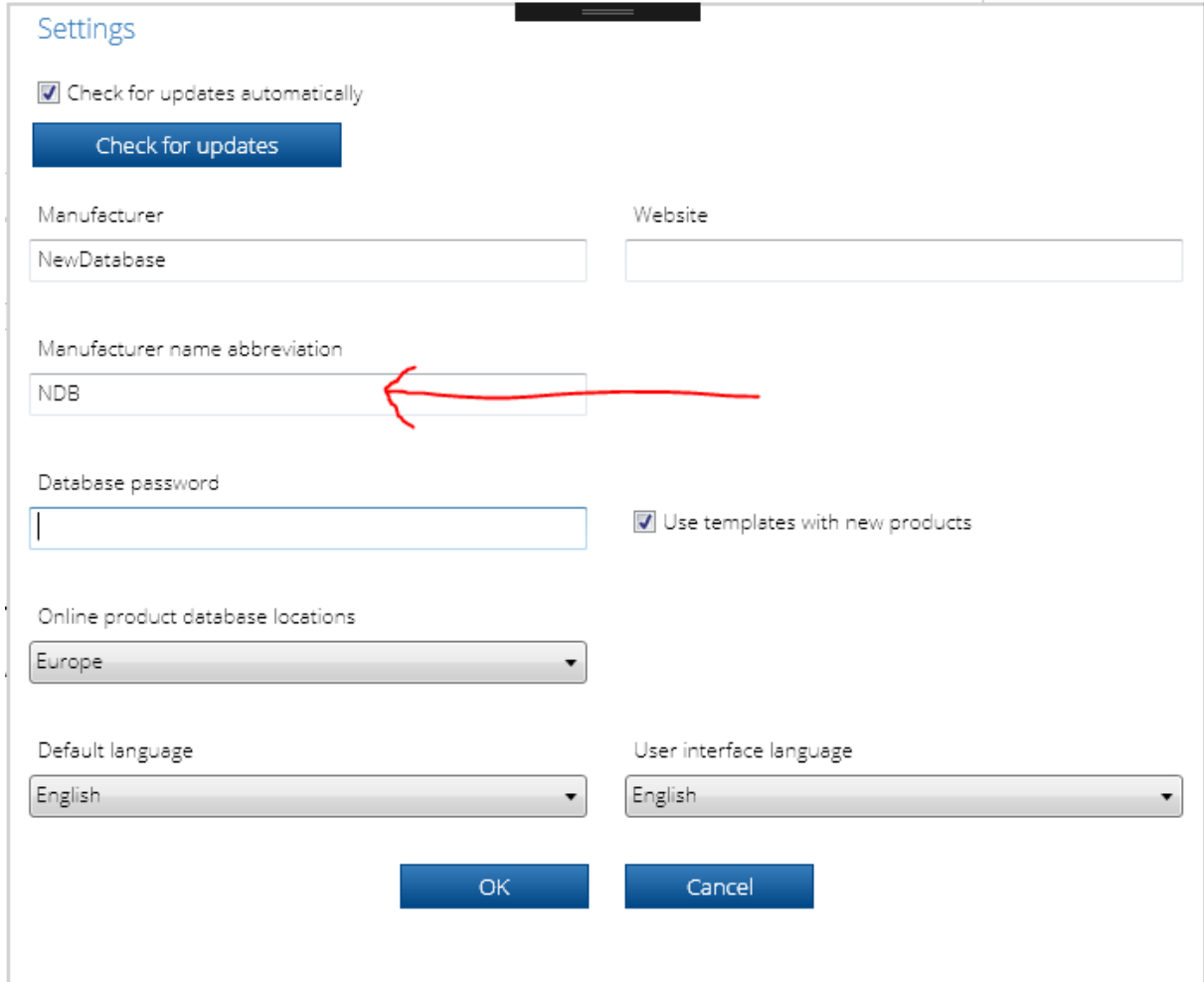
When starting **Database groups** in a new database, all existing products will automatically be connected to the **Undefined** group.





