



Halton eHIT MagiCAD for AutoCAD Plugin

(Airflow management dampers and measurement units)

User guide

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1 General

1.1 About this document

This document contains instructions how install and use *Halton eHIT MagiCAD for AutoCAD Plugin*.

1.2 Summary of changes

Release	Date	Description
1.0	June 2023	First release with Airflow management dampers and Measurement units.

1.3 Installing the plugin

1.3.1 Required software

Halton eHIT plugin works with the following MagiCAD and AutoCAD versions.

- MagiCAD 2022 and AutoCAD 2017-2022
- MagiCAD 2023 and AutoCAD 2019-2023

1.3.2 Installation

1. Download the installation package from MagiCAD portal.

<https://portal.magicad.com/download/ProductSearch?searchStr=Halton&categoryId=3>

2. Run the installer on your workstation.

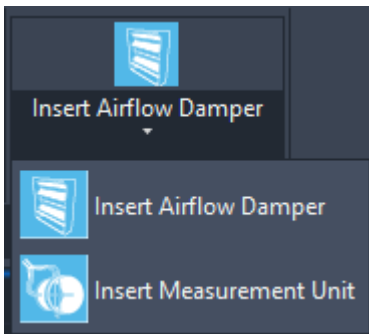
Administrator privileges are recommended for installation. **Note if you have several AutoCAD versions on your workstation:** Before you run the installation program, start MagiCAD to make sure that *Halton eHIT MagiCAD for AutoCAD Plugin* installs on the same AutoCAD platform as MagiCAD.

1.4 Starting the plugin

The plugin is automatically loaded, and it is ready to be used once MagiCAD is started.

Before starting to use *Halton eHIT MagiCAD for AutoCAD Plugin*, start MagiCAD and open a Ventilation and Piping project.

Halton eHIT plugin ribbon panel can be found from MagiCAD plugins tab. When the drop-down button is clicked, the list of available operations will be shown.

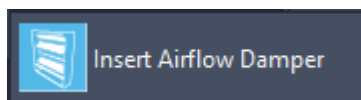


2 How to use the plugin

2.1 Insert airflow damper

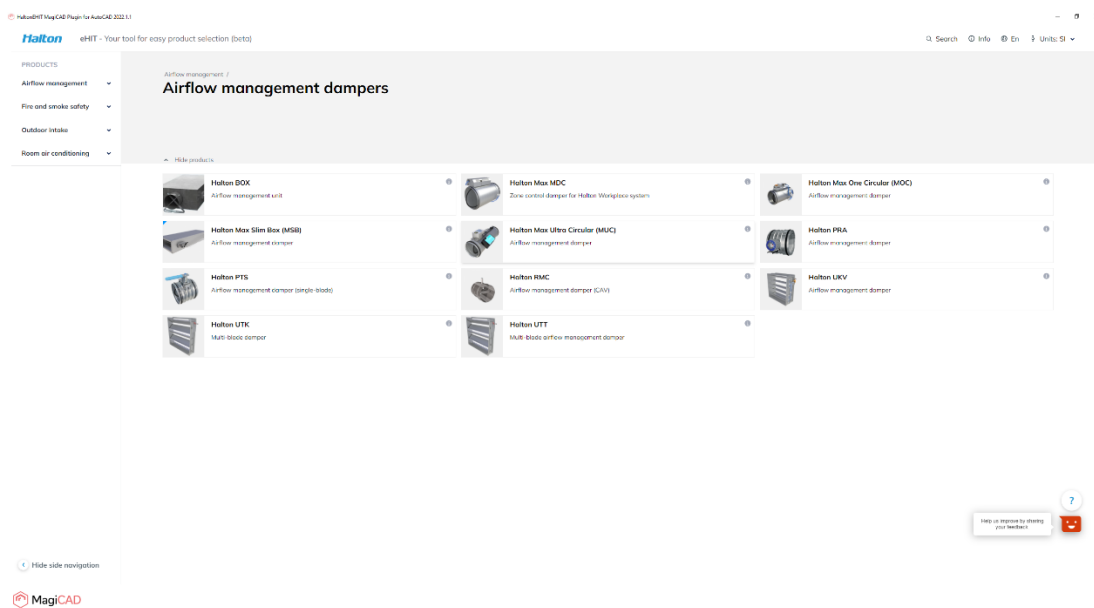
This command opens Halton eHIT web application for selecting airflow dampers. Airflow dampers will be added to *Flow dampers* category in MagiCAD for AutoCAD.

