



COPPERFORM
TOTAL HOT WATER SOLUTIONS



FLATBACK

ELECTRIC COMBINATION WATER HEATERS



installation & user instructions



COPPERFORM
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These fitting and User Instructions refer to the following models:
COPPERFORM 25/8 COPPERFORM 50/24 COPPERFORM 75/24 COPPERFORM 100/24

GENERAL

The COPPERFORM Flatback series is a range of white enamelled cistern fed rectangular water storage heaters. All COPPERFORM Flatback units can be connected directly to the cold water main and if required, can supply more than one outlet without the need for special taps.

THESE INSTRUCTIONS SHOULD BE CAREFULLY READ AND UNDERSTOOD BEFORE INSTALLATION BEGINS. IT WOULD BE DANGEROUS TO PROCEED IF ANY PART IS UNCLEAR OR IF THE REQUIREMENTS CANNOT BE FULLY MET.

PLEASE LEAVE THESE INSTRUCTIONS WITH THE USER AFTER INSTALLATION.

INSTALLATION

1. WALL MOUNTING (Refer to Diagram A)

The unit is designed to be wall mounted and must be fitted at least one metre above the highest draw-off point thus ensuring a good flow. It is important that sufficient clearance is allowed to ensure access to the ball valve assembly.

The wall fixing points will accept 8mm bolts which should not be less than 50mm in length.

ALWAYS ENSURE THAT THE WALL IS SUFFICIENTLY STRONG TO CARRY THE WEIGHT OF THE UNIT WHEN IT IS FULL OF WATER.

PIPEWORK CONNECTIONS (Refer to Diagram B)

The installation must conform to all local authority byelaws. The cold water supply and warning pipe(overflow) assembly can be connected to either side of the unit. The respective apertures are pre-formed in the outer case and these should be used as guides for cutting through the cold water tank. A 22mm hole is required for the inlet and a 27mm hole for the warning pipe.

An isolating valve must be fitted to the cold water mains supply to allow for servicing.

FITTING TO THE COLD WATER TANK (Refer to Diagram C)

The COPPERFORM Flatback series of water heaters are supplied with all the components that are required to comply with the WRC bylaw 30. The arrangement of these should conform to Diagram C.

The filter and breather assembly is a push snap-fit connection and should be fitted to the lid in the aperture provided.

The warning pipe assembly (overflow) has three components. The threaded elbow (tank connector) is inserted through the hole that has been cut, and tightened with the nut and sealing washer on the inside of the tank.

The 90° bend internal "dip tube" is pushed firmly into the connector facing downwards. The warning pipe (overflow) screen is located securely into the downwards external connection of the connector.

The ball valve assembly is fitted as required, adjusting the float to ensure that the water level in the tank does not exceed the water level line.

NOTE: after installation, replace lid and secure with the retaining screw supplied.

ELECTRICAL CONNECTION

The Installation should be carried out by a suitably qualified person in accordance with BS 7671 (IEE) wiring regulations.

A double pole isolation switch having a contact separation of greater than 3mm should be fitted to allow for servicing.

IMPORTANT: The unit **MUST** be full of water before switching on the electricity supply.

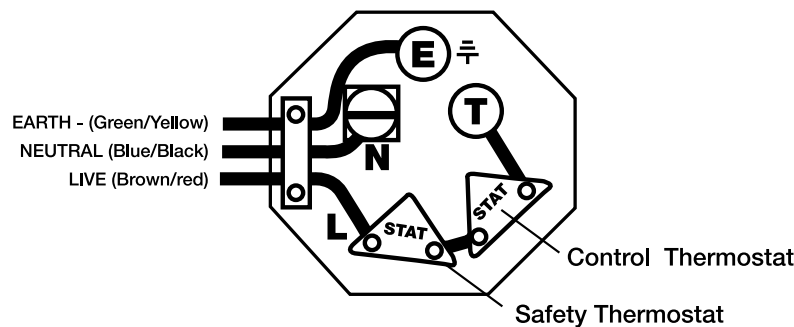
The COPPERFORM Flatback water heaters are all fitted with a 3kW heating element. The heating element is located at the base of the unit. The heating element incorporates dual thermostats that are linked to act as a control thermostat with an over-temperature safety cut-out. The thermostats are factory set to 50°C for the control thermostat and 70°C for the cut-out thermostat.

The control thermostat should **NOT** exceed 60°C and the 20C differential between the control and cut-out thermostat **MUST** be maintained.

The supply cable should be securely clamped before replacing the heating unit's own cover **AND** as it passes through the gland in the element housing cover.

