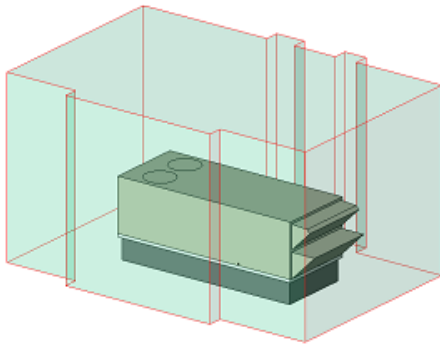


## Working with Daikin and McQuay Revit<sup>®</sup> Family Parameters

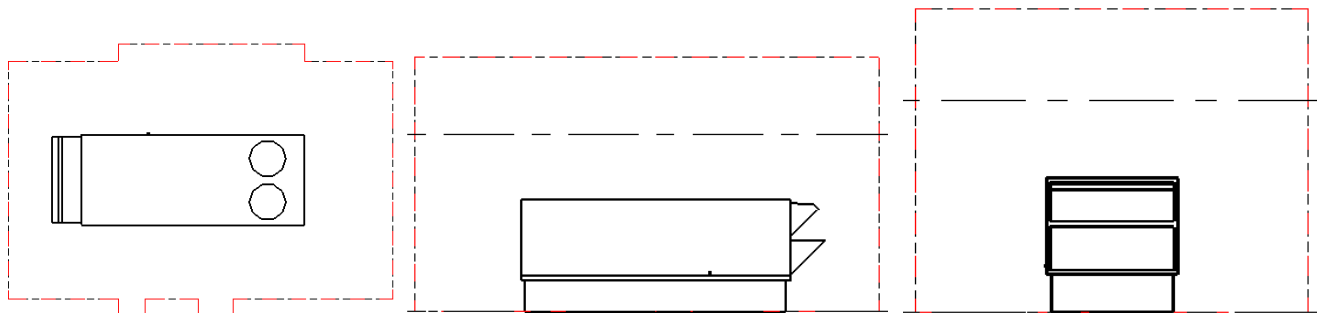
Daikin and McQuay Revit family files include parameters which are useful for controlling the functionality and appearance of the family instances in your project.

### **Controlling Clearance Volumes**

Clearance information is provided in Daikin and McQuay families using 3D clearance volumes, as can be seen here:



When turned on, clearance information is also visible in the standard projection views (floor plan, North, West, etc.):

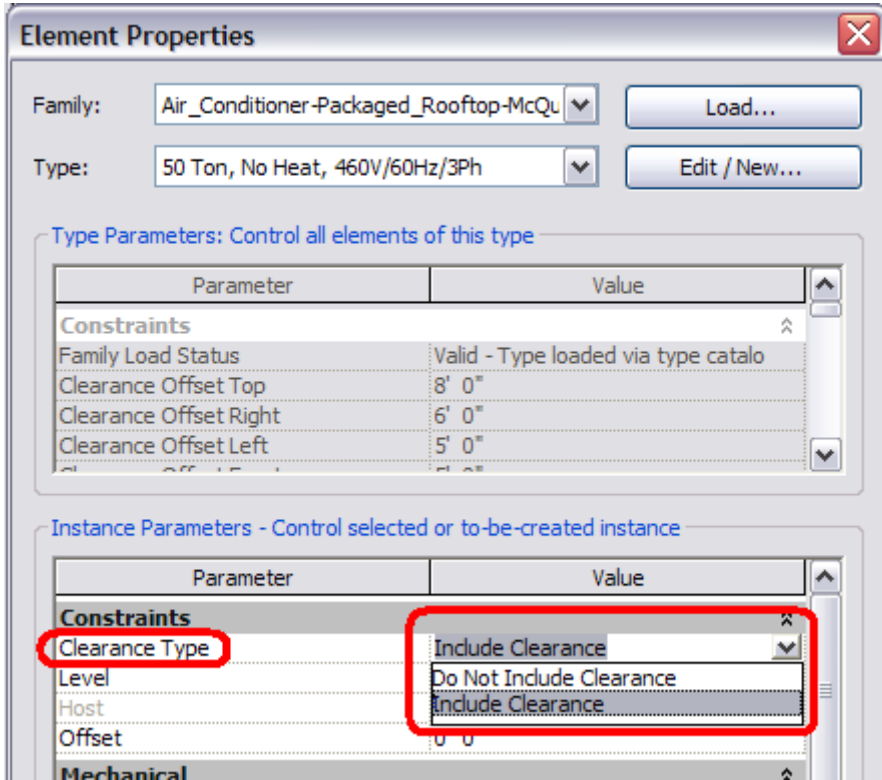


Clearance volumes are turned on by default, but can be turned off if desired.

