

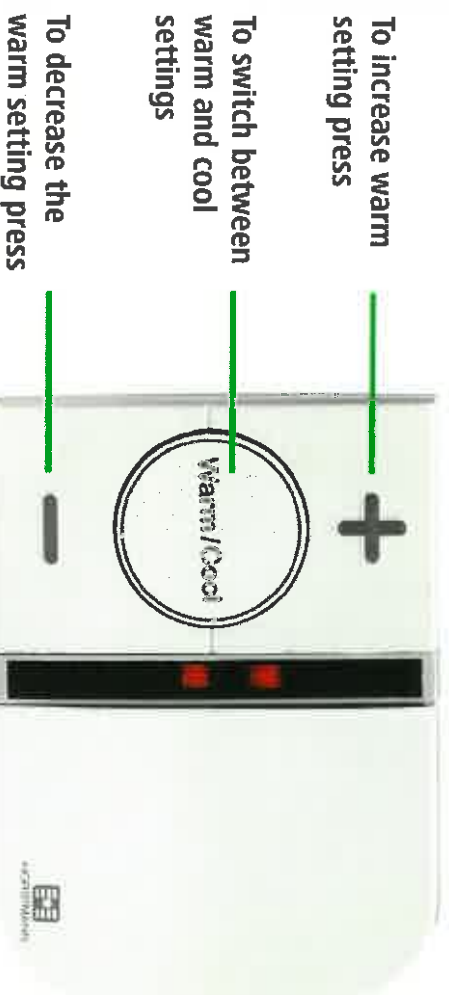
Your Controller Guide

Using the Horstmann ThermoPlus room thermostat

The Horstmann ThermoPlus controller fitted to your new heating system is designed to provide an economical but comfortable pattern of heating while also being very easy to use.

The controller contains a heating pattern that has already been set up for you by the installer and the built-in clock will automatically switch between the preset Warm and Cool periods as well as adjusting itself for Summer and Winter time.

You can change the room temperature by pressing the '+' or '-' buttons. You can switch between warm or cool by pressing the round middle button. The '+' and '-' buttons only work in the warm mode which is when red lights are on. All the buttons can be used as often as you like and you will not damage the controller or your heating system. Please see reverse for full user instructions



Warm is shown by red lights (6) and Cool is shown by a blue light (5). The centre button (3) marked 'Warm/Cool' allows you to toggle between warm and cool setting

When one or more red lights are on, you can increase the temperature by pressing the '+' button (1). For example, press once to go up by 1 degree C, or press twice to go up by 2 degrees C.

When the two or three red lights are on, the temperature can also be lowered to the centre position by using the '-' button (2). For example, press once to go down to the central temperature and press again to go down to one degree below central temperature.

The blue light means the unit is working to the lower temperature and the '+' or '-' buttons do not work when this blue light is on.

Under the flap (7) is a blue button (4). During the summer, or when you want your central heating off for long periods, for example if you go on holiday, press the blue button and close the flap. When you want to go back to normal operation, open the flap and press the blue button again, remembering to close the flap once finished.



A closer look at Air Source Heat Pumps

Dimplex air source heat pumps use the latent heat in the outside air to heat your home and provide hot water. As air is abundantly available around us, air source heat pumps have the advantage of low installation costs and minimal space requirements.

How do they work?

Air source heat pumps are able to produce more energy than they consume. By using the same technology employed in your refrigerator, the heat pump absorbs heat from the outside air and raises it to a level suitable for heating. The heat pump is made up of 4 main components that carry out this vapour compression cycle to produce the energy to heat your home and hot water.

1. Energy from the outside air is transferred to the liquid refrigerant that is circulated through the evaporator. As the refrigerant is much cooler than the air, heat is transferred from the air to the refrigerant causing the refrigerant to change state from liquid to gas.

2. The heated refrigerant gas is then compressed by the electrically driven compressor, which reduces its volume but increases its temperature significantly.

3. The compressed hot gas is now drawn into the heat exchanger (condenser) where it is surrounded by the water from the property's heating system. As the gas is much hotter than the water, the gas gives up its heat to the water and condenses back into liquid form, but still at a high pressure.

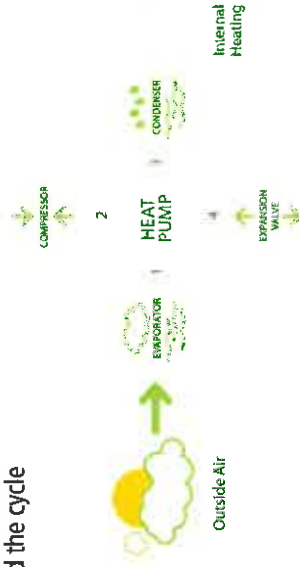
4. The cooler liquid refrigerant then passes through an expansion valve which reduces the pressure. The liquid refrigerant is now able to absorb heat from the external air, allowing the cycle to begin again. evaporator and the cycle starts again.

The process is simple effective and renewable - which means it's as good for the environment as it is for our pockets.

How are they used?

The design and low noise output of Dimplex air source heat pumps means they're ideal for outdoor installation.

The heat generated can be used for underfloor heating systems or radiators, or to provide readily available hot water in your home. And they're the ideal partner for our SmartRad range of wall-mounted fan convectors, providing controllable, responsive and energy efficient heating.



Resident User guide

Your controls

- Your heating is set to 21°C from 6am to 10pm and 15°C at all other times.
- If you need it to be warmer, press the + button. Each time you press the button the temperature will increase by 1°C and vice versa for cool.
- We recommend that you leave the unit set as it is to ensure the heat pump runs efficiently.



Dimplex LAMI Heat pump

Your heat pump is located to the rear or side of your property and requires no special attention. You may from time to time see the unit give out a mist during the colder periods - this is nothing to be alarmed about and is a natural process for the unit.



What do I do if I have a problem?

The first thing to do is ensure the system is asking for heating by turning up your thermostat. You need to ensure the power is turned on - this can be checked by looking at your controller and seeing if it is illuminated.

If you have checked these and everything is OK, then please contact the response repair telephone number.