



**NATURAL ENERGY
WATER FLOW SYSTEM**

flow rates that are full, fast and free



Charger

The environmentally friendly way to enhance water volumes to taps and showers.

**MainsBoost
Charger**

THE PROBLEMS...

Pressure and volume

Most people are confused about the term "water pressure" when referring to poor performing taps and shower terminal fittings. What they really mean to refer to is the "rate of flow".

More often terminal fittings such as taps and showers do have a decent pressure within the supply pipe work but it is due to the lack of volume of water or flow rate often reveals itself as a poor performing outlet.

A Common assumption

Unfortunately there has been a common expectation that if a building has been connected direct to the water main all the appliances will perform satisfactorily. The reality though is almost certainly to the contrary. We believe a more accurately that most direct systems actually need the MainsBoost system to assist in providing stable water flow.

The symptoms

Put more than one tap or shower on and there is a dramatic fall in performance of flow rate to the additional outlets.

Mains fed appliances such as; **Combination boilers • Unvented storage cylinders • Hot Water Plate Generators • Direct fired hot Mains water heaters**

THE PATENTED MainsBoost SOLUTION

The 'Load & Lock' concept

When there is a useable available pressure but poor volume. The natural energy contained in the water main is simply utilised by pressing against an air precharge contained within one or more of the highly specified accumulator vessels. This water is then captured within the MainsBoost vessels and "locked in" with a non-return valve after equilibrium with the water and air charge is reached.

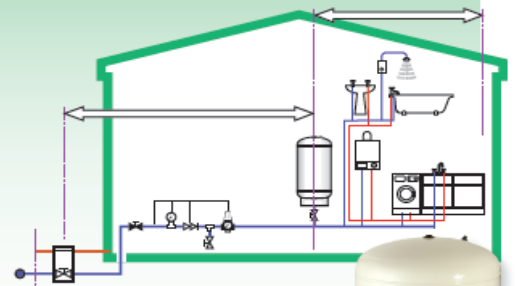
This water store has been loaded effectively by means of an adequate usable pressure but low volume water main. It has used free energy from the water main and this has been locked into the system. There is now a volume held at a pressure value equal to that of the incoming water Main. This is now ready to discharge this volume into the system.

Flow on demand

When terminal fittings are used within the building the MainsBoost vessels will instantly contribute to the system demand load. This gives superb flow rates and reduces the impact of dynamic pressure drops. Visual improvement of the water spray patterns of shower heads for example are instant. All this from a basic solution without pumps.

Reload

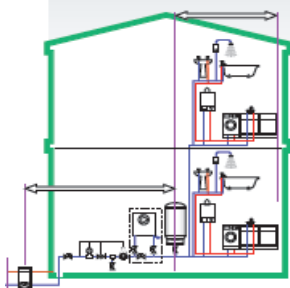
When there is an available mains pressure the system demand is also satisfied by the mains water supply. Once demand subsides this mains water recharges the vessels, ready for the next cycle of use by consumers. The amount of water stored needs to be matched to the forecast of consumption.



Benefits

- MAINSBOOST HAS NO ELECTRICAL ENERGY CONSUMPTION
- CAN PROVIDE A SUBSTANTIAL INCREASE IN WATER VOLUME TO SYSTEM
- NO THE NEED FOR REGULAR CLEANING AND REDUCED CHLORINATION
- OVERCOMES PROBLEMS ASSOCIATED WITH LOW MAINS PRESSURE OR INADEQUATE FLOW RATES
- TRUE 'POWER SHOWER' PERFORMANCE WITHOUT THE NEED OF PUMPS
- CAN REPLACE HIGH MAINTENANCE NOISY BREAK TANKS AND BOOSTER PUMP SETS
- ACCUMULATORS CAN BE LINKED TOGETHER IN A MODULAR SYSTEM ALLOWING GREATER STORAGE
- ALLOWS GREATER FLEXIBILITY OF BUILDING DESIGN
- WHOLESOME POTABLE WATER TO ALL MAINS WATEROUTLETS
- NO TOUCH SERVICE FOR 5 YEARS
- SEALED WATER STORAGE
- HIGH RELIABILITY

Charger Low incoming pressure ?



In some locations not all incoming water supplies have the necessary pressure to drive the MainsBoost system. Fortunately there is a solution with the MainsBoost Charger.

This unique low energy pump fits directly on the water main and trickle charges the MainsBoost Vessels at a rate that does not exceed the rate water regulations limit of 12 litres per minute. The Charger ensures the volume storage that is needed for the demand circuit within the building assuming all MainsBoost sizing requirements have been made. The unit is small and compact and can be placed at a variety of locations and can be located where some traditional break tank solutions cannot be placed. Features a line sized bypass kit that means under certain conditions not every litre of water is pumped which saves energy consumption.

Benefits

- LOW ENERGY
- QUITE RUNNING
- COMPLIANT TO WATER REGULATIONS
- POWER SAVING BYPASS
- DIRECT ON THE MAIN
- EASY FIT
- SETTABLE CONTROLLER
- VERSITILE INSTALLATION LOCATIONS

