



Swegon MagiCAD Cloud Plugin for AutoCAD

13/04/2026

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1 General

The purpose of Swegon MagiCAD Plugin is to use ProSilencer, or AHU-Design software directly from MagiCAD as a product configurator when adding Swegon products into MagiCAD for AutoCAD project / drawing.

1.1 How to install plugin

1.1.1 Required third-party software

Swegon MagiCAD plugins works with the following MagiCAD versions:

- MagiCAD for AutoCAD 2026 and AutoCAD 2023-2026
- MagiCAD for AutoCAD 2027 and AutoCAD 2023-2027

1.1.2 Installation

1. Download setup file from
<https://portal.magicad.com/download/ProductSearch?searchStr=Swegon&categoryId=3>
2. Ensure that you have required MagiCAD version installed on your computer (not needed if you only want to export ahu from AHU-Design to AutoCAD drawing)
3. Install the plugin by running the downloaded installer

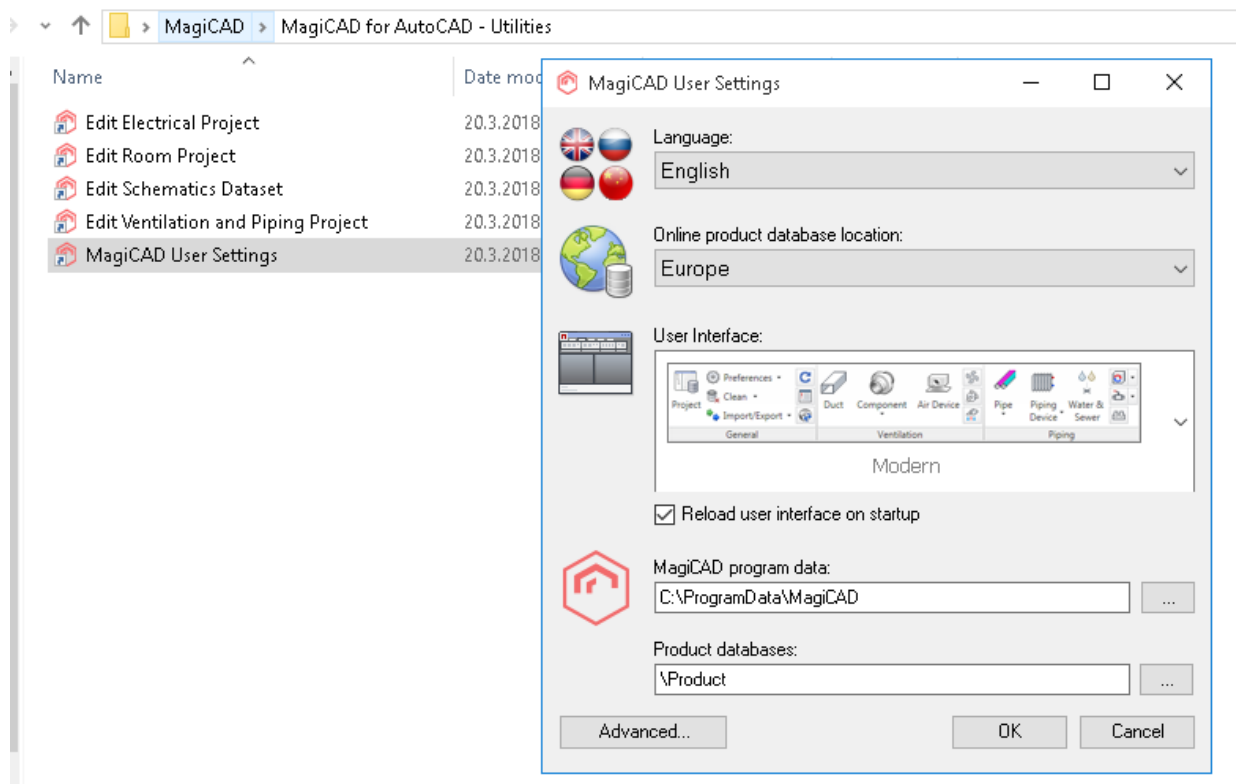
Administrator privileges are recommended for installation. **Note if you have several AutoCAD versions on your workstation:**

Before you run the installation program, start MagiCAD to make sure that *Swegon MagiCAD Plugin* installs on the same AutoCAD platform as MagiCAD.

2 Starting the program

Before you start using *Swegon MagiCAD Plugin*, start MagiCAD and open MagiCAD project. You will have Swegon MagiCAD plugin ribbon panel under MagiCAD Connect tab.

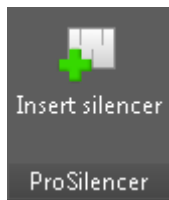
If ribbon is not loaded after MagiCAD is started, close AutoCAD&MagiCAD and open MagiCAD User Settings-dialog which is located in desktop MagiCAD folder in MagiCAD for AutoCAD – Utilities. In dialog select "Reload user interface on startup" and press ok. Start MagiCAD again.



3 How to use the plugin

3.1 Swegon ProSilencer plugin's User Interfaces

3.1.1 Insert Swegon Silencer




Follow these steps for Inserting Swegon's silencer into MagiCAD drawing:

1. Click Insert silencer button from plugin's ribbon panel in AutoCAD/Revit.
2. Plugins ask to point ductwork for getting air flow, sounds and dimensions. This phase can be skipped by pressing Esc button.
3. Swegon ProSilencer program is started



ProSilencer MagiCAD plugin for Revit - 2016.7.1.0

Search Silencer

☒ Circular  ☐ Rectangular 

☒ Straight  ☐ Bend 

Connection dim mm
Outer dim mm
Max. Length mm

☒ Noise demand
☐ Attenuation
☒ Enter sound level for each octave

	63	125	250	500	1000	2000	4000	8000	Hz	Sum	
Lw before	45	54	56	55	48	41	35	26		55	dB (A)
Max. Lw after											dB (A)

Airflow l/s
Max. pressure drop Pa

User code for selected device

Select silencer and then click Continue to import the silencer into CAD drawing.

 MagiCAD

Air flow, sounds and dimension values are auto-filled with values received from MagiCAD. If dimensions are not selecteable on ProSilencer then selection is "Any" by default.

