

Technical Bulletin

Installation: Mains pressure requirements for Worcester filling links

MINIMUM COLD MAINS PRESSURE REQUIREMENTS FOR BOTH THE INTELLIGENT FILLING SYSTEM AND KEYLESS FILLING LINK

GREENSTAR 8000 LIFESTYLE'S INTELLIGENT FILLING SYSTEM:

As part of the Greenstar 8000 Lifestyle launch last year, we also introduced the unique and innovative Greenstar Intelligent Filling System (IFS). This accessory can remove the need for a consumer to have to top-up their system pressure periodically avoiding a fiddly job of which they can often be uncertain. It further avoids the need to call their installer back if they cannot complete the top-up themselves.

We have known of some instances where the IFS hasn't worked reliably and these instances have often been due to the required minimum mains pressure not being available, so we are taking the opportunity to clarify the requirement.

In order for the IFS to work successfully and reliably there must be an appropriate level of water pressure from the mains supply. The minimum required is 1.5 bar standing pressure. This is actually much lower than the minimum mains pressure required for the associated combi boiler to perform to its full effect, so should not be an issue for the installer or consumer.

Unlike a combi boiler that will continue to operate but with reduced hot water flow on lower mains water pressures, the IFS will only be able to maintain the system pressure if at least 1.5 bar standing pressure is available. Below you will find a reminder of the requirements of the 8000 Lifestyle combis:

Min. mains inlet pressure (working) for maximum flow (bar)					
	30kW	35kW	40kW	45kW	50kW
8000 Life / Style	2.3	3.2	3.0	3.4	2.5

In summary, the key points at the pre-sales stage are:

- ▶ The minimum mains pressure of at least 1.5 bar (standing).
- ▶ Consider that when using the IFS, the maximum achievable pressure in the central heating system will always be approximately 0.5bar less than the available mains standing pressure.
- ▶ Consider both of these factors in unusually tall properties such as large three-storey town houses with high ceilings (with a greater than average static head) for example.

KEYLESS FILLING LINK AVAILABLE FOR ALL CURRENT WORCESTER GAS FIRED COMBI BOILERS:

The same requirements detailed in the first column of this document also apply whenever the Keyless Filling Link is used with any of the combi boilers in our current range.

A reminder of the minimum mains pressure requirements of the other current combi boilers is below (refer to the appliance installation instructions for further information):

Min. mains inlet pressure (working) for maximum flow (bar)		
All kW Outputs		
CDi		
Compact / Si Compact	1.6	
2000	1.5	
	25kW	30kW
i	1.3	2.0

In summary:

- ▶ If the minimum required mains pressure to allow for the pressure loss through the Keyless Filling Link or IFS is not available, consider fitting either an integral filling link with a key (part number 7-716-192-281) or an external filling link. Both of these have very little pressure loss and will allow you to equal the standing mains pressure in the system.
- ▶ The appropriate pages of the website and the installation instructions supplied with the filling links referred to in this document will be updated to include these requirements.

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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