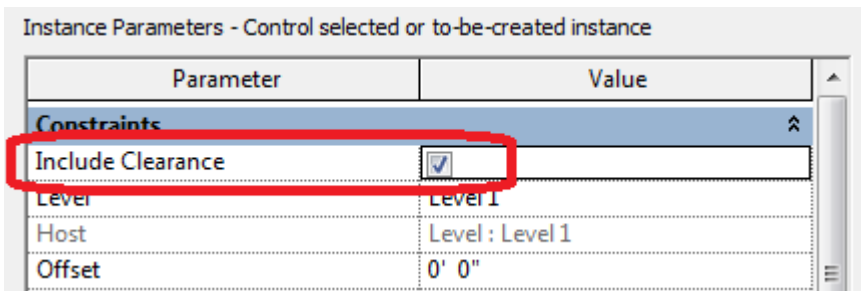
**IMPORTANT:** When Daikin and McQuay clearance volumes are turned on, they *will* participate in interference checks. When these clearance volumes are turned off, they *will not* participate in interference checks. So you have control over whether or not clearances participate in interference checks.

Depending on which family file is being used, there will be 1 of 2 ways to control whether or not the clearance volume is turned on and included in interference checks:

**Method 1 (older):** Use the “Clearance Type” instance parameter in the Constraints group to control whether or not a clearance volume is turned on:



**Method 2 (newer):** Use the "Include Clearance" checkbox instance parameter in the Constraints group:



## Controlling Geometric Options

Options that affect how the unit is displayed geometrically can be found in the “Construction” group. For example:

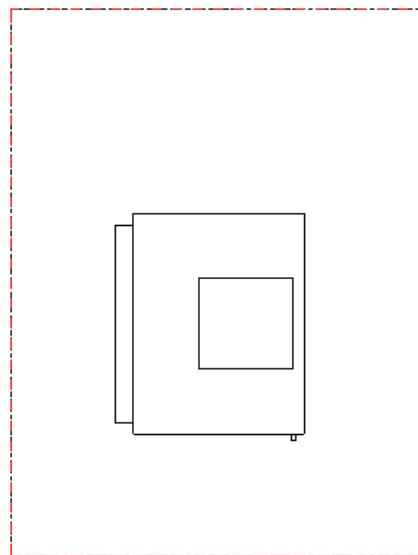
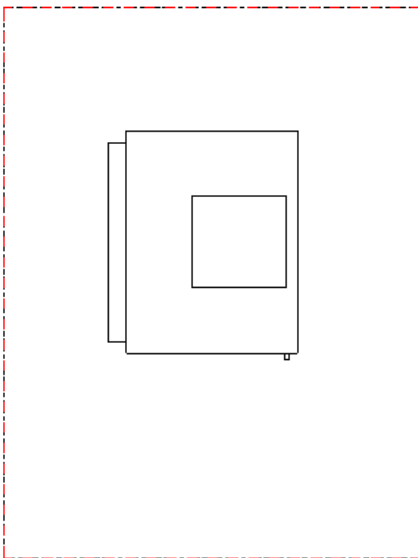
Construction	
Use Tall Electrical Base	<input checked="" type="checkbox"/>
ExtendAir to the Left	<input checked="" type="checkbox"/>
ExtendAir Option Exists	<input type="checkbox"/>
Electrical Base Exists	<input checked="" type="checkbox"/>

These do NOT reflect all options that are available for *purchase*, only those items that affect how the unit is displayed visually in Revit.

**IMPORTANT:** Sometimes options in the Construction group affect how the geometry of the *clearance volume* works, not how the geometry of the unit works.

Construction	
Remove Filter From Front	<input checked="" type="checkbox"/>

Construction	
Remove Filter From Front	<input type="checkbox"/>



## **Web Site Link (“URL”) Parameters**

Daikin and McQuay Revit families include the following URL parameters, located in the “Identity Data” group:

### *Product Documentation Link*

This link will open your web browser to a page where you can get the latest documentation for the product represented by the family being used. This includes documents such as catalogs, brochures, installation and operation manuals, etc.