4. Search silencers and selected one by clicking the row:

ProSilencer MagiCAD plugin for Revit - 2016.7.1.0

Search Silencer

Product	Connection	Outer	Length	Pressure drop	Lw after	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
CLA-A-315-500	315	462	500	2	46	4	6	7	9	12	8	8	5
CLA-A-400-1000	400	553	1000	1	40	5	9	12	16	23	14	8	6
CLA-A-400-500	400	553	500	1	46	4	6	7	9	12	8	6	4
CLA-B-250-1000	250	394	1000	21	33	7	12	17	30	43	40	34	16
CLA-B-250-500	250	394	500	21	42	3	6	8	14	24	32	20	9
CLA-B-315-1000	315	462	1000	14	35	6	10	14	26	45	42	21	12
CLA-B-315-500	315	462	500	14	42	4	6	8	14	25	19	14	8
CLA-B-400-1000	400	553	1000	4	36	5	9	14	23	40	24	13	9
CLA-B-400-500	400	553	500	4	42	4	6	8	14	22	16	10	6
CLA-B-500-1200	500	680	1200	1	35	5	7	16	24	30	22	16	14
CLA-B-500-600	500	680	600	1	37	4	5	15	23	29	20	15	14

	63	125	250	500	1000	2000	4000	8000	Hz	Sum
Lw before	45	54	56	55	48	41	35	26	dB	55
Attenuation	6	10	14	26	45	42	21	12	dB	
Noise generation	20	20	16	14	11	8	7	5	dB	17
Lw after	39	44	42	29	12	8	15	14	dB	35

Airflow	230	l/s
Face velocity	3.0	m/s
Pressure drop	14	Pa

Position

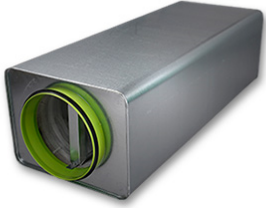
Notes

Back

User code for selected device

Select silencer and then click Continue to import the silencer into CAD drawing.

Continue Cancel



Remember give user code to the field at near right bottom corner.

5. When *Continue* -button is clicked silencer can be placed to the duct in MagiCAD.

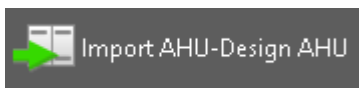
3.2 Swegon ahu-design plugin's User Interfaces

3.2.1 Main functions

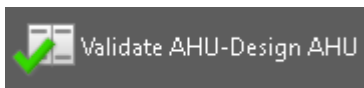
Plugin contains the following functions:



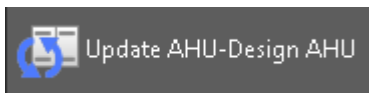
Opens the Air Handling Unit Designer web program(AHU Designer) where air handling units can be created and configured. Needs registering. User can choose products to be inserted to the drawing.



Import AHU by opening .mah-file. Quick way to add AHU to drawing.



Validates Swegon's air handling unit. Checks whether there is significant change in the working point. Gives warning to user in case AHU should be redimensioned.



Updates selected Swegon's air handling unit by opening AHU Designer. The selected air handling unit will be replaced/updated to the drawing.



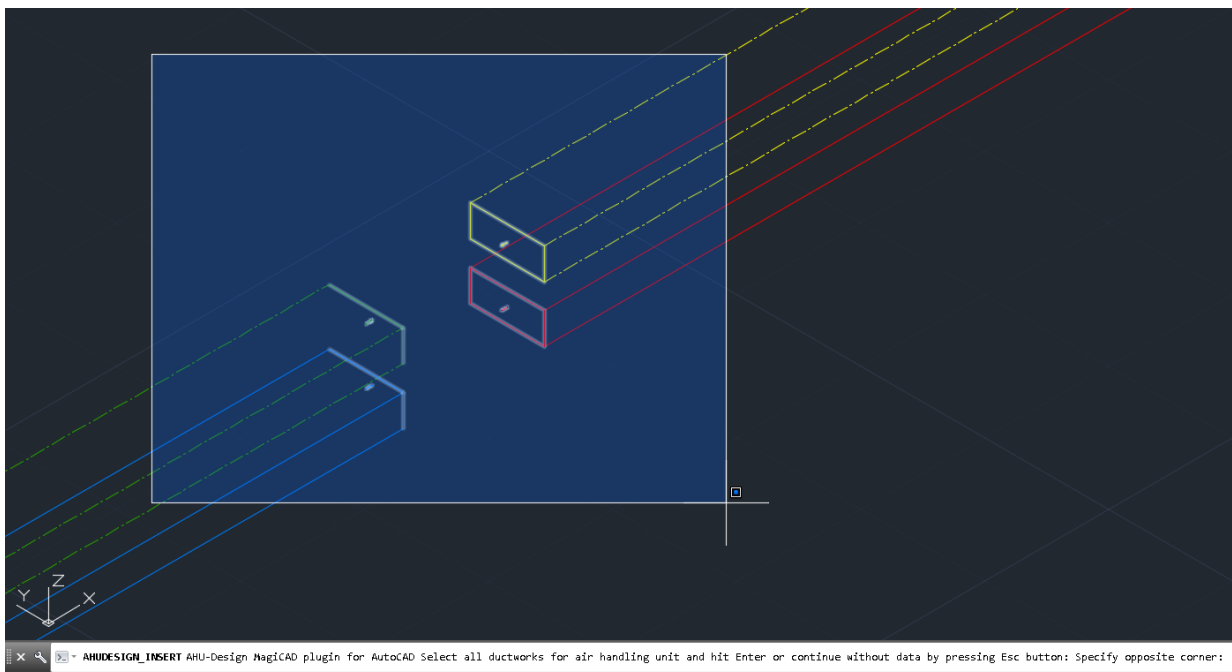
Allows user to view technical data of the selected product. The selected product can be air handling unit or duct component which is dimensioned by AHU Designer.

