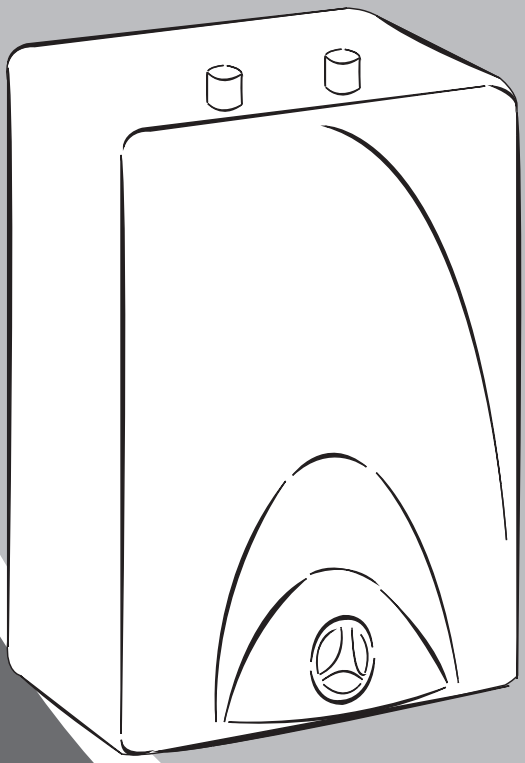


HYCO
Manufacturing Ltd

Speedflow
Undersink Unvented Water Heater
Models SF05K, SF10K and SF15K
Instruction Manual

Version 3.0 June 2010

HYCO SPEEDFLOW UNVENTED WATER HEATER MODELS SF05K (5 Litres) SF10K (10 Litres) AND SF15K (15 Litres)

1. INTRODUCTION

Thank you for purchasing a Hyco Speedflow unvented water heater. This product operates at mains water pressure and can supply hot water using ordinary taps.

CAUTION

THE SPEEDFLOW MUST BE INSTALLED AND MAINTAINED BY A COMPETENT PERSON IN ACCORDANCE WITH CURRENT ELECTRICAL AND PLUMBING REGULATIONS.

IT IS ESSENTIAL THAT THE ENCLOSED PRESSURE RELIEF VALVE IS FITTED

MAKE PLUMBING CONNECTIONS WITH FLEXIBLE STAINLESS STEEL HOSES TO FACILITATE FUTURE MAINTENANCE

ALWAYS FIT THE HEATER THE CORRECT WAY UP (PIPES SHOULD BE AT THE TOP)

USE LOWEST ACCEPTABLE TEMPERATURE SETTING TO SAVE ENERGY AND REDUCE LIMESCALE

DO NOT CONNECT TO POWER UNLESS UNIT IS FULL OF WATER – OPEN TAP AND ALLOW WATER TO FLOW FREELY TO CLEAR AIRLOCKS

DO NOT SWITCH POWER ON IF WATER IN HEATER OR PIPES COULD BE FROZEN

2. INSTALLATION (WALL MOUNTING)

The Speedflow is normally fitted immediately below the outlet to be supplied, but it can be mounted above or to the side of the outlet provided it is vertical with the pipe outlets at the top. The unit can either be placed directly on the floor or fixed to a wall using the mounting bracket supplied.

ENSURE THE MOUNTING SURFACE IS STRONG ENOUGH TO SUPPORT THE SPEEDFLOW INCLUDING THE WEIGHT OF THE WATER.

The 5 litre model (SF05K) can typically serve 1 sink, the 10 litre model (SF10K) can typically serve 1 or 2 sinks and the 15 litre model (SF15K) can typically serve 2 or 3 depending on simultaneous usage.

3. PLUMBING CONNECTIONS

A service valve should be fitted to allow / facilitate future maintenance.

THE SUPPLIED 6 BAR PRESSURE RELIEF VALVE MUST ALWAYS BE FITTED. THERE MUST BE NO OBSTRUCTIONS IN THE PIPEWORK BETWEEN THE HEATER AND THE RELIEF VALVE. THE RELIEF VALVE MUST DISCHARGE TO A SAFE AND VISIBLE PLACE.

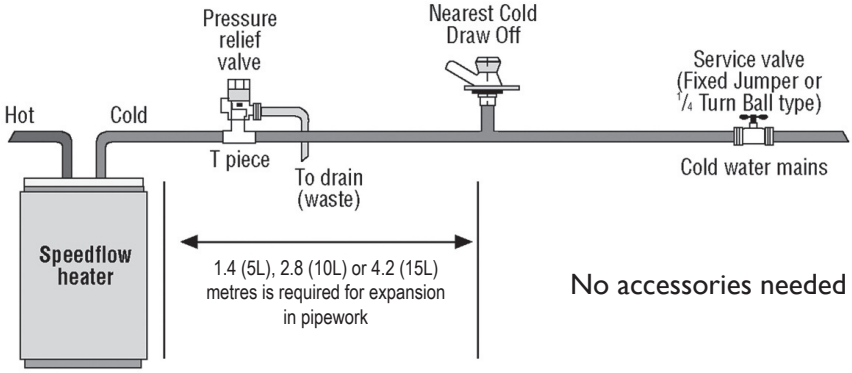
The hot and cold fittings are ½" BSP and are at the top of the unit. These connections are colour coded (blue = cold, red = hot). They are not interchangeable.

