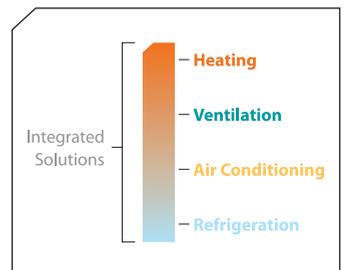




## User Guide – Large Monobloc

For your new Daikin Altherma Large Monobloc heat pump





# Your new Daikin Altherma heat pump

In this manual you will find information and guidelines that will allow you to run your Daikin Altherma heat pump system in the most energy efficient and cost effective way.

We hope you enjoy a warm and comfortable winter season!

## System overview

The heart of your new central heating system is a highly efficient Daikin Altherma air source heat pump. The heat pump heats the water which flows around your central heating and separately heats the hot water when required in your hot water cylinder. The central heating is usually controlled from a Daikin controller or

programmable room thermostat which switches the heat pump on and off at preset times, sending warm water through the central heating. Most radiators have thermostats (TRV's) fitted to control the individual room temperatures.



Outdoor unit



Hot water cylinder



Daikin Altherma controller

# Your heating system in detail and getting the most from it



## Outdoor unit

Outside is the heat pump. This extracts heat from the air, even below 0°C and uses this heat to heat the water passing through the central heating and hot water cylinder.

The outdoor unit pulls in air from the rear, extracts the heat in the air, and blows the cooled air out the front. This is done automatically, and there is no need to set or adjust it.

If the rear of the outdoor unit gets clogged up with leaves or debris, the efficiency of your heating system can be reduced, this should be checked regularly and cleaned with a soft brush. Similarly, don't block the front of the unit up by leaning anything against it.

## Cylinder

Hot water is stored in a cylinder. To ensure low running costs the cylinder is normally set to heat to 50°C. Your system is set up to heat the water in the cylinder at the time when it is cheapest. If you have Economy 7 this will be during off-peak periods. If not, it will be during the day when the air temperature is higher. The cylinder is being heated when the symbol is shown on the Daikin Altherma controller. Once a week the water in the cylinder is heated to 60°C to ensure the cylinder remains free from bacteria.

## Hot water preparation in detail

Your system is set up to heat the water in the cylinder at the time when it is cheapest. If you have Economy 7 this will be during off-peak periods. If not, it will be during the day when the air temperature is higher.

### Programmable room thermostat

You may have a room thermostat installed in your property. It would be located in the hall or within certain rooms. It controls when the house is heated, and to what temperature.

It is likely the thermostat has been set to heat the house to 21°C in the early morning, lunchtime and evening, with a cooler 18°C at other times from Monday to Friday. At weekends, it is set to 21°C from early morning until late evening, with 18°C over night.

### Heat emitters: radiators

Most radiators are fitted with Thermostatic Radiator Valves (TRV's) as shown in the picture which ensures rooms will not become too warm.

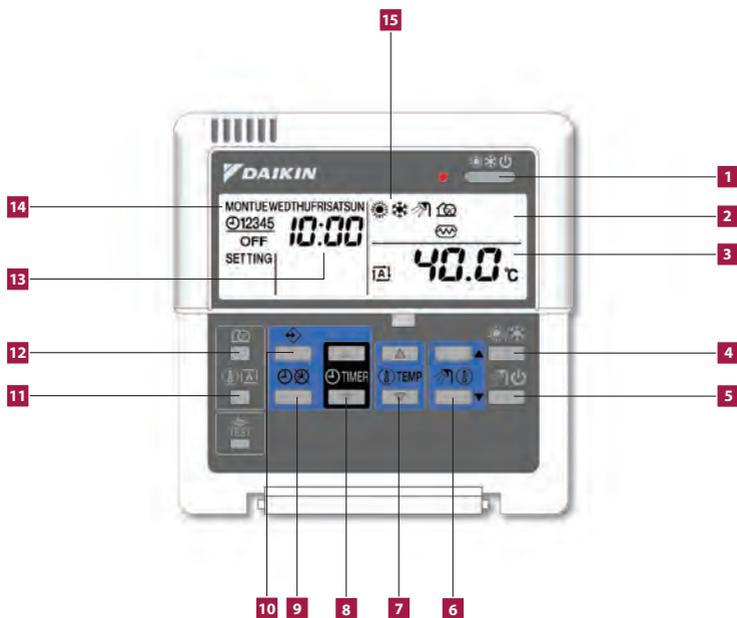
Temperatures are represented by numbers or roman numerals I, II, III, IIII. The higher the number, the warmer the room temperature. Each valve should be set according to the temperature you wish to achieve.