3.2.2 Insert Design AHU

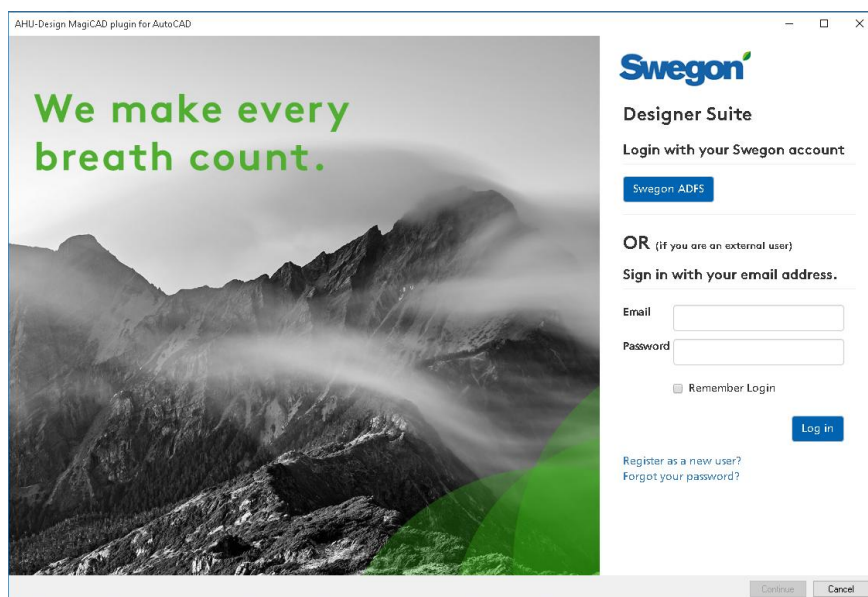


Follow these steps for Inserting Swegon's air handling unit into MagiCAD drawing:

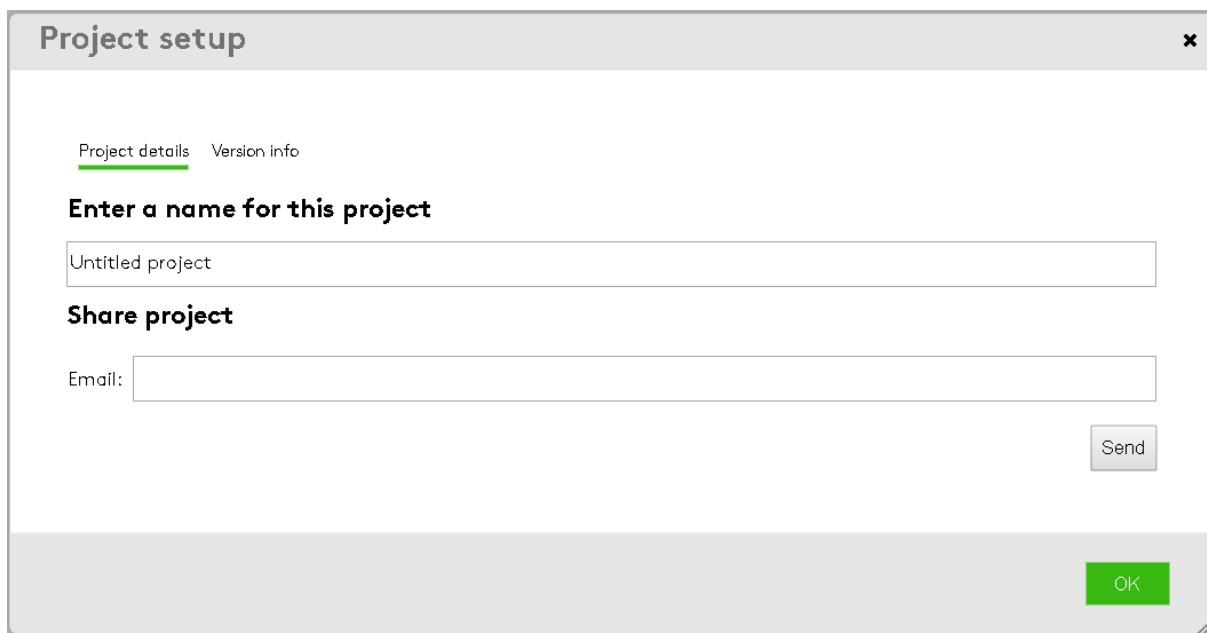
1. Click Insert AHU-Design AHU button from plugin's ribbon panel in AutoCAD/Revit.
2. User may point ductworks for getting air flows, pressure drops and MagiCAD systems and hitting enter in the end. This phase can be skipped by pressing Esc button.



- Swegon AHU designer program is started and user is asked to login to the application.



- User proceeds by choosing Air Handling Unit Designer-button





My project



AHU Design



IC Design

Project content Recent projects

Search ...



Status	Name	Unit type	Unit ID	Created	Size
--------	------	-----------	---------	---------	------

You have not added any Indoor Climate products yet

AHU-Design MagiCAD plugin for AutoCAD



Untitled project

Our applications

Air Handling Unit Designer

Add new unit

Indoor Climate Designer

Launch

Project content Recent projects

Air handling units

Filter

Status ▲	Name ▲	Unit type ▲	Unit ID ▲	Created ▲	Size
----------	--------	-------------	-----------	-----------	------

Indoor climate

You have not added any Indoor Climate products yet. [Click here to get started.](#)

Air flow and external pressure values are auto-filled with values received from MagiCAD. Airflow is taken from supply/extract system (outdoor/exhaust airflow are ignored here). If ducts were not selected before entering to AHU-Design, airflow and pressure drop values needs to be set manually. Make selections and continue with Create unit-button.

