

Editorial Content

Plumbing, Heating and Air Movement News is widely regarded as being the leading technical publication for industry professionals and decision makers. The long established publication continues to evolve so that it reflects the key concerns of its readers and provides an authoritative commentary on the many challenges facing businesses operating in the domestic and light commercial sectors.

It is produced in an attractive and accessible tabloid format and delivers an unrivalled breadth of coverage to ensure that readers are kept abreast of the latest design trends and technical developments.

PHAM News
The Technical Magazine for the Plumbing, Heating & Air Movement Industry

Churches set to convert to renewable technologies
Hundreds of churches in the UK are going green as they take part in the Big Church Switch, an initiative to help Christian churches of all denominations switch from fossil fuels to renewable energy.

Prosecution for unsafe asbestos removal
A North Devon gas engineer has appeared in court after causing potentially dangerous asbestos material during a gas boiler replacement in a home's property during himself and others at risk from exposure to asbestos fibres.

St George's upgraded
Liverpool City Council has chosen to demolish St George's hospital building in the city centre and replace it with a new, state-of-the-art hospital building.

Win an iPad with Adey!
Plus lots more prizes of a value of up to £1000!

Throughout the year, **PHAM News** targets specific areas of the plumbing and HVAC markets with monthly features that deliver analysis, advice and insight across a comprehensive range of technologies. The current emphasis on energy efficiency in boiler technology, for example, is reflected in our in-depth coverage of oil and gas appliances as well as heating controls, system treatment and circulating pumps. Renewables also feature prominently in the magazine, with experts in the solar, biomass and heat pump sectors providing jargon-free comment on the most pressing issues. Training is another area of focus where we devote space each month to news of the latest qualifications and courses provided by manufacturers and colleges. Other popular sections of the publication include a gadgets and tools section, case studies, new product round-up, business guidance, prize competitions and a lively letters page – all of which help to make **PHAM News** essential reading for the growing number of industry professionals and decision makers who consider the magazine to be their more important source of information.



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Best practice for installing TRVs

Installing TRVs correctly will help to ensure your customers get the best results from their central heating system. Here, Drytron Controls provides a step-by-step overview of how to fit its 'A' rated TRVs, with tips and tricks to make the process even easier.

- 1) Once you have drained down the system, you can start the installation. Remove the existing TRV by unscrewing the nut on the copper pipe and the radiator tail piece.
- 2) Seal the new valve tail piece with 4 x 4 layers of PTFE tape to prevent leakage. Remove the new valve onto the tail piece on the radiator and the copper pipe.
- 3) Attach the TRV head, making sure that the indicator is facing upwards. This is critical to help prevent the valve from being set to maximum before reducing the setting to your desired level.
- 4) Now that the TRVs have been installed, the next step is to balance the system using the TRV. Balancing is important, as it means that all rooms heat up evenly at the same time. Balancing this way using the TRV prevents the need for a radiator room.
- 5) Before balancing the system you need to turn on both the boiler and pump. Making sure that all the lockshields are fully open, start at the radiator closest to the pump, checking the temperature of the flow and return pipes using clip on thermometers.
- 6) The target drop in temperature from the flow to the return pipe is 12°C. If the temperature is different you need to adjust the flow pipe, changing it to increase the temperature drop and vice versa.
- 7) To start balancing, screw the valve head to expose the internal coil. Turn the adjusting bar to lower the lock ring, but be careful not to turn more than a quarter turn. The lockshields can now be returned using their end of the adjusting bar.
- 8) It is important that you only adjust in a clockwise direction. The numbers on the adjusting bar correspond with the numbers on the valve rim. Use up the number setting required to use an 18°C drop in temperature, with the number on the valve rim and set against the locking ring.
- 9) Repeat this process on every radiator, working away from the pump, until all radiators have the required 12°C drop between flow and return. Adjusting the flow rate that way ensures unbalanced systems. Reducing this way means the system does not need to be re-balanced if a radiator is removed – all the lockshields have to be fully open the lockshields.
- 10) You can also replace a gland seal while the system is hot. This is the part of the TRV that is most susceptible to wear. Because the system is hot there can be some leakage, so it's best to just a towel down before starting.

Find out more
For more information on the full range of TRVs from Drytron Controls, please email the number below on the mobile enquiry and registration card inside this issue, or visit the website.

