Version: 03	EN
Date of issue: 30.8.2022	
Code: FAQ_BIM.import_V03_EN_2022_08	
Author: Jiří Rejman	

DUPLEX units

Import of RFA and IFC models to Revit SW

Contents

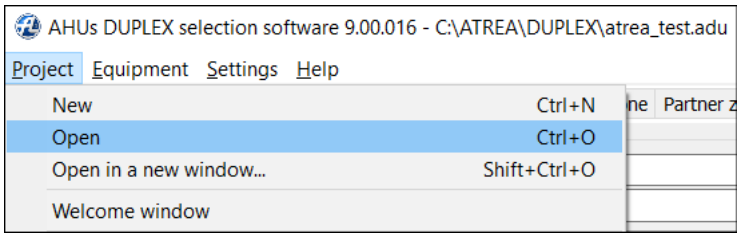
1. Introduction

The selection software for DUPLEX units supports the export of unit models in formats RFA and IFC. These formats are compatible with the system of BIM (Building Information Modelling). This means that DUPLEX ventilation unit models including additional data such as dimensions, air volume, external static pressure and heat recovery efficiency rates can be entered into the Revit application. Similarly, EASY box or SMART box models can be uploaded. Versions Revit 2016 and newer are supported.

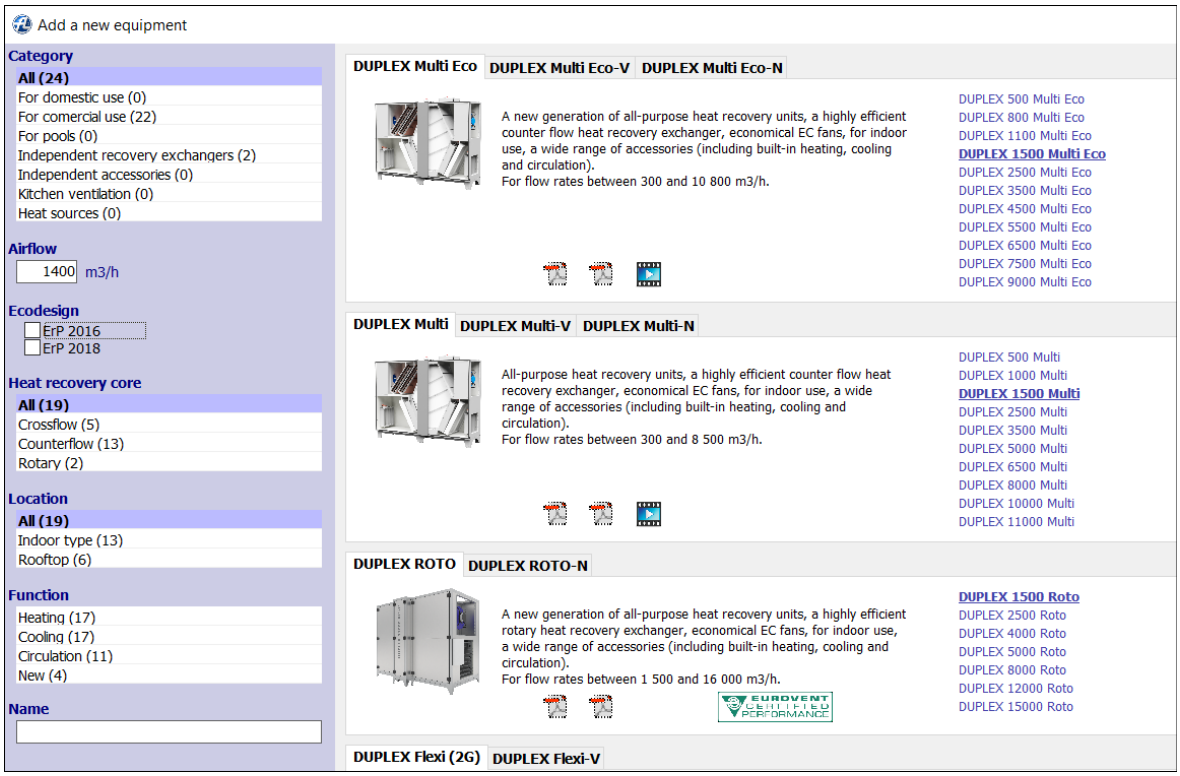
2. Exporting RFA models from Atrea selection software

RFA model of DUPLEX units can be exported from Atrea's selection software.