Create new unit

Tag

Line text

Placement

Supply air

Air flow

1,000 m³/s

Pressure drop

150 Pa

Outdoor air

Pressure drop duct

50 Pa

Extract air

Air flow

1,000 m³/s

Pressure drop

150 Pa

Exhaust air

Pressure drop duct

50 Pa

Type of heat recovery

None

Controller unit

Without

With

Unit type

GOLD F

Installation example

+ Create unit

Ok

Size

8

11

12

15

20

25

30

35

40

50

60

70

0.200 m³/s 7.500 m³/s

Extract air

Summer

Winter

Temperature

25,0 °C

22,0 °C

Relative Humidity

50 %

20 %

Outdoor air

Change in climate settings

Temperature

25,6 °C

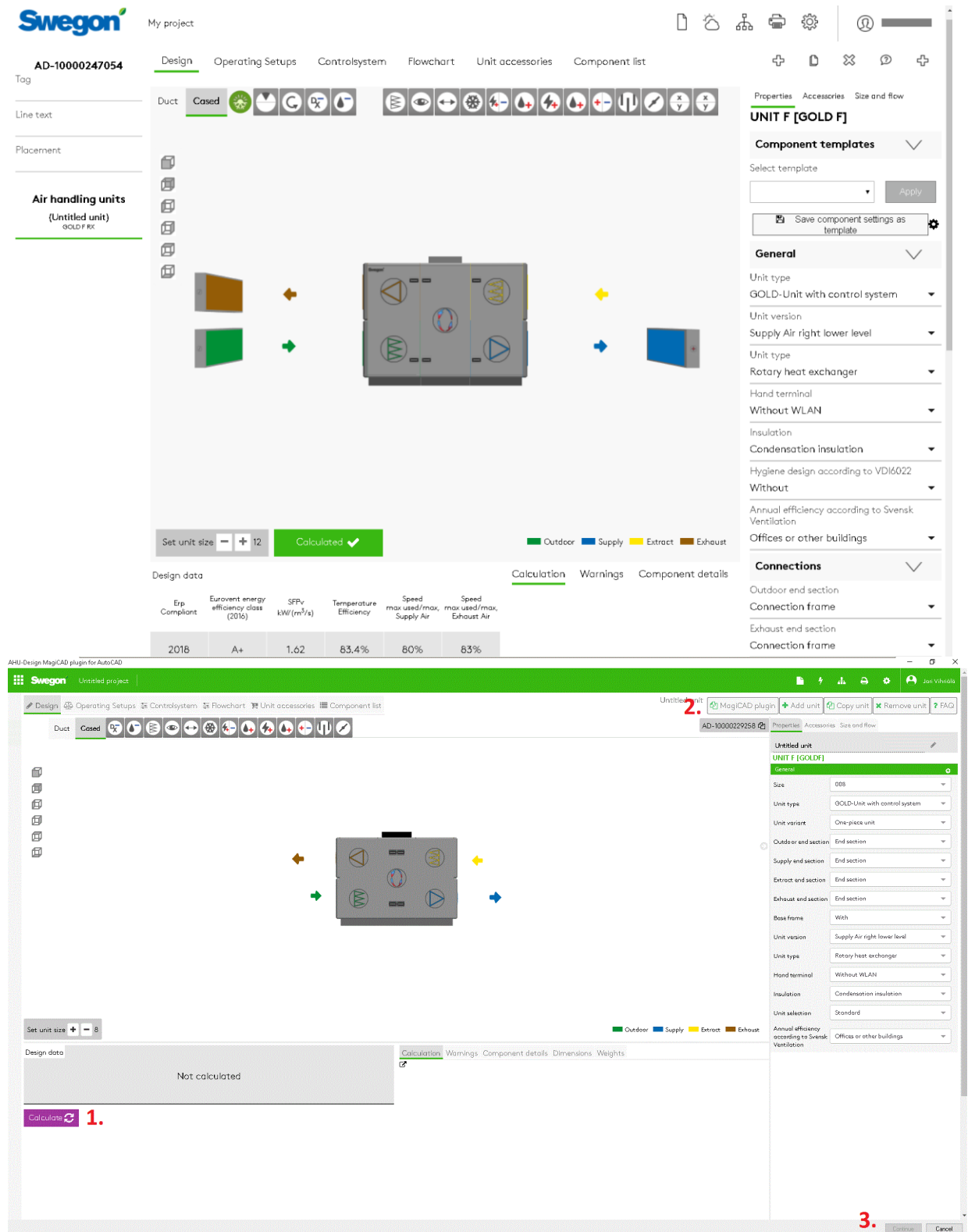
-20,2 °C

Relative Humidity

47 %

80 %

After unit type selection, user may modify unit, add parts etc. When unit is ready for exporting it to MagiCAD, user need first calculate it, then click MagiCAD plugin-button and finally click Continue-button. Notice that it takes few second before Continue-button is enabled.



Swegon My project

AD-10000247054

Design Operating Setups Controlsystem Flowchart Unit accessories Component list

Duct Cased

Air handling units (Untitled unit) GOLD F RX

Set unit size - + 12 Calculated ✓

Design data

Erp Compliant	Eurovent energy efficiency class (2016)	SFPv kW/(m³/s)	Temperature Efficiency	Speed max used/max Supply Air	Speed max used/max Exhaust Air
2018	A+	1.62	83.4%	80%	83%

Calculation Warnings Component details

Outdoor Supply Extract Exhaust

Swegon Untitled project

Design Operating Setups Controlsystem Flowchart Unit accessories Component list

Duct Cased

Set unit size + - 8

Design data

Not calculated

Calculate 1.

MagiCAD plugin 2.

AD-10000229258

Properties Accessories Size and flow

UNIT F [GOLD F]

Component templates

Select template

Save component settings as template

General

Unit type GOLD-Unit with control system

Unit version Supply Air right lower level

Unit type Rotary heat exchanger

Hand terminal Without WLAN

Insulation Condensation insulation

Hygiene design according to VDI6022 Without

Annual efficiency according to Svensk Ventilation

Offices or other buildings

Connections

Outdoor end section

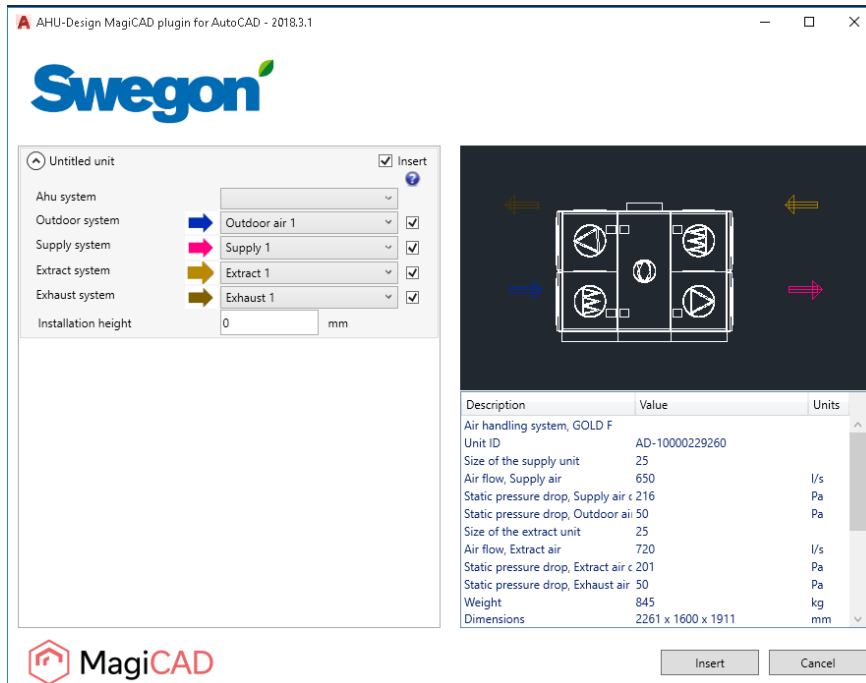
Connection frame

Exhaust end section

Connection frame

Continue 3.

