

Installing this Geyserduvet

1 Planning for installation . . .

- 1.1 Determine the size of your geyser and make sure the geyserduvet pack will be suitable.
- 1.2 For installations in ceilings, take every precaution not to stand on ceiling boards. Only stand on joists / beams. Use planks (minimum 32mm thick and 900mm long) as temporary floorboards to stand on by placing them over adjacent beams / joists.
- 1.3 Useful tools: suitable ladder, heavy duty or kitchen scissors, a carrier bag for tools, a head torch, a tape dispenser (50mm wide), screwdriver for thermostat and inspection plate, a damp cloth and a dry cloth.
- 1.4 While one person can install the geyser duvet with ease, it will be quicker when assisted.
- 1.5 Wear old clothes (dusty ceiling) and good footwear for standing on the joists and beams. You will get hot, dress accordingly.

2 Setting the thermostat temperature

- 2.1 Switch off electrical power supply to the geyser for the duration of installation.
- 2.2 Open the thermostat inspection cover and check what temperature the thermostat is set to. To optimise savings, we recommend setting it to 50-55 degrees Celsius or lower if desired. Once set, screw the cover back in place.
- 2.3 Insulating more or all exposed hot water pipes will reduce the temperature setting you will need for hot water at your tap.

3 Keep it cosy

When installing the duvet, do it so that none of the duvet is squashed flat against the pipes or cylinder if possible. Flattening the insulation will reduce the available thermal resistance.

4 Install Pipeduvets

- 4.1 If necessary, run hot water to determine the hot water pipe.
- 4.2 Install two Pipeduvets on the hot water pipe nearest the cylinder.
- 4.3 Start against the cylinder and work away, completely sealing/engulfing the hot water pipe, including all bends and joints.
- 4.4 Have about a 5cm overlap on Pipeduvets.
- 4.5 Install the third pipeduvet on the cold inlet pipe nearest the cylinder.
- 4.6 Do not cover any of the valves – this could lead to the failure of your geyser.
- 4.7 Additional Pipeduvet insulation is recommended on the hot water pipes between the geyser and the taps. They can be purchased separately.

5 Installing the Geyserduvet panels

- 5.1 Wipe the geyser cylinder clean and free of dust with a damp cloth. Wipe dry with a dry cloth.
- 5.2 Before cutting panels or committing them with the double-sided tape, measure up and plan to cover all or most of the geyser;
 - 5.2.1 Hold panels in place to be sure of optimal cover
 - 5.2.2 The top long panel should overlap the side long panels.
 - 5.2.3 Install the long panels first and from underside to the top – joining panels underneath if possible.
 - 5.2.4 Install the short, end panels last
- 5.3 Cut the panels where needed to fit around geyser legs and adjoining pipes. For a snug fit, use fastening tape to reseal duvet dust covers where they were cut.
- 5.4 When you are ready to commit the panels to their positions, remove tape liner on the strips of double-sided tape press panels in place against the geyser.
- 5.5 Seal all panel edges and joins with fastening tape against geyser or adjacent, overlapping panels.
- 5.6 Finally, make vertical and horizontal straps with excess fastening tape, making sure not to flatten the insulation.

6 Remove all tools, recycle the plastic carrier bag as a bin bag and dispose of adhesive tape liner.

7 Switch the power supply for the geyser back on.

8 Enjoy the savings!



People benefits

- Saves you money
- Non toxic materials or volatile compounds
- Maintenance free – lasting insulation properties
- Easy to install - due to fitted duvet covers and double sided tape
- Assembled by regional workshops for adults with disabilities - ref website

Economic benefits

- Recycling employment and employment for people with disabilities
- Payback on investment well within 12 months (researched and proven)

Environmental benefits

- Reduces energy wastage through heat losses
- Insulation is made using polymer from recycled PET bottles – duvet also completely recyclable

A quality product

- Over 3m of pipe insulation
- The maintenance free insulation is 50mm non-woven polyester fibre with an R-value of 1.10 (thermal resistance)
- Dustcovers and heat-resistant, double-sided tape ensures ease of installation – a typical installation takes 1-2 hours
- Meets building fire performance safety regulations
- Long lasting; duvet insulation guaranteed to retain properties for 30 years
- Duvet dust covers keep insulation free of dust, ensuring effectiveness
- Resistant to condensation and associated fungi and bacteria
- Geyserduvet is an Eskom Demand Side Management registered supplier
- Performance has been independently tested and verified at UCT Mech. Eng laboratory

Disclaimers

- Reduction in standing heat losses will only be effective with correct installation
- Not suitable for outdoor installations exposed to the elements
- Pipe duvet insulation not suitable for temperatures over 90°C like some solar water heater systems
- The actual cost saving incurred, will depend on a range of variables including;
 - o standing periods
 - o the price per kWh of electricity in your area
 - o ambient temperatures
 - o quality of the geyser's own insulation
 - o turning the temperature of your geyser down and switching it off when not in use

Be an informed consumer

- Thermal Insulation Association of SA (TIASA) www.tiasa.org.za
- Further household energy saving and safety tips www.homeenergy.co.za
- Visit Eskom Demand Side Management www.eskomdsm.co.za