1. Start *Insert airflow damper* command from ribbon button.



The eHIT web application will be opened in the plugin window inside AutoCAD.

2. Select the type of airflow damper.



- After the type of airflow damper has been selected, the user can configure product properties before inserting the product to MagiCAD.

The screenshot displays the configuration page for the Halton Max One Circular (MOC) damper. The top navigation bar includes 'Airflow management / Airflow management dampers / Halton Max One Circular (MOC)'. The main content area is divided into several sections:

- Model:** Halton Max One Circular (MOC) with a connection size of 100 mm.
- SP=System package:** Set to 'No-hot'.
- MA=Material:** Set to 'CS-Coloured steel'.
- CU=Control unit:** Set to 'EM-LMV-D3-MF-M (sizes: 100-250)'.
- SE=Sensors:** Set to 'No-hot assigned'.
- TF=Transformer:** Set to 'No-hot assigned'.
- FS=Factory-set airflow limits:** Set to 'Con=Default factory settings (MOC)'.
- SA=Sound attenuator:** Set to 'No-hot assigned'.
- RH=Electric reheat coil (necessary):** Set to 'No-hot assigned'.

Below the configuration options, there are two interactive elements:

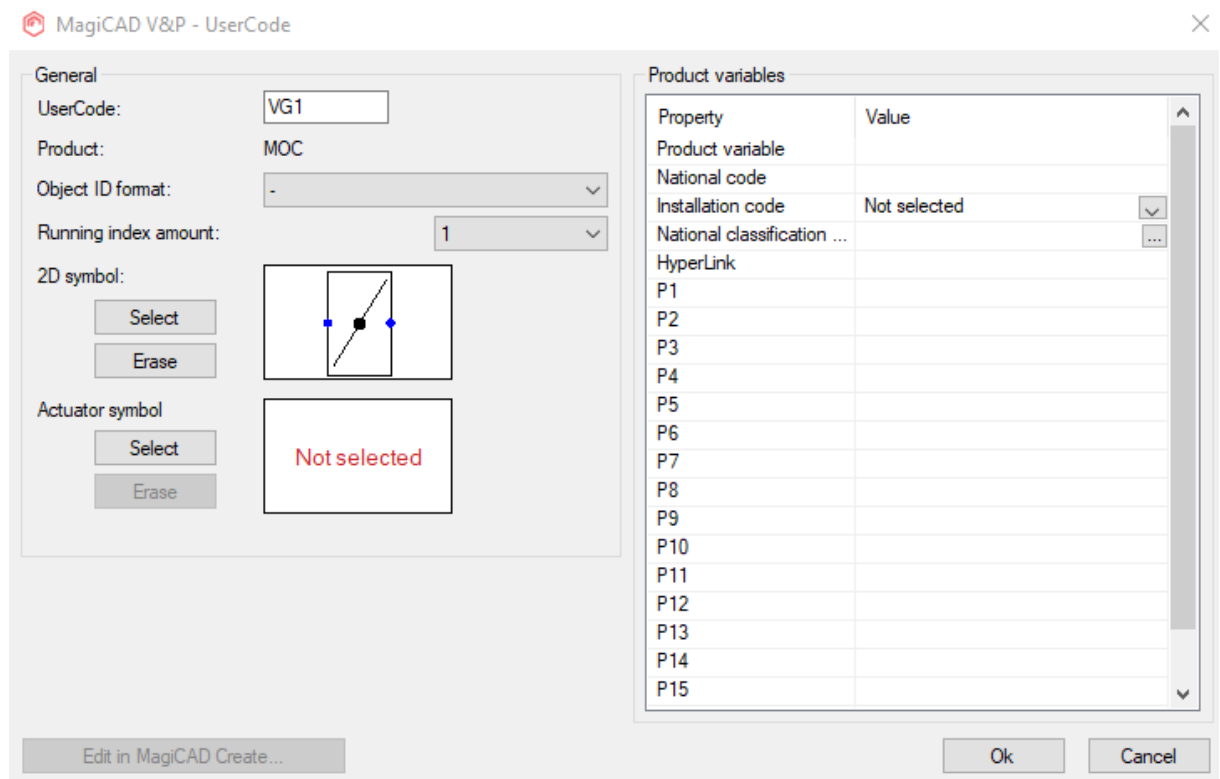
- Performance Graph:** A line graph titled 'MOC/G-100' showing 'Static pressure drop [Pa]' on the y-axis (log scale from 10 to 500) and 'Airflow [m³/s]' on the x-axis (log scale from 1.0 to 10.0). The graph shows multiple curves representing different damper settings.
- Technical Table:** A table with columns for 'qv [m³/s]', 'Δp [Pa]', 'Air velocity [m/s]', 'Opening [%]', and 'Leak [dB(A)]'. It provides data for both 'Min' and 'Max' settings.

