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Jaga Heating Products
LST Radiators
User Guide

Version 1.0 | Revit 2013

June 2014

Family Component 'Type Catalogue'

This family is supplied with a type catalogue; which contains all the manufacturers' standard type variations. Please make sure the (.txt) file is placed in the same directory when you copy the family file (.rfa) to your library. Do not rename this file or else it will not work.

The Jaga Radiators are available in a range of sizes and styles. A type catalogue has been set up to assist the user in selecting only the required types they need so as not to unnecessarily increase the project model size. The zip file that you have just downloaded from bimstore will contain two important files to allow this type catalogue to work correctly, these are;

- the .rfa file (Revit family component)
- the .txt of the same name (contains the type catalogue information)

IMPORTANT - Please ensure that when saving your component on to your system that you save both files to the same location.

Please follow the below 'type catalogue' method to load the component into your project.

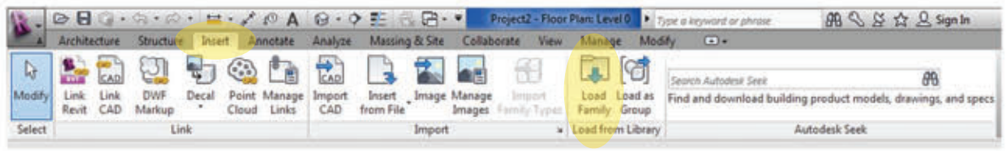
Loading the component into your project

NOTE: This family has been created as a 'Generic' component to allow it to function correctly in a linked project.

The Jaga LST components have been modelled as 'Mechanical Equipment' Families. You can add the family into your project using the following method;

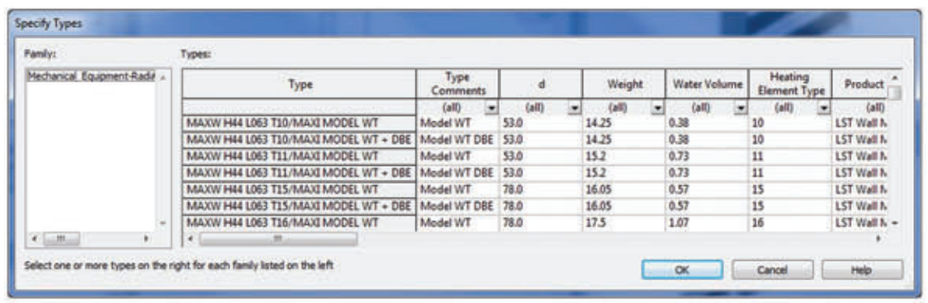
1. Open the Revit file containing your 'project', and navigate to an appropriate view.

2. Go to the 'Insert' tab on the Revit Ribbon and select 'Load Family'



3. Navigate to the location of the saved Jaga Radiator component that you have just downloaded from www.bimstore.co.uk. Note - Please refer to the 'Type Catalogue' section above and ensure that you have saved the .txt file to the correct location.

4. The type catalogue selector will now appear (see below) select the desired types from the scroll menu, the selection will turn black once picked. To select multiple hold Shift or Ctrl.



5. Click OK to load these components into your project. The Family is now copied & embedded into your project and can be selected from the 'Project Browser / Families / Mechanical Equipment' selector within your project browser.

Please note that due to the component calculating parametric arrays in the types you have selected this may take a little time. It is recommended that you pick 2-3 types to start with and then repeat the process if required rather than selecting many types at once.

Using the LST Radiator components

Now embedded into your project the Jaga LST Radiators can be selected from either the 'Mechanical Equipment' list in the 'Project Browser' and dragged into your model or by selecting 'Components' in the 'Architecture' tab and selecting the radiator from the 'Type Selector' drop down in the Properties Box'. Place the radiator to selected level, then align and lock it to a wall (if wall mounted).

Jaga Heating Products offer a range of options for their LST Radiators and these have been built into the component. In order to access these and apply please use the following method:

1. Go to a suitable view and select the component.

2. Once the family is selected, the 'Properties' box will appear on the screen. Under the heading 'Dimensions' is the parameter labelled 'Connection Diameter' - Adjust this dimension to suit the required piping diameter. NOTE: The Tempo family has the instance parameter 'Clearance Below' to allow for raising the radiator.

3. Also in the 'Properties' box under the heading 'Construction' is the parameter 'Top Valve', select this to move the valve to a higher position.

   In the 'Construction' header are the parameters 'Valve Configuration_Right Hand' & 'Valve Configuration_Left Hand', tick / untick 'Valve Configuration_Right Hand' to switch between right & left connection options.

   Also under the 'Construction' header are the parameters 'Valve Configuration_Floor' & 'Valve Configuration_Wall', tick / untick 'Valve Configuration_Wall' to switch between a connection to the floor or wall.

4. Under the 'Visibility' heading of the 'Properties' box, use the 'External TRV Head' instance parameter to hide the valve. NOTE: The Tempo family has the option 'Support Feet' to allow for hiding the support feet.

5. Depending on the family selected, the 'General' heading of the 'Properties' box can allow the following user selectable options; 'Antibacterial Coating', 'Base Grille' & 'Pencil Proof Grille'.

   Use the 'Connection Set' parameter to input as text the reference number of your chosen connection set you intend to specify.

