DAIKIN

Controlling your system.

Welcome to the how to guide for controlling your heat pump system.

When it comes to the end of your installation the control strategy is crucial to ensure the maximum COP from your system. The main influencer of COP is how much higher your flow temperature needs to be above the ground or air temperature. To minimise this we need to maximise the usage of weather compensation controls.

By zoning, having high differentials between 'on' rooms and 'off' rooms, and even having multiple on and off times we have to increase our system flow temperature. Heat Geek has a full explanation of this on this YouTube video (Why Not to Zone Heat Pumps).

elite
Supporting a sustainable future

Renewable energy solutions and carbon footprint reductions.

To combat this we use a commissioning process that ensures a minimum flow temperature. After installation, we ask you to turn all TRVs and room stats to Maximum temperature and allow all the zones to heat, in conjunction with you we then adjust the 'weather compensation curve' until your property sits at a nice comfortable level. This will enable the system to automatically put the correct amount of energy in your property as the property demand changes in a proactive fashion rather than a reactive one.

Only after the property has reached a satisfying level of comfort for a week or ideally longer we will then bring the room's stats down to approx 1-2˚c above the weather-compensated target room temperature to act as a temperature limiter, instead of the main control. This allows the weather compensation to run at the lowest flow temperatures possible and protects from overheating from internal sources or solar gain. To instead match the stats with the weather-compensated target temperature or even set them lower, is to metaphorically apply the breaks while still accelerating and as stated in the video will result in higher electricity bills or a lower property temperature than you are comfortable with.

You can run this system in a zoned fashion of course, with sporadic timings etc., however to enable your system to do this we will have to raise our weather compensation curve and lower your overall system COP. If you're interested in geeking out further, this article (weather compensation or load compensation?) Heat Geek's blog, may be of interest to you.

Heat Geek has created a video showing exactly how they do this for consumers who are left in the lurch by lesser installation companies, which you can watch here.

How to use this User Guide.

If you have a printed User Guide:

1. Choose the guide you wish to view
2. With a mobile phone, or tablet device, open the camera app
3. Scan the QR code and follow the web page link.

If you have a digital version of this User Guide:

1. Choose the guide you wish to view
2. Click the linked text or the QR code to open the content
3. Follow the web page link.

Why Not to Zone Heat Pumps?

Weather compensation or load compensation?

How To MAXIMISE Your Heating Efficiency In 3 Simple Steps