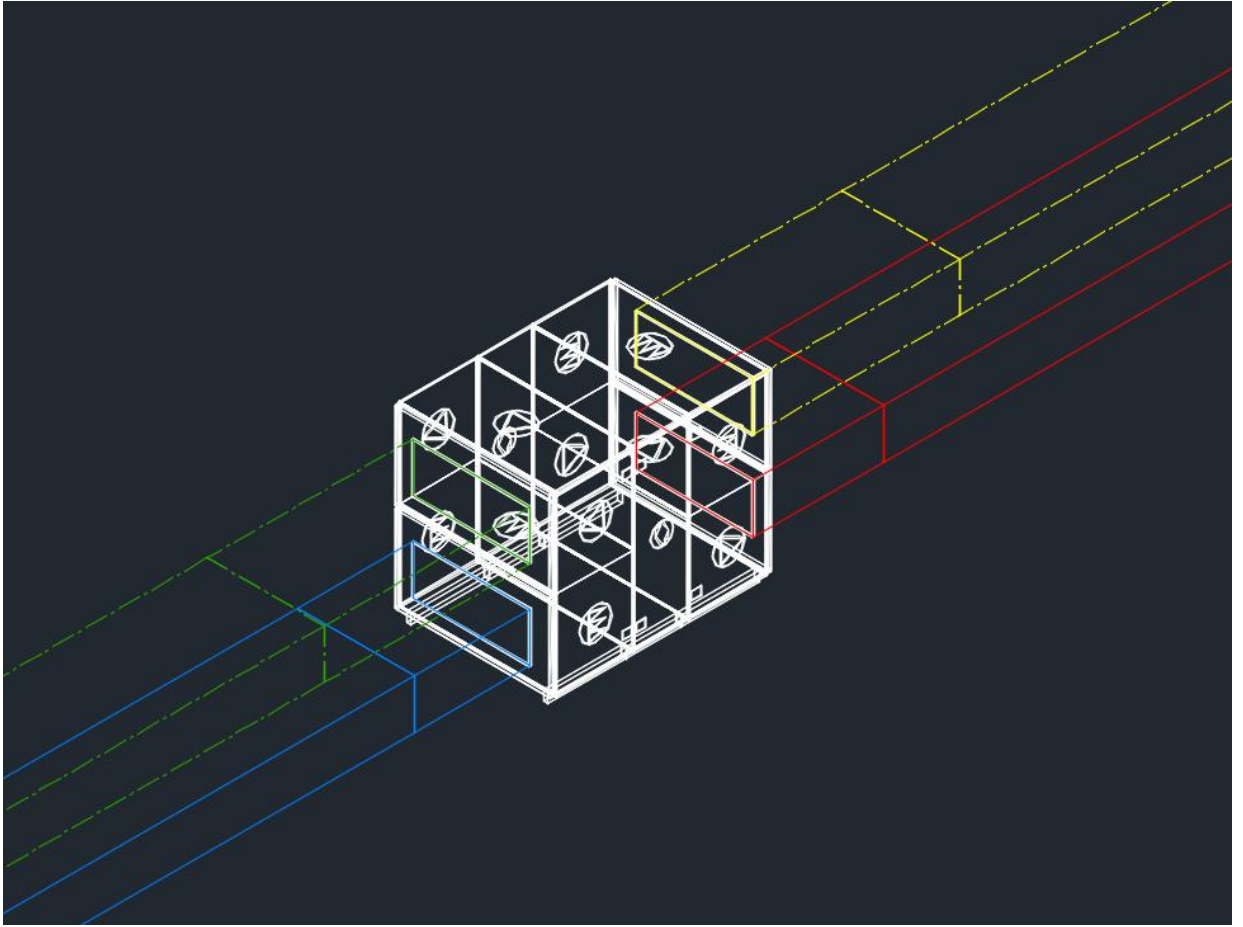
5. When *Continue* -button is clicked the following dialog is displayed for the user:



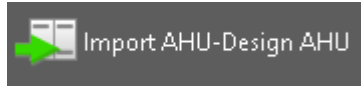
6. Available products are shown in list view on the left side of the dialog. Geometry of the product is displayed on the top right side. Before installing product to drawing, user needs to first select MagiCAD system (if MagiCAD drawing is available) for each duct connection (for each product installed to the drawing). Also installation height of the product can be defined here. Duct components inherit system selections from parent air handling unit.

The export supports also AHU-Designer specific data like SFP-values and sound levels. These can be reviewed with the function "View AHU-Design Data".

7. Once MagiCAD systems have been defined for all products, installation can be started by clicking *Insert* button. Notice that it's possible to uncheck insert checkbox in case you want to exclude some of the unit's from insert operation.
8. Products can be placed to the drawing one by one by dragging them to wanted position in the drawing. After products have been positioned in the drawing they can be connected to the ductwork.