If during normal service, the cut-out thermostat operates first establish the reason for operation. Possibly a wrongly set control thermostat. Switch off the electricity supply before removing the element housing cover. Correct the problem and then press the button to reset the cut-out thermostat. Replace the heating unit cover and the element housing cover before switching on the electricity supply.

SCHEMATIC WIRING DIAGRAM



OPERATION

The cold water supply to the integral cistern is controlled by the ball valve. when one or more hot taps are opened the hot water drawn from the unit is replaced from the contents of the cold water cistern that is refilled automatically.

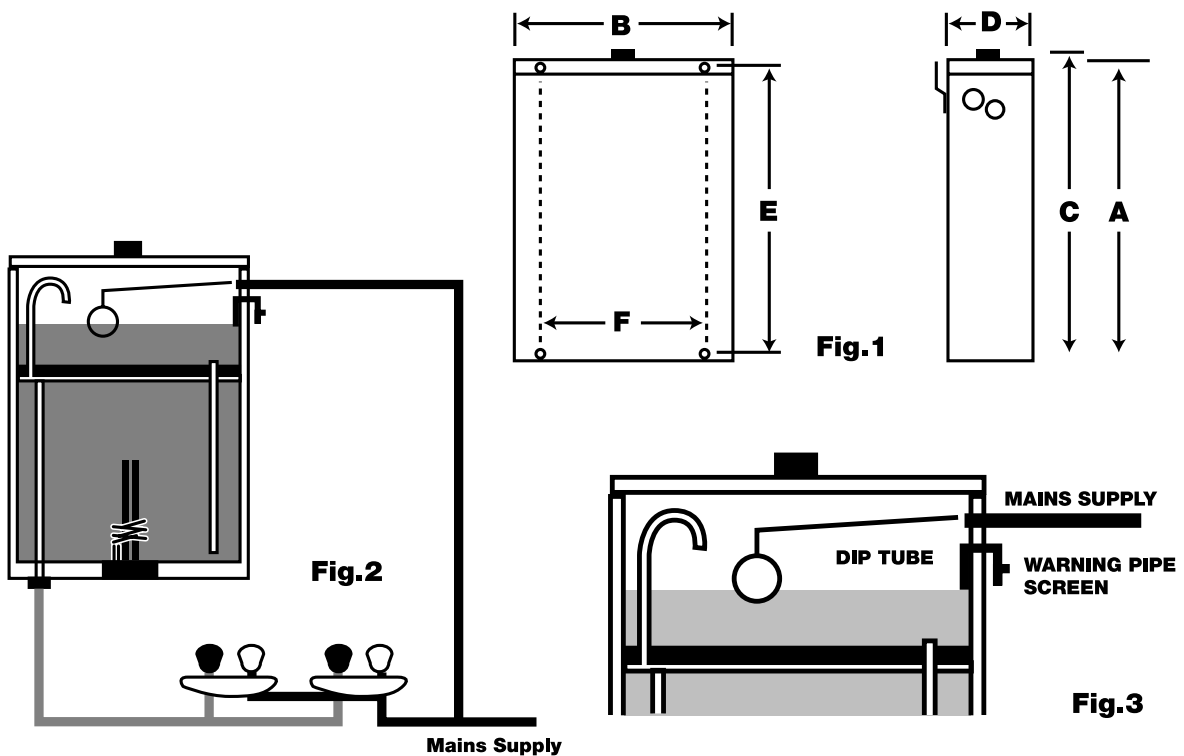
COMMISSIONING

Before making the electrical connection it is recommended that the unit is filled and checked for leaks. Apart from the plumbing connections, the element or drain may have been loosened in transit and require tightening,

SAFETY WARNING

The unit **MUST NOT** be used if it is suspected of being frozen. If water ceases to flow switch off electricity supply immediately at the isolating switch. If the unit is to be serviced or drained disconnect the electricity supply before commencing the operation.

PRODUCT REF:	CAPACITY		DIMENSIONS						WEIGHT (Kg)	
	HOT	COLD	A	B	C	D	E	F	EMPTY	FULL
RCM 25/8	25	8	705	470	735	210	670	320	21	54
RCM 50/24	50	24	750	600	780	320	715	450	31	108
RCM 75/24	75	24	925	600	950	320	890	450	38	135
RCM 100/24	100	24	1080	600	1110	320	1045	450	40	166



Goods are guaranteed for one year against faulty design, materials or workmanship having properly installed and operated in accordance with these instructions. The Company has the option to replace or repair an entire product or component. The Company shall not be liable for any consequential loss or damage howsoever caused. It shall be the duty of the customer to insure against such consequential loss or damage.

The guarantee does not extend to the consequences of limescale deposits, corrosion or frost damage which the manufacturer has no control and for which the user is advised to take appropriate precautions. This guarantee does not affect the statutory rights of the consumer.



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