

# Mains Pressure Boosting

For more information, contact us on  
0208 607 0449, or [Info@GlowMaintenance.co.uk](mailto:Info@GlowMaintenance.co.uk)

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Water systems running off mains pressure e.g. combination boilers and unvented cylinders such as MegaFlos, often suffer from pressure problems, especially noticeable in showers. Megaflos and similar specify a minimum flow rate of 20ltrs/min, they are often incorrectly specified and installed, commonly during extensions and building works; although even with more than 20ltrs/min if you are trying to run multiple showers the pressure will drop.

Water flow is initially affected by the pipe in from the street, which can only supply a finite amount. For example, if you have 13litres/min coming in through your mains then running just a shower would be a good flow (maybe 12ltr/min), but if someone fills the kettle at the same time, this incoming flow would be shared between the 2 outlets, in favour of the lower one; so you may find you have 8ltrs/min out of the kitchen tap and the shower drops to 5ltrs/min.

As well as an initial restriction on the incoming mains, the pipework throughout the property may also restrict the flow, as may other components, the boiler or individual outlets. This means that improving the water pressure throughout a property may involve a number of different steps, not necessarily in the order below.

- Checking the pressure at different sections of the property's plumbing to assess where the restrictions lie. If the incoming supply is restricted we are unable to test further until this is improved.
- Changing stopcocks, both internal and external if they appear to be old or problematic.
- If required, using one or more pressure boosting options (detailed below) to improve the water available to the property.
- Depending on incoming flow, adjusting the internal plumbing of the property, fitting a larger boiler etc.
- Addressing individual outlets if still having issues even though pressure is good elsewhere.

Please be aware that when it comes to water pressure, **there is almost never a panacea**, all methods have limitations, and multiple steps are normally required, often a combination of methods. The most common methods are:

- **New, dedicated, incoming mains** – This is the cleanest (less components etc) option for getting a better flow in to the property. This may involve builders digging trenches or using a 'mole' and running a new 32mm poly pipe, the water company connecting up in the street and Glow connecting up inside the house. Even with this the volume/pressure of water available will be dictated by the pressure on the street. Depending on how many outlets are likely to be used at once other methods may also be required in conjunction with this.  
**Approximate Price - ?? unsure as most of the work would be done by builders and the water company**
- **Accumulator** – This is a large cylinder (varying sizes), pressurised by the mains standing pressure when no outlets are in use, it then provides a boost to the water flow until the stored pressure is used up (the pressure will drop gradually as used). These come in varying sizes, have few working parts and are silent. They offer a finite amount of boosted water volume depending on size.  
**VERY Approximate price £1750 + VAT, depending on size, position etc.**
- **Pump and Tank** – To install a water tank and a negative head single pump to pump the water in to the pipework (this must NOT feed the kitchen cold - drinking water); With a choice of pump sizes and tank volumes this can provide the best solution but require significant space. However, the pump will run whenever any water is in use and pumps are noisy.
- **VERY approximate price - £1950 + VAT, depending on pump and tank size, location etc.**

While there are also 'mains booster pumps' on the market, these can only boost the flow UP TO 12ltrs/min maximum, and do not work in upper flats where the water essentially stops when lower flats are using their taps.

**Contact Glow Maintenance for further advice – 0208 607 0449 or [Info@GlowMaintenance.co.uk](mailto:Info@GlowMaintenance.co.uk)**