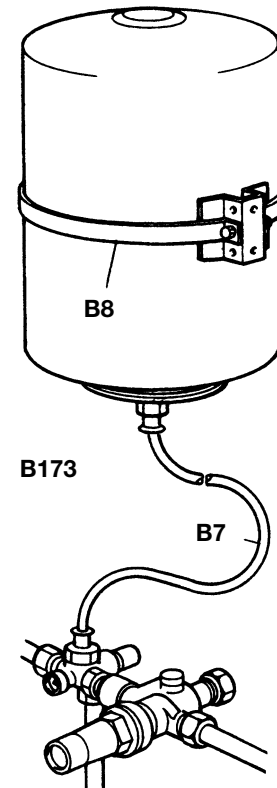
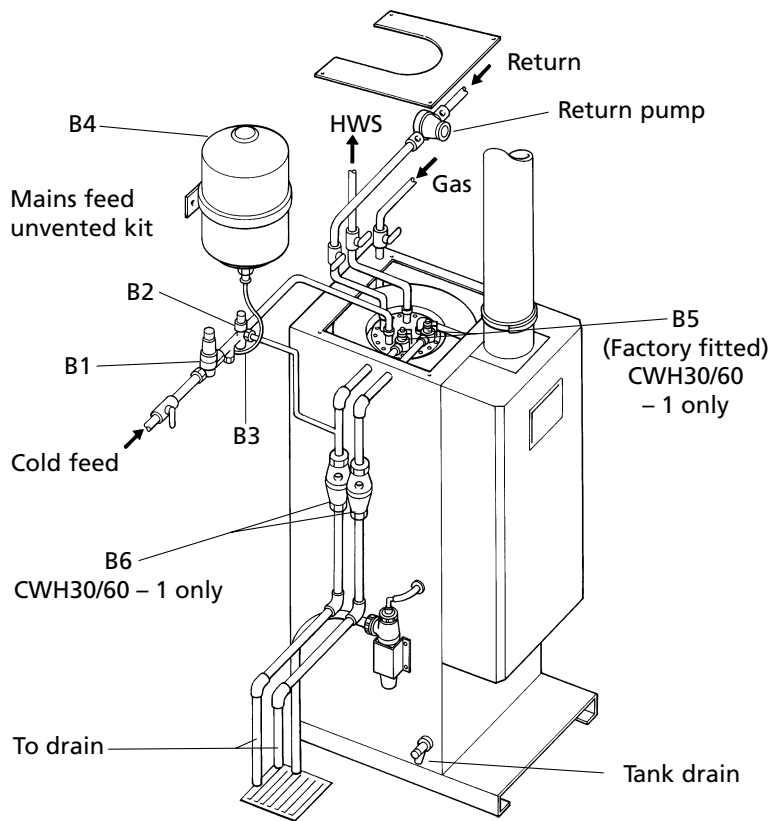


T/D 049

GAS FIRED STORAGE WATER HEATERS

Unvented Systems Kit Installation Details CWH30/60/90/120



COMPLETE UNVENTED SYSTEMS KIT PART No. B265-CWH90/120

Components	Andrews Pt No.	RWC Pt No.
B1 Combined Reducing Valve/Strainer	C784	PRED 300-127
B2 Check Valve	C785	CORE 225-002
B3 Expansion Valve	C786	PREL 102-027
B4 Expansion Vessel (25 Litre)	C782	XVES 603-041
B5 Temperature/Pressure Relief Valve	C380 x 2	PTEM 100-002
B6 Tundish from Expansion Valve and T/P Valve	C384 x 2	TUND 300-001

COMPLETE UNVENTED SYSTEMS KIT PART No. B264-CWH30/60

Components	Andrews Pt No.	RWC Pt No.
B1 Combined Reducing Valve/Strainer	C784	PRED 300-127
B2 Check Valve	C785	CORE 225-002
B3 Expansion Valve	C786	PREL 102-027
B4 Expansion Vessel (25 Litre)	C782	XVES 603-041
B5 Temperature/Pressure Relief Valve	C380	PTEM 100-002
B6 Tundish from Expansion Valve and T/P Valve	C384	TUND 300-001

EXPANSION VESSEL WALL MOUNTING KIT PART No. B173: OPTIONAL ANCILLARY COMPRISING B7-B8

B7 Hose Assembly	HOSE 202-106
B8 Wall Bracket Assembly	BRKT 240-024

NB. Tees, elbows, stop valve and pipework not supplied

These instructions are to be read in conjunction with the manufacturer's Technical Data and installation instructions.

Installations of unvented hot water systems must comply with Part G3 of the Building Regulations 1992.

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: Items B1, B2 and B3 are not user adjustable.

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.

The cold water supply pipework should be 28mm nominal size minimum.

B1 Combination Pressure Reducing Valve/Line Strainer – Set at 3.5bar, this controls the operating pressure and incorporates a wire gauze strainer. Care should be taken to ensure that the strainer is clear, particularly when commissioning and servicing. This component is supplied with one male union fitting.

B2 Combination Check Valve/Expansion Valve – The check valve function prevents back-flow and ingress of hot water into the cold supply.

In addition to the 1" female threaded "in line" ports, the check valve housing incorporates 2 x 3/4" ports and 1" x 1" port. One of the 3/4" ports accepts the Expansion Valve (B3), the other is for the connection of the Expansion Vessel. An optional Expansion Vessel - Wall Mounting Kit is available if required.

Cold water for services may be drawn from 1" port. The water pressure at this point will be similar to that available at the hot water outlet of the water heater.

If higher flow rates are required for the cold water services a suitable "tee" fitting should be incorporated upstream of B1.

Any unused ports should be sealed with the plugs supplied.

B3 Expansion Valve – The expansion valve is set to discharge at 6bar. This limits the maximum system pressure to 6bar, it also indicates a malfunction in the system: e.g. an expansion vessel fault or "crossflow".

The PTFE sealing ring, on the male thread, will ensure a good joint and enable correct orientation. A small amount of jointing compound may be used as a lubricant. This valve should be fitted with the discharge directed downwards or horizontally – if fitted inverted, debris may be deposited on the seat of the valve and prevent proper closure. The blue "easing knob" on the valve should be operated periodically to ensure that the valve is able to function.

B4 Expansion Vessel (25 Litre) – The vessel is designed to accommodate the expansion resulting from increased water temperature. The dry side of the diaphragm is charged to a pressure of 3.5bar. This pressure should be checked periodically, via the Schraeder-type valve on the top of the unit and if necessary, restored to 3.5bar.

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

B5 Combination Temperature/Pressure Relief Valve – This opens at 90°C and/or 7bar. Its principal function is to prevent the water temperature from, at any time, exceeding 100°C, in compliance with the Requirement G3 of the Building Regulations 1992.

B6 Tundish – To comply with the requirement G3 of the Building Regulations 1992 this must be installed within a distance of 500m from the Temperature/Pressure relief valve.

When assembling B1 and B2 care must be taken to ensure that the flow arrows, marked on the components, are pointing in the direction of flow: i.e. towards the heater.

When connecting B1 and B2 together the PTFE Sealing Ring will ensure a good joint and enable correct orientation. A small amount of jointing compound may be used as a lubricant.

The black plastic plugs in E1 and E2 are pressure gauge connections to enable pressure monitoring if required.

If further information is required please contact Andrews Water Heaters



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Since it is our policy to strive for progressive design and performance all our equipment is subject to