## 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

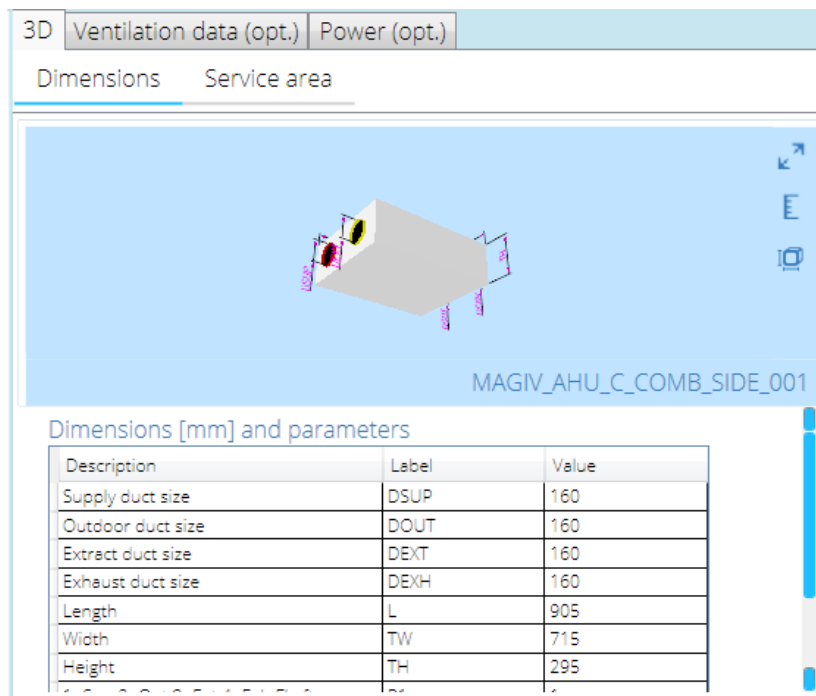
User interface language: English

OK Cancel

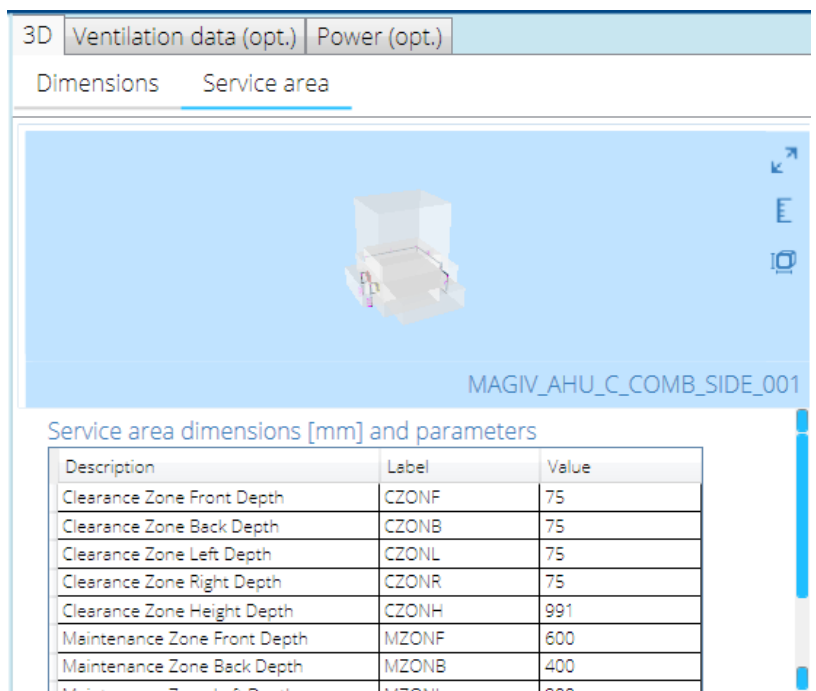
The **Manufacturer name abbreviation** value in this field will be saved for every product in the database. It is not visible in MagiCAD Create.

