



The smart shower timer

Information for plumbers and electricians

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Customer benefits

Introduce your residential and commercial customers to a computer-managed shower timer they can trust.

The proven Showerguard smart shower timer:

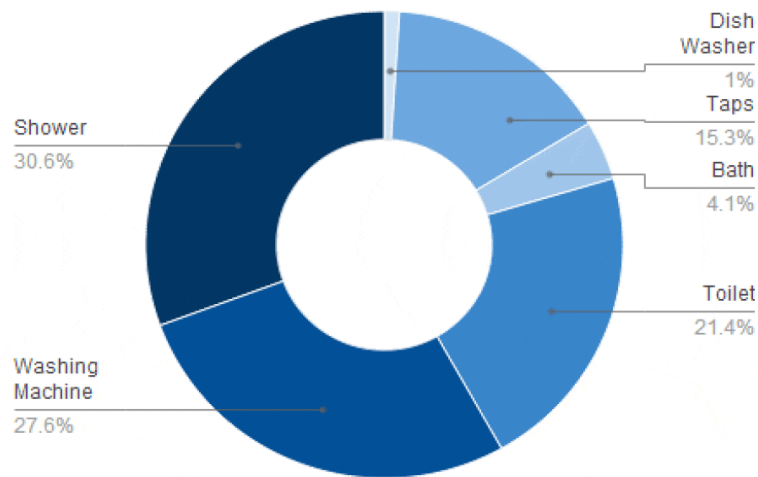
- ▶ Reduces water use and energy costs
- ▶ Prevents bathroom battles
- ▶ Lets you pre-set an agreed shower time
- ▶ Provides gentle cool water warning pulses
- ▶ Has a robust patented design
- ▶ Is easy to professionally install
- ▶ Can be specified for all new-builds and bathroom renovations
- ▶ Is approved by Smart WaterMark and Water Corporation in Australia
- ▶ Comes with a 20-year guarantee on all brass fittings



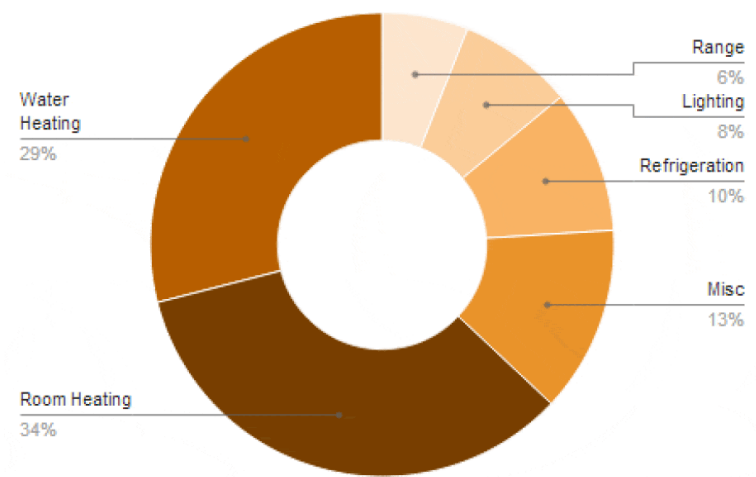
Potential savings

- ▶ In a typical home, the shower uses 30% of the water, and 29% of the home's energy is used in heating water.
- ▶ Showerguard automatically limits showers to an agreed time, ensuring hot showers for everyone and creating savings of up to 50% depending on current use.

Water use



Energy use



Data based on energy and water usage in New Zealand homes. BRANZ heep and weep report. Retrieved from <http://www.branz.co.nz>.

Endorsements

“ The device is simply unbelievable. Our Showerguard is set at 7 minutes. Having boys who still live at home in their early twenties and their friends continually showering at our place before a big night on the town, the Showerguard has paid for itself at least three times over. Our water bills show a decrease and our power bills are down too.

Sheila and Mike Edwards
Auckland, New Zealand



What's in the box?

