



Families, particularly those with teenagers, and Commercial enterprises such as motels, backpackers, camping parks can have:

- A congestion problem in the busy hour.
- Extraordinary water and heating energy accounts.

Showertimer is a microprocessor controlled electronic timing device which overcomes these problems. Many other shower control devices are not user friendly or ineffective because they allow follow-on showers.

Showertimer cuts off the water and then enforces a waiting time.

Showertimer saves:

- Water cost \$\$\$\$
- Gas or electricity water heating cost \$\$\$\$
- Peak hour queues, inconvenience and frayed tempers.
- Can recover its cost in only a few weeks.

Showertimer features:

- Low DC voltage safety (Approval No. Q99505).
- Programmable by the owner from 0 to 12 minutes showering time.
- Visually informs the user of the amount of shower time remaining.
- Audible progress reports with increasing urgency as expiry time approaches.
- Waiting period to prevent “follow-on” shower. Programmable by the owner from 0 to 5 minutes.
- Hot water supply must be mains pressure, or equal to the cold water pressure.

Available through hardware and all major plumbing stores in Australia.

Australian wholesale supplier is Aquaflow Distributors. We invite your enquiries:

Telephone: +61 418 962 266

Email: info@showertimer.com.au

General overview

Three models

- **Standard model** is suitable for domestic and commercial use where it is possible to fit the solenoid valve (electrically operated water switch) in the riser pipe between the mixing taps and the shower outlet. In colder climates it is sufficient to fit this valve in the hot pipe feeding the shower tap.



Standard model

- **Retrofit models** are designed for use where it is not possible to access the riser pipe. One model (Domestic retro) is suitable for use where the user can be held accountable for any damage and the other (Commercial retro), a more robust model, for use where rough treatment is a possibility. In both cases the solenoid valve is screwed on to the wall outlet and, after the control box is fitted, the existing shower is refitted to the valve outlet.



Economy retrofit model



Heavy duty retrofit

Installation

- The Standard model requires the services of a plumber because the water pipe must be cut in order to fit the solenoid valve.
- The Retrofit models can be installed in an existing shower by a handyman.
- For all models, we recommend the services of an electrician but it is often not essential to interfere with electrical wiring, therefore it can be installed by a handyman.

Progress monitoring

Visual progress monitoring is provided by displaying the remaining time in minutes and seconds. This is supported by audible signals from an electronic buzzer. The audible signals indicate increasing urgency until the timer ultimately shuts off the water supply to the shower. The waiting time period then commences and is reported by the visual display. The visual and audible signals are similar to that used in a microwave oven.

Programming

Both shower time and waiting time are selected and set by the owner from a number of pre-programmed time options. Shower time can be selected in whole minutes up to 12 minutes and the Waiting time between showers can be chosen from 0, 15, 30, 60, 120 or 300 seconds.

The settings cannot be changed except by first removing the power source.

In the normal condition the owner can see the settings at a glance. The visual display indicates the two settings alternately for three seconds each. The Shower time setting is displayed as a steady glow and the Waiting time flashes.

Location

The preferred location for the shower timer is inside the shower enclosure at around eye level, for visual and audible efficiency.

The solenoid valve for retrofit models is fitted to the shower outlet (between the hard plumbing and the shower arm) and is contained within the same box as the timer unit. The visual display is approximately 100 mm below the wall outlet.

Power supply

Each timer is supplied with a 12 Volt DC safety approved power supply which is usually installed above the ceiling, or in an adjoining room.

Operation

Pressing the button momentarily begins the shower time sequence, confirmed by a beep from the buzzer. Hot and cold water taps are used as normally to control the temperature and water flow. The visual display indicates the remaining shower time in minutes. At each minute change, the buzzer beeps once. From 99 seconds, the display indicates remaining seconds. At each of 30, 20, 10, 5, 4, 3, 2 and 1 seconds remaining, the buzzer beeps once. The water is then cut off and the flashing visual display indicates the remaining Waiting time. Pressing the button at any time during the shower or Waiting sequence has no effect.

Shower costing

The following shows the approximate cost of a 12 minute shower using the four most popular heating sources:

HEATING SOURCE	Each shower	5 per Day	Per Annum
Electric Full Tariff	\$2.50	\$12.50	\$4563
Off Peak	\$1.60	\$8.00	\$2920
Gas Natural	\$1.20	\$6.00	\$2190
LPG	\$1.73	\$8.65	\$3154

Install shower timer set to 6 minutes and save half the annual cost.

NOTE: The tariffs used for calculating these costs were typical at the time of preparation of this document (**2013**). Full tariff electricity was calculated using 30c per Kwh, off peak at 20c per Kwh, Natural gas at 3c per MJoule, LPG at \$2.50 per Kg and water at \$2 per Kilolitre.

We invite you to download our **XL Cost Calculator** and insert your own energy unit cost as shown on your electricity or gas account.

Visit “www.showercontrol.com.au” and look for “Support”

Watermark approved

Complies with SAA IPX5

ACA Approval N12616

Patent number 785030

Shower controller

Installation instructions.

- **Electrical**

Each timer comes with a 12 V power pack, similar to a mobile phone charger. You will need a power point in the ceiling or in an adjoining room. If there is an exhaust fan in the ceiling, it will usually plug in to a nearby power socket. A “piggy back” plug and a lead from this socket to within one metre from the shower will do the job (see the note with programming instructions). This arrangement requires the fan to be switched on in order to have a shower. The timer will “remember” the time settings even when the power is not connected.