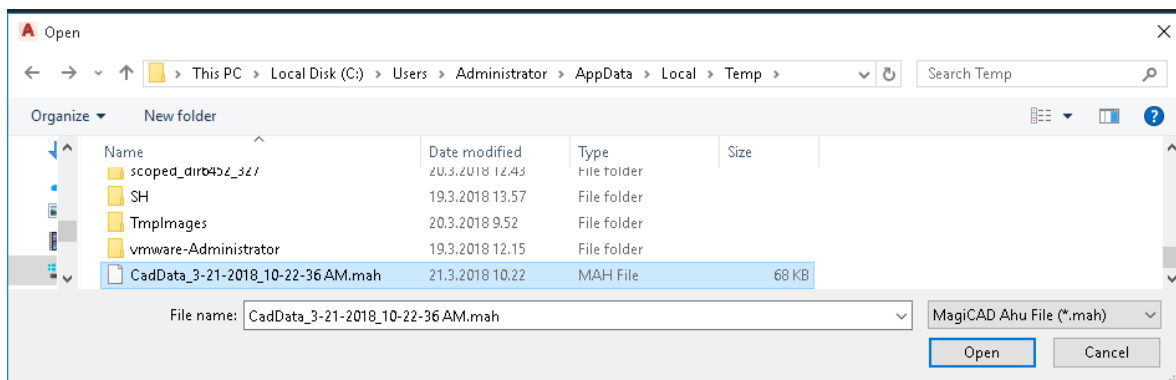


3.2.3 Import Design AHU

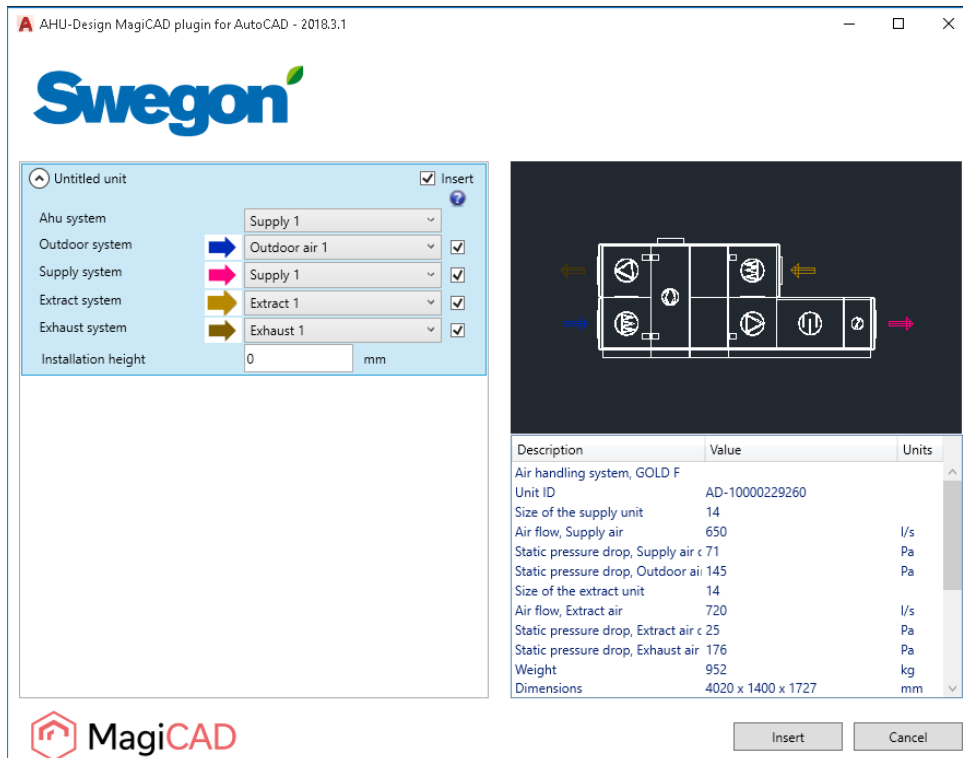


It is possible to import AHU to MagiCAD drawing without visiting the AHU Designer program. It is a quick and easy way to share and use the AHU. Before using the import command, an export file from AHU-Design needs to be requested from Swegon.

Click Import AHU-Design AHU-button and select .mah-file which contains Swegon AHUs exported from AHU-Design.



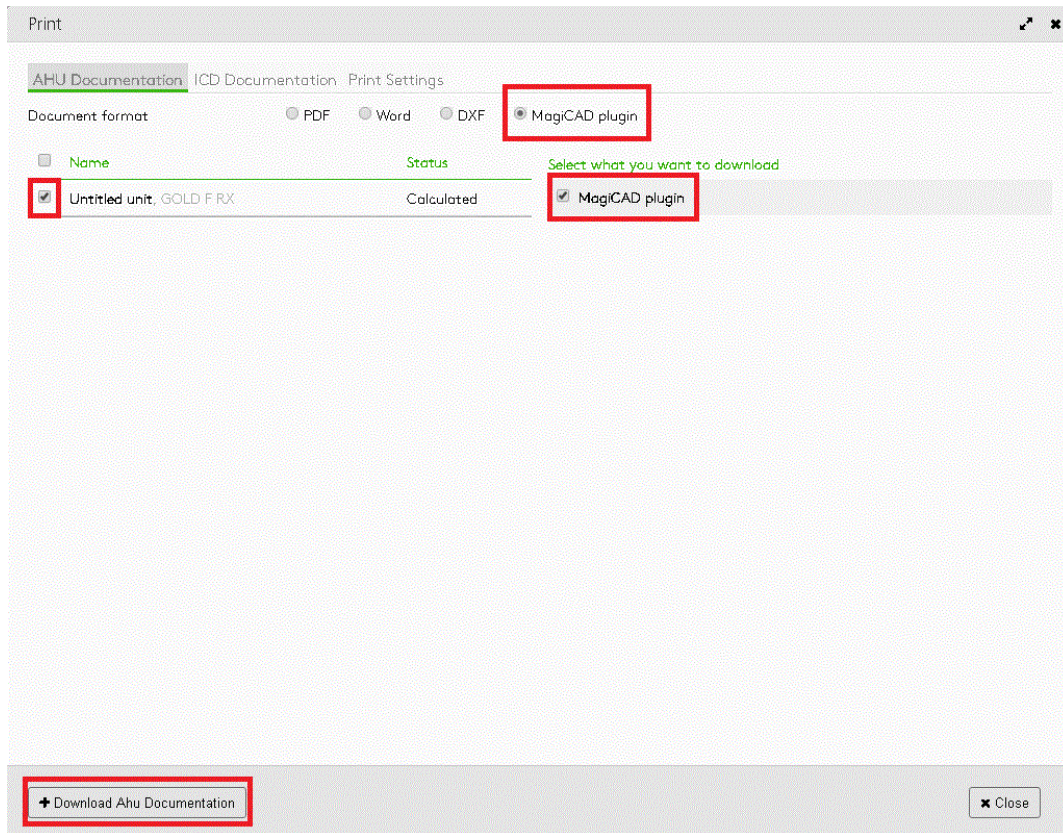
Click Open to import it to drawing. Available products are shown in list view on the left side of the dialog. Geometry of the product is displayed on the top right side. Before installing the product to drawing, the user needs to first select the MagiCAD system (if MagiCAD drawing is available) for each duct connection (for each product installed to the drawing). Also, the installation height of the product can be defined here. Duct components inherit system selections from the parent air handling unit.