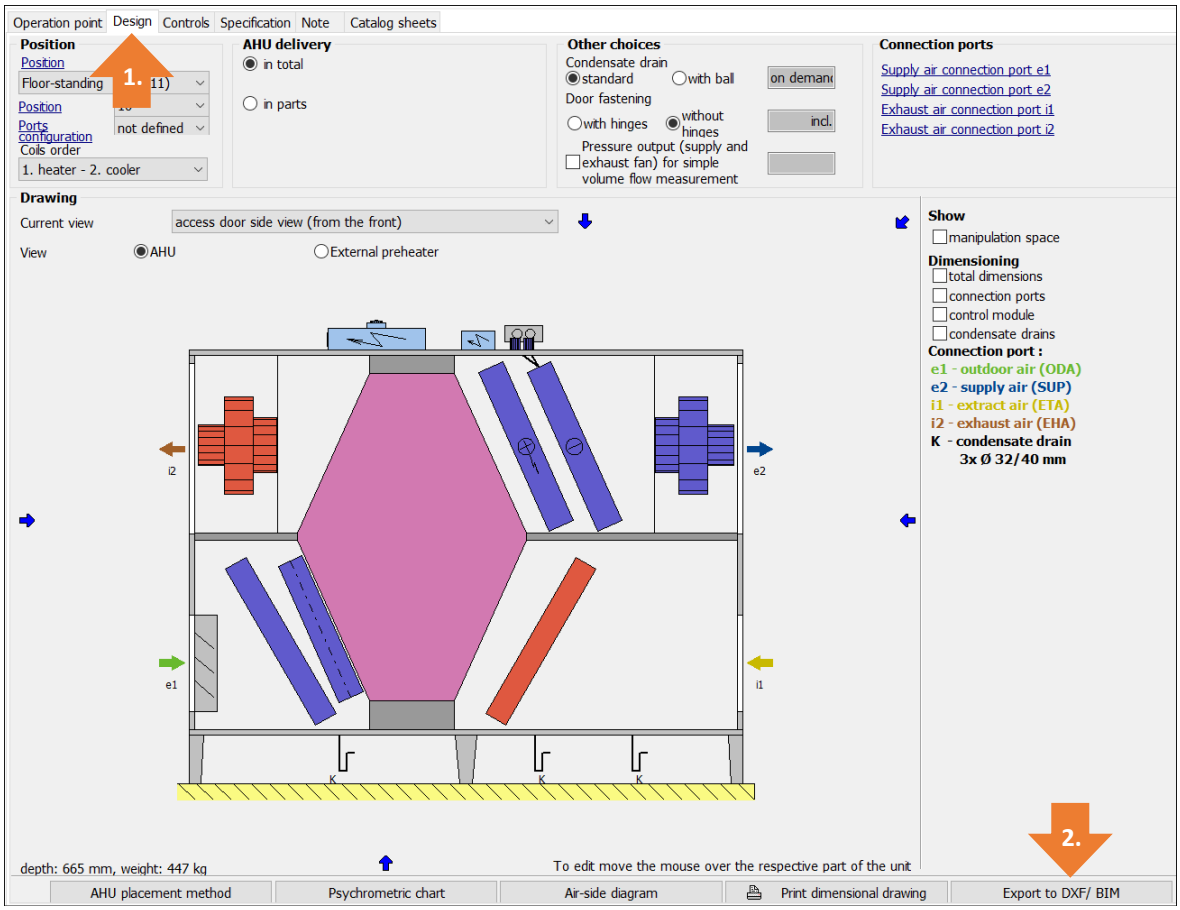
1. Download Atrea's selection software from www.atrea.com/en/duplex-en.
2. Install it.
3. Open a DUPLEX design in Atrea's selection software. Select **Project** > **Open**; the design file has extension .adu.