At the bottom right of the configuration area, there is an 'Export' button, which is highlighted in the subsequent image.

Export dropdown menu contains button for adding the selected product to MagiCAD for AutoCAD.

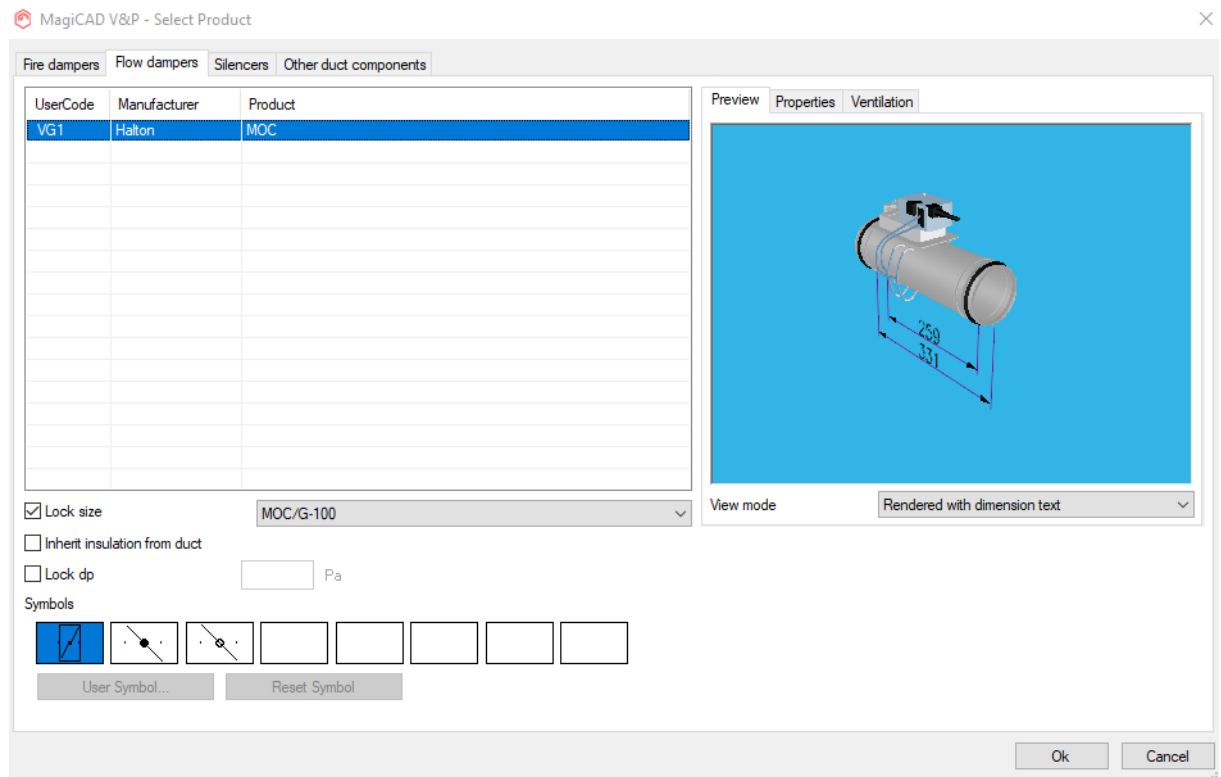
This close-up view shows the top section of the product configuration page. The breadcrumb navigation reads 'Airflow management / Airflow management dampers / Halton Max One Circular (MOC)'. The product name 'Halton Max One Circular (MOC)' is prominently displayed. Below the name, the order code is shown as 'MOC/G-100 SP=N,MA=CS,CU=EM,SE=NA, TF=NA,FS=DS,SA=NA,RH=NA'. To the right of the product name, there are three buttons: 'More info', 'Product page', and 'Downloads'. The 'Export' button is highlighted with a red rectangular box, indicating its specific function in this context.

