Introduction to the Plan Task v1

Overview

[video like 3D overview video and design modes video. Overview of sections (side bars, design area), sped up design. Wait til it's on staging. **Purpose of this video is to show the flow of the task**]

In the plan task, model your **surveyed plan**, with any existing emitters, and create **design options** based on the surveyed **plan**. In these design options, you can model **emitter upgrades**, place the **heat pump** and **cylinder** and specify any **accessories**.

Heat loss calculations are fully integrated into the plan process In the plan task you can also complete **sound assessment** (UK only) and **ventilation calculations**.

Once you have completed the surveyed plan and the design option you wish to continue with, click *Next* in the bottom right.

Creating your surveyed plan

> Read more about creating a floor plan and how to speed up creating your floor plan by uploading architectural plans with Heatpunk Pro.

When creating a floor plan, the first step is to select or create your material palette. You will then be prompted to input the default ceiling height and can then complete the surveyed plan.

When completing the plan, elements (rooms, radiators, windows, doors) can be dragged and dropped from the left-hand sidebar. On the *Emitters* tab, you can also access key details about the plan:

- Click **··· three dots** > **See room details** to:
  - View the annual demand, volume, area and heat loss for that room
  - View the measurements for that floor
  - Edit room temperature and ACH
  - Add **underfloor heating** or other heat emitters
  - Reset the room to the surveyed plan
- Hover over the **info icon** next to emitters to view:
  - Total expected heat loss

- Total building floor area
- Total heat loss per floor area
- Total emitter output
- Total annual demand

All emitters added to this the *Plan* will be listed as *Existing* in the *Emitters* tab. To specify new emitter, add these to a design option.

Once you have completed your initial plan, click ***Finish Plan*** at the top.

Ventilation calculation

When you finish your plan, you will be prompted to complete the ventilation calculation.

For Heatpunk UK/IE, choose from:

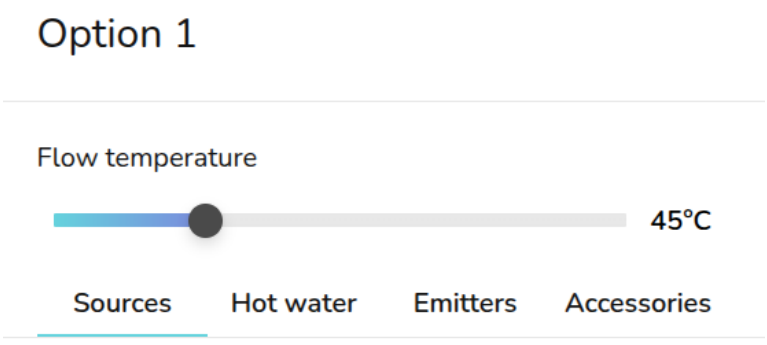
- Legacy MCS method / S.R.50-2021
- Standard method / BS EN 12831-1:2017 using assumed air permeability
- BS EN 12831-1:2017 using measured air permeability

Once completed, to edit ventilation calculations, in the top right corner click **··· three dots** > **Ventilation details**.

> **Ventilation settings are consistent across plans**, but the **calculation is done per plan or option** based on ACH and room temperature. To create an option with proposed MVHR, duplicate the project and input the proposed air permeability.

Completing design option plan

Once the sound check and ventilation calculations are completed, you can start speccing the heat pump, cylinders and any emitter upgrades. You can also specify the location of the new emitters, the heat pump, and the cylinder on the plan.



On the right hand sidebar, you can **adjust the flow temperature** using the slider. From the *Sources* and *Emitters* tab, you can view how this affects the heat pump and emitter outputs.

> Changes made to the **room temperature**, **ACH** and **emitters** are specific to each design option. Changes will not apply across plans. Adjust the *Plan* if you would like changes to apply to each option. Read more about **how design options work**.

Sources



To add a heat pump, drag and drop a *Pump* from the left-hand sidebar. Once you have placed these on the floor plan, a menu will pop up to specify the model.

Adjust the **flow temperature** on the right-hand sidebar.

Sound check (UK)

On the ***Sources*** tab, where it says *Sound check incomplete*, click the **··· three dots** and then the name of the heat pump(s) where the sound check hasn't been completed.

> Read more about selecting a heat pump and completing the sound check.

Hot water



Similarly, to add a hot water storage, drag and drop from *Hot water* on the left-hand sidebar. A menu will then appear to specify the model.

> Read more about specifying hot water storage, including information on domestic hot water calculations.

Emitters

[gif showing removing existing, adding new and navigating emitters tab]

Summarise new/existing emitters functionality

Accessories

Once you have added a heat pump and hot water storage, you can add accessories to the project. When you click + *Add Accessories* from the accessories tab, compatible components will automatically be selected.

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