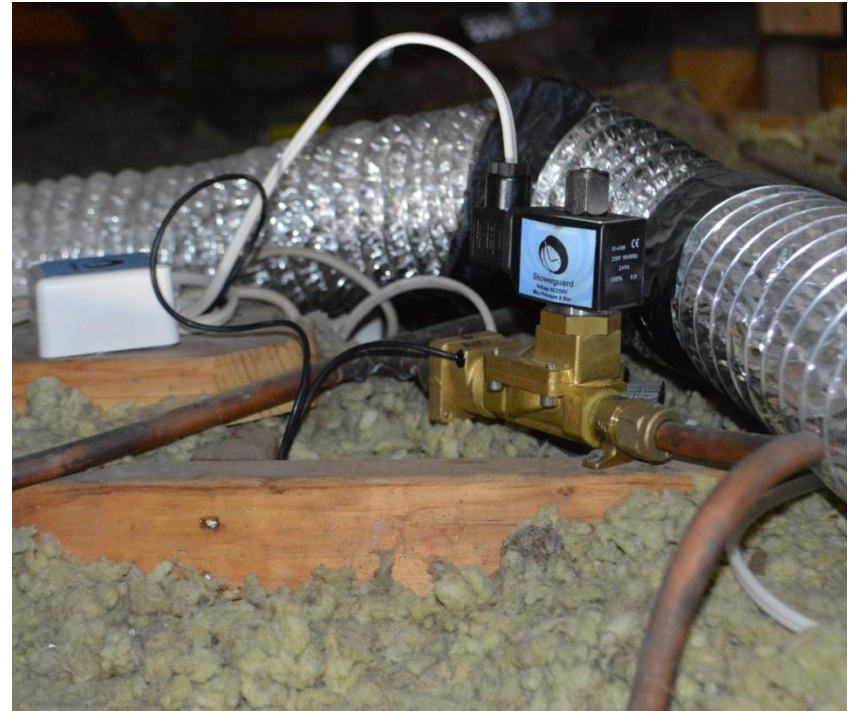


How does it work?

- ▶ Showerguard reduces excessive hot water flow rates to a comfortable 7 to 10 litres per minute.
- ▶ It also stops the flow of hot water to the shower after a pre-set time, between 2 and 20 minutes.
- ▶ In the final minute Showerguard sends a gentle pulse of cool water as a reminder that only one minute is remaining then a second pulse 30 seconds later.
- ▶ At the end of the shower time Showerguard effectively turns off the hot water for a pre-set waiting time then resets to let someone else have their turn.
- ▶ The solenoid only operates for seconds as needed, which significantly extends its service life and reduces operating costs.
- ▶ In the event of a power outage, both hot and cold water are able to flow.
- ▶ Separate models are available for low pressure and mains pressure water heating systems.

Installation overview

- ▶ Showerguard can be installed by a certified plumber and electrician into any new home and most existing homes.
- ▶ The flow switch is attached to the solenoid and they're connected into the hot water feed to the shower.
- ▶ The control panel is then connected and fitted to any surrounding wall along with an isolating switch.



Plumbing installation

- ▶ Select a low pressure (0-5 bar = 0-73 psi) or mains pressure (5-10 bar = 73-143 psi) Showerguard shower timer.
- ▶ You may install it in the ceiling cavity or on a sub floor joist.
- ▶ The solenoid, flow switch and junction box should be fitted within three or four metres of the shower mixer if possible, on a direct hot water supply line.
- ▶ To avoid confusing the microprocessor the water flow through the flow switch and solenoid must horizontal with the solenoid sitting vertically as shown in the photo on slide eight.
- ▶ The solenoid and flow switch should be made watertight and installed into a length of polybutylene hot water pipe if water hammer is likely, with the arrow on the brass valve and flow switch pointed towards the mixer.
- ▶ Water flow and connections should be checked before electrical installation is completed.

Electrical installation

- ▶ The controller is typically located in the hot water cupboard or a similarly convenient location, and must be fitted in accordance with local electrical regulations.
- ▶ The controller is fitted horizontally, similar to a standard light switch or power point.
- ▶ It is installed into a standard single electrical flush box, which can be a surface mount or hollow wall type.
- ▶ For hollow wall installation ensure there is a 150mm clearance of insulating materials to allow good airflow around the controller.
- ▶ An isolating switch is installed alongside the controller.
- ▶ Earth bonding should be used as required by local regulations.
- ▶ The terminal box should be screwed in place near the solenoid and flow switch.
- ▶ An RCD must be fitted to the distribution board.