- The plugin opens the window where the user can give a user code and select 2D symbol for the product.

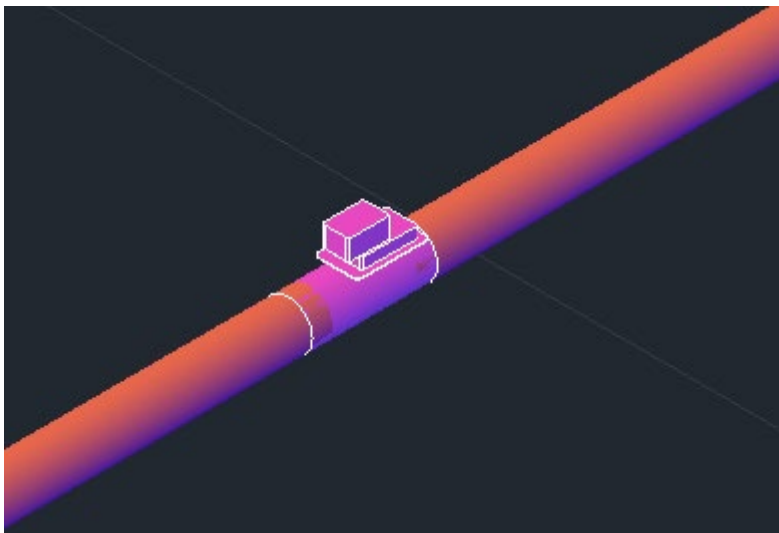


- Once the user code and 2D symbol is selected, the selected product is active in the window.

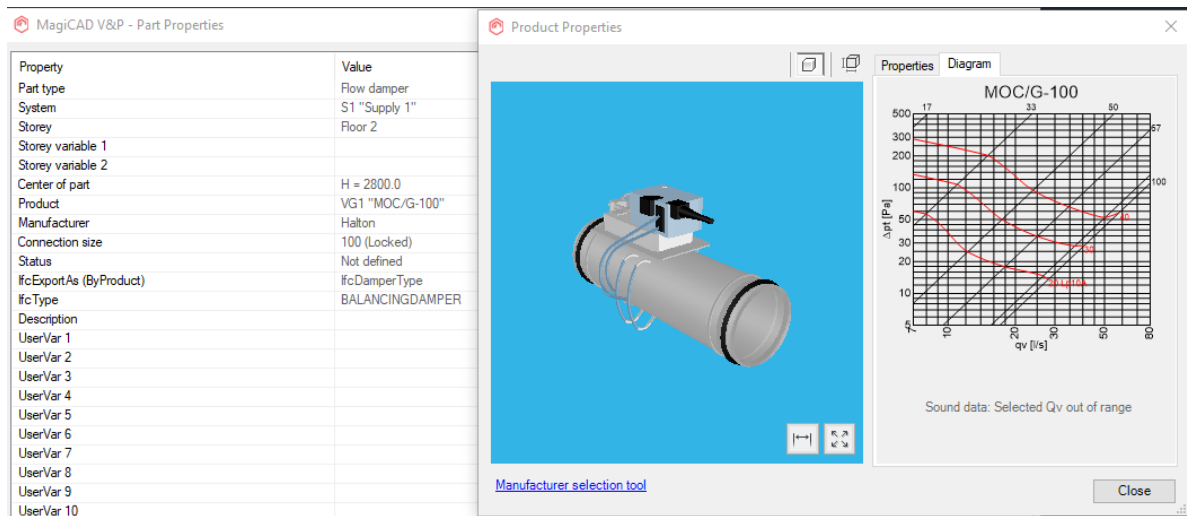
The product properties can be checked in the window, for example, 3D model and airflow / pressure curve data.