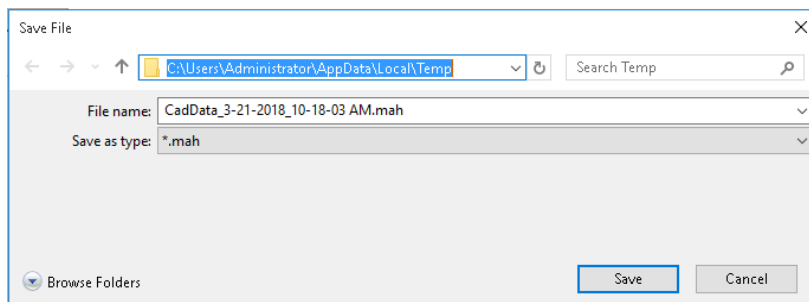
Exporting plugin file (.mah format) from AHU-Designer. After unit is calculated click Print button in right upper corner



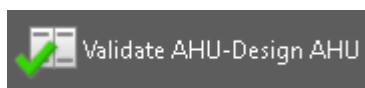
First choose the document format as MagiCAD plugin. Select one or more AHUs and check MagiCAD plugin box and finally press in left lower corner "Download Ahu Documents-button".



If needed, change directory for .mah-file and file name.



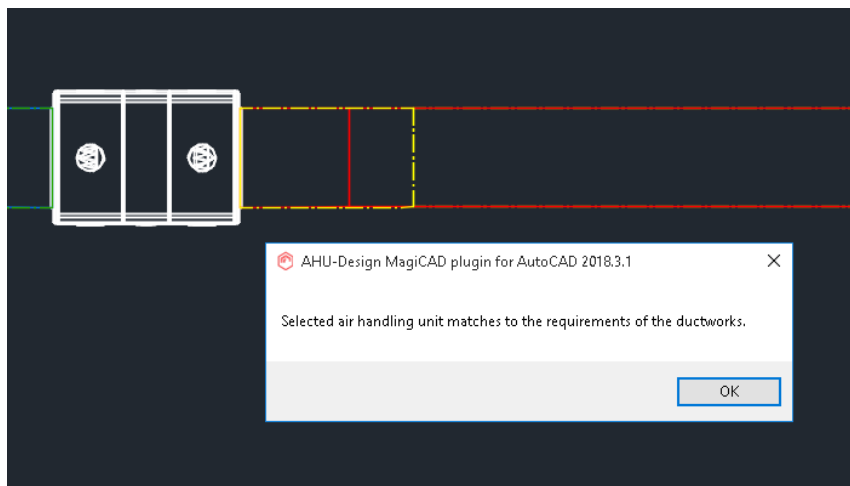
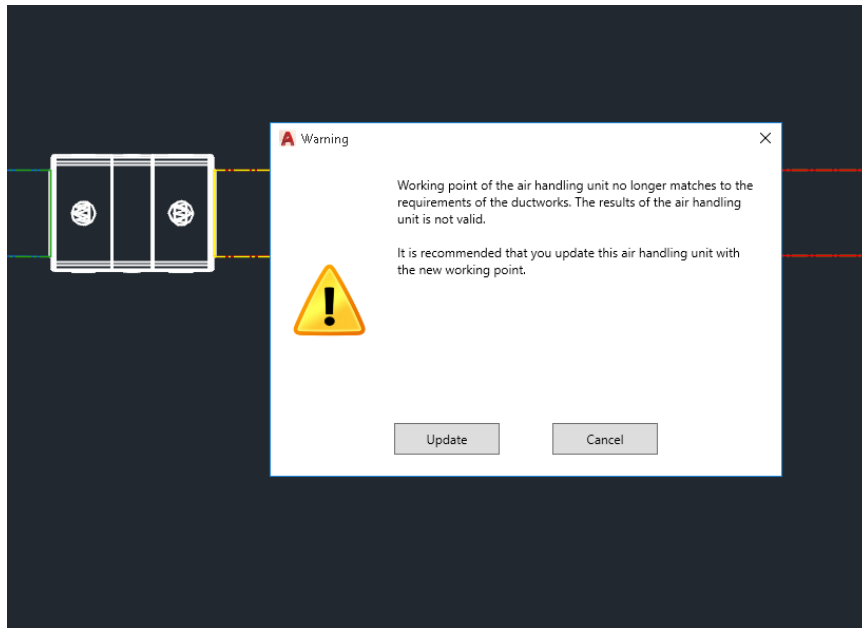
3.2.4 Validate Design AHU



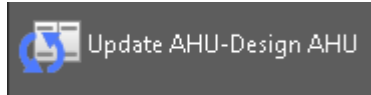
Follow these steps for Validating Swegon's air handling unit into MagiCAD drawing:

1. Run MagiCAD balancing for all system
2. Click Validate Swegon AHU button from plugin's ribbon panel in AutoCAD/Revit.

3. Select air handling unit from drawing which will be validated.
4. Plugins shows if validating is successfully passed or if AHU needs to be updated. If updating is needed user can continue to update or cancel the validation. Validation checks if selected air handling unit still meets the requirements of the ductwork (air flow and pressure drop) . There is 5% tolerance before the warning message is displayed for airflow and 10% tolerance for pressure drop.