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Electrical installation continued

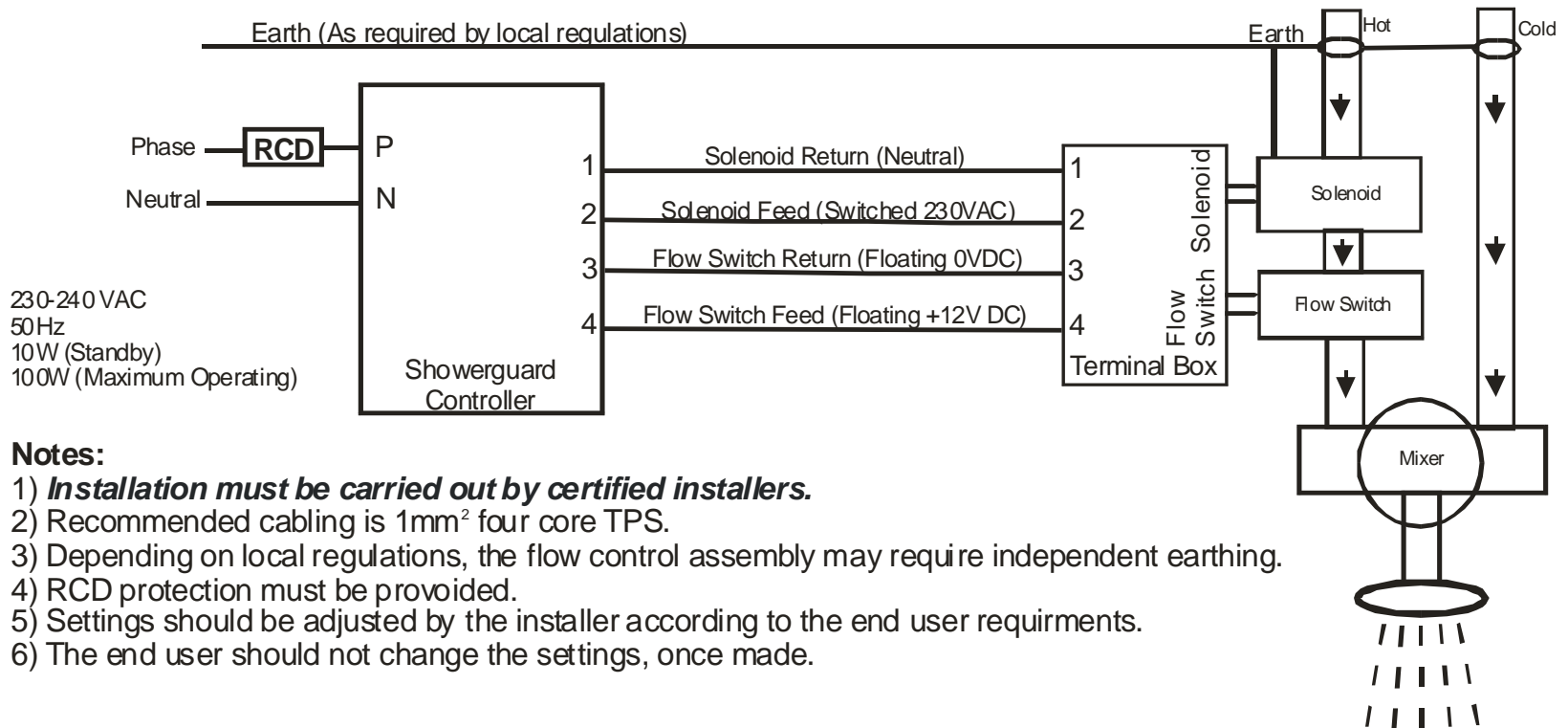
- ▶ Wiring between the controller and the terminal box should be 1mm² TPS (tough plastic sheathed) cable, generally two twin and earth cables are fine.
- ▶ Ensure the terminal numbers at each end of the cable match and clip the wire to the joists as required by local electrical regulations.
- ▶ Connect the two solenoid wires to the terminal box and dress the wires as required. Plug in the flow switch and fit the terminal box cover.

Setting the shower time:

- ▶ Before fitting the controller face plate, *gently* turn the top trim pot fully anticlockwise (top to the left) with the small screw driver provided.
- ▶ Now, *gently* turn the top trim pot half a turn clockwise (top to the right) for the recommended shower time of around seven minutes.
- ▶ Turn the adjacent isolating switch off then on again, the LED will flash once for each minute of shower time set.
- ▶ The other two trim pots are factory set to the recommended initial setting.

Electrical Installation.

Typical Showerguard Wiring



Further information



Patents:

- ▶ Australia 2006259924
- ▶ New Zealand 540977/545456

To learn more, please visit
www.showerguard.com.au



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