Climecon Huuva.X MagiCAD Cloud Plugin for AutoCAD

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MagiCAD GROUP

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1 General

About this document

This document contains instructions on using Climecon Huuva.X MagiCAD plugin on Autodesk AutoCAD platform. Plugin integrates the Climecon Huuva.X selection tool web application to AutoCAD and MagiCAD. Plugin also has a function for inserting other hood specific products like ceiling products.

Climecon Huuva.X MagiCAD plugin allows user to insert and use *CleanMaster, StandardPlus* and *MistMaster* product family kitchen hoods in AutoCAD drawings and MagiCAD projects. After insert the products will be attached in MagiCAD ventilation ductwork by user and hood technical data is available in MagiCAD specific calculations.

Hood products can be also copied and pasted between the AutoCAD drawings.

Installing the plugin application

Required third party software

Climecon Huuva.X MagiCAD plugin works with the following MagiCAD and AutoCAD versions:

- MagiCAD for AutoCAD 2026 with AutoCAD 2023-2026
- MagiCAD for AutoCAD 2027 with AutoCAD 2023-2027

Before installation

Workstation administrator privileges are recommended for installation.

Installation

1. Download the installer file *Climecon Plugin for AutoCAD and MagiCAD* from MagiCAD portal to your workstation:

   https://portal.magicad.com/Download/ProductSearch?searchStr=Climecon&categoryId=3

2. Run the Climecon plugin installer on your workstation.

Starting the plugin application

The plugin is automatically loaded and is ready to be used once AutoCAD and MagiCAD is started next time after the plugin installation.

Before you start using the Climecon Huuva.X MagiCAD plugin, note that MagiCAD project with the required ventilation systems are required i.e. extract systems or extract and supply systems, depending on the hood products to be installed.

Locate the MagiCAD Connect tab from the AutoCAD ribbon panel. Once the Climecon Huuva.X MagiCAD plugin is loaded the Climecon ribbon panel and Huuva.X buttons can be found from MagiCAD Connect tab. The plugin specific command is started by clicking the button on ribbon or by typing the command in AutoCAD command line.

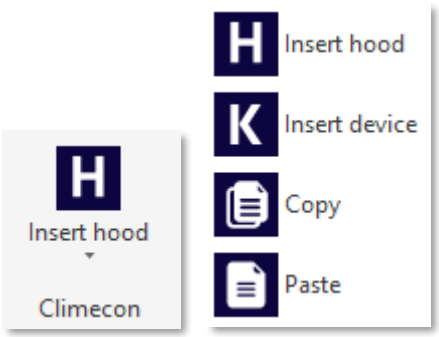


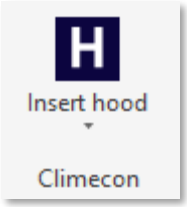
Figure 1 Climecon Huuva.X split button and commands in AutoCAD ribbon panel

2 Functionality

Climecon Huuva.X MagiCAD plugin UI overview

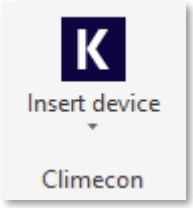
Huuva.X plugin contains the following operations:

Insert hood function



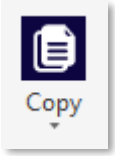
With this function user selects and inserts a new Huuva.X kitchen hood product to AutoCAD and MagiCAD with Climecon Huuva.X selection tool.

Insert device function



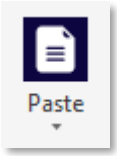
With this function user selects and inserts a kitchen hood specific device to AutoCAD and MagiCAD.

Copy function



With this function user selects a single, multiple or all inserted hood products and hood devices from the AutoCAD drawing and copies those for the paste operation.

Paste function



With this function user pastes the copied hood products and hood devices in to another AutoCAD drawing.

3 Insert hood function

Follow these steps to insert hood product from Climecon Huuva.X selection tool to AutoCAD and MagiCAD.

1. Click the Insert hood button from the Climecon panel or give the command *HUUVAX_INS*. When command is started, plugin first checks the existence of Climecon specific duct series in MagiCAD project. Those will be needed in the final hood product construction. If Climecon specific duct series does not exist, it will be created by plugin and user is informed in AutoCAD command line with message e.g. *Climecon plugin duct series added to MagiCAD project*.

2. Once the operation is started the plugin opens the Huuva.X selection tool in its browser view. Select the hood product family, specify the search criteria and click the “Search” button to proceed.

