

Watts RF Multi-zone control system - overview

The heat pump runs whenever the buffer tank needs more heat whilst the buffer tank provides heat to the rest of the system. The buffer tank is kept hot all the time so that it can respond immediately to a need for heat.

In each heating zone the temperature is set on each thermostat, which is the only way of setting room temperatures. Two different temperatures are set, **Comfort**, the room temperature when the room is in use, and **Economy**, the temperature when not in use. The user can change between the two with a couple of key presses on the thermostat.

Regulation of floor slab temperature

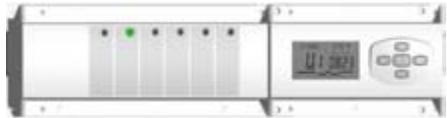
The thermostats also have a floor temperature sensor to keep the floor slabs on standby by maintaining the floor at a minimum temperature so that when the heating is required it can respond quickly.

This means the floor may be heated when the room is already at the required room temperature. This is normal.

The thermostats also have a maximum floor temperature to stop the floor getting uncomfortably hot even if the room hasn't met its set temperature.

Interaction between zone thermostats and the central controller.

Each zone will run at its set temperature whether that is Comfort or Economy unless the central controller is in Economy mode; and then the zone runs at the set temperature minus 4°C whether the zone is in Comfort or Economy mode.

	
<p>Central Controller mode Use ◀ and ▶ buttons to change the operating mode</p>	<p>Zone Thermostat mode Use the OK button to change the operating mode</p>
<p>☀ Comfort manual override</p>	<p>☀ Zone will run continuously in Comfort mode 🌙 Zone will run at Economy temperature set on thermostat. ⏻ Zone will not run.</p>

 Economy manual override	 or  Zone will run at set the temperature minus 4°C whether it is on Comfort or Economy.  Zone will not run.
Auto	 or  Zone will run at set the temperature during 'on' periods and at 4°C less than the set temperature on thermostat during 'off' periods, whether it is set at Comfort or Economy.  Zone will not run.
 Frost protection	All zones will only run if the temperature drops to 5°C or whatever is set to the frost protection temperature.
 Off	The central controller switches off and all zones stop heating in all modes.

See attached user guide for programming the time schedules.