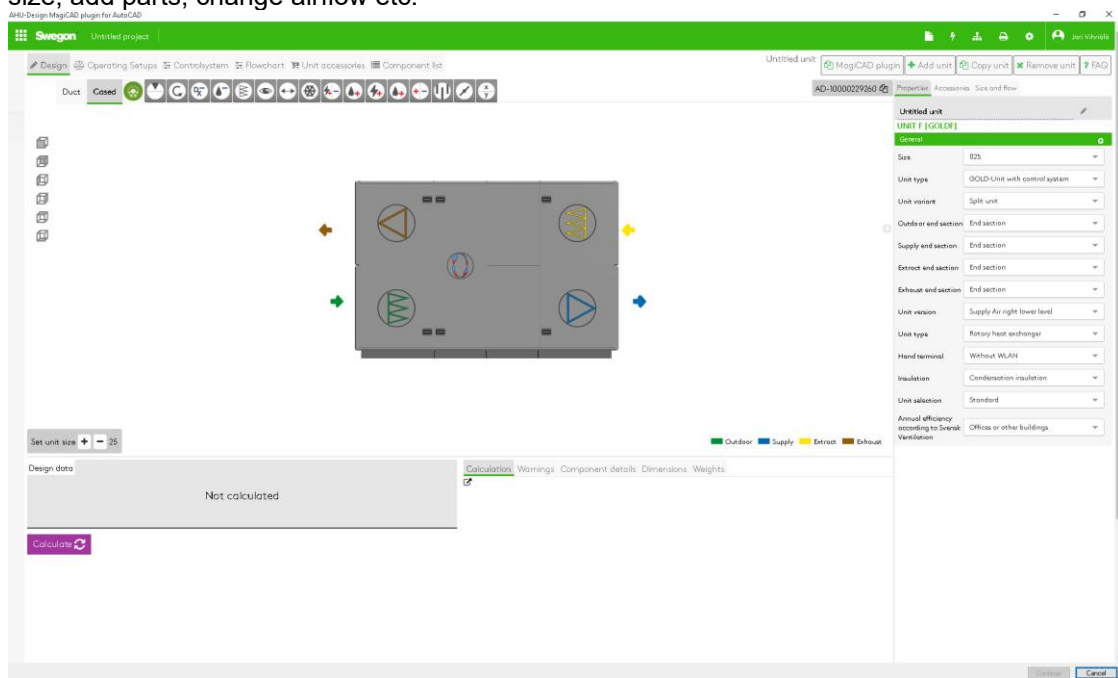


3.2.5 Update Design AHU

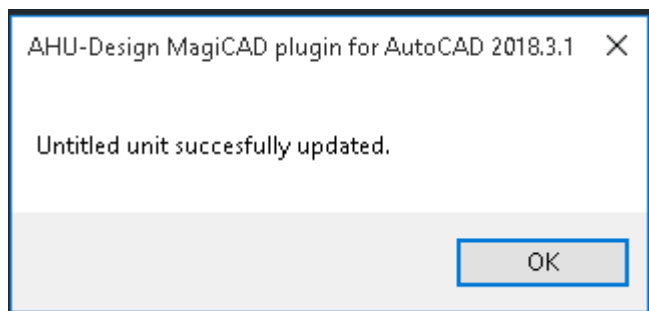


Follow these steps for Updating Swegon's air handling unit into MagiCAD drawing:

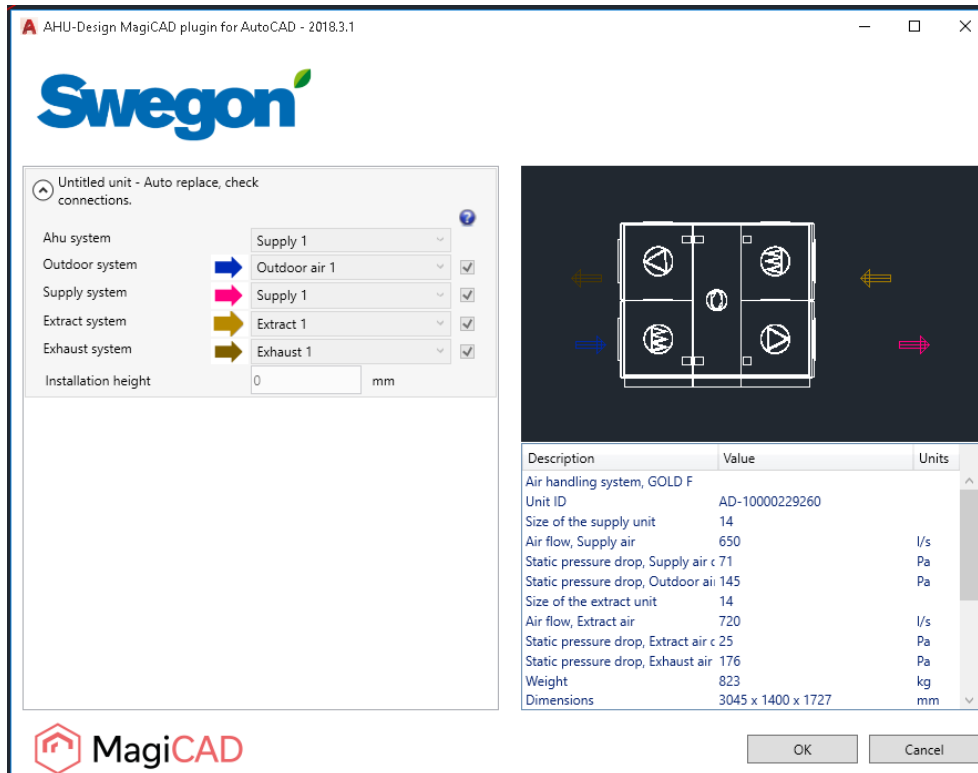
1. Click Update Swegon AHU button from plugin's ribbon panel in AutoCAD/Revit.
2. Select air handling unit from drawing which will be updated.
3. AHU Designer starts and open unit page automatically. Note that airflow and pressuredrop is read from duct connections if AHU is connected ductwork in MagiCAD. User may change unit size, add parts, change airflow etc.



4. After selections, user needs to calculate the AHU and press MagiCAD plugin-button and then continue-button. If AHU remains in same size, then this message comes:

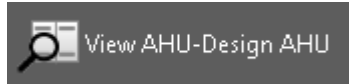


In case the air handling unit has been changed somehow (or switched to a completely another one), plugin performs replace operation. In replace operation plugin deletes the original air handling unit from the drawing and places new unit to same position with same MagiCAD system selections. Following dialog is displayed to user:



The dialog is purely informative, no actions are required. But if user has added new duct components during update, those will be inserted to the drawing at this point. From dialog user can see the MagiCAD systems automatically selected for new air handling unit. User can exit the dialog by clicking OK button.

3.2.6 View Design AHU data



Follow these steps for Viewing Swegon's air handling unit's data:

1. Click View Swegon AHU data button from plugin's ribbon panel in AutoCAD/Revit.
2. Install dialog will be shown. This dialog is same as in Insert Swegon AHU procedure. Only difference is that MagiCAD systems and installation height are not enabled.