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

### Dimensions:



### Service area:



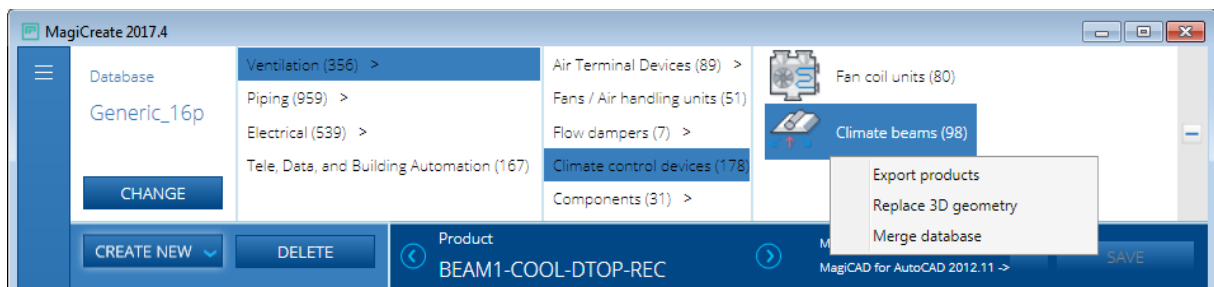
The **Service area** sub tab only exists with parameters starting with “CZ” or “MZ” in the 3D Geometry.

# MagiCAD Create 2017.4 – Release notes

## New features

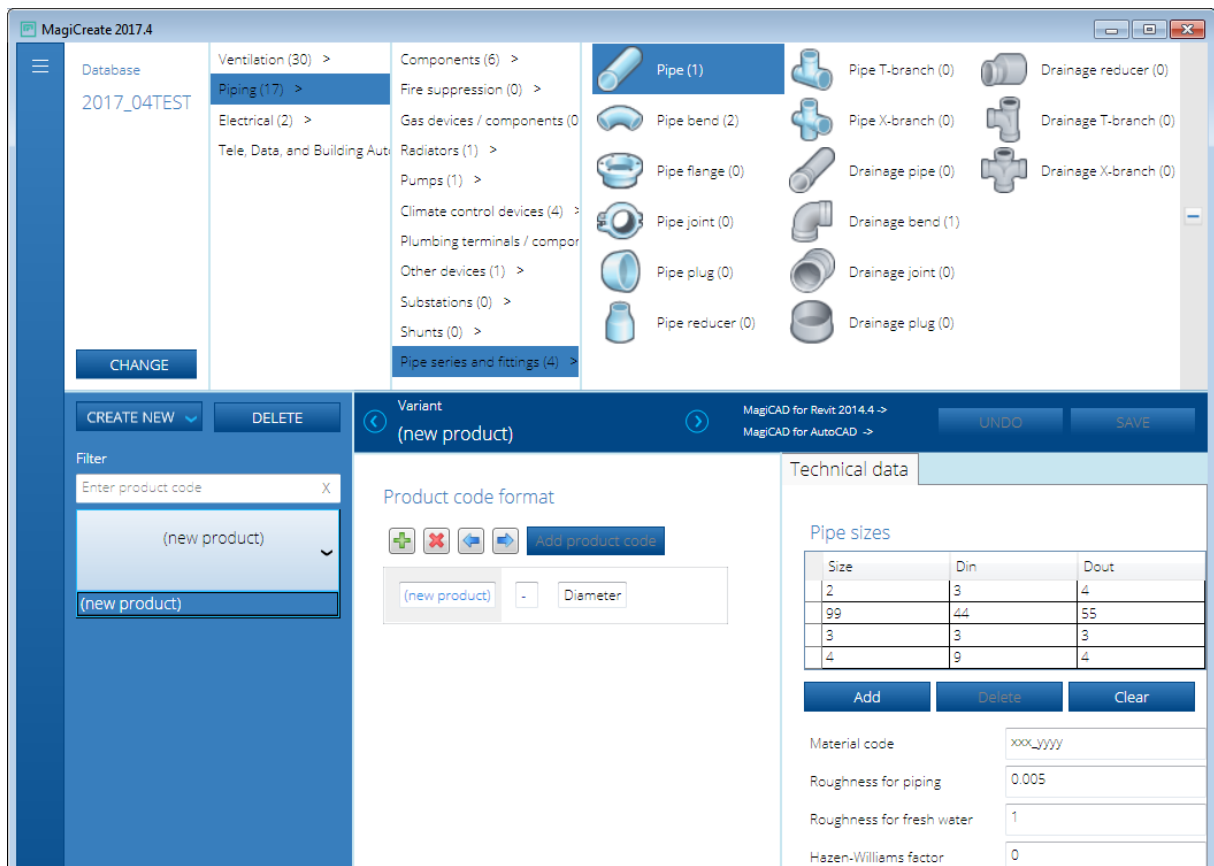
### ‘Export products to spreadsheet’ feature extended