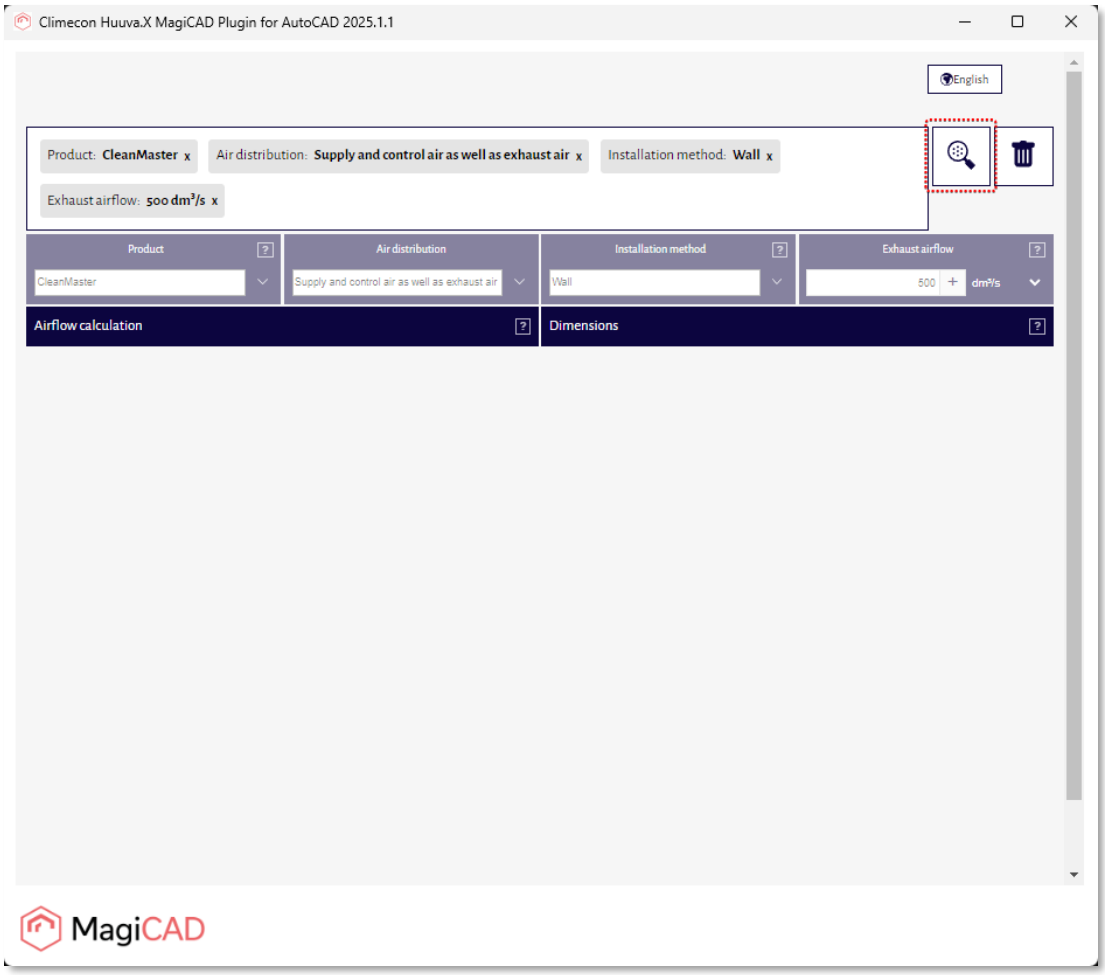


Figure 2 Climecon Huuva.X selection tool in plugin browser view

3. The search gives the hood product cards which fit into the search criteria. Scroll down to all search results, select a hood product and insert it to AutoCAD and MagiCAD by clicking the “Export to MagiCAD” button.

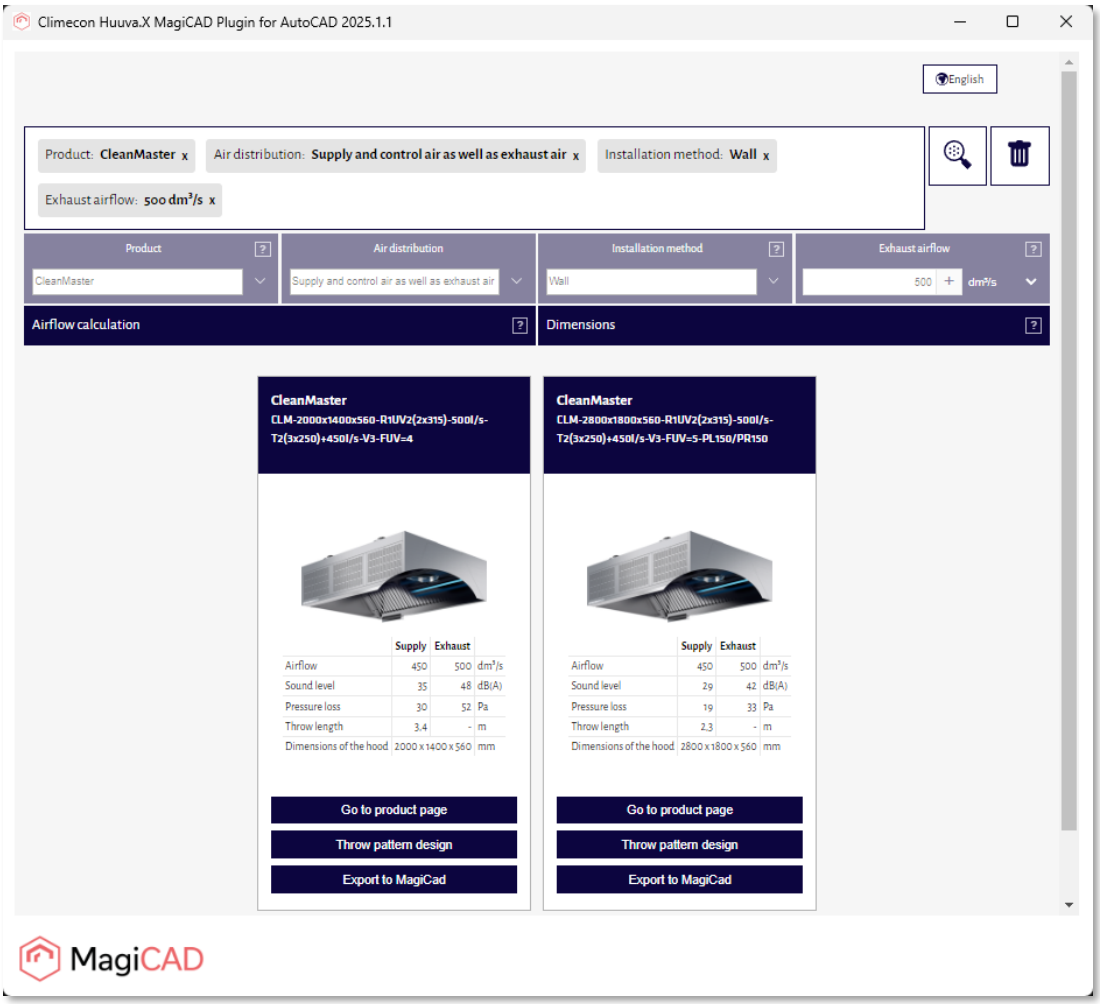


Figure 3 Hood search results and products ready for insert

4. After button click, plugin opens the insert hood dialog where user can:

    - Select the supply and extract ventilation systems for the hood product. If hood product does not include supply part then the system selection is disabled. Dialog shows also the system specific total air flow values of the hood.

      Drainage and cold water system selections are available only for certain type of product families (MistMaster).

    - Select the hood product installation level. Values are updated according to hood product height. The default value for installation height is at bottom 2100 mm.

    - User code and description are generated by the plugin. Change the values if necessary.

