

INSTALLATION INSTRUCTIONS

This instruction booklet will provide you with all the information required to safely own, install and operate your **SPEEDHEAT** instant HOT WATER unit. Care has been taken in the design and manufacture of the unit to ensure total insulation of the electrical components of the unit. **SPEEDHEAT** has been tested and approved in accordance with the relevant safety requirements which are available on request. **Please read these instructions carefully before attempting to install, operate or service your unit.** Failure to comply with these instructions could result in personal injury and / or damage to the unit, and invalidate the factory warranty.

INSTALLATION

Electrical

- The unit should be installed according to the NATIONAL WIRING code of practice, as required in every relevant country. All work carried out on a distribution board should be done by a qualified person.
- SPEEDHEAT** is designed to operate on a 220-240V power supply. The 3.0kW unit will draw $\pm 13A$. The 3.5kW unit will draw $\pm 15A$ and the 5.0kW unit will draw $\pm 22A$.
- SPEEDHEAT** must be solidly mounted in a **fixed vertical position**. (See Figure 1 on page 4).
- Ensure that the minimum of a 2.5 mm² cable is used on either unit. Should the distance between the 5 kW unit and the power source be more than 4 metres, we recommend a 4mm² cable be used.
- To conform to safety regulations **SPEEDHEAT** must be connected to an isolator/breaker providing all pole disconnection of **15A for the 3.0kW, 20A for the 3.5kW and 25A for the 5.0kW via the earth leakage system.**

PG 1

OPERATING INSTRUCTIONS

STEP 1

OPEN THE TAP TO ALLOW FOR A GOOD FLOW OF WATER TO START HEATING. (YOU WILL HEAR THE MICRO-SWITCH CLICK).

STEP 2

SLOWLY REDUCE THE FLOW OF WATER UNTIL THE DESIRED WATER TEMPERATURE IS REACHED

PG 2

OPERATION

Pressure / Temperature

- Water pressure should be at a minimum of 50kPa water pressure.
- For best results turn on the cold water and regulate the flow to achieve the temperature required. Increasing the flow will result in lower water temperature, and reducing the flow will result in higher water temperature.
- Any adjustment of the water flow rate will alter the temperature.
- If a storage tank is used, the would need a minimum of 4meter water head pressure to ensure a comfortable shower.
- Do not activate this appliance if the water inside is frozen.

RATE OF FLOW TEMPERATURE CHART

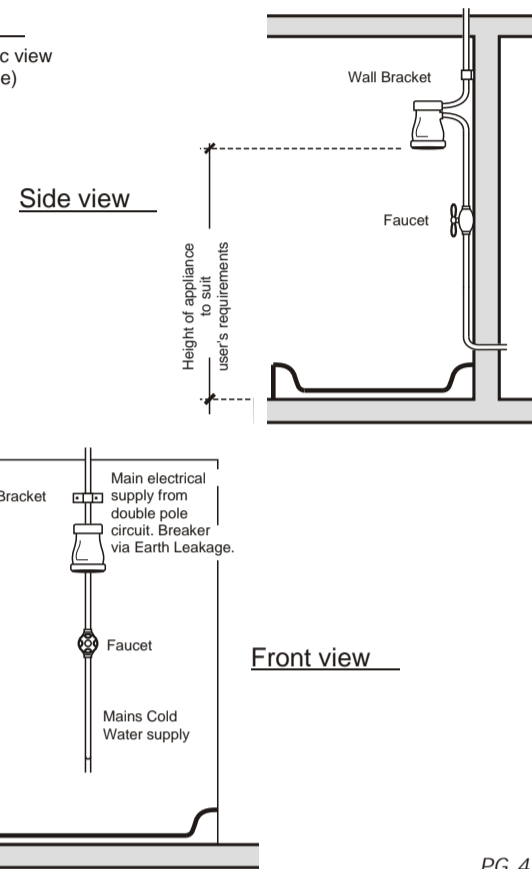
Cold Water Temperature @ $\pm 20C$ will increase to:

Unit @ 230V	5 L / min	3 L / min	1.6 L / min
5.0kW / 22Amp	$\pm 35C$	$\pm 43C$	$\pm 59C$
3.5kW / 15Amp	$\pm 31C$	$\pm 38C$	$\pm 49C$
3.0kW / 13Amp	$\pm 29C$	$\pm 36C$	$\pm 47C$

PG 3

Figure 1

Diagrammatic view (not to scale)



PG 4

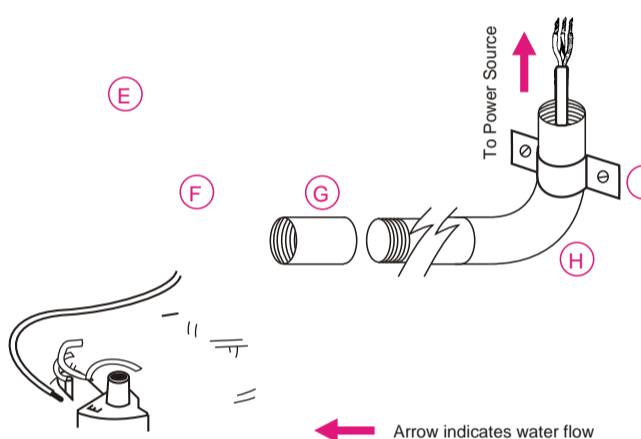


Figure 2
Diagrammatic view (not to scale)