A link on this page allows you to search for older versions of the documentation as well.

### *Subscribe for Update Alerts*

This link will open your web browser to a page where you can subscribe to receive e-mail alert messages whenever existing Revit files are updated, or when new Revit files are available in support of additional products.

### *Parts Catalog URL*

This link will open your browser to the online parts catalog. This is perhaps most useful for long-term facilities management.

### *Product Page URL*

This link will open your browser to the web site page for this product line.

### *Sales Rep Locator*

This link will open your web browser to a page where you can find your Daikin or McQuay sales representative.

### *Free Content Downloads*

This link will open your web browser to a page where you can download the latest versions of the Revit family files representing Daikin and McQuay products.

**IMPORTANT:** The “Resources / Tips” tab on the McQuay.com web site includes very useful information, as well as a link to the McQuay Revit Feedback page, which you can use to ask questions about, or make suggestions regarding, the Revit content.

## “Actual” vs. “Design” Parameters

Parameters whose name starts with “Actual” define the performance values as actually used or required by the building, and are typically bound to connectors.

Parameters whose name starts with “Design” define the performance values as designed by the manufacturer.

This naming convention is defined by Autodesk.

	Supply Air		Actual Return
ROPD	Actual Supply	Available Supply	Air Flow
0 A	25000 CFM	20000 CFM	25000 CFM

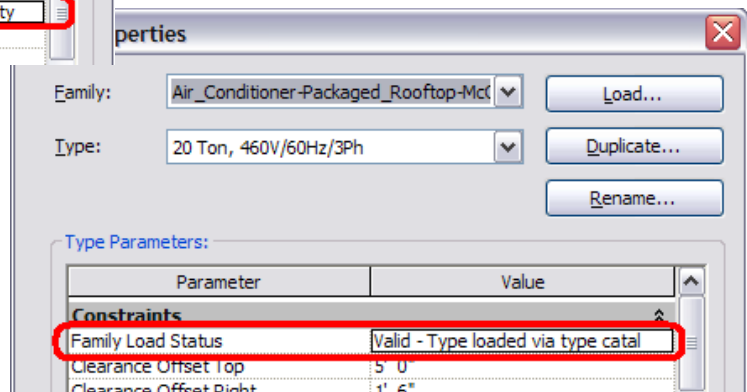
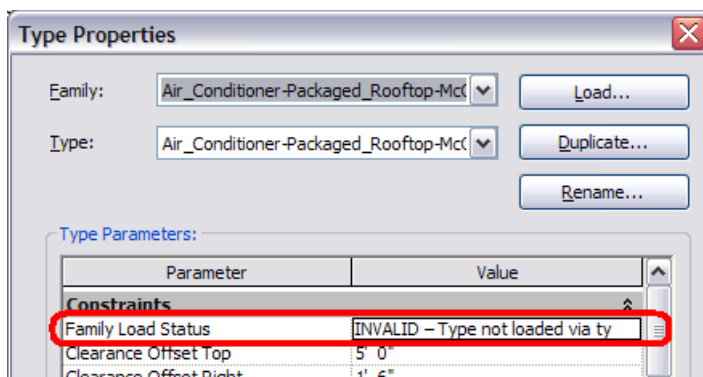
Actual Supply Air Flow

Design Supply Air Flow

Sometimes only “Actual” parameters exist. For example, if the family consumes a resource such as chilled water, only the “Actual Chilled Water Flow” parameter will exist. Typically you would set that value to match the results of your equipment selection.

## The “Family Load Status” Parameter

Many Daikin and McQuay Revit files are provided with separate “Type Catalog” text files. These families must be loaded using the “Load Family” mechanism. If not loaded correctly, the “Family Load Status” parameter will indicate that:



## ***The “Model” Parameter***

The *Model* parameter may only contain a partial model number value. This is because full model numbers typically include characters describing options that simply are not tracked in the Revit family.

However, there is usually enough of the model number provided which, along with the family file name, type name and perhaps submittal drawing, should help assure you that you are using the correct definition.

## ***The “Length,” “Width” and “Height” Parameters***

The *Length*, *Width* and *Height* parameters measure only the “main box” or “main volume” of the unit, and typically do not include things such as protrusion values for accessories, pipe or duct connectors, etc.