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



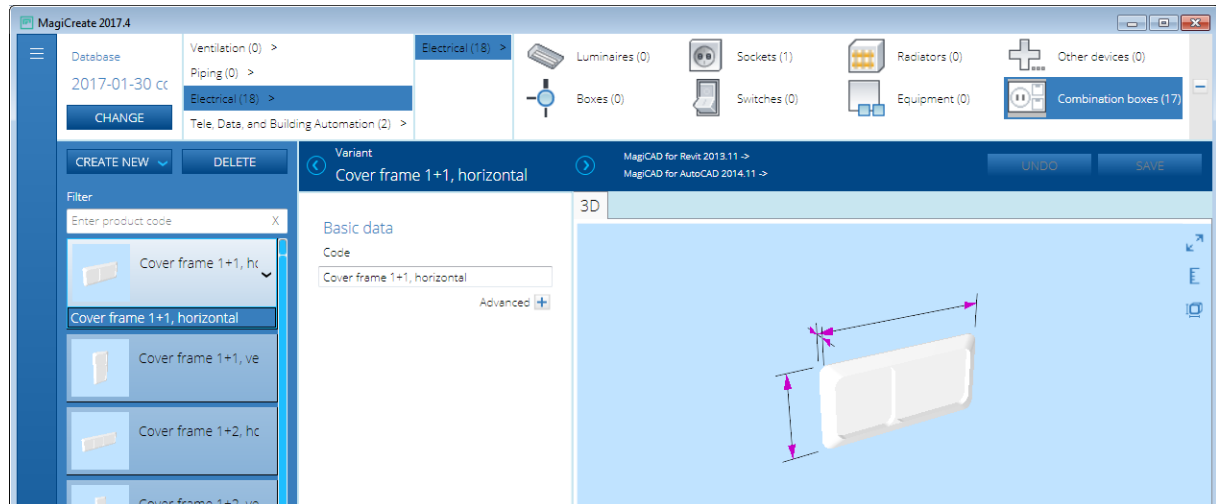
## Modelling of Pipe series and fittings

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



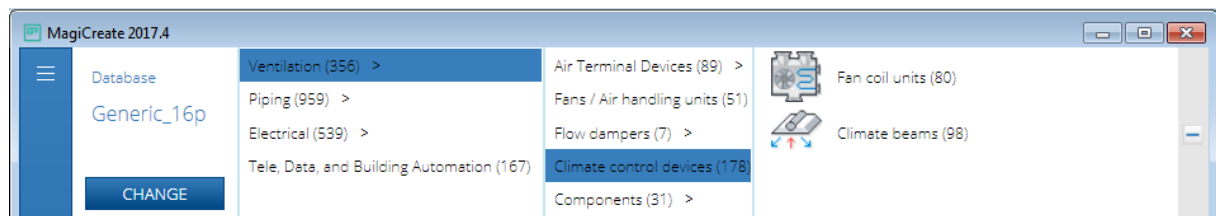
## Modelling of Combination boxes

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.