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ELECTRICAL

Screw a section of suitably formed conduit with a coupling onto terminal cover. Loosen screw and detach terminal cover and pass the electrical cable through and then connect to terminals marked:

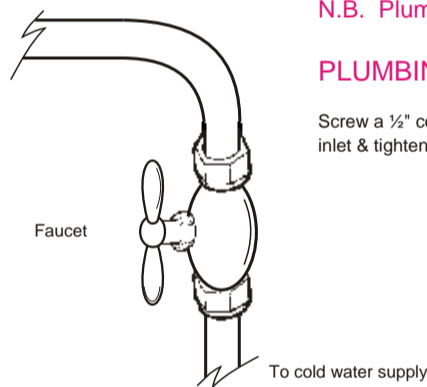
- E - Earth - green & yellow
- L - Live - brown
- N - Neutral - blue

Screw terminal cover back onto unit and secure conduit to wall using a wall bracket. ENSURE ALL ELECTRICAL PIPE JOINTS ARE WATER-TIGHT. Connect to a correct size circuit breaker / isolator. See amperage of unit.

N.B. Plumbing to precede wiring

PLUMBING

Screw a 1/2" coupler onto SPEEDHEAT water inlet & tighten the nut to coupler.



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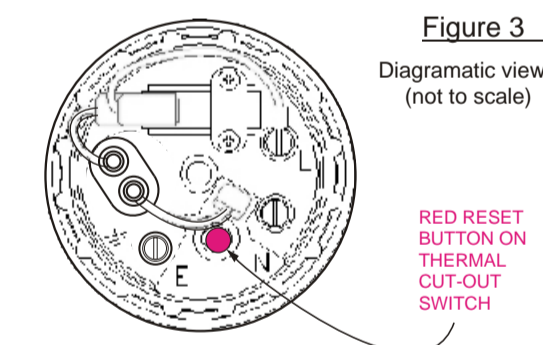


Figure 3
Diagrammatic view (not to scale)

RED RESET BUTTON ON THERMAL CUT-OUT SWITCH

THIS UNIT HAS AN AUTOMATIC RESET SAFETY THERMAL CUT-OUT SWITCH

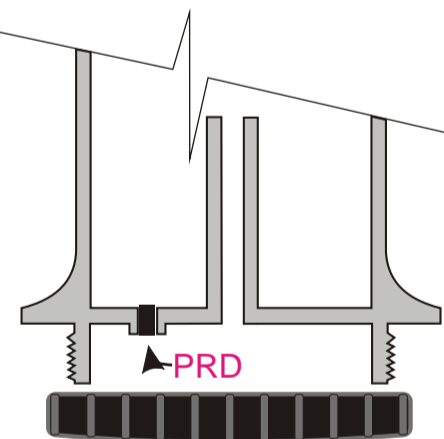
At a temperature of 80C, the Safety Thermal Cut-Out switch will activate and the water will go cold. The Thermal Cut-Out will reset itself after ± 10 seconds with the water flowing.

Should the unit still not heat, review the "Fault Finding Section" on page 9.

NOTE: No fittings / attachments to be fixed to the outlet that will interrupt or stop the water flow through the unit. This could damage the unit and negate the warranty.

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Figure 4
Diagrammatic view (not to scale)



Each unit is fitted with a 4mm diameter rubber pressure relief device (PRD). Should the outlet be restricted, the PRD will pop out and prevent the unit from heating and the increased water pressure on the rose could cause the rose to pop off.

(See "Fault Finding Section" on page 9.)

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QUICK, SIMPLE FAULT FINDING CHECKS

If the unit does not get hot, check the following:

ELECTRICAL

- Have you got power at the terminals?
- Is the circuit breaker on and is it correct for the load?
i.e. 5kW unit needs a 25 Amp Breaker.

WATER

- Open the faucet enough to hear the micro-switch switch on (click). Run the water for at least 15 seconds.
- If not switching on, check your water pressure is 50 kPa or higher.
- If water temperature still has not changed, remove the black shower rose and check that the PRD is in its housing (See figure 4). If missing, replace.

If all the above are checked and unit is still not heating, contact the manufacturer or your supplier / dealer.



MANUFACTURER:

Website: www.speedheat.net

For further information: E-Mail: plastigo@tafrica.com
or Tel: (+27-31) 705 3228, Fax: (+27-31) 705 3231

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WARRANTY

YOUR SPEEDHEAT UNIT carries a 12 month warranty against defective materials and workmanship, from the date of purchase by the user. Any unit that should fall within the warranty period, will be repaired or replaced if returned by prepaid postage to the manufacturer or to an appointed supplier / dealer. All defective units will be fully inspected to determine 'CAUSE OF FAILURE' for the warranty to be approved.

The guarantee is subject to the condition that any such defects have not been caused by, incorrect or faulty installation, inadequate water or power supply, misuse, neglect or careless handling of any kind, and is in substitution for any and all other guarantees.

THE 12 MONTH WARRANTY WILL BE HONOURED WHEN DETAILS ON REAR COVER ARE ENDORSED IN FULL

NOTE

The only obligation of the Manufacturer/Seller to the buyer, shall be replacement or repair of the unit by the Manufacturer of **SPEEDHEAT**. Neither the Manufacturer nor Seller shall be liable for loss, damage or lost profits arising out of any inability to use the unit. Before installing the user **SPEEDHEAT**, determine suitability of the unit for the intended use e.g. insufficient hot water flow makes filling a bath unsuitable.

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