

# TECHNICAL BULLETIN

## PRODUCT: GREENSTAR WIRING CENTRE

### AUTOMATIC LEGIONELLA PROTECTION:

Domestic hot water should be stored at a temperature between 60°C & 65°C. This ensures that legionella bacteria cannot propagate within the DHW storage vessel.

If the water is stored below these temperatures then a Legionella disinfection risk assessment should be carried out and provision made to ensure the storage vessel is effectively disinfected on a regular basis. This is typically achieved by means of a timed immersion heater.

The Greenstar Wiring Centre has an automatic Legionella disinfection function. To ensure protection is achieved; this function cannot be switched off.

#### Description of the Legionella Disinfection function:

- ▶ The Greenstar Wiring Centre will continuously monitor the stored water temperature over a rolling five day period. If the stored water temperature does not reach 60°C during this 5 day period; the disinfection function will become active.
- ▶ If the stored water temperature reaches 60°C within the rolling 5 day period then the timer will be reset from this point; i.e. The 5 day period will restart and run until either the stored water temperature reaches 60°C or until the Greenstar Wiring Centre disinfection function has been activated. The timer will then reset again.
- ▶ Once the disinfection function has been triggered; the stored DHW temperature will be raised to 61°C; this will be maintained for 1 Hour.

**Due to stratification in a typical cylinder; the outlet temperature of the cylinder will be higher than the temperature that is set on the control.**

The sensor must be installed in the lower 1/3<sup>rd</sup> of the cylinder to ensure that at least 60°C is achieved for the entire volume of stored water.

#### Approved document G3 compliance:

**In cases where lower temperatures are required: Thermostatic mixing valves should be fitted at the outlets.**

In order to comply with Approved document G3, the hot water supply to a bath in a newly built property must not exceed 48°C.

If the bath is likely to be used by the elderly, infirm or young children: the hot water supply to the bath should be limited to a lower temperature of approximately 43°C.

Further guidance on stored water temperature and outlet temperatures can be found in Approved document G3.

Whilst it is always our intention to fully assist, it is essential to recognise that all information given by the company in response to an enquiry of any nature is provided in good faith and based upon the information provided with the enquiry. We recommend that advice should always be checked with your installer or contract partner. Consequently, the company cannot be held responsible for any liability relating to the use or repetition of such information or part thereof. In addition, whilst making every reasonable effort to monitor the performance and quality of our supply, installation and service network, we do not accept responsibility for the workmanship or operation of any third party company that the company may have promoted either in conversation, e-mail or other communication. Similarly, the views and opinions expressed in communication with individuals within the company may not reflect that of the business as a whole.

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