    Start the hood product insert into AutoCAD and MagiCAD with OK button

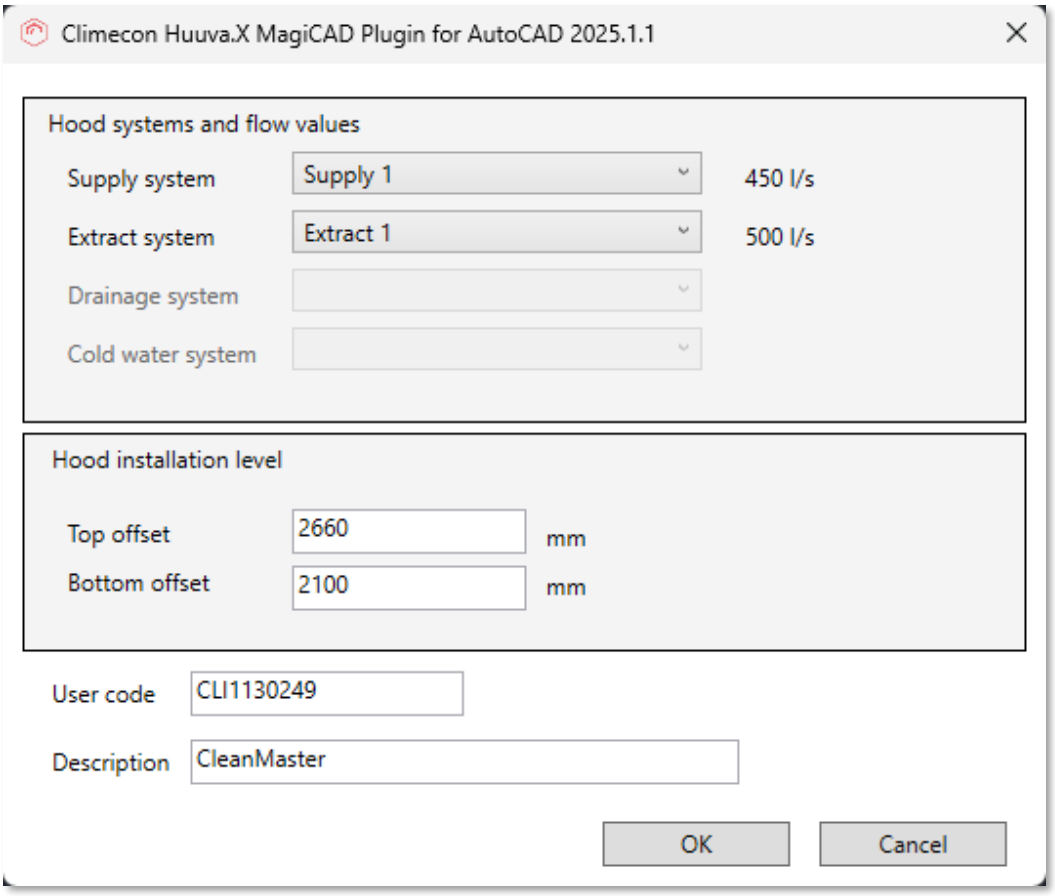


Figure 4 Plugin hood insert dialog with Huuva.X product

5. After the plugin has added the hood parts in to MagiCAD project and generated the geometry object, user drags and drops the product into drawing. After placement, user can change the product orientation. The final installation position and orientation is accepted with ENTER key. You can insert multiple products and after all the needed products are inserted, the operation ends with ESC key.

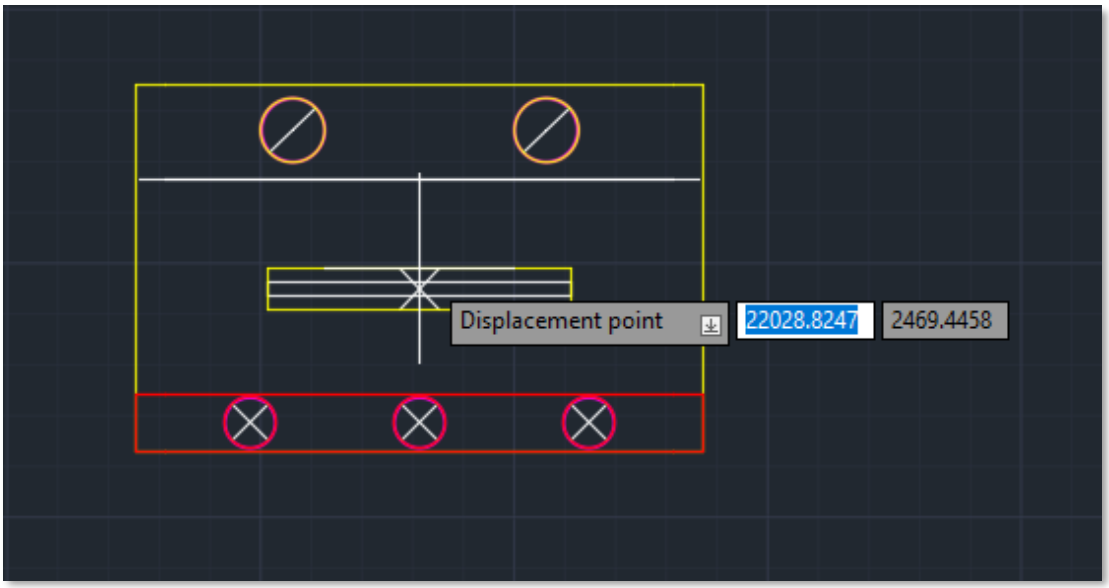


Figure 5 Hood object drag and drop in AutoCAD drawing

6. After the products are installed, connect the hood product into MagiCAD ventilation ductwork. This is done with MagiCAD duct drawing functionalities.

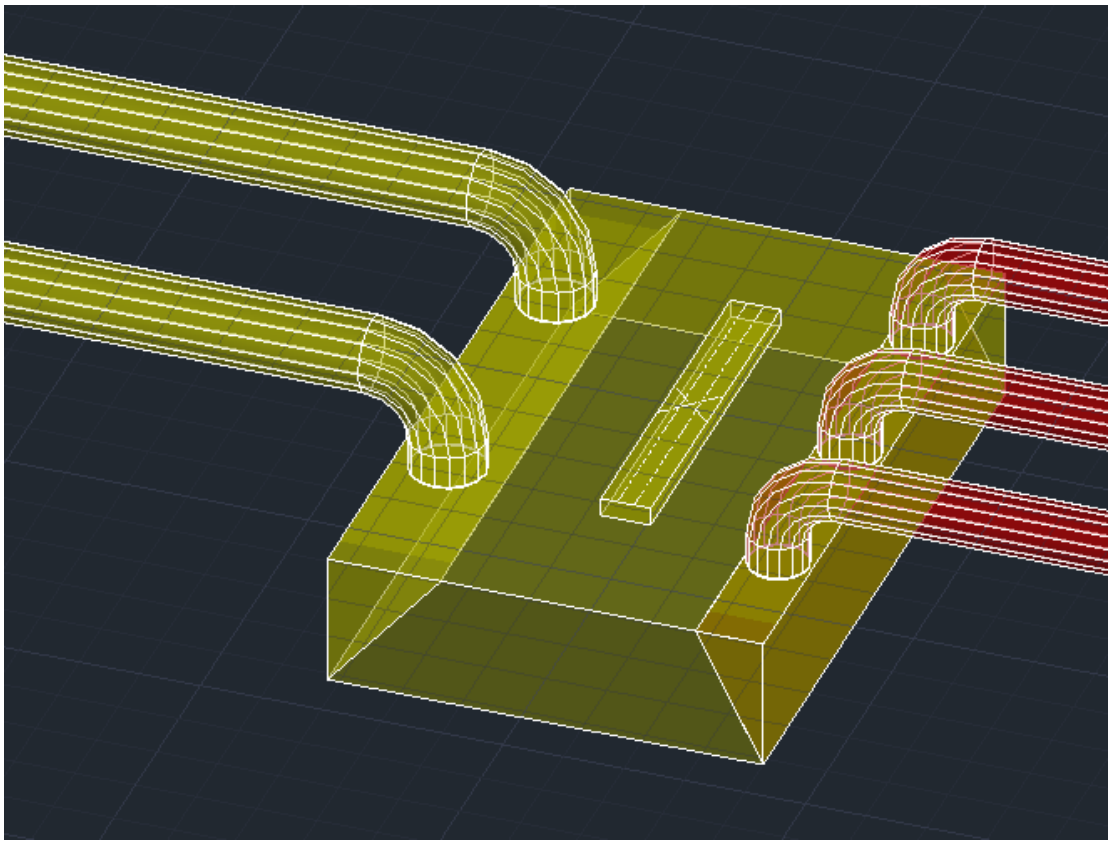


Figure 6 Hood product in MagiCAD ventilation ductwork

7. Finally, run the needed MagiCAD calculations for the products e.g. MagiCAD flow balancing calculation. Update the results into model and the hood product insert is done!

