

PUSH BUTTON SHOWERS OVERVIEW



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Brochure no. 0911-1 www.abberfield.com.au

SIMPLE CONTROL OF WATER WASTE

water

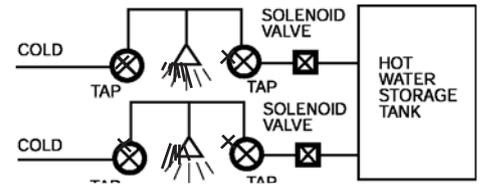


FIGURE 1

Ideally the solenoid valve should be mounted in a service room. Alternatively, plumbing can be fitted into the amenities block roof area, but access should be available for service.

OPERATION

Press the button and hot water flows to the shower.

After a pre-set period the hot water turns off.

Pressing the button again will not re-connect the hot water until after the pre-set "off" time expires. Only after this time is it possible to press the button again to restart the hot water.

A warning signal can be implemented to give notice of water disconnection

"On" and "off" times are adjustable by the owner, not the user. This operation allows normal showering but discourages excessive water use by the momentary loss of hot water. Once the user leaves the shower, dries off and changes, the "off" time will have expired and normal operation is available for the next person.

The control unit should be mounted outside the shower cubical and controls a solenoid valve (electric water tap) mounted in the hot water supply line. Alternatively the solenoid valve can be fitted to control both hot and cold water.

For vandal protection the control unit can be mounted remotely and an optional vandal proof touch panel can be fitted near the shower area.

NORMAL INSTALLATION

A push button timer is used to operate a solenoid valve (electric tap) fitted to the hot water pipe of each shower.

SIMPLE METHOD

The simplest method is to use one Solenoid Valve to turn off hot and cold together by removing the shower rose, fitting a Solenoid Valve, and re-installing the shower rose. This is used where cold water is limited or for push button controlling an existing shower installation in the simplest way. **However this is only safe (and legal) if low voltage is used.**

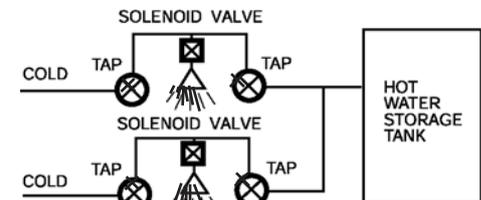


FIGURE 2

SAFEST METHOD

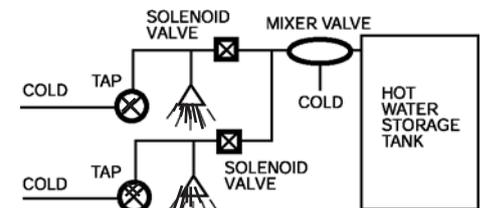


FIGURE 3

Inclusion of a mixer valve to combine hot & cold water ensures scalding cannot occur. One advantage of this method is that the warm water connection can be made directly to the shower rose. This can permit conversions to existing showers without disturbing the tiling. Exposed chrome plumbing carrying warm water can often run neatly across or down the wall.

SPECIFICATION

push button



*Model STP
Vandal proof touch panel.*

Operating voltage

Model PBC60 Standard units operate on:

- Mains 240 Volts and are doubly insulated.
- 12 Volts A.C. (see back page for details on low voltage control units).
- 12 Volt battery.

WIRING

Cable entry is expected to be through the wall behind the control unit or vandal proof panel, but can be surface mounted, entering the bottom of the control unit or remote vandal proof touch panel.

DIMENSIONS

- Standard switch plate size.
- Control unit: 75mm H, 120mm W, 43mm D.
- Remote vandal proof touch panel: 75mm H, 120mm W, 10mm D.

FASTENING

Both the control unit and the vandal proof panel can screw into a wall mounted junction box. Alternatively they can be fixed directly to the wall.

Mounting screws are provided.

WATERPROOFING

The control unit is splash proof. However, it is recommended that this item is not installed in the shower recess area but in the attached change area, or preferably outside the shower cubical. The remote vandal proof touch panel is even more waterproof and operates on very low voltage.

TIME ADJUSTMENT

Both the shower "on" time and "off" time can be set. The PBC60 has a timing range from 6 seconds to 100 minutes.

PRE-WARNING

Model PBC60 - The owner can set either, – both, – or neither of two pre-warning systems.

Load interrupt pre-warning will disconnect the water supply for one second, one minute before the end of the timed period.

Alarm pre-warning will sound a buzzer in the control unit briefly, 30 seconds before the end of the time period.



Model PBC 60 Push Button Controller

push button

LOW VOLTAGE CONTROL UNITS

Model LV

These can be obtained from Abberfield Technology to provide low voltage to operate the push button showers. The low voltage supply is housed in a weatherproof case with a lead and plug for fitting to a power point. Alternatively it can be wired directly.

Each supply can operate up to 8 push button controllers and solenoid valves. Line filtering is included and two output voltages (12 Volts and 15 Volts) are provided. The 15 Volt supply is useful when the distance from the power supply to the showers is considerable and some voltage drop occurs. Voltage drop is minimised by using a conductor size of 1.0mm or greater. With the low voltage operation single insulation wire is sufficient.

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NOTE

Abberfield Technology produce a range of coin operated time switches suitable for coin control of showers. Application details are very similar to push button control. Technical data is available on request.



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