

A large, stylized red graphic composed of nested, thick-lined shapes that resemble a house or a series of connected lines, forming a complex geometric pattern. The shapes are white with red outlines, set against a white background.

# **Daikin MagiCAD plugin for Revit**

User guide

26/05/2023

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## 1 General

### 1.1 About this document

This document contains instructions on using *Daikin MagiCAD plugin for Revit*. The plugin is a CAD extension application for importing air handling units into Revit and MagiCAD for Revit from Daikin ASTRA application.

### 1.2 Installing the Software

#### 1.2.1 Required Third-party Software

Daikin MagiCAD plugins work with the following MagiCAD for Revit versions:

##### Revit

- Revit 2021 - 2024

##### MagiCAD (optional)

- MagiCAD for Revit 2023 with Revit 2021 - 2023
- MagiCAD for Revit 2024 with Revit 2021 - 2024

#### 1.2.2 Installation

1. Download setup file from  
<https://portal.magicad.com/download/ProductSearch?searchStr=Daikin&categoryId=3>
2. Install Daikin MagiCAD plugin for Revit.

Administrator privileges are recommended for the installation.

### 1.3 Air handling units for the plugin

The air handling unit must be configured in the Daikin ASTRA application before using the plugin.

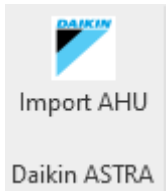
The plugin receives the air handling unit data from the Daikin ASTRA application in the transfer file (file extension is MAH). The transfer file must be saved somewhere where the plugin can use it.

The transfer file can contain more than one air handling unit at a time.

## 2 Features

### 2.1 Daikin MagiCAD Plugin User Interface

The plugin can be found in *Add-Ins* menu in Revit.



### 2.2 Import AHU

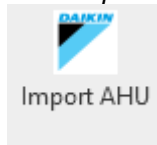
This feature allows the plugin user to select a transfer file (\*.MAH) and import the air handling unit(s) to Revit and MagiCAD for Revit.

Before the *Import AHU* feature from the plugin is used, the air handling unit(s) needs to be first exported from the Daikin ASTRA application.

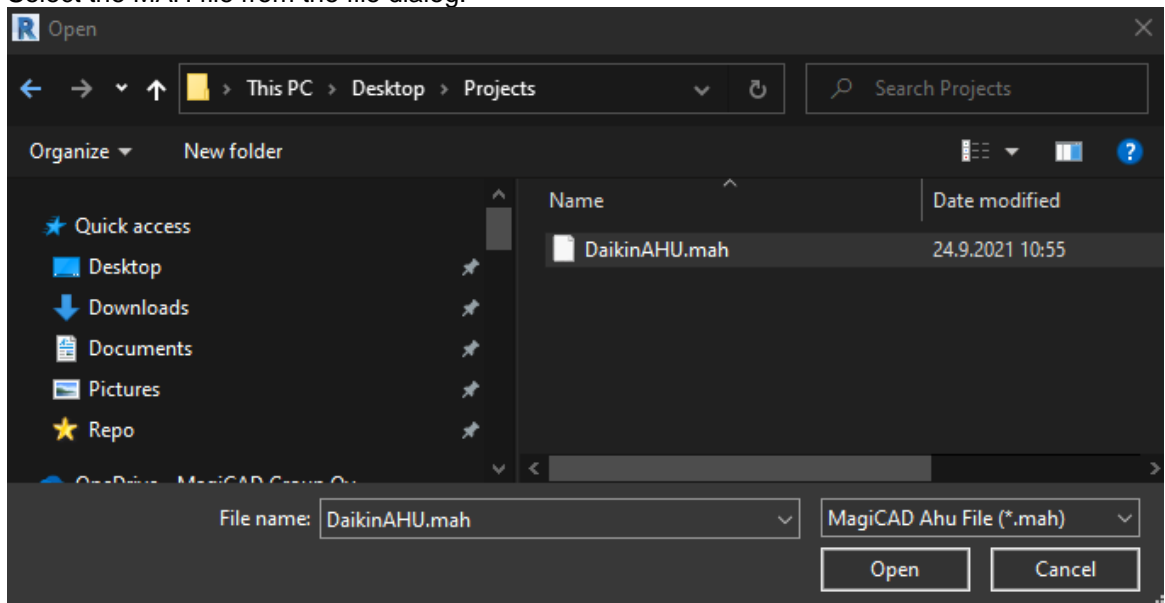
The user of the Daikin ASTRA web application and the plugin can be a different person.

Follow these steps for importing a Daikin air handling unit into MagiCAD/Revit.

1. Click *Import AHU* button from Add-Ins ribbon panel in Revit.



2. Select the MAH file from the file dialog.



- After clicking the *Open* button, the plugin reads the transfer file (\*.MAH) and loads the air handling unit(s) to the installation dialog.



The geometry of the product is displayed on the top right side. The product can be zoomed with the mouse wheel.

Before installing the product to the Revit or MagiCAD for Revit, the systems can be selected for each duct connection. The systems for each duct connections are read from the active Revit project. The duct system selections are not mandatory at this point.

The plugin supports also pipe connections (heating and/or cooling). The system selections for the pipes are shown in the installation dialog if the air handling unit contains pipe connections. The pipe system selections are not mandatory at this point.

The installation height (offset) of the product can be defined in the installation dialog. The offset value can be changed later in Revit.

Please notice that it is possible to uncheck *Insert* checkbox in case you want to exclude some of the air handling units from the insert operation.

4. Once the selections have been made in the installation dialog, the insert operation can be started by clicking *Insert* button.

At this point, the plugin creates the geometry (RFA) of the air handling unit and sets all technical data for the air handling unit in place.

5. The product(s) can be placed to the Revit one by one by dragging them to wanted position.

Once the air handling unit is inserted to Revit, the air handling unit can be connected to ducts and pipes.

If the MagiCAD for Revit is installed, the air handling unit can be included to MagiCAD calculations by using MagiCAD features.