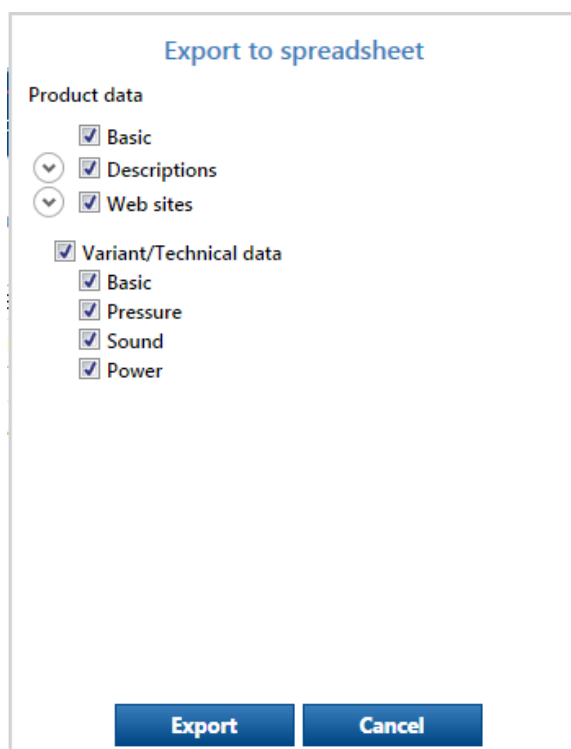
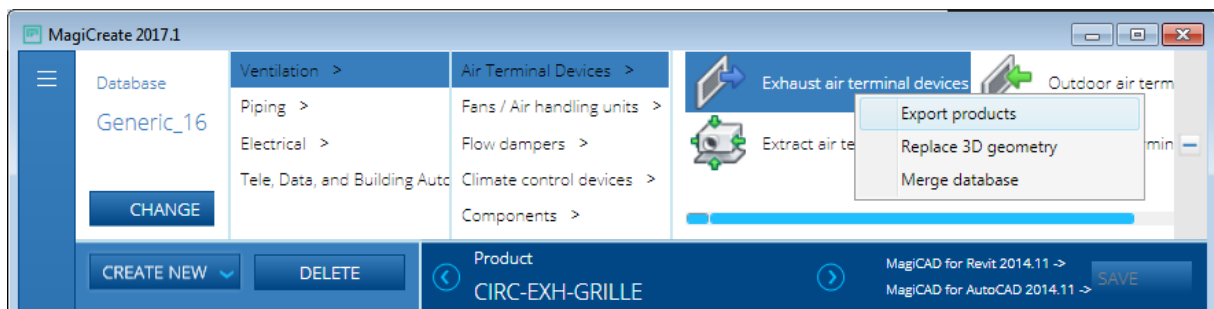


# MagiCAD Create 2017.1 – Release notes

## New features

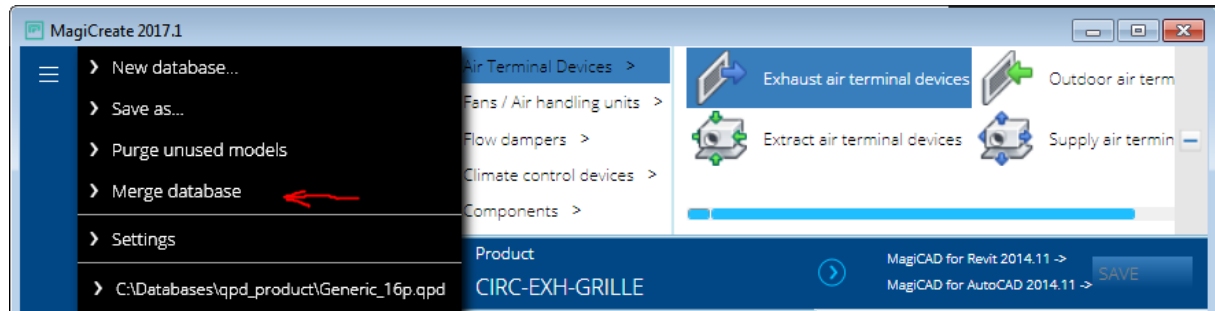
### ‘Export products to spreadsheet’ feature extended

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.

