

**This system must be serviced every two years to ensure that water and system health is maintained, operating efficiency is maximised and the 25 year infloor pipe warranty is retained.**



# **Infloor Central Heating Operation Instructions**

**For further information and assistance, or to arrange a service visit please contact Warm and Cool**

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**Heat Pump Powered Underfloor Heating  
With Hot Water Cylinder control**

**Prepared by Warm and Cool  
Infloor Heating Southern Ltd**

## INTRODUCTION

Your water-fed infloor central heating system has several control thermostats and operation aspects.

This document provides you with some ability to understand and basically set these controls.

If you are in any doubt about any aspect of this system, please call Warm and Cool to arrange a visit by a qualified technician, to set the appropriate parameters for effective and efficient heating.

Once turned ON, your infloor heating system is designed to remain ON in order to provide the most efficient and effective result. The system uses thermal mass in the floor – if you turn it ON and OFF repeatedly this mass will be continually lost. Your system will be ineffective and inexpensive to operate.

If you suspect that your system may be using excessive amounts of energy, it may be that the programming is incorrect – call Warm and Cool to address this.

You can adjust individual zones / areas of your home (even turning *some* zones off if they are not being used for extended periods of time e.g. a Guest Bedroom – see WATERFLOW CONTROL for details.

On average, your heat pump uses just one quarter of the normal electricity usage to produce the heating inputs. If you have a day/night electricity plan the heating system will be programmed to maximise the cheaper night rate inputs – which is still much better than any higher heat pump efficiency that may be gained from daytime running,

## HOT WATER CYLINDER (if fitted)

Your heat pump heats water more efficiently than the electric cylinder element. This part of the system operates separately from your infloor controls and should be left **ON** year round i.e. do not turn it off over Summer. Your Heat pump heats the water in your hot water cylinder to around 55 degrees through its own internal monitoring or the thermostat in the panel which has set programmed times. You can turn off your infloor heating without affecting this part of the system.

## HOLIDAY MODE

If you are leaving your home unattended for a long period of time...

1. Turn the hot water circuit breaker OFF at the switchboard
2. Turn the Master Air thermostat OFF
3. In panel turn the hot water cylinder thermostat OFF(if fitted)
4. In panel turn the slab thermostat OFF
5. Reverse upon return

## KILOWATT HOUR METER (if fitted)

This records the actual power use of the heat pump for both floor heating and hot water heating (if fitted). You can keep track of your power usage, but it also helps us to monitor that the system is working as it should be.

## WATERFLOW CONTROL

(Note: The system pump MUST be operating)

The control panel contains the individual zone flow controls. The flow to each room (or zone) can be manually adjusted to increase or decrease water flow which lifts or lowers heat delivery and temperature. You can close a zone completely if it is not required for an extended time.

The **lower** the **red** indicator, the warmer the room.



To reduce the heating level in Bedrooms or Bathroom – turn the clear tube clock wise. A zone can be turned OFF completely if desired.



**Do not reduce the water flow to the Kitchen and Living area zones. The master thermostat operates here.**

## MASTER AIR THERMOSTAT

This thermostat monitors air temperature in the main Living areas – turning the system ON and OFF. The temperature can be adjusted to suit your personal preferences.

The thermostat operates with a 2 - 4 hour lag e.g. if you want the Living Room to be warmer between 6pm and 10pm, you need to set the temperature 2 - 4 hours in advance i.e. Temperature up at 4pm and down again at 8pm.

To turn off your Floor Heating for the Summer or extended absence, press the off button

## Thermostat - TOUCH SCREEN



\*Wifi thermostat refer to **Heatmiser** manual

\*HIQ thermostat refer to **Slab Thermostat** instructions (next page)

\*Touch Screen Thermostat refer to **Touchscreen Thermostat** manual

## INFLOOR SLAB THERMOSTAT



This thermostat monitors and controls the concrete floor slab. It is programmed to maximise system efficiency by utilizing cheaper night rate electricity tariffs. This thermostat is normally set to a higher temperature at night to maximise these cheaper inputs, with the intention to use a little energy at the higher day rate inputs.

⑦ **To turn on or off** – Depress fully until you hear a click.  
**Summer/Winter Mode** – If you wish to turn off your slab thermostat for the summer (note this key depresses further than the other keys)

**\*To set up time and day** – Press and release the clock key to enter the setting mode – Each time you press it, it will scroll through hours minutes or day

Use the up and down arrows to the flashing section then press the clock to move to next

**\* Mode Setting** (timed or manual) For every day override – Press momentarily the menu button to scroll between mode

Manual mode is a symbol of a hand, Auto mode is a symbol of a clock. At any time you can place the control into manual mode and set a constant temperature

In timed mode you can temporarily turn the heat on or off by using the up/down arrows to raise the temperature

### \* Programming the 7 day timer

Press and Hold the menu key (5 seconds)

You will see displayed – a point symbol – a time and – each day of the week each of the daily switching points has a point symbol to identify it

Use the up/down keys to set the first switching time ( eg Midnight = 0000)

then press the menu key

Now use the up/down arrows to set the desired temperature at this time (eg 26 Deg)

then press the menu key

Now use up/down to set the time for the second switching point (eg 7:00)

then press the menu key

Set the desired temperature for this point (eg 23 Deg)

Continue as above until all switching points are set as you set the last setting for each day the control will automatically move to the next day

Repeat the process until each day is entered at the end of the last day the control will default to normal running mode

**Tip** – if say for example you only want two periods of heat at say 20 Deg (morning and evening) simply set points  $\frac{3}{4}$  each day at say 10 Deg and 10 minutes apart so they are not influential