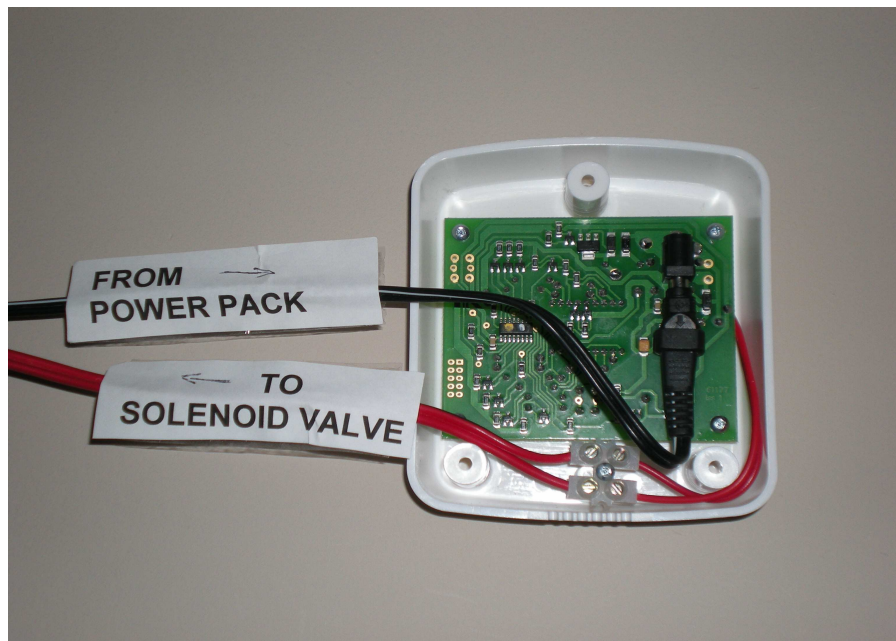
We recommend that power be permanently connected rather than switched as switching enables the settings to be changed.

Low voltage power is run down inside the wall and the lead can enter the control box by enlarging the hole at the shower outlet pipe. The lead has a 2.1mm DC plug which fits the socket on the electronic circuit board of the controller.

- **Plumbing**

Standard model

A plumber will cut the water pipe and fit the solenoid valve. Then it is simply a matter of running the wires through the wall to the control box as shown below:



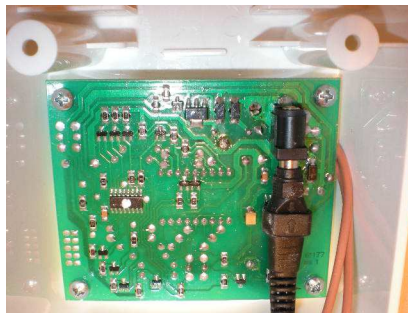
- **Plumbing**

Retrofit models (Photos are Economy model)

1. Remove the shower from the wall outlet. You may need to cut back the shower outlet pipe.
2. Screw on the solenoid valve and plug wire leads on to the valve.



3. Plug in the power pack and run the low voltage lead to the shower timer, plug in to the electronic circuit board.



4. Slip the box over the valve



5. Screw the shower on to the solenoid valve.



Should you choose to employ an electrician, he or she can do all that is required to complete the installation. You should not need two tradesmen to install the retrofit models.

More detailed installation instructions come with every shower timer.

PROGRAMMING SHOWER CONTROLLER

- To enter programming mode, disconnect power for 30 seconds minimum. After the initial installation it may be necessary to remove power at the fuse box.
- Within 2 minutes of re-connecting power to the timer, press the Start button and hold for 10 seconds. The buzzer will sound 2 beeps and the display will flash “P1”.
- Repeatedly press the button to cycle through the program options. When the desired shower setting is displayed, press and hold the button for approximately 3 seconds (holding for 10 secs will take you out of programming mode). To confirm your selection, the buzzer will beep when you release the button.
If you want to change the waiting (Lockout) time between showers, repeatedly press the button again to advance to the desired waiting time. Press and hold for 3 seconds. (Buzzer will not beep until you release the button)
- The display will flash on all settings except the currently selected options.
- Holding the button for 10 seconds will return the timer to Normal mode. Failure to press the button during any period of 30 seconds will also return the timer to Normal mode.
- See table below for cycling sequence.

The following table shows the shower and waiting time options relating to the display shown during programming mode:

DISPLAY	SHOWER	WAITING
P1	1 MINUTE	
P2	2 MINUTES	
P3	3 MINUTES	
P4	4 MINUTES	
P5	5 MINUTES	
P6	6 MINUTES	
P7	7 MINUTES	
P8	8 MINUTES	
P9	9 MINUTES	
10	10 MINS	
11	11 MINS	
12	12 MINS	
00	DISABLED	(no shower)
L0	(no waiting)	DISABLED
15		15 SECS
30		30 SECS
L1		1 MINUTE
L2		2 MINUTES
L5		5 MINUTES

NOTE: In a domestic situation the customer can choose to have the power supply manually switched on and off from within the bathroom. It can be associated with the exhaust fan (piggy back?) and switched on and off with the fan. In this case, the timer operates normally while the power is on but turning the switch off and on again resets the timer to Normal mode – ready to go again immediately.

**Recommended retail prices
(March 2014)**

	Standard	Economy retro	Heavy Duty retro
Australia	\$290	\$270	\$420
*Overseas	\$232	\$215	\$350
*Weight (For packing and postage charging)	250 gm	350 gm	850 gm

*Overseas prices and weights do not include the power pack as our Australian power pack is not suited to most overseas countries. The plug configuration and voltage may be different. Local electronic stores can supply power pack to suit local conditions.

Required specifications for power pack output are:
12 Volt DC regulated, capable of delivering up to 1 Ampere with 2.1mm DC plug.

Prices do not include packing and postage. For Australia, that is a flat \$15 but overseas postage is based on the weight of the parcel. The weights quoted above may be slightly high, allowing a labour component for packing.
Please email request for a quote to “sales@showertimer.com.au”