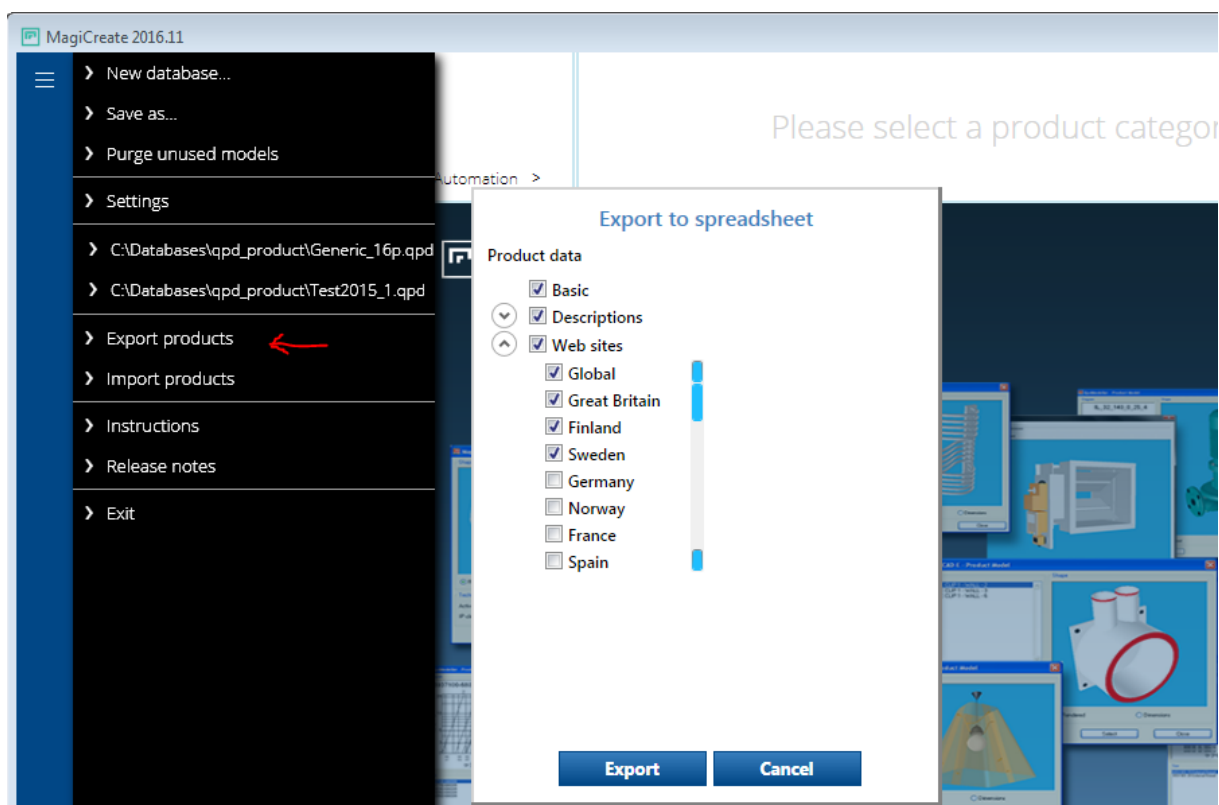


# MagiCAD Create 2016.11 – Release notes

## 