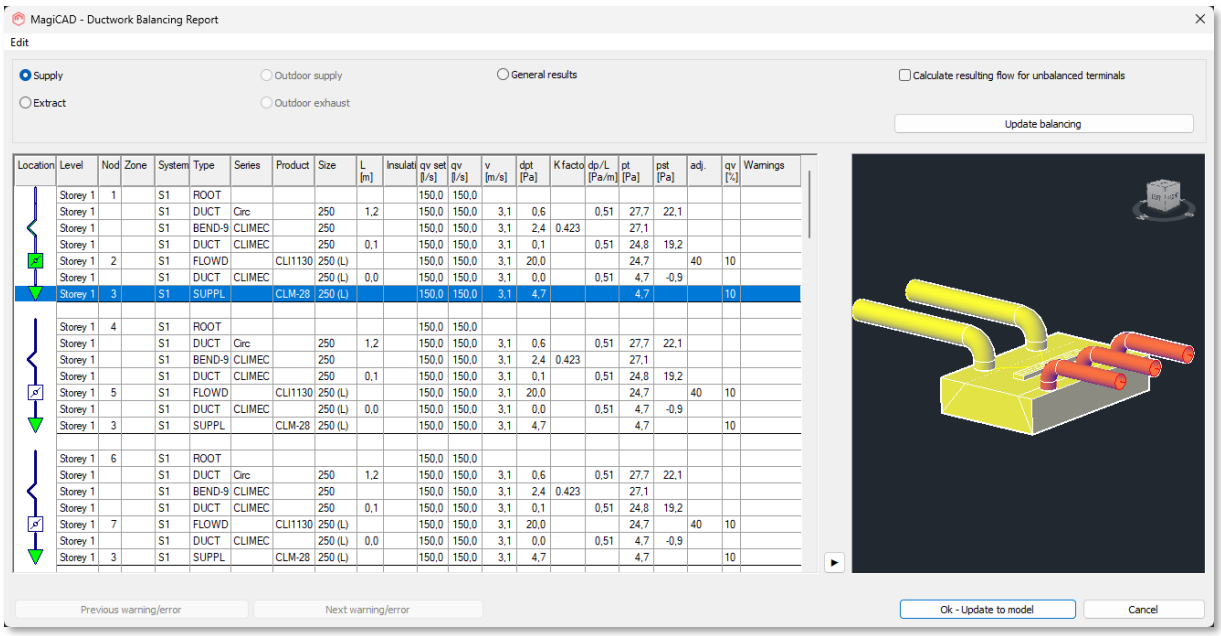


Figure 7 MagiCAD balancing report for hood supply parts

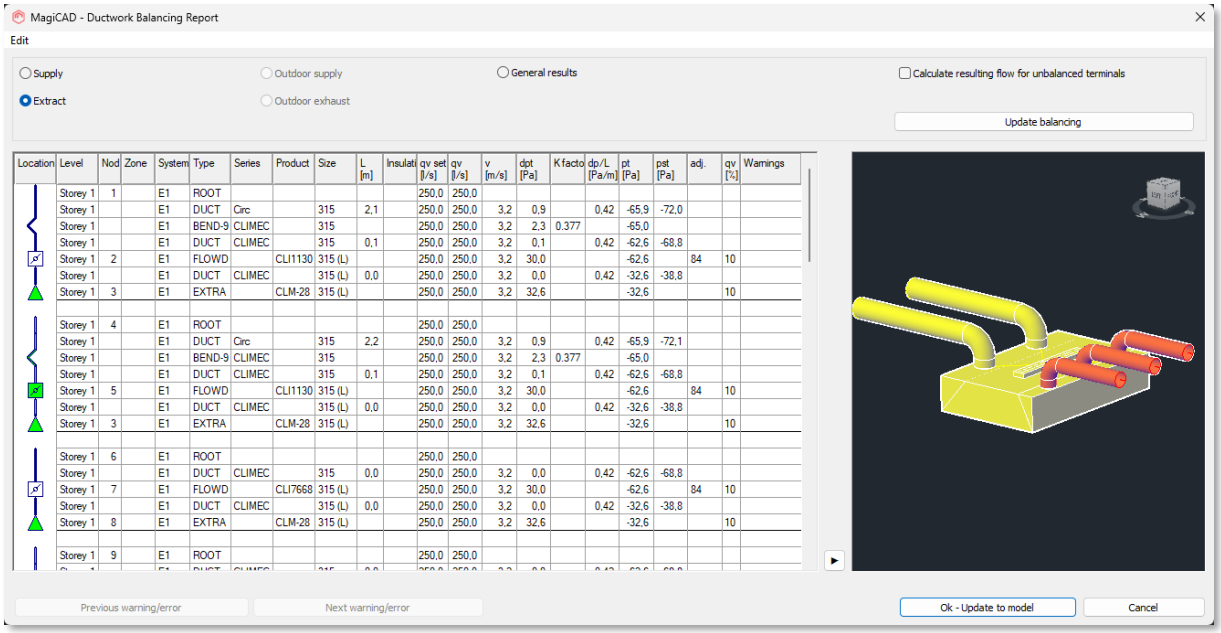


Figure 8 MagiCAD balancing report for hood extract parts