The final connection of the Speedflow to pipework should be implemented with flexible stainless steel hoses.

OPEN HOT WATER TAP AND ALLOW WATER TO RUN THROUGH FOR AT LEAST 5 SECONDS TO CLEAR AIRLOCKS.

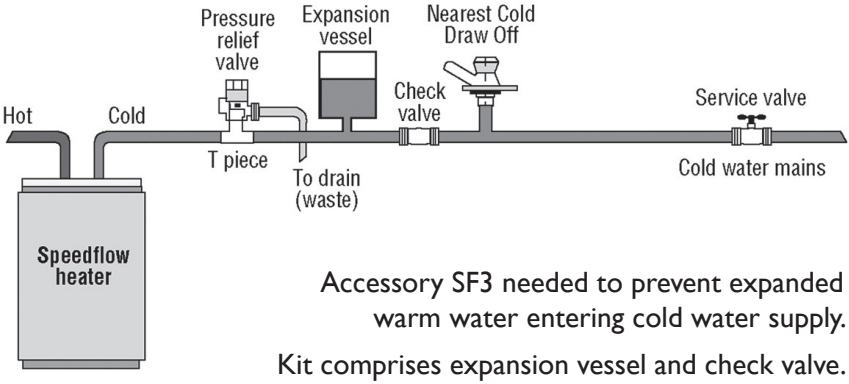
Depending on the installation circumstances, other accessories may be required. If required, these must be ordered separately and are installed as shown on the diagrams below and on the next page. Water pressure can increase considerably at night when demand is low, so a pressure reducing valve may be required even if there is no obvious problem at installation.

DIAGRAM A - Pressure below 4.2 bar



No accessories needed

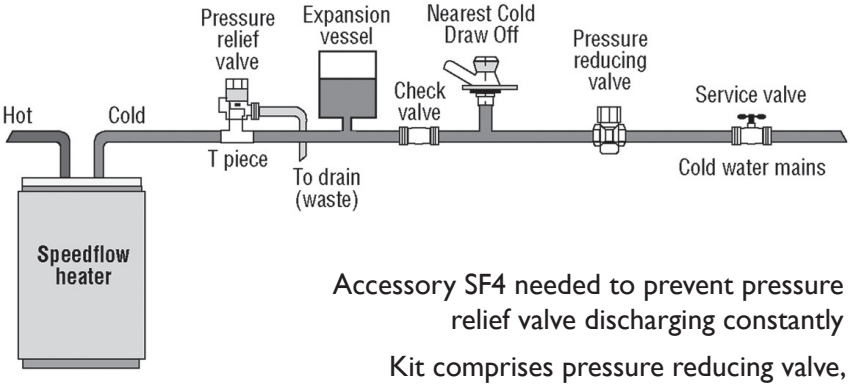
DIAGRAM B - Cold draw off nearby



Accessory SF3 needed to prevent expanded warm water entering cold water supply.

Kit comprises expansion vessel and check valve.

DIAGRAM C - Pressure above 4.2 bar



Accessory SF4 needed to prevent pressure relief valve discharging constantly

Kit comprises pressure reducing valve, expansion vessel and check valve

4. ELECTRICAL INSTALLATION

Installation must comply with the latest IEE regulations.

Connection should be to a fused switched 13A spur. If the cable length is insufficient, it is recommended that the entire cable is replaced and no joins made to the original.

This product must be earthed.

IMPORTANT: DO NOT SWITCH THE HEATER ON UNLESS YOU ARE CERTAIN THAT IT IS COMPLETELY FULL OF WATER. FAILURE TO DO SO WILL VOID THE WARRANTY.

5. OPERATION

Switch on the mains supply. The external neon lamp indicates when the element is heating.

USE THE LOWEST ACCEPTABLE TEMPERATURE SETTING TO SAVE ENERGY.

HOT WATER MAY PRESENT A SCALDING HAZARD, ESPECIALLY TO CHILDREN OR THE INFIRM. A THERMOSTATIC BLENDING VALVE IS RECOMMENDED IN HIGH RISK SITUATIONS.

6. THERMAL CUTOUT RESET, ELEMENT REPLACEMENT AND ANODE REPLACEMENT

DISCONNECT ELECTRICITY SUPPLY BEFORE MAINTENANCE.

