

Heat pump

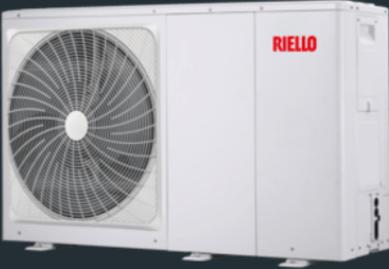
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Heat Pump Load

In the Heat Pump task you can see the results of the heat loss calculation as well as information on the heat pump you have chosen. You can alter the flow temperature and see the impact of this on SCOP and output power. This is also given for each heat emitter as shown in the example below.

For more information on [Heat Emitters](#) see our guide on the topic.

Riello NXHM 8kW



Model	20191942
Nominal capacity	8.00 kW
Sound power level	59.0
SCOP at 45 °C	4.11
Output Power at 45 °C	7000 W

Flow temperature 45 °C

Heat pump load

Heat Loss

The Outside Design Temperature for postcode CB4 1AF is -2.5°C	→	The expected heat loss at the Outside Design Temperature is 6586 W.	÷	The total area of the building is 49.72 m ² .	=	The average heat loss is 132 W/m ² .
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Does the heat pump meet the demand?

If the flow temperature is 45 °C...

Output power of heat pump is	7000 W
Total heat loss is	6586 W

 **Maximum demand met**

The heat pump is sufficiently large to meet the maximum anticipated space heating demand.

Sound Check

You can review the results of your sound check. If you need to edit the inputs, click on pen in the top right.

Sound check

Based on the following input parameters:

-  A distance of 8m between the heat pump and the assessment position.
-  Two reflective surfaces at the heat pump mounting position.
-  No barriers between the heat pump and the assessment position.

The expected sound pressure level at the assessment position will be 42 dB.

  **Sound levels within threshold**
The max sound pressure at the assessment position is expected to be within the permitted development threshold of 42dB. A planning application is not required.

Design Options

You can add multiple design options to your project allowing you to review a range of solutions. Use the drop down in the top right to choose which option you wish to produce a report for. With this tool you can easily produce several proposals for your customer to review before choosing their preferred option.