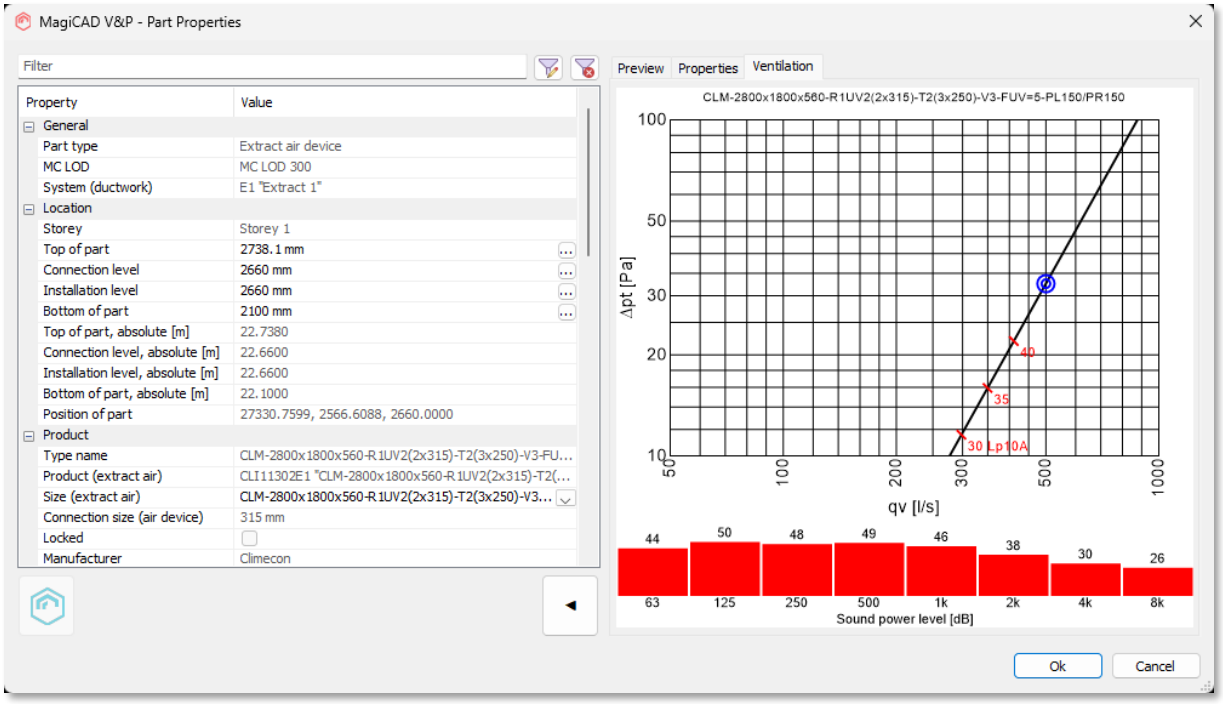


Figure 9 Extract chamber pressure and sound generation data

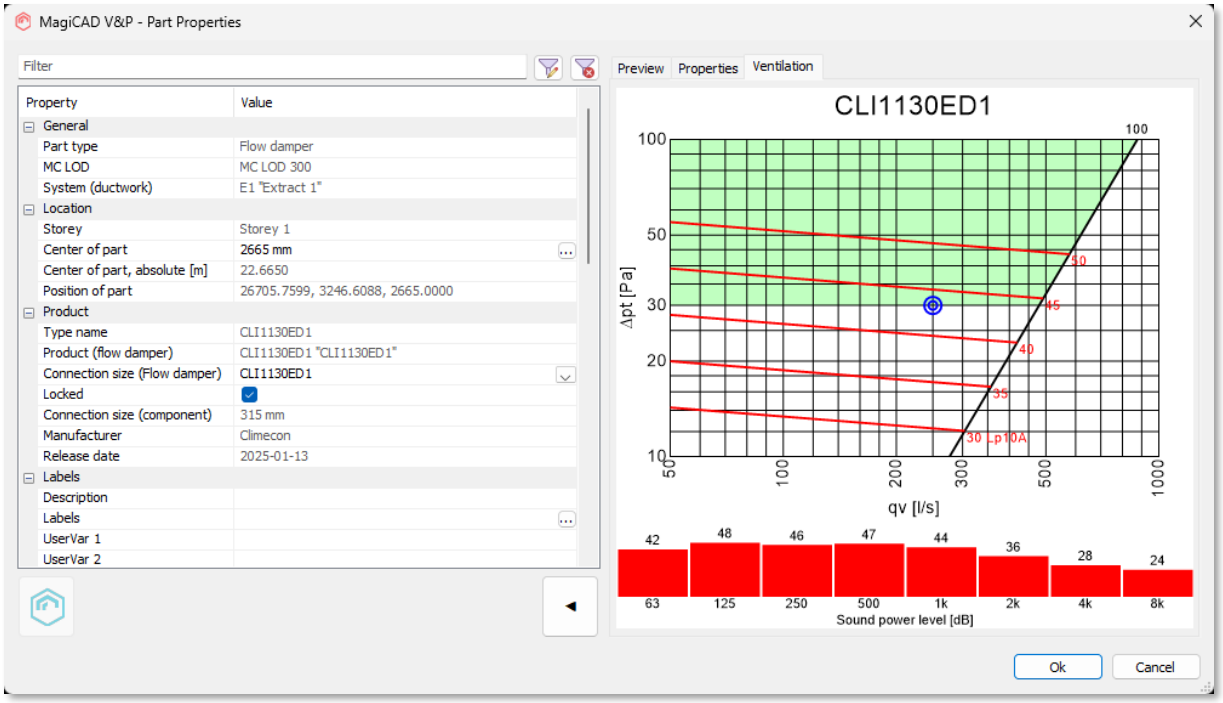


Figure 10 Extract damper pressure and sound generation data

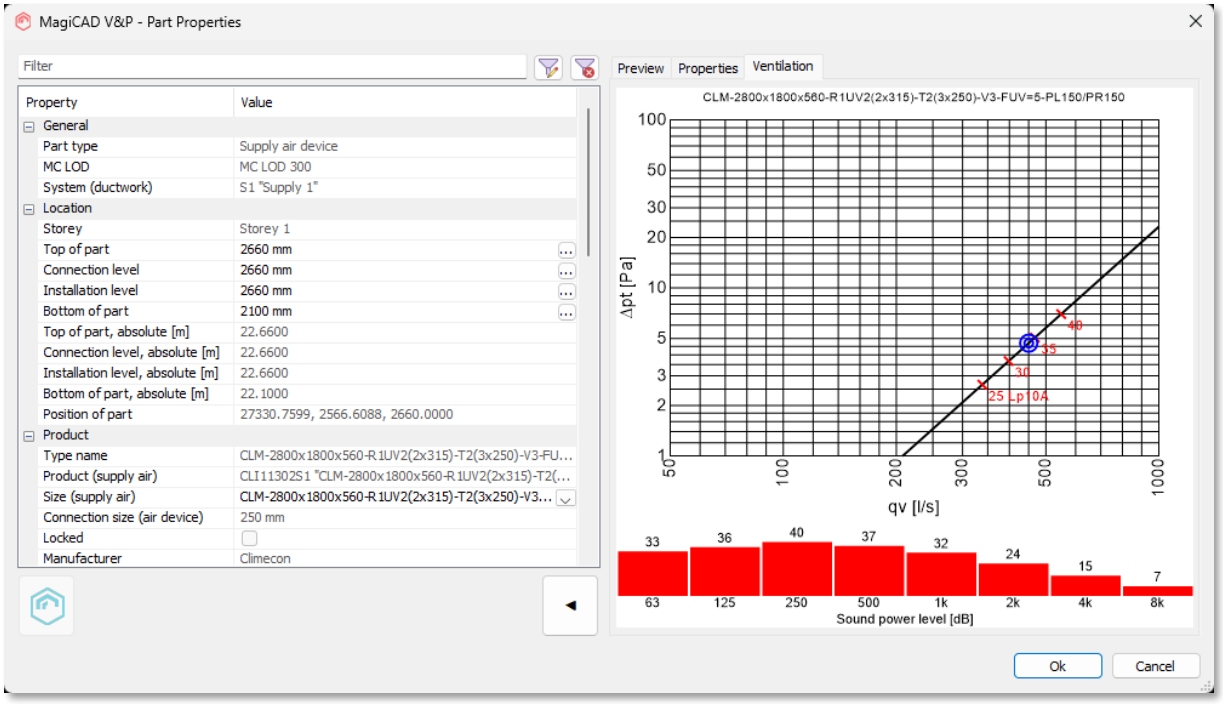


