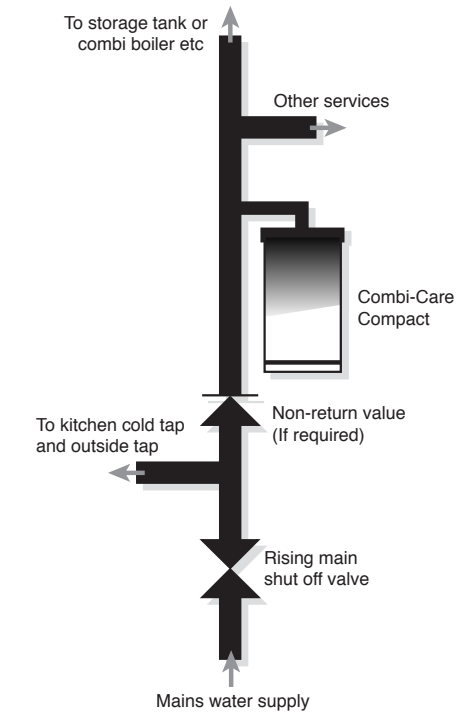


# Combi-Care Compact

SCALE INHIBITOR

## Location, Installation & Service Instructions 15mm and 22mm Models



PLEASE READ THOROUGHLY BEFORE INSTALLATION

### INTRODUCTION

The BWT Combi-Care Compact is designed to reduce the scale build up caused by hard water. It works by proportionally blending a minute amount of Aquablend Polyphosphate into the water. The Aquablend suspends the hardness salts, thus preventing them from forming scale, therefore storage tanks, cylinders, etc. can be confidently treated. There are two sizes: 15mm and 22mm. They can also be used with the same cartridges in soft water as a corrosion inhibitor.

**IMPORTANT:** To ensure safe, on-going scale protection, the cartridge must be replaced annually or sooner if the annual usage of water exceeds 120,000 litres.

Aquablend is a food grade product.

### LOCATION

Note: Installation of the Combi-Care Compact should comply with Local Water Authority regulations and bylaws. In some areas, a non-return valve may be required. The kitchen cold water tap and the outside tap should be left untreated.

The Combi-Care Compact can be simply installed into horizontal, vertical or any angle copper pipe. The cartridge must always be in the vertical position. Adaptors are available to join to other types of tubing. If in doubt, consult your supplier. The water flow must be in the direction of the arrow embossed on the body of the tee piece. A wall bracket back plate is built in, and should be used where pipework will not adequately support the unit. Further technical installation sheets are available on request.

### OPERATING PARAMETERS

Maximum Working Pressure	5 Bar
Maximum Inlet Water Temperature	30°C
Maximum Ambient Temperature	35°C
Maximum Flow Rates (15mm unit)	30 ltrs/min
Maximum Flow Rates (22mm unit)	54 ltrs/min
Average Amount of Treated Water per 12 Month Cartridge	120,000 ltrs
Maximum Treated Water Temperature	95°C

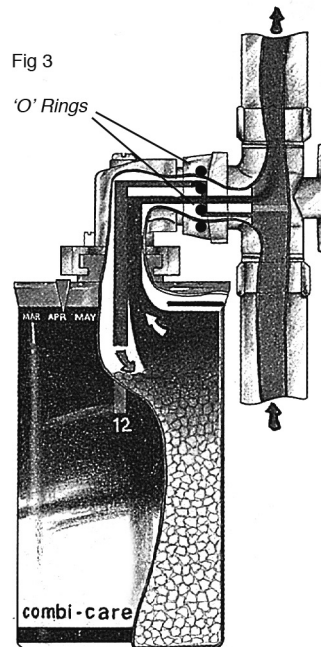
### PROCEDURE

Choose the location of the unit, turn off the water and drain down. Cut out the section of pipe, ensuring that swarf or debris do not enter.

Insert the tee piece and tighten the compression nuts. Ensure that the two "O" Rings (fig. 3) are in position. Tighten the locking nut, ensuring that the cartridge remains in the vertical position.

If the pipework is not already adequately supported with appropriate brackets, screw the supplied back plate to a supporting surface.

**Very important:** It is essential that any foreign matter such as swarf, wire wool, flux or debris is flushed clear of the system prior to connecting the control head and cartridge. A 20mm BSP brass cap (available at good hardware and plumbing retailers) can be tightened onto the 20mm centre thread of the tee piece, to assist in flushing the system.



### CHECKLIST FOR SAFE INSTALLATION AND OPERATION

- 1 Read this information carefully and follow all the instructions. Personal injury or property damage could result if you fail to install or operate the Combi-Care Compact properly.
- 2 Check all local plumbing codes and comply with their rules.
- 3 Protect the Combi-Care Compact from freezing temperatures. Water freezing in the unit will damage or break it.
- 4 Install the Combi-Care Compact on a cold water pipe only.
- 5 Be sure all packaging is removed from the cartridge.
- 6 Check inlet and outlet are correctly piped in the direction of arrows.
- 7 Dial the month change indicator and complete the cartridge reminder form.

