

**Issue 7** The information hub is designed to provide - mainly technical - information relating to Water Coolers and Boilers, to assist you with your work

## Water leaks!! With POU Coolers Need not be a professional hazard

Water Leaks are mainly the result of...

1. Poor plumbing connection to the Mains.
2. Leaking Push Fit connections, and Pipes from the Mains to the Cooler.
3. Leaking from inside the Cooler.

Connecting the POU Cooler to the mains. Uses an Installation Rail which consists of Copper Compression Fittings, a Non Return Valve with Isolating Tap, a Pressure Regulating Valve factory set to generally between 2.5 and 3 bar, and a Waterblock. Our Installation Rail comes with a Filter (PFRAILKIT) or without Filter (PRAILKIT) DO NOT use a Self Cutting Valve, instead of professional Compression Fittings. Self Cutting Valves have resulted in major leaks and large insurance claims.



Installation Rail

### Water Pressure

Water Utilities provide mains Water to any building at a minimum of 2bar. However, much can happen inside the building. In general the water pressure would decline, with one notable exception..... Water Pumps are often used in high rise buildings to ensure that the Flow Rate on the top floors is sufficient. The Water Pressure can suddenly surge, if no water is withdrawn when the building is empty and can "blow" Push Fit connections, causing a leak. The Pressure Regulating Valve on your Installation Rail, will protect you from such sudden surges.

### When to install and when not to install?

Avoid installing on a Friday afternoon – a small leak over the weekend can be catastrophic. Always allow the installer time after the installation to check that there are no leaking connections. An Installation Check List may be helpful.

### AA Flood Prevention

The AA4400X POU and ArcticChill have a FloodGuard Valve at the mains connection to the Cooler. This Valve is closed and only opens to allow water into the Cooler when water is withdrawn from the Taps. It then closes again. Any leak inside the Cooler is therefore limited to the amount of water in the Tank.

### Other Installation Tips

Use EDWCA or BWCA trained Installers or Plumbers to protect yourself. The Associations run regular Installation and Sanitising Training Courses. For more information visit -

[www.bwca.org.uk](http://www.bwca.org.uk) or [www.edwca.org](http://www.edwca.org)

Always make sure that you connect to a potable water supply! If in any doubt, ask the building manager to identify the incoming potable water supply. Low water pressure could be an indication that the water comes from a Cistern/Tank and not directly from the mains.



## Low water pressure or blocking filters from "dirty" water

Long runs of 1/2" Poly Pipe will reduce the water's Flow Rate – in extreme cases right down to a trickle. Best practice is that the length of the Poly pipe should not be more than 5 metres.

The 1 micron Carbon Block Filter can also affect the Flow Rate into the Tank. On top, if your mains water is "peaty" or is unusually "dirty" (often when there are repairs to the mains) the Filter may get blocked.



Our new NANOFILTER can help with both issues. It's pleated, woven carbon impregnated Glass Fibre material has a very large surface area to help with low water pressure and reduces the risk of blocking (the NANOFILTER also has outstanding Pharma properties, ideal for use in health sensitive areas)

NanoFilter

## POU Installation

This video shows a professional connection of a POU Water Cooler to the Water Mains using a WRAS approved POU Installation Rail

Visit: <http://www.aafirst.co.uk/pou-installation>