Figure 11 Supply chamber pressure and sound generation data

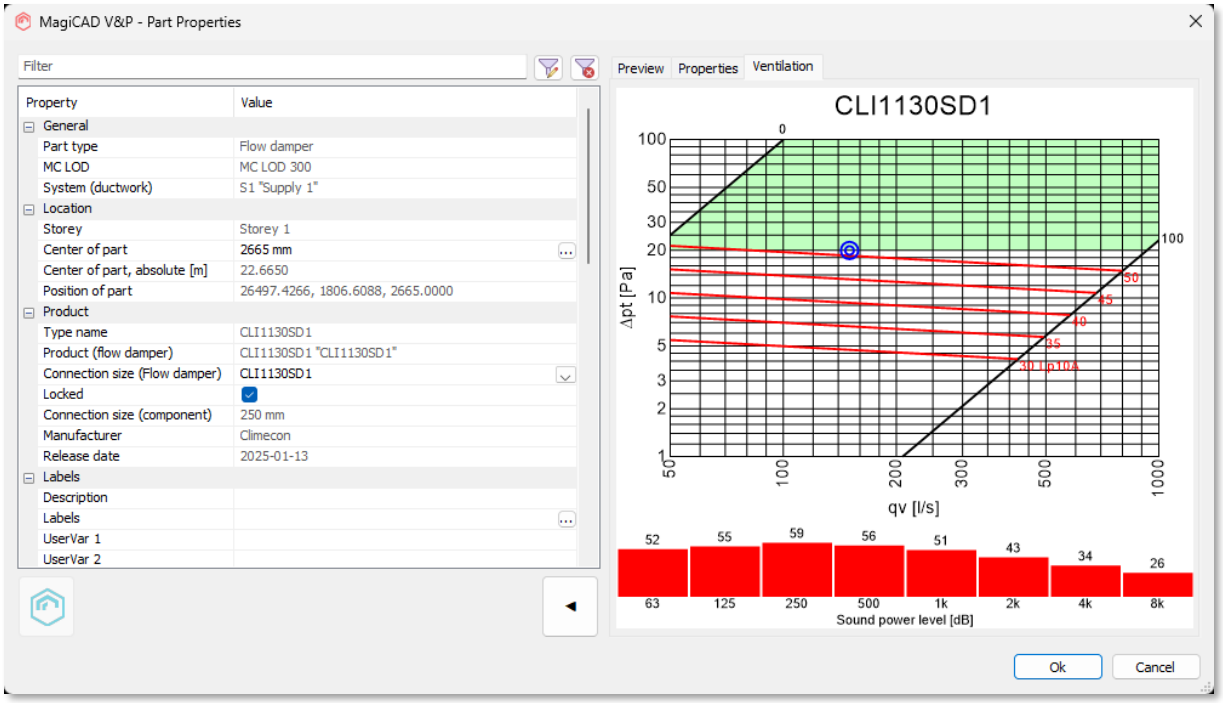


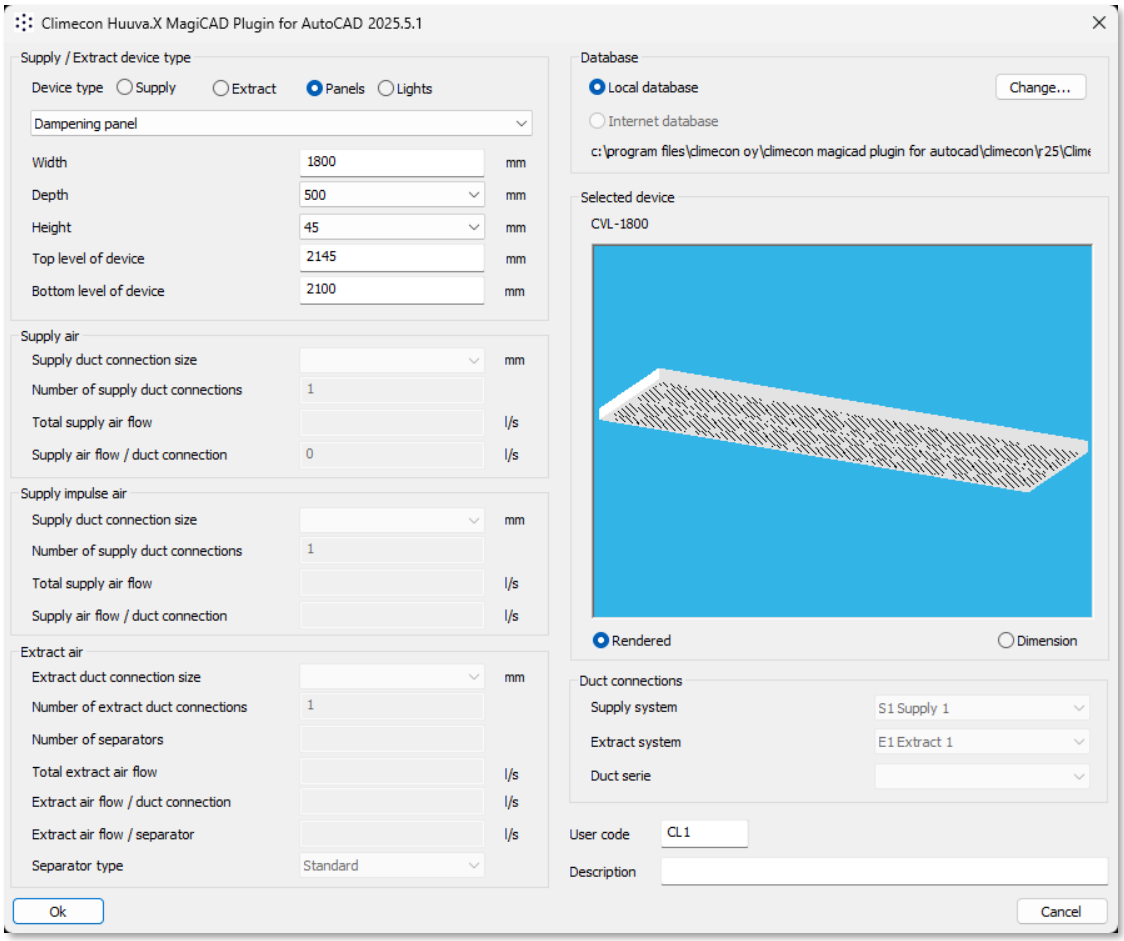
Figure 12 Supply damper pressure and sound generation data