   The above parameters in the 'General' section are schedulable parameters only, use them for adding to your schedules, they won't change any geometry in the object.

6. In the 'Properties' box under the heading 'Materials and Finishes' are the parameters to adjust the colour / materials of the radiator. To adjust these colours / materials simply click on 'Radiator Finish' or 'Valve Finish' and change via the 'Materials Browser' and click apply. NOTE: The Tempo family has the option 'Feet Finish' to the feet finish.

Using the connectors

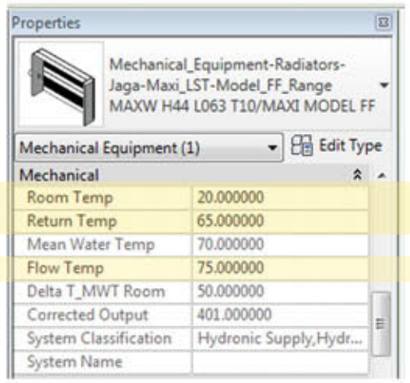
The Jaga LST radiator components contain MEP flow and return 'Piping Connectors' to allow the convector to be linked to the project MEP system.

The outputs are controlled and calculated via built in formulas that will generate the information you require and will automatically update depending on what chosen settings you add, allowing for a fully flexible approach.

See overleaf for further details.

Using the connectors continued...

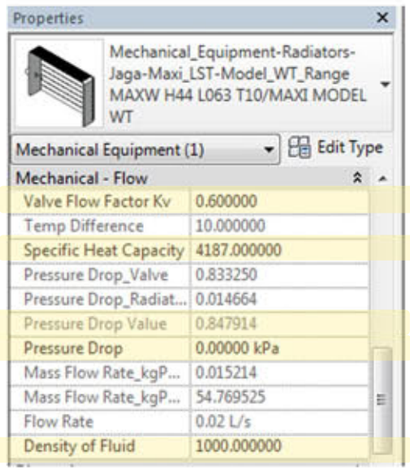
1. Once the family is selected, the 'Properties' box will appear on the screen. Under the heading 'Mechanical' are the instance parameters labelled 'Flow Temp', 'Return Temp' & 'Room Temp' - Adjust these values to suit your chosen outputs for your project.



5. The 'Mechanical - Flow' header in the 'Properties' box contains the instance parameters 'Valve Flow Factor Kv', 'Specific Heat Capacity', 'Pressure Drop' & 'Density of Fluid'. Update these instance parameters in line with your chosen values.

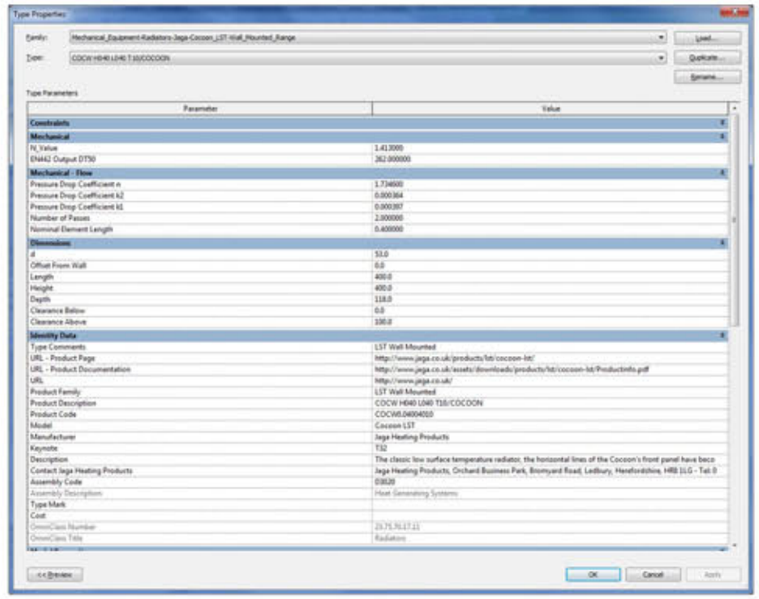
   Note: The 'Pressure Drop' value is calculated via formulas within the component and can be taken from the 'Pressure Drop Value' parameter and manually entered into the 'Pressure Drop'.

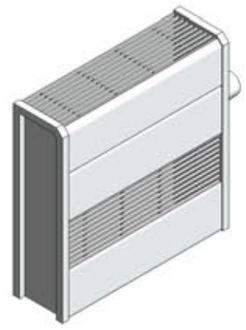
   The Pressure Drop is calculated in kPa (not Pa) so ensure your piping projects units reflects this.



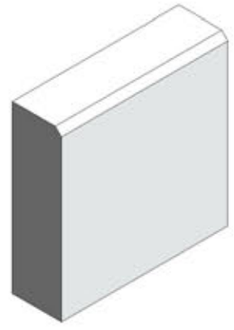
Using the LST Radiator components

Select 'Edit Type' to access the components 'Identity Data' including COBie data and URL links to the Jaga website and product literature.





Fine



Coarse

Model Shown: Cocoon

Other Notes

These components are for design intent only and the data contained within should be treated as such. Please contact the manufacturer for more details and product literature.

You can add this component to your company template file, they will then be available without loading when starting a new project.

Revisions

Version 1.0 - First Issue

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