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):

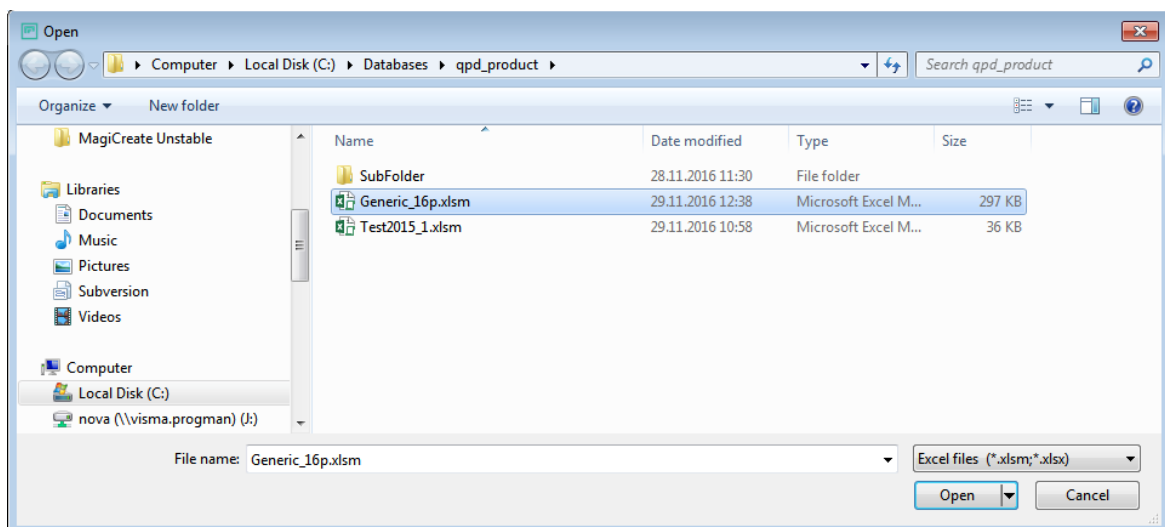
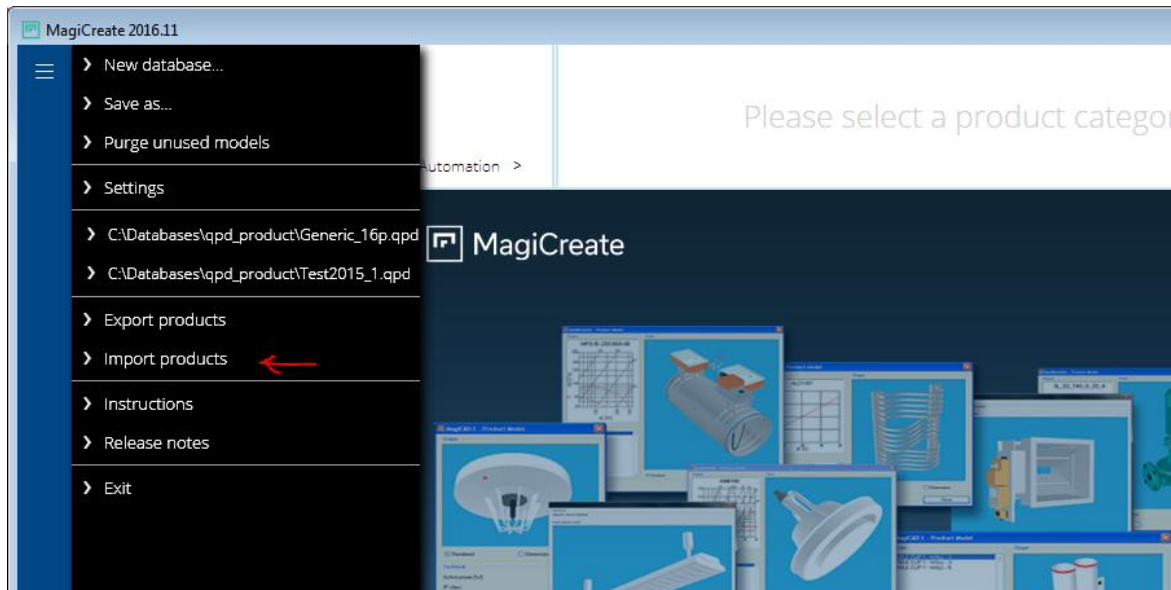