4 Insert device function

Follow these steps to insert hood device from Climecon Huuva.X plugin to AutoCAD and MagiCAD.

1. Click the Insert device button from the Climecon panel or give the command *CLIHDEVICEINSERT*.

2. Once the operation starts the plugin opens the plugin dialog for device insert. Select the specific device and click the OK button to insert the device in AutoCAD drawing.



3. Once the OK is clicked, the user can drag and drop the device in the AutoCAD drawing and after that position and orientate it to the correct place.

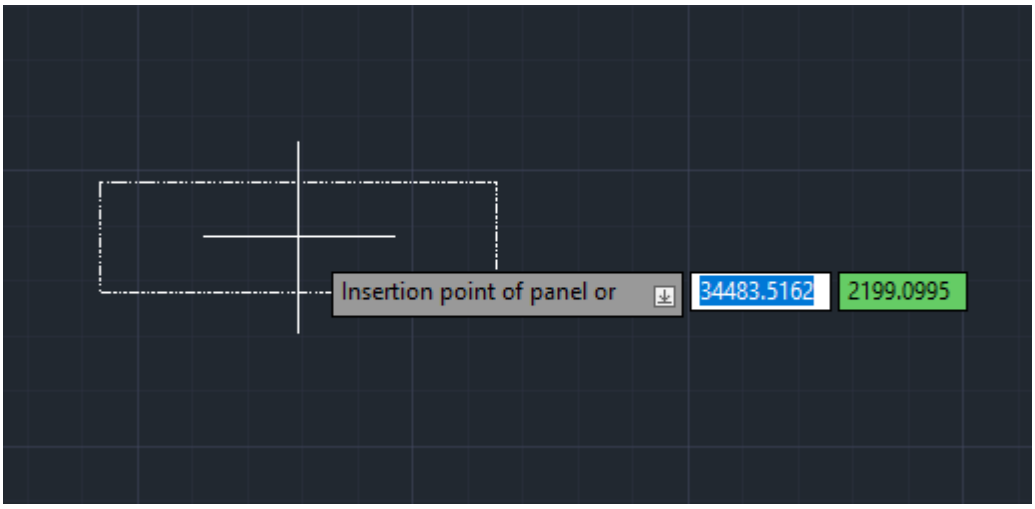


Figure 13 Drag and drop of the hood device

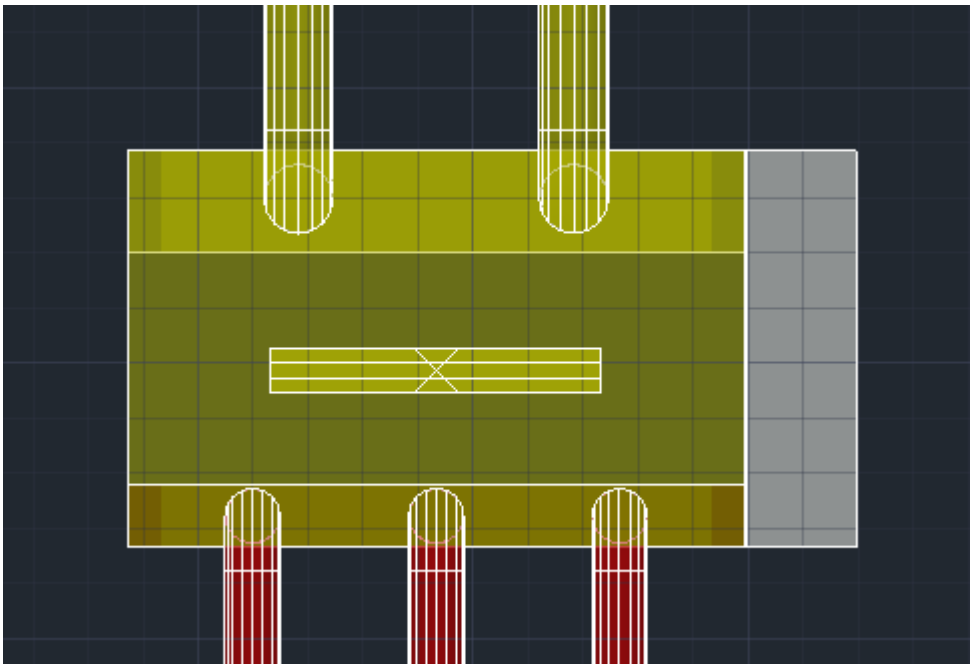


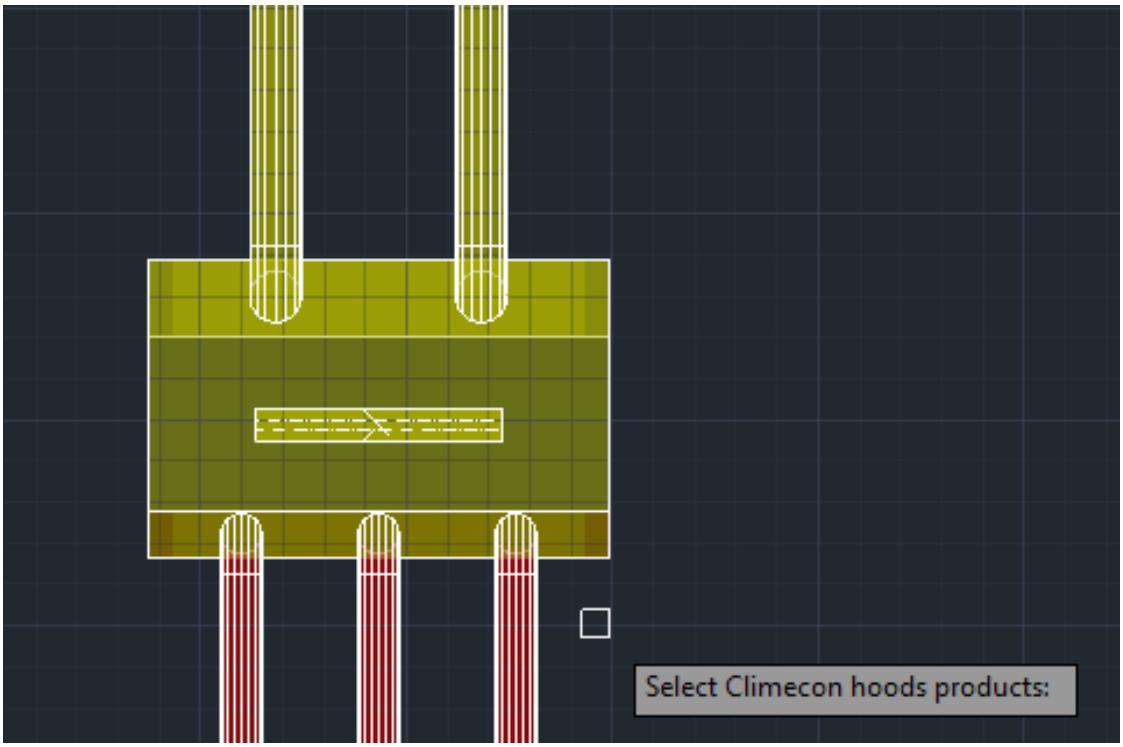
Figure 14 Hood device placed next to hood

5 Copy function

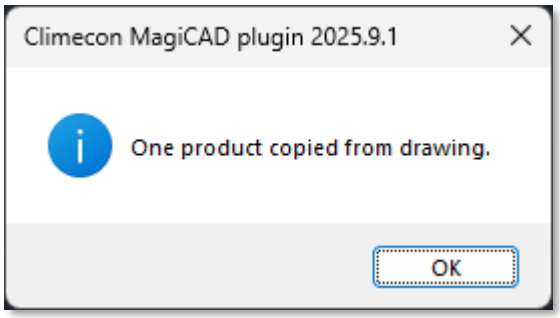
Follow these steps to copy hoods and hood devices from AutoCAD drawing for paste function.

1. Click the Copy button from the Climecon panel or give the command *HUUVAX_COPY*.

2. Once the operation is started the plugin asks the user to select the hoods and hood devices from the drawing. This is done with the rectangle selection function of AutoCAD. User may select single or multiple hood products or all by giving the command *ALL*. Accept the selection with ENTER.



3. After user acceptance, plugin shows a dialog to show the number of products copied for the paste function.

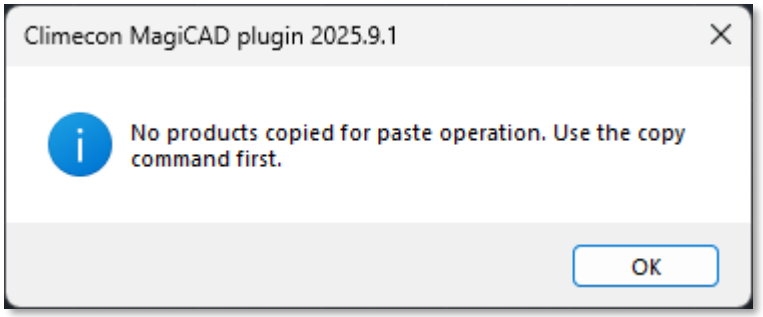


6 Paste function

Follow these steps to paste copied hoods and hood devices to AutoCAD drawing.

