

Schematic Plumbing

System Diagrams

- Layout and sizing of pipework must be such that when other services are used, pressures at the products inlet(s) are maintained approximately equal and do not fall below the recommended minimum.

Electrical installations must comply with the "Requirements for Electrical Installations" commonly referred to as the IEE Wiring Regulations, or any particular regulations and practices, specified by the local electricity supply company. Installations should be carried out by an electrician or contractor who is registered, or is a member of, an association such as:

National Inspection Council for Electrical Installation and Contracting (NICEIC), throughout the UK Tel: 0207 564 2323.

Electrical Contractors Association (ECA), England and Wales Tel: 0207 313 4800.

Electrical Contractors Association of Scotland (ECAS) Tel: 0131 445 5577.

Plumbing installations must comply with UK Water Regulations /Byelaws (Scotland), Building Regulations or any particular regulations and practices, specified by the local water company or water undertakers.

Installations should be carried out by a plumber or contractor who is registered, or is a member of, an association such as:

Institute of Plumbing & Heating Engineering (IPHE), throughout the UK Tel: 01708 472791.

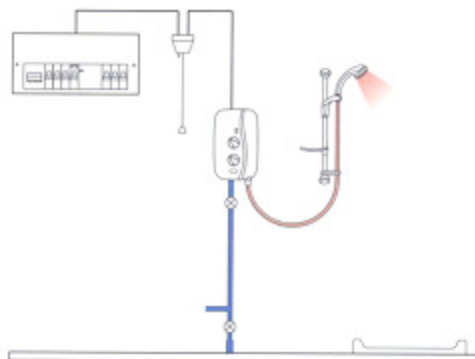
National Association of Plumbing, Heating and Mechanical Services Contractors (NAPH & MSC), England and Wales Tel: 0247 647 0626.

Scottish and Northern Ireland Plumbing Employers' Federation (SNIPEF), Scotland and Northern Ireland Tel: 0131 225 2255.

The following diagrams and text illustrate typical examples of suitable plumbing systems for shower products.

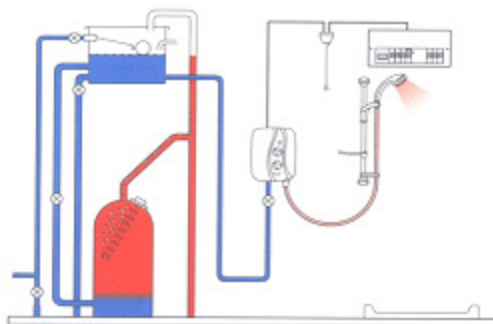
Instantaneous electric showers

Electric showers can be supplied from either the cold water mains supply or cold water storage cistern depending on the model of electric shower. The minimum maintained inlet pressure requirements for either model must be met.



Gravity fed instantaneous electric showers

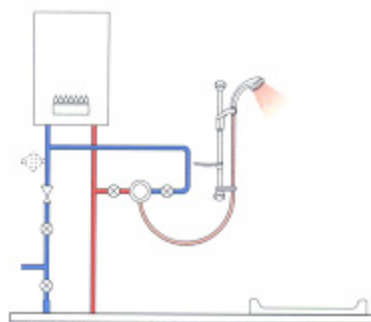
Pumped electric showers work by taking cistern fed cold water and passing it over the heating elements contained in the heater tank of the shower appliance.



Gas heated showers

Shower controls **MUST** be installed with a multi-point gas water heater or combination boiler of a fully modulating design, providing nominally equal static pressures.

A fully modulating multi-point gas water heater or combination boiler is one in which the water draw-off rate controls indirectly the gas flow-rate to the burner. The concept is to produce relatively constant hot water output temperatures within the operating limits of the heating appliance. A drop tight pressure reducing valve will be required to ensure that supply pressure does not exceed 5 bar maintained.

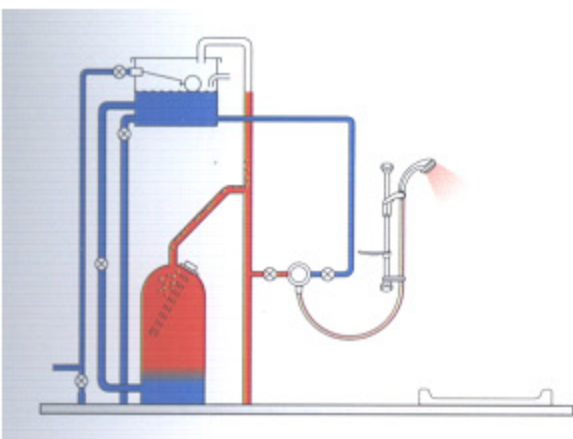


Key to symbols appearing throughout this section:

