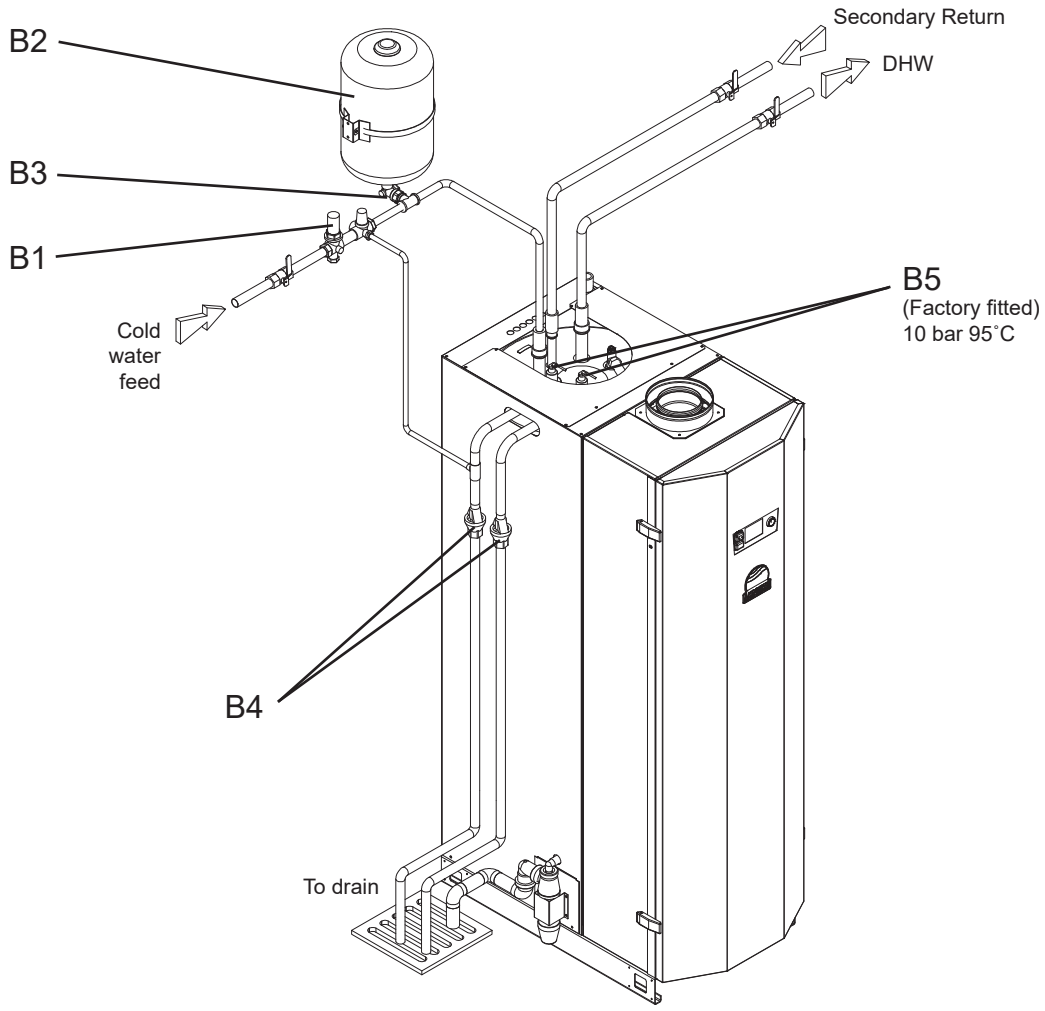
FITTING INSTRUCTIONS

7726954 - UNVENTED SYSTEM KIT

MAXXflo EVO Water Heaters

Installation Guide



6 Bar Unvented Kit c/w Through Flow Valve. Part No. 7726954 (Comprising B1-B3)

	Components	Andrews Part No.	Size
B1	One-piece Inlet Control (pressure reducing valve 6 bar, check valve, pressure relief valve 8 bar)	7727950	28mm comp
B2	Expansion Vessel (24 litre) c/w bracket	7727951	¾" BSP
B3	Through Flow Valve	7727953	¾" BSP
B4	Tundish (Supplied with the water heater)	5139811	1" - 1¼" BSP
B5	Temperature/Pressure Relief Valve 10 bar/95˚C (Factory fitted)	7727951	1" BSP

NB: Tees, elbow, stop valve and pipework not supplied

Please read and understand these instructions before commencing installation and leave this manual with the customer for future reference.