### Underfloor heating (UFH) and/or fan coil units (FCU)

If UFH heating is installed you may see a manifold in your airing cupboard or similar with pipes going into the floor. This will heat your floors, which in turn heat your home. If FCU are installed you will see them on your walls. FCU operate in a similar way to radiators, but a fan in the unit pushes heat into the space around it.



# Your Daikin Altherma remote controller



- |                                      |                                         |                                        |
|--------------------------------------|-----------------------------------------|----------------------------------------|
| <b>1.</b> On/off                     | <b>6.</b> Hot water storage temp adjust | <b>11.</b> Weather compensation on/off |
| <b>2.</b> LCD display                | <b>7.</b> Heating water temp adjust     | <b>12.</b> Quiet mode on/off           |
| <b>3.</b> Set temperature of heating | <b>8.</b> Time adjust                   | <b>13.</b> Time display                |
| <b>4.</b> Not used                   | <b>9.</b> Schedule timer on/off         | <b>14.</b> Day of week indicator       |
| <b>5.</b> Hot water on/off           | <b>10.</b> Programming button           | <b>15.</b> Operation mode icons        |

# Useful functions on your Daikin Altherma controller



## Raising the hot water temperature

Storing water at higher temperatures is wasteful, because heat loss from the cylinder will be increased and the heat pump running costs will increase.

However, should you find the hot water is not hot enough, it can be increased by pressing



The controller is located on the front or close to the indoor unit (the hydrobox).

For best use of energy, only increase by 2°C at a time.

## Additional hot water other than pre-set times (boost function)

If you run out of hot water press and hold (5 seconds) the   button at the bottom right of the controller until you see  &  symbols flashing in the display.

**Note:** Increased use of boost function will affect overall efficiency of the system.



# Maximising your energy savings

To increase the efficiency of the central heating system, your heat pump will automatically vary the temperature of the water going through your central heating. The colder the temperature gets outside, the warmer the circulating water through your central heating.

This feature (called weather compensation or economy mode) should be selected on the hydrobox controller, and the  automatic symbol will show in the controller display. If this symbol is not shown, press the  button.

When in the automatic (weather compensation) mode, if you feel the house is too warm or not warm enough you can adjust the central heating water supply temperature up or down by pressing the  **TEMP**   buttons on the controller.

## Activating the schedule timer

To activate the schedule timer press  and  will appear on the display.

To deactivate the schedule timer press  and  will disappear.

## Setting the clock

If for any reason you require to re-set the clock,

1. Push and hold the  button until the clock starts to flash
2. Adjust the time via the  button
3. Adjust the day via the  button
4. To save the changes push 

## Changing the hot water timer settings

If you wish to set the hot water to heat at times other than those already set, you need to adjust the controller:

1. To enter the schedule timer function, press 
2. Press the  button until the  symbol begins to flash on the display
3. Press 
4. The time of the 1st action will now appear, you can scroll through any programmed actions via 
5. To adjust the action push and hold  until the display begins to flash
6. You can now adjust the action time via 
7. Use  to choose on/off
8. To confirm the changes press , it will then advance to the next action
9. Repeat the last step until all required actions are programmed
10. Press and hold  until 'setting' appears to save the changes
11. Press  repeatedly to go back through the screen levels until you are back to the normal screen

# Your checklist for diagnosing possible faults

## **If the radiator is too cold check that the radiator TRV is set to a high enough level.**

A room may become warm enough without the radiator being more than lukewarm.

## **Is the programmable thermostat set too low?**

Check that the temperature on the programmable thermostat is set high enough to start the heat pump.

## **Is the mains power switched off?**

Check that the heating switches are switched ON, including the switch located next to the outdoor unit.

**In the event you have checked the points opposite,** and the system still fails to operate normally, you can manually reset the system by turning off the power, waiting 60 seconds then turning it back on.

**If the system still does not operate as normal,** check the display on the controller for a fault code (typically a number and a letter for example 7H) and contact your housing association, making reference to the displayed code.

**[www.daikin.co.uk](http://www.daikin.co.uk)**

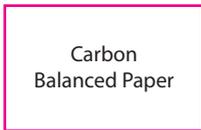
For full user instructions, please refer to the Daikin Altherma operation manual.





MCS HP0006

Visit [www.microgenerationcertification.org](http://www.microgenerationcertification.org) for a list of the latest MCS certified Daikin heat pumps



Daikin units comply with the European regulations that guarantee the safety of the product.



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