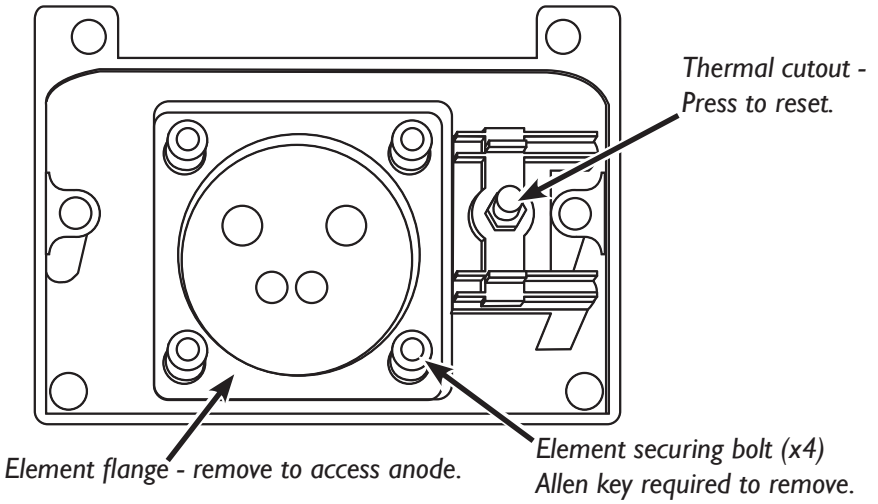
A re-settable safety thermal cut-out switches off the element in the event of the unit over-heating.

The thermal cut-out may trip occasionally in normal use. If this happens the heater will not heat water and the element light will not come on.

The thermal cut-out is located underneath the unit behind the grey access plate. Depending on the mounting position of the unit, you may need to uninstall the unit for ease of access to the cutout.

In these cases, disconnect electricity supply and unscrew flexible hose connectors. Drain water from heater and locate grey access plate.

Remove the cover retaining screws and gently prise cover off.
The thermal cut-out will be visible, as shown below.



6. THERMAL CUTOUT RESET, ELEMENT REPLACEMENT AND ANODE REPLACEMENT (continued)

To reset the cutout, depress the button in the centre of the device. If the device has tripped reduce the thermostat setting if possible.

If the device trips repeatedly with a low thermostat setting, contact Hyco Technical Department on 01977 517555.

To access the element or anode, unscrew the bolts holding the flange in position.

The element and anode can then be removed. Reverse to re-fit.

7. MAINTENANCE

A grey cylindrical magnesium sacrificial anode is fitted to the element to aid tank corrosion resistance. The anode condition should be inspected annually and replaced if the there are signs of significant corrosion.

The pressure relief valve should be checked annually by twisting the cap and verifying water is discharged.

8. TROUBLE SHOOTING

SYMPTOM	POSSIBLE CAUSE	SOLUTION
Water constantly flows from pressure relief valve	Water pressure is too high (above 4 bar).	Fit Pressure Reducing Valve Kit (Hyco Kit SF4).
Water flows from pressure relief valve during heating cycle only	Heated water cannot expand back up inlet pipe due to obstruction.	Fit Expansion Vessel Kit (Hyco kit SF3).
Water is not heated	1. Thermal cut-out has tripped. 2. Element has failed. 3. Thermostat has failed.	1. See section 6. Check heater is correct way up (pipes at top). 2. Replace element. See section 6 for access to element. 3. Replace thermostat.
Small volume of hot water	1. Unit upside down. 2. Thermostat set too low. 3. Thermostat fault.	1. Re-install correct way up. 2. Increase thermostat setting. 3. Replace thermostat.
Water appears to leak from heater	1. Poor connections to pipework. 2. Element gasket leak.	1. Check plumbing connections, especially those to inlet and outlet. 2. Refit gasket, tighten flange bolts evenly. Do not over tighten. See section 6 for access to element.

If problems persist contact Hyco Technical Dept on 01977 517555.

9. SPECIFICATIONS

Supply	230V ~ 50Hz
Power	2kW
Tank Capacity	SF05K – 5 Litres
	SF10K – 10 Litres
	SF15K – 15 Litres
Tank Material	Vitreous enamel lined steel
Dimensions (h x w x d)	SF05K 320 x 280 x 245 mm
	SF10K 410 x 310 x 280 mm
	SF15K 530 x 310 x 280 mm
Pressure relief valve setting	6 bar
Thermal cutout	Manual reset

10. GUARANTEE AND SERVICE POLICY

This product is guaranteed against fault materials and manufacture for a period of one year from the date of purchase. Hyco will in its sole discretion replace, repair or refund any faulty unit. Incorrect installation and the consequences of limescale deposits are excluded. Consequential costs such as labour charges or damage to fittings are expressly excluded.

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