ANDREWS WATER HEATERS

This addendum is to be read in conjunction with the manufacturer's technical data and installation instructions.

Installation of unvented hot water systems must comply with Part G3 of the Building Regulations 2010.

Flush supply pipework to remove all flux and debris prior to fitting inlet controls.

Failure to do this may result in irreparable damage to the controls and will invalidate the warranty.

NB: Item B1 is not adjustable

B1 One-piece Inlet Control Valve

This combination incorporates: pressure reducing valve, single check valve, pressure relief valve and dedicated connection for an expansion vessel and balanced cold water connections.

The pressure reducing valve is set at 6 bar to control the operating pressure, and includes a wire gauze line strainer.

The check valve function prevents back-flow and ingress of hot water into the cold supply. In addition to the 28mm female threaded inline ports, the check valve housing incorporates a 22mm comp cold water take off and the 3/4" connection for an expansion vessel. The water pres sure at this point will be similar to that available at the hot water outlet of the heater. If higher flow rates are required for the cold water services, a suitable 'tee' fitting should be incorporated upstream of B1.

An expansion relief valve is set to discharge at 8 bar, with a 22mm comp outlet. Not only does this limit the maxi mum system pressure to 8 bar, it also helps to indicate a malfunction in the system (eg expansion vessel fault, or cross-flow).

The expansion relief valve should be fitted with the discharge directed downwards or horizontally; if fitted in an inverted position, debris may be deposited on the seat of the valve and prevent full closure.

The easing knob on the valve should be operated periodically to ensure the valve is able to function. There is a 1/4" gauge port to enable pressure gauge monitoring if required. If unused, the port should be sealed with the plugs supplied.

B2 Expansion Vessel (24 litre)

This vessel is designed to accommodate the expansion resulting from increased water temperature. The dry side of the diaphragm is factory charged to a pressure of 3.5 bar.

It is recommended that the dry side air pressure within the expansion vessel is set to equal the dynamic water pressure of the system. This may involve pumping up or reducing the air pressure within the expansion vessel via the Schraeder-valve in the top of the expansion vessel. This can be done by using a hand or foot pump and a tyre gauge during the commissioning stage of the water heater and system.

This pressure should be checked periodically, via the Schraeder-type valve on the top of the unit.

N.B: Water pressure must be relieved whilst checking and adjusting the pressure.

B3 Through Flow Valve

This is designed to divert a proportion of the water that is flowing through a system into the vessel to cause turbu lence and encourage an exchange of water within it.

B4 Tundish

To comply with the requirement G3 of the Building Regulations 2010 this must be installed within a distance of 500mm for the Temperature/Pressure relief valve.

B5 Combination Temperature/Pressure Relief Valve

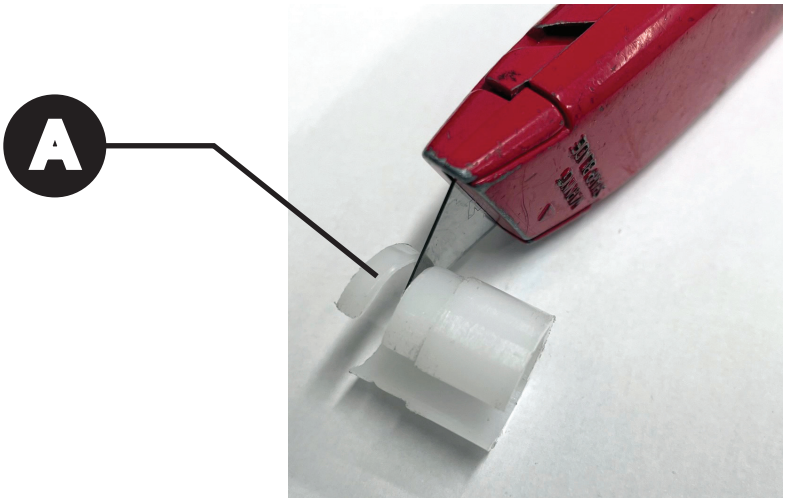
This opens at 95˚C and/or 10 bar. Its principle function is to prevent the water temperature from, at any time, exceeding 100˚C, in compliance with the Requirement G3 of the Building Regulations 2010.

