

TECHNICAL BULLETIN

Water Softeners and Scale Inhibitors installed with a Worcester Boiler.

We would offer the following advice when installing ion exchange water softeners or scale inhibitors with Worcester boilers.

Ion Exchange Water Softeners

Manufacturers' instructions and guidelines must be followed when installing a water softener; however an example is shown below (Fig1).

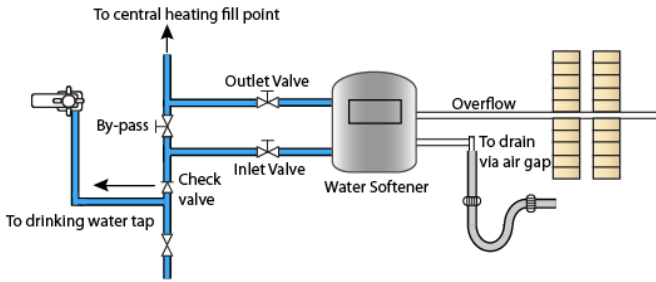


Fig 1.

Figs 2 & 3 show examples of a sealed system and an open vent system.

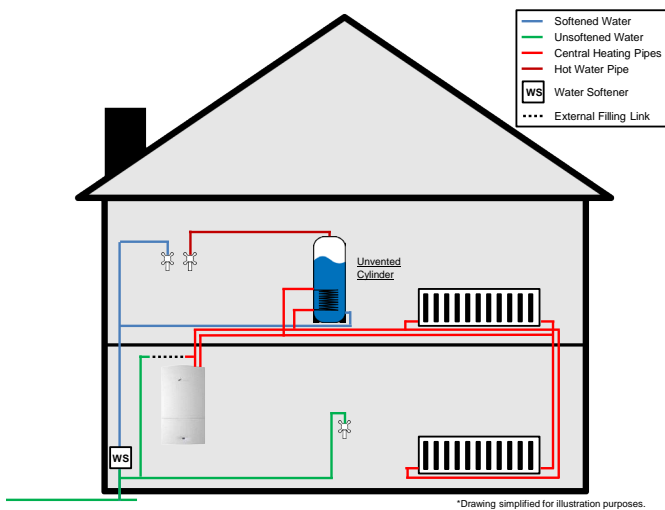


Fig 2. Greenstar system boiler with unvented hot water storage cylinder – Untreated water line to system fill point

The use of water softeners with Worcester boiler heating systems

Where a water softener is present within a dwelling, you must ensure that the heating system is filled with untreated water by either;

- ▶ A separate untreated supply which is connected prior to the water softener. (Fig 2.)
- ▶ By means of utilising the general bypass valve which is required at the water softener. (Fig 1.)

Note: A water softener must comply with BS 14743 (this states that there must be a 'a general bypass valve which enables the softening unit to be isolated from the mains, while maintaining water supply to the end user'. For installation requirements, refer to WRAS information and guidance Note no 9-08-01 "Information for the installation of ion exchange water softeners for systems supplying water for domestic purposes".

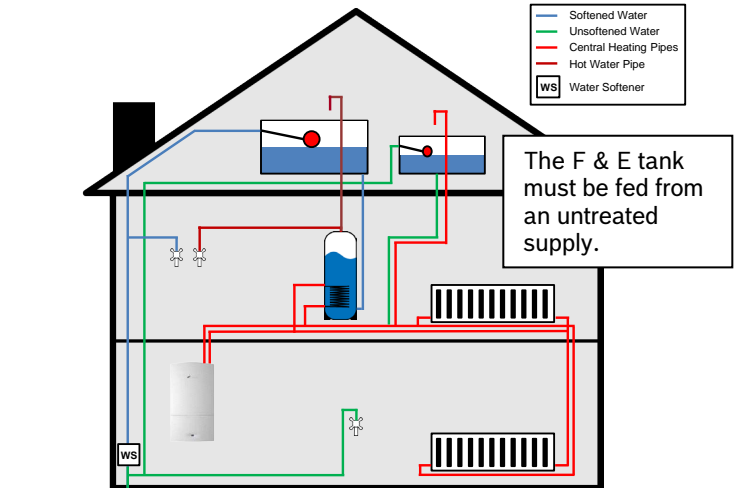


Fig 3. Greenstar regular boiler with open vented system – Untreated water line to system fill point

Scale Inhibitors.

There are various types of scale inhibitor available; magnetic, electronic, electrolytic & Polyphosphate.

All of these are suitable to be used with Worcester appliances.

The units must be maintained in accordance with the manufacturers' guidelines to ensure they continue to be effective.

Polyphosphate scale inhibitors do require the chemical to be replenished periodically; these units must not be confused with water softeners. They do not require a bypass or untreated line for filling or topping up heating systems.

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.