

Chapter 4 AutoCAD Connection

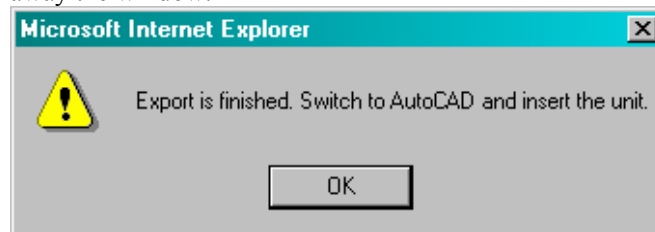
ProUnit web version

To be able to transport the unit to for example an AutoCAD drawing, you can in ProUnit make a dxf-file which transports the whole unit as a file. A better way is however to use an additional program, ProUnitCAD, which is on Swegon's home page. The installation file is called "ProUnit MagiCAD connection x32 web.exe". If you have a 64-bit operating system, then please use "ProUnit MagiCAD connection x64 web.msi" instead. ProUnitCAD is a program which gives the user greater possibilities to import the units and accessories in a better way.

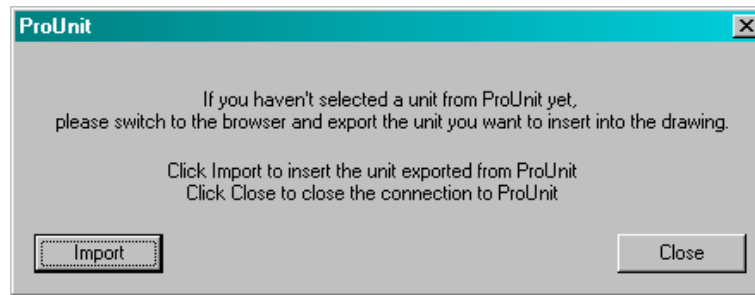
You can choose if the unit should have the accessories, such as coils or dampers, attached to the unit or if they should be placed separate. This must be done in ProUnit before the unit is saved and transferred to CAD.

Bellow there is a description how the program is used.

1. Install the program on to the computer by using the file mentioned above. Make sure you have the rights to install the program to the computer.
2. Make sure you have an object that has been produced in ProUnit. ProUnit should then be **closed**.
3. Start AutoCAD.
4. The first time the program is used you must load a toolbox. Write "menuload" in Command row. Load the file "ProUnitCAD.mnu" under C:/Program files/Swegon/ProUnit.
5. Click the fan symbol "Draw unit" in ProUnitCAD toolbar to start ProUnit and load the unit.
6. Login to ProUnit with your user name and password.
7. Open the file (*.pru) you want to transport the unit from and choose the unit to be imported. When you have marked the unit press "Export to ACAD". The window bellow will appear which tells you the unit has been transported, press OK to take away the window.



8. Change to AutoCAD without closing ProUnit.
9. The window below will appear in AutoCAD. Press "Import" in this window. Click on the screen to position the unit in the correct place and specify the direction (press button "Enter" only if you do not want to change direction).



10. After the first unit has been installed the same window will come up again. If you do **not** want to import more units answer **"Close"** but if you want to import more units **change to ProUnit** without taking any action in the window. Do as step 6-7 and then answer "Import" in the window in AutoCAD. The other units are transported in the same way. When you have finished answer "Close" to the question and AutoCAD can be used as usual.
11. Close ProUnit.
12. For showing the data of the unit click on the toolbar "Show the data of the unit". If connection points should be shown choose the button "Show the connection locations". If connection points are not visible then please turn on DefPoints-layer.

ProUnit windows version

To be able to transport the unit to for example an AutoCAD drawing, you can in ProUnit make a dxf-file which transports the whole unit as a file. A better way is however to use an additional program, ProUnitCAD. The program is included in ProUnit Windows installation, no extra installation is needed for 32-bit computer. If you have a 64-bit operating system, then please install "ProUnit - 64-bit CAD Plugin for Win version.msi" after ProUnit Windows version is installed. ProUnitCAD is a program which gives the user greater possibilities to import the units and accessories in a better way.

You can choose if the unit should have the accessories, such as coils or dampers, attached to the unit or if they should be placed separate. This must be done in ProUnit before the unit is saved and transferred to CAD.

Bellow there is a description how the program is used.

1. Start AutoCAD.
2. The first time the program is used you must load a toolbox. Write "menuload" in Command row. Load the file "ProUnitCAD.mnu" under C:/Program files/Swegon/ProUnit.
3. Click the fan symbol "Draw unit" in ProUnitCAD toolbar to insert a unit from the program. Fetch the file were the units are saved and chose which unit to import.
4. Click on "Export to ACAD" and then add the unit to the drawing. It shows how many blocks are to be imported in the command row. Load the unit and choose the direction, just press "Enter" if the direction is not to be changed.
5. For showing the data of the unit click on the toolbar "Show the data of the unit". If connection points should be shown choose the button "Show the connection locations". If connection points are not visible then turn on DefPoints-layer.

MagiCAD Connection

ProUnit has a direct connection to MagiCAD. The connection insert ducts and transfer sound power data for the calculation direct to the connection frame on the unit. This MagiCAD connection is installed automatically together with ProUnitCAD if MagiCAD is installed on the computer. To get the sound power data it has to be MagiCAD version 2006.11 or later. For earlier versions of MagiCAD the duct connections are drawn on the unit.

1. Start a MagiCAD drawing and add a unit see chapter AutoCAD connection and read the instruction for either web or windows version.
2. Click on the puzzle part in MagiCAD:s tool box or write the command "SWEGON_MCCONN". The program then draws a duct part on each connection frame. Each duct part contains sound power levels that are used later in the sound calculation. The sound data can be visualized be using MagiCAD's command "Part Properties" (write command MAGIPPR or click Part properties-button in MC-HP&V Edit toolbar).

3.

ProUnitCAD - Unit data

Description: Lultbehandlingssystem GOLD

	SUPPLY		EXTRACT	
Unit size	08		08	
Air flow	0.7	m ³ /s	0.7	m ³ /s
Total pressure rise	552	Pa	461	Pa

Unit dimensions

Total length	1600	mm
Total width	990	mm
Total height	1085	mm
Weight	446	kg

Sound

	Hz	63	125	250	500	1k	2k	4k	8k	dB(A)
To supply air duct		84	79	76	72	70	70	66	54	76
To outdoor air duct		82	81	75	70	57	53	46	38	71
Surroundings, supply		74	66	55	53	39	40	35	26	55
To exhaust air duct		85	80	78	74	72	73	69	57	79
To extract air duct		82	81	75	70	57	53	46	38	71
Surroundings, extract		74	66	55	53	39	40	35	26	55
Surroundings, both		77	69	58	56	42	43	38	29	58

DUCT CONNECTIONS

Duct connection (mm): 400

Diagram showing air flow between OUTDOOR and ROOM environments. Arrows indicate Exhaust air and Extract air leaving the ROOM, and Outdoor air and Supply air entering the ROOM.

OK