

FAQ Sheet



Radiator thermostats

What is a radiator thermostat?

Radiator thermostats, thermostatic radiator valves or TRVs can be added to Sundial or Smartfit systems to provide the extra benefits of individual room temperature control and even greater energy savings. They can be installed in all rooms except where a room thermostat or programmable thermostat is positioned. They are particularly useful in rooms where desired temperatures are different to those in the main living rooms, for example, bedrooms.

- Radiator thermostats provide good local temperature control in individual rooms
- Radiator thermostats are particularly useful where there are high incidental heat gains e.g. sunshine
- In domestic systems, radiator thermostats should be used with a room thermostat or a boiler energy control to ensure boiler interlock (on their own, they have no interlock)
- Radiator thermostats should not be installed in the same room as a room thermostat
- It is necessary to fit a bypass and a regulating valve to ensure that a minimum flow rate through the boiler is maintained
- Remote sensor versions are available for radiator thermostats in situations where a representative room temperature is difficult to detect (see FAQ sheet 'Radiator thermostats with a remote sensor')
- In some circumstances horizontally mounted radiator thermostats can achieve more accurate control of room temperature
- Honeywell radiator thermostats VT117 and VT200 have reverse flow bodies, which means that they can be mounted either vertically or horizontally on both the flow and return pipes at the radiator

How does a radiator thermostat work?

A radiator thermostat is a modulating control that allows proportionally more flow for a greater demand, and less flow for smaller demand, thus controlling the amount of heat available to be emitted by the radiator. When the air temperature has risen to be the same as the set point temperature, the radiator thermostat will not be fully closed; it will still be partially open. This is so that the air temperature can be maintained by the flow through the radiator thermostat. If the valve were to close fully, the temperature would fall as the radiator would start to cool down.

Can you show me the models available?

VT200



Classic

VT117



Traditional

VTL120



TRV and lockshield
valve pack

VTL220



Chrome TRV and lockshield valve packs
(see FAQ sheet 'Radiator thermostat
specials' for details)

VTL320



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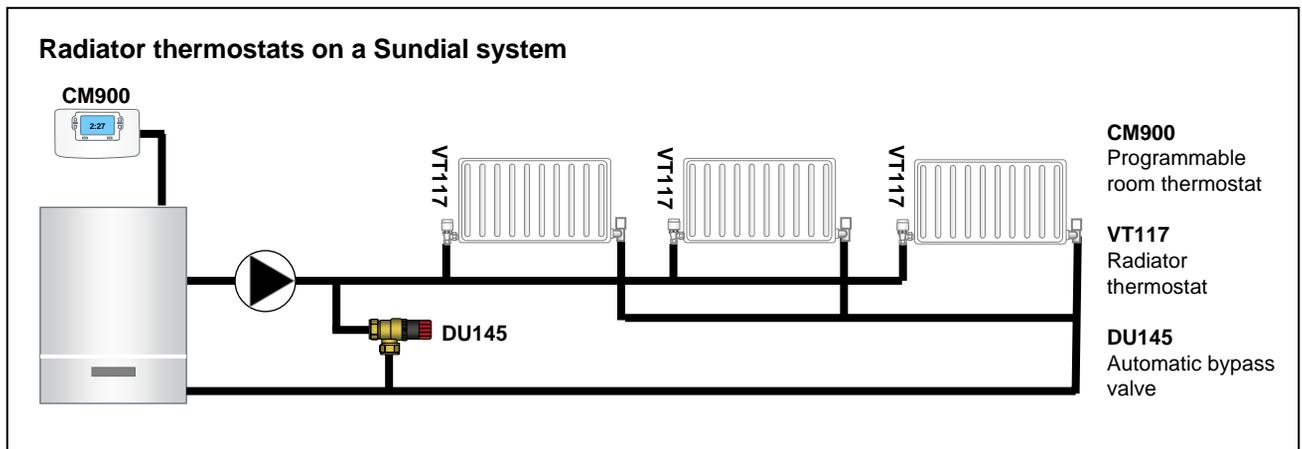
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What should I consider when installing a radiator thermostat?

A radiator thermostat should not be positioned on a radiator where it is going to be exposed to draught or direct sunlight, nor should it be isolated from the airflow of the adjacent room by furniture or furnishings.

In some instances, it may be preferable to fit the thermostatic head in a horizontal attitude to obtain a better performance. This may be done on either end of the radiator if a reverse flow radiator thermostat is fitted.

When fitting several radiator thermostats, it is essential that a bypass is fitted with an automatic bypass valve.



- The room thermostat should be fitted in a heated area that is not controlled by a radiator thermostat
- Fitting an automatic bypass ensures that the boiler manufacture requirements for minimum flow rate can be met
- If both a room thermostat and an automatic bypass valve are fitted, every radiator may have a radiator thermostat on it, except for the radiator that is heating the area with the room thermostat

Should I fit radiator thermostats with other heating controls?

British Standards Specification for Forced Circulation Hot Water Central Heating Systems for Domestic Premises (BS 5449:1990 Part 2) states:

“Where individual thermostatic radiator valves (TRVs) are used they shall not be the means of control for the heating circuit but shall be used in conjunction with other controls which ensure that the boiler is shut off... Where thermostatic radiator valves are used they shall not be fitted in the same room or area as the air temperature sensor (room thermostat) is situated.”

Are there spare parts available for radiator thermostats ?

Spare parts are available for Honeywell TRVs including thermostatic heads (T100 & T200), bodies (V117) and range stops (ZS100). For more information visit the spare parts section at www.honeywell.com.

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