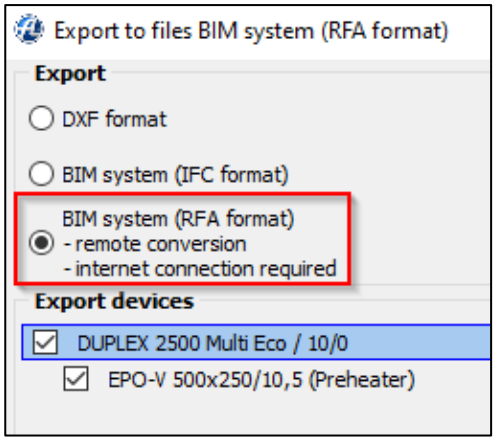
Alternatively, design a DUPLEX unit by selecting **Equipment** > **Add a new equipment**. For the design wizard go to www.atrea.com/en/duplex-en, part Ventilation unit design procedure.



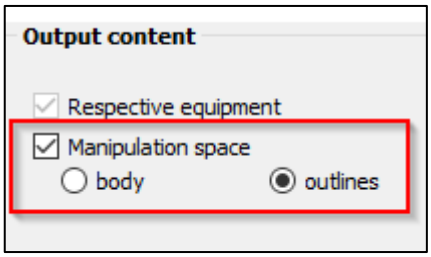
4. Select the **Design tab** > **Export to DXF / BIM**



5. Select **BIM system (RFA format)**



Besides air handling unit DUPLEX, external preheaters or reheaters can also be exported to RFA model. Select which components to export.



Along with the device model, you can also export its needed manipulation space.

Confirm your selection. Save the file created in .rfa format. Next, open the file in the SW Autodesk Revit.

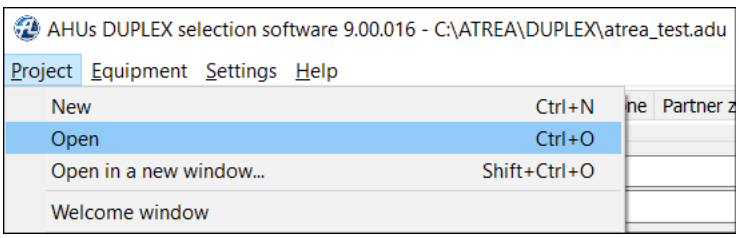
! Internet connection is needed to export the model of DUPLEX unit to RFA format.

The steps are shown in a video https://youtu.be/fD7CZ2dXLEU.