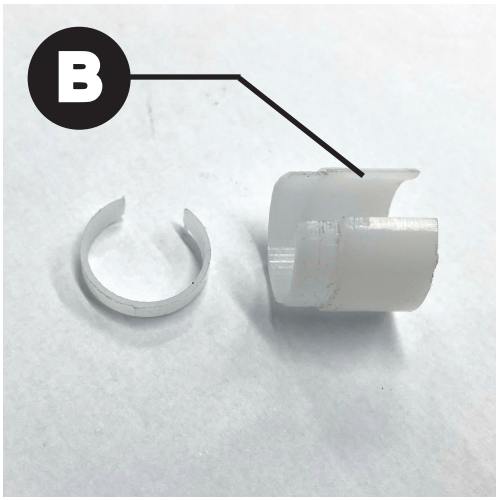
When fitting B1 care must be taken to ensure that flow arrows, marked on the components, are pointing in the direction of water flow: i.e. towards the heater.

Important: Before beginning the installation it is necessary to make some adjustments to two of the supplied parts to allow correct fitting of anti legionella valve to the expansion vessel. Follow steps 1 to 3 below.

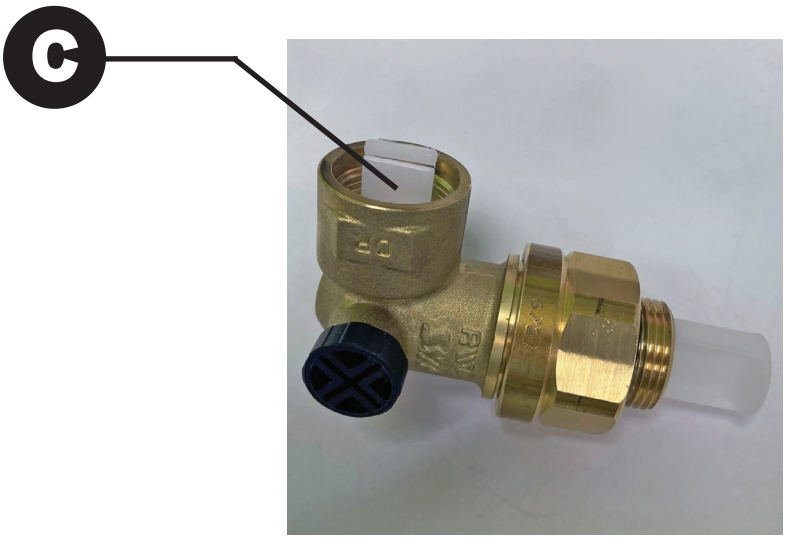
1. Remove the parts supplied in the box marked ‘Anti Legionella valve’.

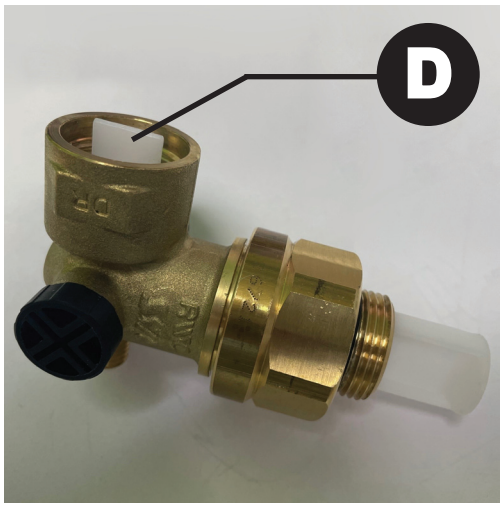
2. Take out the white plastic tube measuring 19.5mm in length. 3mm will need to be cut off the smaller diameter end of the tube (A). To aid with the cut the plastic tube has a indented ridge to guide the knife (see photo below). This cut will allow the tube (B) to fit inside the expansion vessel end as required in the Anti legionella instructions (supplied separately in box).





3. Take the anti legionella valve and identify the end with the female thread that screws onto the expansion vessel. Located here is a flat white plastic paddle (C) that will require cutting down by 3mm. The paddle already has a small crease at the desired break point and may break off without the need for a knife (D).





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M9363 RevE