- After clicking Ok button from the dialog, the user can insert the selected product into a duct by clicking on the desired spot.



7. Product properties can be viewed when double-clicking the product instance from the drawing.



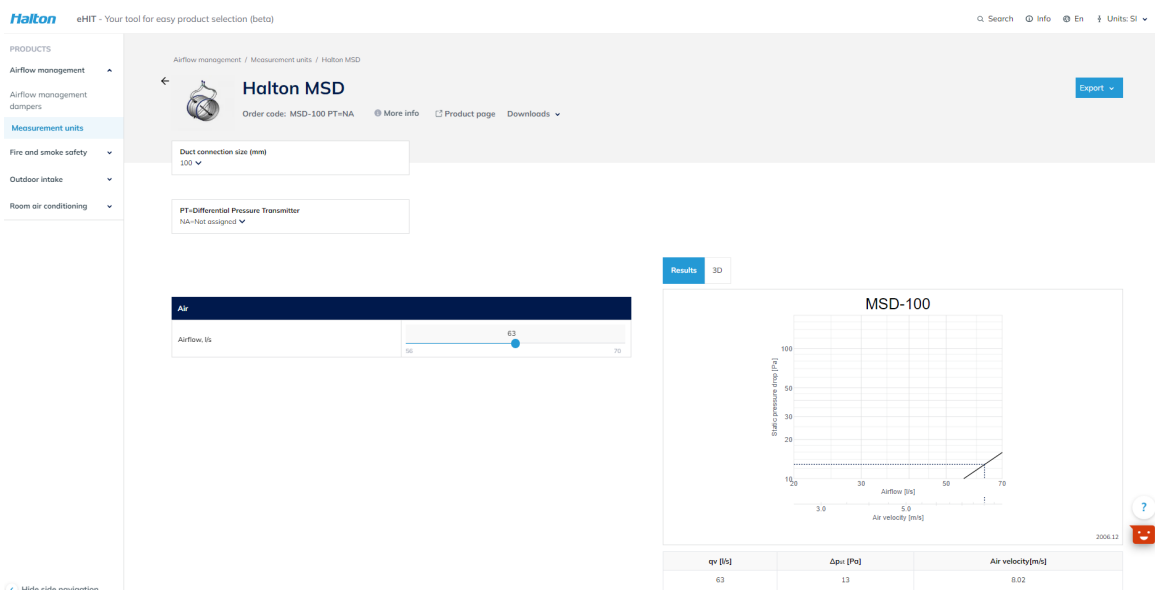
2.2 Insert measurement unit

This command opens Halton eHIT web application for selecting measurement units. Measurement units will be added to Other components category in MagiCAD for AutoCAD.

Adding a measurement unit will work the same way than adding an airflow damper to MagiCAD for AutoCAD. The feature is started by clicking Insert Measurement Unit command from ribbon button.



This opens Halton eHIT web application for selection and configuring the measurement unit. Once the product is configured it is added to MagiCAD and the product can be added to the drawing.



Product properties can be viewed when double-clicking the product instance from the drawing.

MagiCAD V&P - Part Properties

Property	Value
Part type	Other component
System	S1 "Supply 1"
Storey	Floor 2
Storey variable 1	
Storey variable 2	
Center of part	H = 2800.0
Product	MS1 "MSD-100"
Manufacturer	Halton
Connection size	100
Status	Not defined
IfcExportAs (ByProduct)	IfcBuildingElementProxy
IfcType	NOTDEFINED
Description	
UserVar 1	
UserVar 2	
UserVar 3	
UserVar 4	
UserVar 5	
UserVar 6	
UserVar 7	
UserVar 8	
UserVar 9	

Product Properties

Properties Diagram

Misc

- Duct connection size: 100
- Manufacturer: Halton
- Product code: MSD-100

[Manufacturer selection tool](#) Close