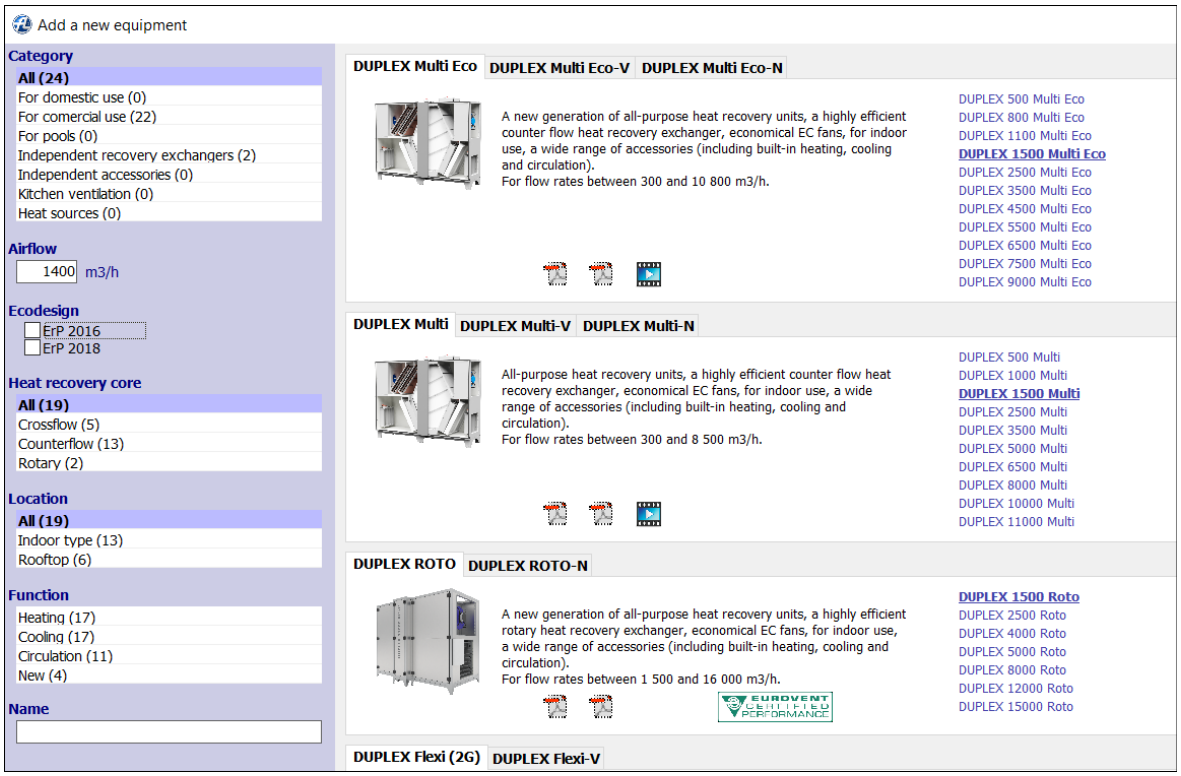
3. Exporting IFC models from Atrea selection software

IFC models of DUPLEX units can be exported from Atrea's selection software.

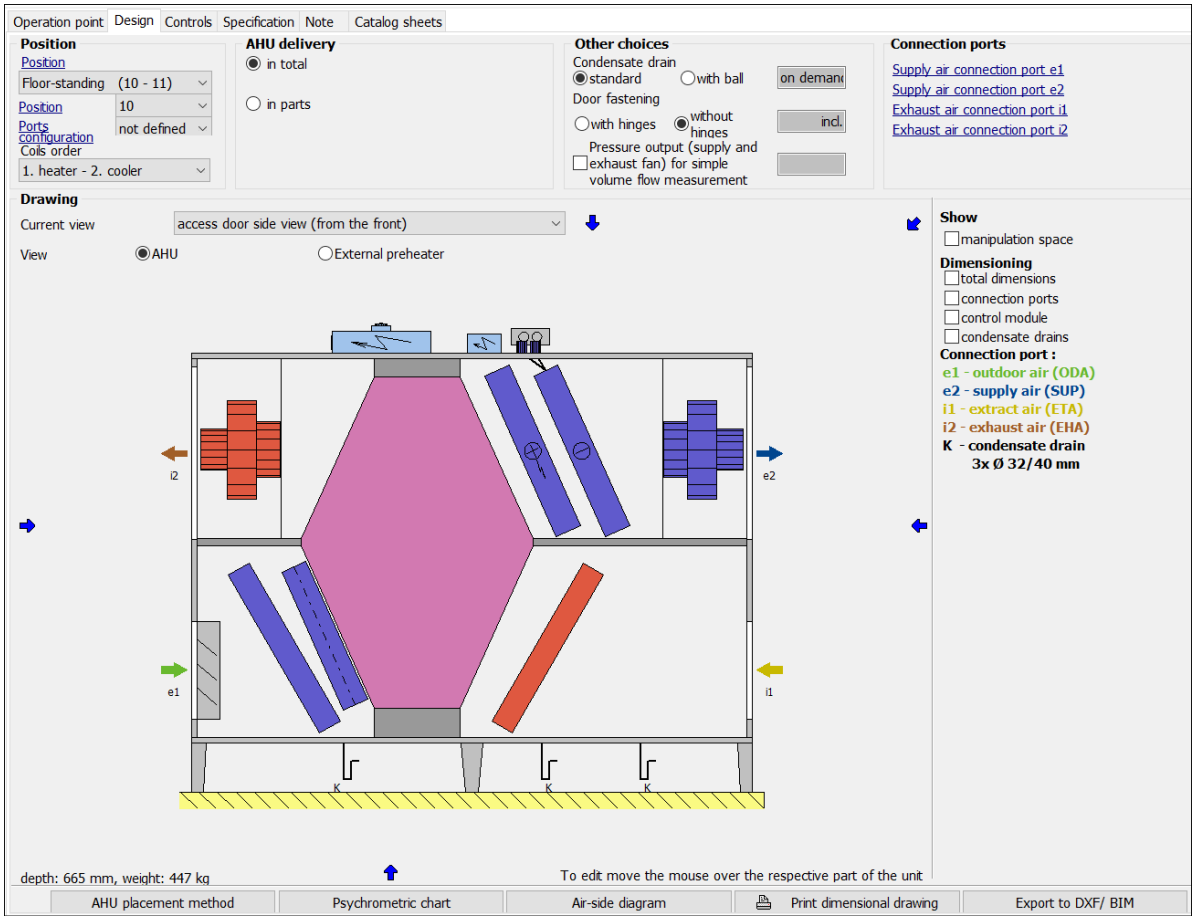
1. Download Atrea's selection software from www.atrea.com/en/duplex-en.
2. Install it.
3. Open a DUPLEX design in Atrea's selection software. Select **Project** > **Open**; the design file has extension .adu.