**Note:** New system installations are particularly prone to foreign matter.

After flushing, reconnect the controller head and cartridge. Ensure that the cartridge is fully held in the bayonet holder and that the cartridge locking pin is screwed down. Turn on the water and test for any leaks. Set the cartridge change indicator ring to the appropriate month.

### IMPORTANT.

- 1) The Combi-Care unit **MUST NOT** be installed where the ambient temperature can exceed 35° centigrade or where there is a possibility of **HOT WATER** transfer back through the system and into the unit.
- 2) **CAUTION** should be exercised where there is a possibility of secondary water expansion from the heating boiler back through the system into the unit. In such circumstances, you are advised to fit a single check/non return valve between the unit and the boiler.
- 3) **Please do not** over tighten fittings or use a pipe wrench on body. Unit must be installed at least 1 metre from the boiler and adequately supported on both sides of the installation and correctly aligned to avoid stress to the unit or joint. Protect from freezing.

COMBI-CARE COMPACT CARTRIDGE REPLACEMENT REMINDER

would like to receive a reminder on a yearly basis.

Name: .....

Address: .....

Postcode: .....

Tel No: .....

Date Installed: .....

CUT OUT AND RETURN COMPLETED  
SLIP IF YOU WOULD LIKE AN  
ANNUAL REMINDER

### WHEN TO CHANGE THE CARTRIDGE

Average cartridge life expectancy is one year for a four person family. There are many factors which affect actual usage of the active ingredient. Therefore, a 12 monthly cartridge change is essential to ensure on-going scale protection.





# Combi-Care Compact 15mm & 22mm

## WHEN TO CHANGE THE CARTRIDGE

Average cartridge life expectancy is one year for a four person family. There are many factors which affect actual usage of the active ingredient, and visual inspection is not practicable. Therefore, a 12 monthly cartridge change is essential to ensure optimum operation.

A cartridge change indicator ring is supplied with the unit, and it should be set to the same month in which the unit is installed. Aqua-Dial also offer a free annual reminder system, please complete and return the attached form.



Fig 4

## CHANGING THE CARTRIDGE

- 1 Turn off the water and drain the pipe down.
- 2 Place a bowl under the unit to prevent any water spillage.
- 3 With a flat headed screw driver, release the pressure relief screw on top of the control head.
- 4 Unscrew the cartridge locking screw.
- 5 Turn the cartridge a quarter turn to the left and gently pull it downwards, releasing it from the double 'O' Ring seals.
- 6 Remove the indicator ring.
- 7 Remove the red protection cap from the new cartridge and place it over the top of the old cartridge, thus preventing any water spillage. The old cartridge can be recycled at any aluminium recycling point.
- 8 Place the indicator ring over the new cartridge and dial it to the month of installation.
- 9 Insert the new cartridge into the bayonet fitting and turn it a quarter turn to the right.
- 10 Retighten the locking screw (4).
- 11 Retighten pressure relief screw (3).
- 12 Turn on water and test for any leaks.
- 13 Complete the cartridge reminder slip and return to BWT.

## INSPECTING THE VENTURI INJECTOR

Under normal conditions, it should not be necessary to inspect the Venturi as it is replaced automatically each year. However, if it is suspected that the venturi has become blocked, remove the cartridge as previously described. Pass a thin wire or pin (max diameter 0.5mm) into the Venturi and clear any obstruction.

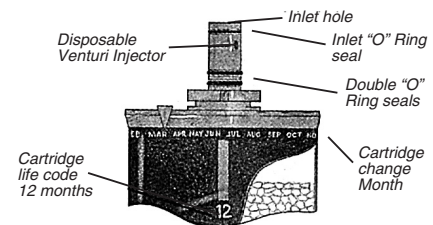


Fig 5

## SOFT WATER AREAS

The Combi-Care Compact can be used to reduce rust and corrosion problems in the areas of naturally soft water. The Aquablend makes a coating on the inside surfaces of pipes, plumbing fixtures, water heaters and other water using appliances. This coating keeps slightly acid or corrosive water away from these surfaces to help stop or reduce rusting, staining or scaling.

Do not use on recirculating systems.

## GUARANTEE

The BWT Combi-Care Compact is fully guaranteed against any manufacturing fault or workmanship for a period of 12 months from date of purchase.

We also manufacture a full range of Water Softeners, Scale Reducers and Drinking Water Systems. Please ask for descriptive literature.

As part of our continuous policy of improvement, Aqua-Dial reserves the right to alter specifications without prior notice.



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