- Float operated valve
- Stop or servicing valve
- Shower control
- Warning or overflow pipe
- Drop tight pressure reducing valve
- Single impeller outlet pump
- Twin impeller inlet pump
- Tempering valve
- Mini expansion vessel

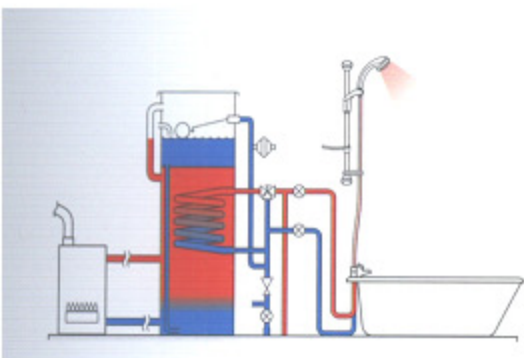
Gravity fed showers

Controls **MUST** be fed from a cold water storage cistern and water cylinder providing nominally equal pressures.



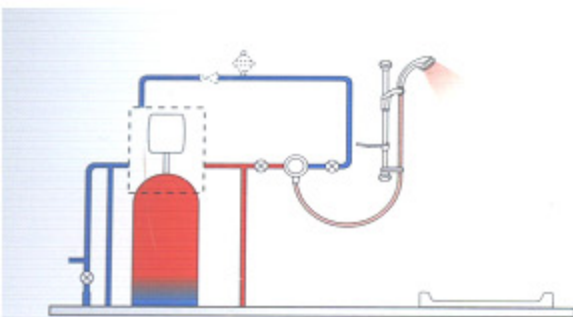
Mains pressurized (heated from a thermal store)

Packages of this type, fitted with a tempering valve can be used with shower controls. The tempering valve provides a relatively constant hot water temperature and the shower control compensates for system temperature variations should they occur. A drop tight pressure reducing valve is Required to ensure that the supply pressure does not exceed 5 bars maintained.



Unvented mains pressure showers

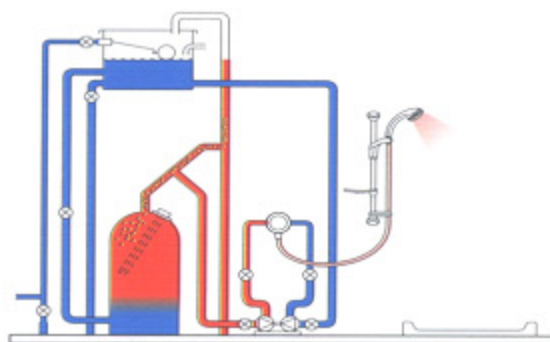
Shower controls can be installed with an unvented, stored hot water cylinder. Only a "competent person" as defined by "Part G" of "Schedule 1" to the "Building Regulations", may fit This type of system. For packages with no cold water take off after the appliance pressure reducing valve, it will be necessary to fit an additional drop tight pressure reducing valve, when the mains pressure is over 5 bar. The drop tight pressure reducing valve must be set at the same value as the unvented package and installed as shown dotted. This does not apply to packages with a cold take off after the appliance pressure reducing valve.



Pumped showers

Inlet pumps

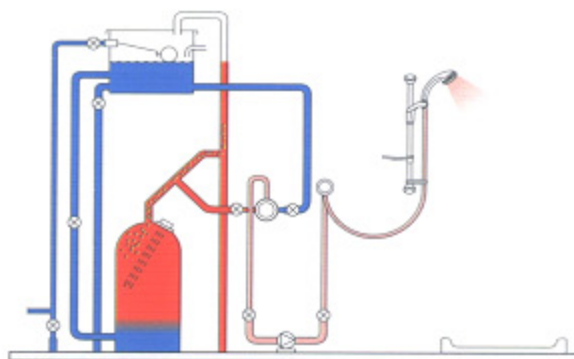
Shower controls can be installed with an inlet pump (twin impeller). The pump **MUST** be located on the floor next to the hot water cylinder and cylinder/vent pipes must be arranged as shown to achieve air separation.



Pumped showers

Outlet pumps

Shower controls can be installed with an outlet pump (single impeller). The pump **MUST** be located on the floor near to the shower control. The hot water cylinder /vent pipe must be arranged as shown to achieve air separation.



Pumped showers

All-in-one Power showers - Gravity fed.

Shower controls must be fed from a cold water storage cistern and hot water cylinder providing nominally equal pressures. The hot water cylinder/vent pipe must be arranged as shown to achieve air separation.