Alternatively, design a DUPLEX unit by selecting **Equipment** > **Add a new equipment**. For the design wizard go to www.atrea.com/en/duplex-en, part Ventilation unit design procedure.



4. Select the **Design tab** > **Export to DXF / BIM**

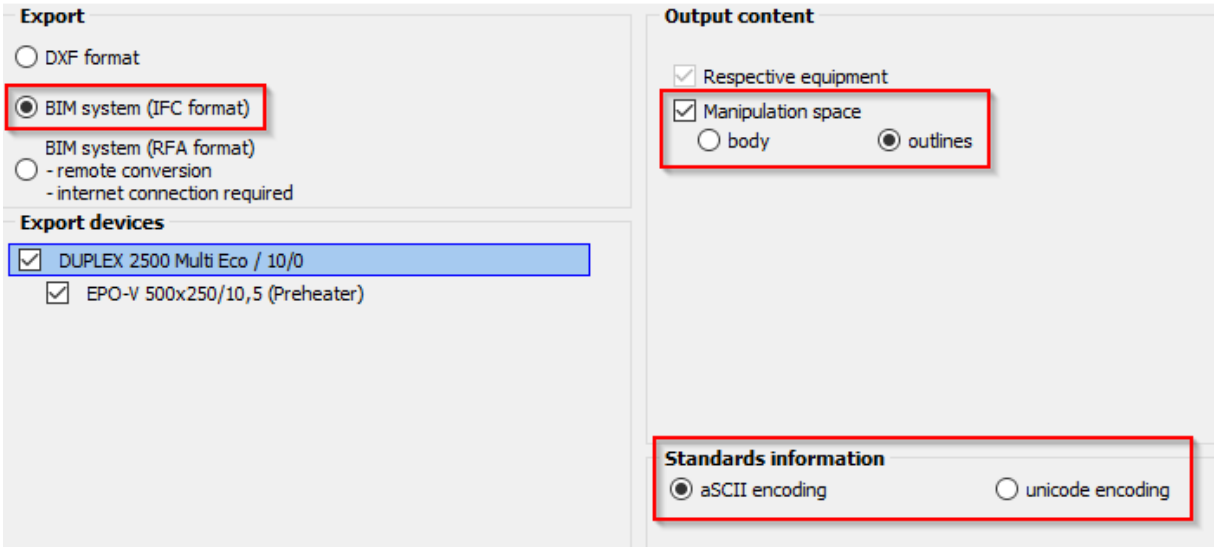


5. Select **BIM system (IFC format)**

Select **Manipulation space** to add to the IFC model also the manipulation space needed for operation and maintenance of the unit.

