

Technical Data

Setting Range	50° – 80°C
Differential	8°C approx.
Switch rating	3 (1) A 230V ac
Switch type	SPDT
Rated impulse voltage	2.5kV
Earth	Double insulated – not required
Connections	C – common I – call 2 – satisfied
Fixing	Plastic-coated spring wire with hook and eyelet.
Pollution Degree	2
Ball pressure	110°C
Test Temperature	
Energy Class	I = 1% (Acc. EU 81/1/2013, 812/2013, 813/2013, 814/2013)

Conforms to the essential requirements of the following directives:

2014/30/EU – Electromagnetic Compatibility Directive
 2014/35/EU – Low Voltage Directive
 2011/65/EU – Restriction of the Use of Certain Hazardous Substances (RoHS)



Cylinder thermostats

Make	Model	Common	Call	Satisfied
Drayton	HTS 3	C	I	2
Lifestyle	HTS 2	R	B	Y
Danfoss Randall	AT (CN4)	I	2	3
Drayton	CS I/CS 2	I	2	3
Honeywell	L641A	C	I	2
Landis & Gyr	RAM I	I	2	3
Potterton Myson	PTT I	L	H	C
Sunvic	1452/SA245 I	3	I	2
Sopac	SAY	C	I	2
Smiths	SCT I	I	2	3
Tower	CS I	R	B	Y
Barlo	CT I	R	B	Y

What is a cylinder thermostat?

...an explanation for householders

A cylinder thermostat switches on and off the heat supply from the boiler to the hot-water cylinder. It works by sensing the temperature of the water inside the cylinder, switching on the water heating when the temperature falls below the thermostat setting, and switching it off once this set temperature has been reached.

Turning a cylinder thermostat to a higher setting will not make the water heat up any faster. How quickly the water heats up depends on the design of the heating system, for example, the size of boiler and the heat exchanger inside the cylinder.

The water heating will not work if a time switch or programmer has switched it off. And the cylinder thermostat will not always switch the boiler off, because the boiler sometimes needs to heat the radiators.

Cylinder thermostats are usually fitted between one quarter and one third of the way up the cylinder. The cylinder thermostat will have a temperature scale marked on it, and it should be set at between 60°C and 65°C, then left to do its job. This temperature is high enough to kill off harmful bacteria in the water, but raising the temperature of the stored hot water any higher will result in wasted energy and increase the risk of scalding.

If you have a boiler control thermostat, it should always be set to a higher temperature than that of the cylinder thermostat. In most boilers, a single boiler thermostat controls the temperature of water sent to both the cylinder and radiators, although in some there are two separate boiler thermostats.

Drayton

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Drayton

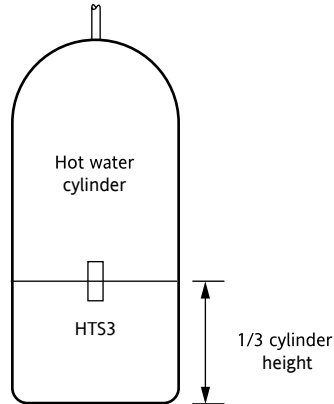
HTS3 Cylinder Thermostat

Installation instructions



Positioning the HTS3

The HTS3 should be installed approximately one third of the way up the hot water cylinder; and at the front for ease of access. With pre-insulated cylinders, mark the position and size, and remove just enough insulation to allow the HTS3 to fit against the metal of the cylinder in the recess formed.

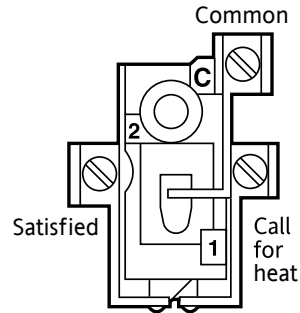


Wiring Connections

From the wiring centre or junction box, run sufficient 3-core electrical connecting cable to reach the HTS3 installation position without being under tension.

Remove the HTS3 cover by undoing the central retaining screw. Make wiring connections in accordance with the diagram below and the manufacturers instructions for associated equipment such as motorised valves, boiler, programmers etc. Replace and secure the cover.

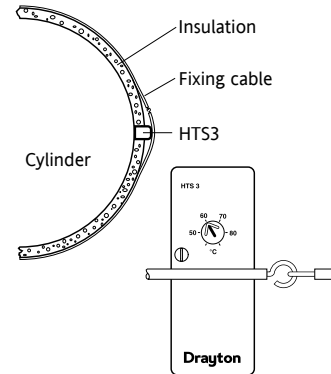
The HTS3 is double insulated and no Earth connection is necessary. The circuit should be protected with a 3A fuse.



Fixing to the Cylinder

The base of the HTS3 should be held in good contact with the metal of the hot water cylinder.

The plastic covered spring fixing cable should be cut to an unstretched length of approximately 2 1/2" – 3" less than the circumference of the cylinder and the hook and eyelet screwed into the ends. Stretch the cable round the cylinder, above the insulation, and position it in the groove across the front of the HTS3. Engage the hook and eyelet.



Commissioning

The two setting marks outside the temperature scale on the HTS3 provide max temperature and OFF positions to assist with commissioning or checking the system operation. Rotate the setting arrow fully max and anticlockwise for OFF.

Setting

With a screwdriver, position the setting arrow at the desired nominal hot water temperature. A popular setting is 60°C but if this is not exactly suitable, simply adjust up or down as appropriate.

WARNING

Disconnect mains supply before fitting or removing the cover.

A switch having contact separation of at least 3mm in all poles must be incorporated in the fixed wiring as a means of providing full disconnection of the mains supply.