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## Water radiators – venting procedure (bleeding)

### Recommended Venting Procedure for Radiators (with bottom opposite end connections)

*Please ensure that you have a container and cloth at the ready to catch any water that may be lost during the following process, and the central heating system is turned off. For best results vent system when cool. Generally radiators will have been 'balanced' by the setting of the return-side valve. If this is the case, record the setting (e.g. The number of turns it takes to close, or position of slot on 'ball valve' type) and return to this setting after completing the following procedures:*

#### **Sealed Systems** (e.g. Combi-boiler)

Radiators installed on 'pressurized' systems are under simultaneous pressure on their flow and their return sides. This may sometimes cause a stubborn airlock in the middle of a radiator. The following process promotes natural water gravitation and easier venting by using system pressure separately on the flow and return side of a radiator.

1. Carry out an initial vent from **all** radiators, working from the lowest point upward, re-topping pressure frequently to maintain approximately 2 bar **throughout** the venting process.
2. Run central heating system for 5 minutes, switch off and allow it to cool completely.
3. Carry out a **full** and thorough vent from the **entire** central heating system, as before.
4. Return to the radiator to be vented and close the flow valve and return valve.
5. Vent radiator, ensuring all pressure is released from radiator water first air last.
6. Gently open the return valve only (with the vent closed) and then close again.
7. Vent radiator ensuring all pressure is released from radiator water first air last.
8. Repeat steps **5 & 6** until all air is removed (maintaining 2 bar pressure).
9. Open the flow valve.
10. Return the return valve to noted position.

#### **Open Systems** (e.g. with an expansion tank in the loft)

The following process promotes natural water gravitation and easier venting by using system headerpressure on the return side of a radiator.

1. Carry out an initial vent from **all** radiators, working from the lowest point upwards.
2. Run central heating system for 5 minutes, switch off and allow it to cool completely.
3. Carry out a **full** and thorough vent from the **entire** central heating system as before.
4. Return to the radiator to be vented and close the flow valve.
5. Open the return valve fully.
6. Vent radiator slowly and repeatedly until all air is removed.
7. Open the flow valve.
8. Return the return valve to noted position.