In **Standards information** decide which character encoding the IFC model shall have. The option is useful in case national characters are not displayed correctly.

a. ASCII – viewers of IFC models available as freeware,
b. Unicode – for SW Autodesk Revit.



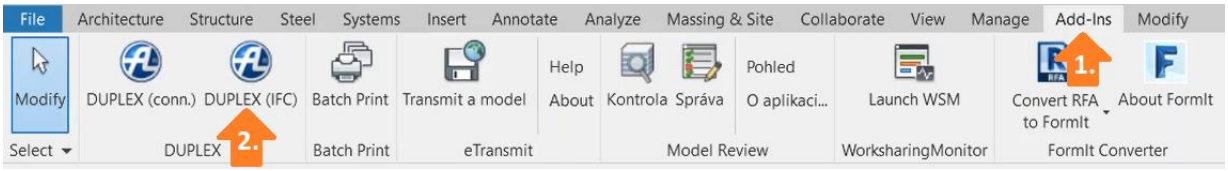
6. Save the file created in the .ifc format.

4. Importing IFC models to Revit

DUPLEX unit models in .ifc format can be imported to the Revit application using Atrea's selection software. If you are not using the selection software, ifc models can be imported to Revit using a stand-alone add-in feature.

4.1. Importing IFC models from Atrea selection software

1. Download Atrea's selection software from www.atrea.com/en/duplex-en and install it.
2. Start-up Autodesk Revit. DUPLEX (con.) and DUPLEX (IFC) add-ins will be newly displayed.
3. Select **Add-Ins** > **DUPLEX (IFC)**.



4. Select the DUPLEX unit model saved as an .ifc extension file. The DUPLEX unit including connectors will be imported.
5. Suitable ductwork can now be connected by using connectors on the unit's ports.

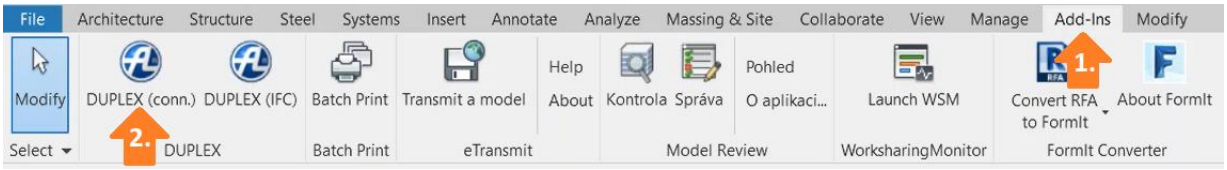
! Import IFC models of DUPLEX units to Revit using the add-in only. If an IFC model is imported directly, the imported unit will be without connectors and additional data.

4.2. Importing IFC models without using Atrea selection software

1. Download the *aduforrevit.exe* add-in for Revit from www.atrea.com/en/duplex-en.
2. Install the add-in.
3. In Revit select **Add-Ins** and choose the add-in you have installed.
4. Select the file saved in .ifc format. The DUPLEX unit will be imported including connectors.

4.3. Importing DUPLEX units from Atrea selection software

1. Download Atrea's selection software from www.atrea.com/en/duplex-en;
2. Install the SW;
3. In Revit select **Add-Ins** > **DUPLEX (conn.)**. Atrea's selection software will open.



4. Open an existing design or create a new DUPLEX unit design – see chapter 2, step 3.
5. When the design is completed, select Insert devices to Revit.

6. Select which device from the design should be inserted in the Revit application.
7. The DUPLEX unit will be imported including connectors.
8. Suitable ductwork can now be connected via connectors on the unit's ports.