The data can be modified and supplied in the spreadsheet:

|   | 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

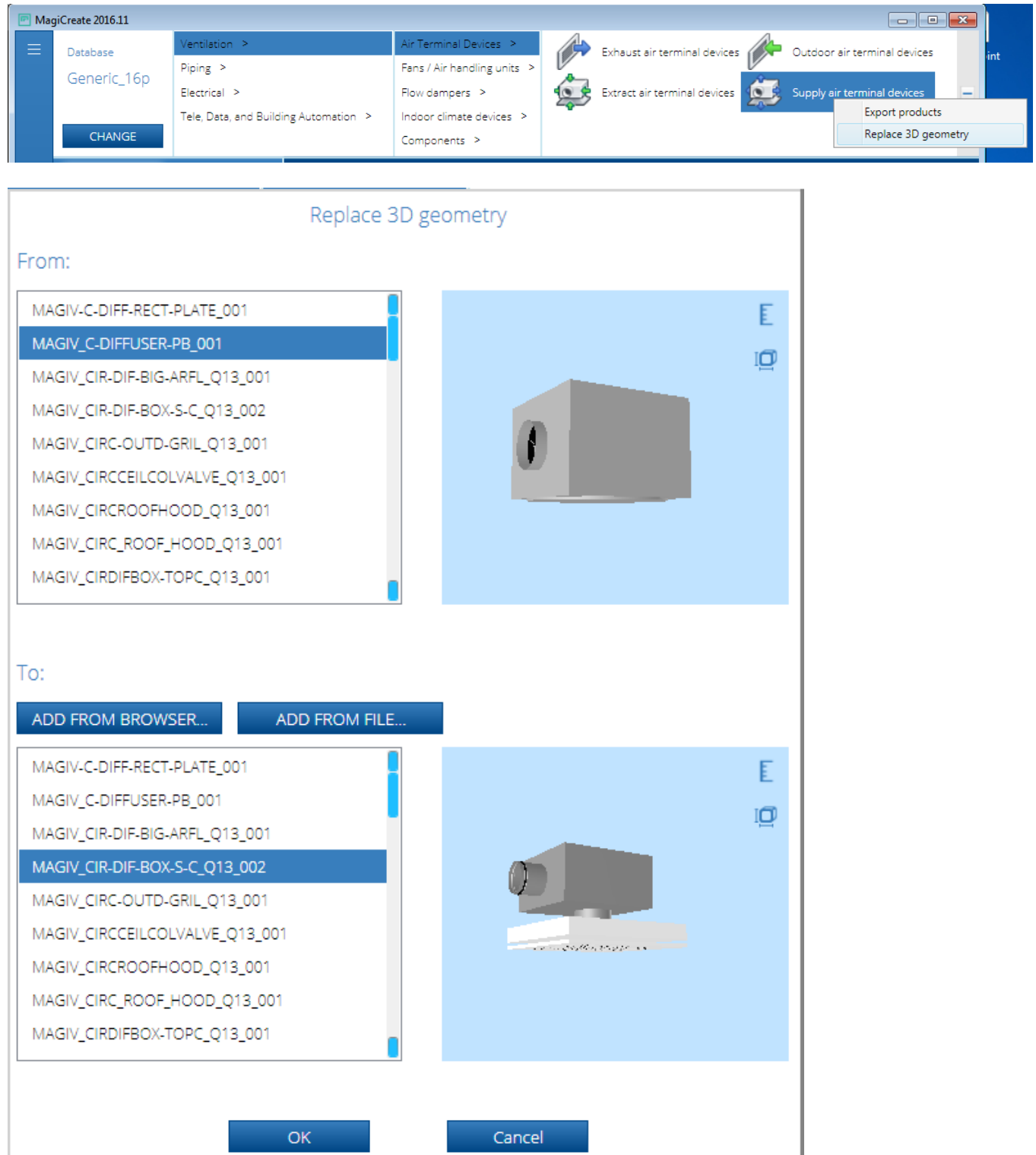
Database: Generic\_16p

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