MagiCreate – User guide

MagiCreate is an easy-to-use tool for advanced modelling of MEP products and components. This user guide describes the main functions of the modelling tool.

With MagiCreate, MagiCAD users can create tailored databases, model completely new products and modify existing ones by editing product properties, dimensions and technical data.

All databases and products created with MagiCreate are supported by MagiCAD for AutoCAD and MagiCAD for Revit from the version 2014.11 onwards.

MagiCreate can be downloaded and installed from the Tools section of the MagiCAD Download Portal: https://portal.magicad.com/Download/GetProductCategoryList?categoryId=6

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Starting MagiCreate

When starting MagiCreate, you can select one of the following two options:

- 1. Create a new database by clicking the **CREATE NEW** button.
- 2. Open an existing, previously-edited database by selecting one of the quick links displayed in the *Open recent database* list, or browse for another database by clicking the **OPEN ANOTHER DATABASE** button.





MagiCreate menu

This section describes the items and functionality of the MagiCreate main menu.



The main menu displays the following options.





Database defaults

In the *Database Defaults* dialog, the user can view and edit general database properties and make changes to database default settings.

General database_1		
The <i>Manufacturer</i> field defines the name of the database (e.g. manufacturer brand name or company name). The database will catalogued under this name in the MagiCAD Product Browser, Bills of Materials, etc.	The Website field defines (e.g. company website) fr user viewing the manufac database in the MagiCAD can find additional produc contact details.	s a web address rom which the cturer's product O Product Browser ct information and
The Password field allows you to protect the database from modifications and further editing using a password. The Default language control selects the default language for displaying user-defined product description texts when multiple language versions have been defined. Image: Product (new product)	Veoste	The Use templates with new products checkbox must be selected if you want to use generic products as templates for new products. Deselect this option if you want to create a new product based on existing 3D geometry.
Looe (new product) Description (French) Advanced +		

Adding new products to a selected database

Creating a new product to a selected database requires you to carry out the following three steps:

- 1. First select a product category (e.g. Piping, Electrical, etc.)
- 2. Then select the product group (e.g. Fan coil units, Pumps, etc.)
- 3. And finally click the **CREATE NEW** button.

A new product is added to the database.

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After clicking the **CREATE NEW** button, the Product Browser window will open. In the Product Browser window, you can select an existing generic product as a template for the new product.





You can select which content and product variants you want to include in the product template. You can also leave out all variants by not selecting any. After selecting the content to be included in the template, click **OK**.

Clicking **OK** adds the product and the selected variants into the database.

MC Magi	iCreate 2014.11				
≡	Database	Ventilation > Piping >		Ean coil un	nite
	Generic 1				
	Genenc_1	Electrical >		Manifolds	The product is added to
	CHANGE	Tele, Data, and Building Autom	nation >		the database with the
			Produc	t	selected variants.
	CREATE NEW 🗸	DELETE	C Fance	 pil-Sup-Ext-cir-L-;	
					Please note that if
	Fancoil-Sup-Ext-cir-L-2		Basic data		no variants were included
			Code		in the product template,
	Fancoil-Sup-Ext-cir	-L-2-1	Fancoil-Su	up-Ext-cir-L-2	MagiCreate automatically
			, Descriptio	on (French)	adds one variant using
					a default variant name



Viewing and modifying existing products

To view and edit a product, select the product or one of its variants. Most of the technical data is variant-specific and can only be accessed by selecting the variant.



The dimensions of the variant can be modified by editing the values in this table. For optional and more advanced technical data modifications, please see section **Advanced variantspecific data**.



Switching to another database

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You can switch to another database without closing the program. ٦

Clio	ck the CH d select a	IANGE button nother database.					
Magil	Create 2014.11				_		<u>_ ×</u>
=	Database	Piping >	Fan coll units	Pumps		Gas devices	
	Generic_1 CHANGE	Electrical > Tele, Data, and Building Automation	> Manifolds	Gas compo	nents		=
	CREATE NEW 🐱	DELETE	Cariant Fancoil-Sup-Ext-cir-L-2-	1 ③			SAVE
	Fanco	oll-Sup-Ext-cir-L-2	Desile data		3D	Technical data (optional)	
			Code				× ۲
	Fancoll-Sup-Ext-cl	ir-L-2-1	Fancoil-Sup-Ext-cir-L-2-1				E
				Advanced 🛨			Ø



Advanced product-specific data

On the product level, a product has certain general properties which are shared by all of the product's variants.





Advanced variant-specific data

Most of the technical data is variant-specific and can only be defined and modified on the variant level. The optional technical data varies between different product types.

Below you can see an example of the technical data contained by a fan coil variant.

The selected fan coil variant has both heating and cooling properties. By selecting the relevant tab, you can edit the variant's heating and cooling properties.

MC Magi	iCreate 2014.11							
≡	Database Generic 1	Ventilation > Piping >		Fan coil units	\bigcirc	Pumps	Gas devices	
	CHANGE	Electrical > Tele, Data, and Building Autom	nation >	Manifolds	\bigcirc	Gas componen	15	
	CREATE NEW 🗸	DELETE	Variant Fancoil-Sup	-Ext-cir-L-2-1	(\triangleright		SAVE
	Fancoi	l-Sup-Ext-cir-L-2	Basic data			3D Tec	nnical data (optional)	
	Fancoil-Sup-Ext-cir	-L-2-1	Code Fancoil-Sup-Ext-ci	r-L-2-1		i looting	Eanooil Sun	Ext oir L 2.1
			Description (Fren	ch)		50 30		-EXI-CII-L-2-1
				MORE		20 [e] 10		
						o ∆pt [k]		
						2		
						1	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0 0 Im³/s]
						n	nin qv 0.3 dm³/s r	min Δpt 1 kPa max Δpt 50 kPa
							qv [dm³/s] Δpt [k 0.1 12	Pa
	This control allows you to		The	se controls allo	ow you to define			
	The pres		ressure dro	op curve in		the	diagram above	
	the diagra updated a		agram abov ed accordir	ve will be ngly.		L		

Creating products without using templates

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To create a new product without using an existing template as a basis, carry out the following three steps:

- 1. First deselect the *Use templates with new products* checkbox in the *Database defaults* dialog and click **OK**.
- 2. Then click the **CREATE NEW** button and select **PRODUCT** from the drop-down options.
- 3. And finally select a suitable 3D geometry from the list of 3D geometries found in the current database.

Database defaults		
Manufacturer General database 1	Website	
Database password	Use templates with new products	1. Deselect the Use templates with new products checkbox to create
Default language	User interface language English	a new product based on existing 3D geometry. Click OK .
ОК	Cancel	





When **PRODUCT** is selected from the **CREATE NEW** drop-down options, the *Select 3D geometry* window opens.



Select a suitable 3D geometry and click **OK**.

MagiCreate displays the new product with one automatically created variant. Since only the 3D geometry data exists, the user must enter all other relevant product and variant-specific data manually.

Mc MagiCreate 2014.11	1			
Database Generic_1 CHANGE	Ventilation > Piping > Electrical > Tele, Data, and Building Autom	Fan coll units Dumps Pumps stion > Manifolds Gas comp	Gas devices	s =
CREATE NEV	W 🗸 DELETE	(new product)		SAVE
	(new product)	Basic data Code		ی ^م E
-	(new product)	(new product) Description (French)		Ø
(new variant	Fancoil-L-h & c		Advanced – MORE	
-	Fancoil-Sup-Ext-cir-L-2	Website www.magicad.com Version		
		2014-12-31 Market area codes and websites	DEFINE	** (1)
				SELECT 3D GEOMETRY