1. Click the Paste button from the Climecon panel or give the command *HUUVAX_PASTE*. When command is started, plugin first checks the existence of Climecon specific duct series in MagiCAD project. Those will be needed in the final hood product construction. If Climecon specific duct series does not exist, it will be created by plugin and user is informed in AutoCAD command line with message e.g. *Climecon plugin duct series added to MagiCAD project*.

2. Once the operation starts the plugin opens the Paste dialog. Note that pre-requirement for paste operation is that some hoods or hood devices are first copied. If there are no copied hoods or devices, the user is informed with a dialog.



3. The Paste hoods dialog shows the copied hoods and hood devices in each line. The columns indicate the following information:

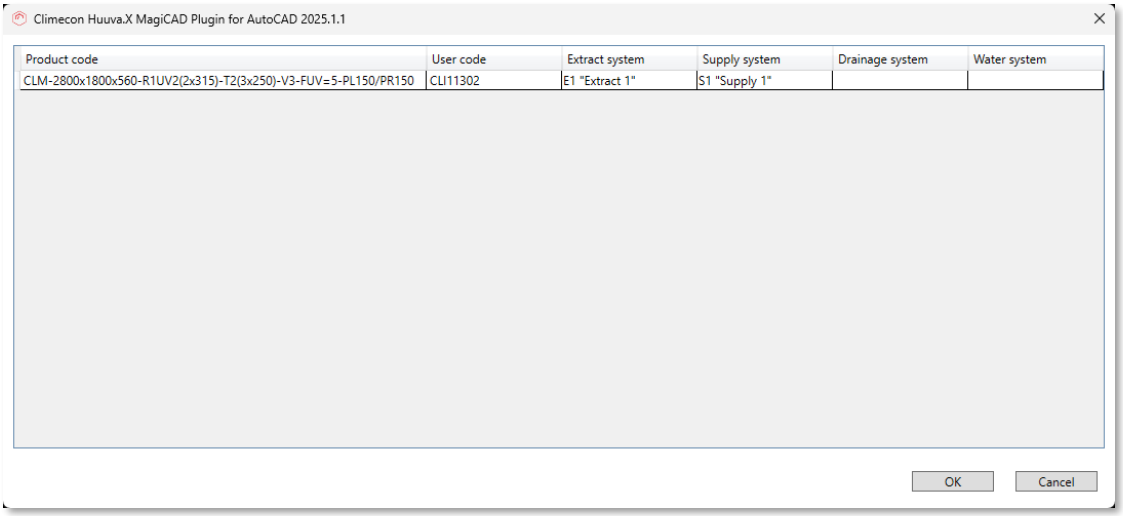
   Product code: The product code of the copied hood. Pasted hood will get the same product code.

   User code: The User code of the copied hood. Pasted hood will get the user code value of this field. Users can edit this value.

   Systems: The Extract, supply, drainage and water systems of the pasted hood. Initial value for system is taken from the MagiCAD project where hood is copied from. Identification is done with system user code and title.

   Users can select the hood specific systems according to systems available in target MagiCAD project and according to hood type.

   When all the data in dialog is OK, click the OK button to start the paste function.



4. After the OK is clicked, the plugin starts to generate the hood and hood devices. Finally, the hoods and devices are inserted into the same position with the same orientation as the original copied hoods and devices.

