

Combiclean

High Capacity Boiler Protection
for Part L Compliance

Combifilt

Efficient Water Filtration & Protection

Effective June 2018



**Location, Installation, Service Instructions and
Guarantee for 15 & 22mm models**

Please read through thoroughly before installation

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INTRODUCTION

The Combiclean system is designed to provide 'point of use' scale and corrosion protection caused by hard water. It works by proportionally blending a minute amount of food grade Polyphosphate (P205) into the water. The Polyphosphate suspends the hardness minerals and calcium, thus preventing scale formation and corrosion for any hot water system, boiler or appliance. The Combifilt provides efficient filtration against suspended dirt particles in water pipes that cause damage to water using appliances. There are two sizes: 15mm and 22mm.

IMPORTANT

To ensure safe, on-going scale protection, the Combiclean cartridge must be replaced annually or sooner if the audible alarm is activated within the Combiclean system. The Combifilt cartridge is to be replaced upon exhaustion with a maximum 2 year life in the field.

LOCATION

Note: Installation of the unit should comply with Local Water Authority regulations and bye-laws. The unit using its 360 degree turntable connection can be simply installed into horizontal, vertical or any angle copper pipe. The cartridge must always be in the vertical position. Compression adaptors are supplied with the unit as per the model size. The water flow must be in the direction of the arrow embossed on the body of the tee piece.

OPERATING PARAMETERS

Connection	15mm or 22mm compression
Operating Pressure	1.5 to 5 bar
Flow Rates	15mm - 43 lpm, 22mm - 50 lpm
Dimensions (mm) inc connections	170H x 103W x 116D
Water Temperature	Cold water use only
Weight inc cartridge	0.25 kg (approx.)
Audible alarm warning	Combiclean only
Dosing	Max 5ppm or 5mg/litre

PROCEDURE

Choose the location of the unit, ensuring the unit is not within 1m prior to the connection to a heat source. Turn off the water and drain down. Cut out the section of pipe, ensuring that swarf or debris do not enter. Insert the unit and tighten the compression nuts. Ensure that the cartridge remains in the vertical position. If the pipework is not already adequately supported, ensure necessary pipe clips are installed.

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 using the unit. Remove internal cartridge and flush system for 5 minutes before re-inserting original cartridge.

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 Combiclean properly.
- 2 Be sure all packaging is removed from the cartridge.
- 3 Protect the unit from freezing temperatures. Water freezing in the unit will damage or break it.
- 4 Cut out the section of pipe, ensuring that swarf or debris do not enter the pipe work.
- 5 Install the unit on a cold water pipe only.
- 6 Check all local plumbing codes and comply with their rules.
- 7 Check inlet and outlet are correctly piped in the direction of arrows.
- 8 Turn on the water and test for any leaks.
- 9 Complete the guarantee registration form.

IMPORTANT

- 1 The 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 Do not over tighten fittings or use a pipe wrench on body. Unit must be correctly aligned to avoid stress to the unit or joint.
- 4 Do not use PTFE to seal inlet/outlet fittings provided, into unit. Use the fibre washers provided PLUS sealant i.e. LOCTITE SI5331

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.

Combiclean's revolutionary and unique acoustic alarm automatically notifies the home owner when the cartridge is nearly empty and needs replacing. This way you can be assured that you will remain protected from the threats of scale and corrosion, giving you peace of mind 24/7.

ISOLATING THE AUDIBLE ALARM

Turn the orange bypass from OPEN to BYPASS position. (fig 1)



Fig 1

CHANGING THE CARTRIDGE

- 1 Turn the orange bypass from OPEN to BYPASS position. (fig 1)
- 2 Place a bowl under the unit to prevent any water spillage.
- 3 Turn knurled nut at the bottom of the bowl gently anti-clockwise to relieve pressure in the bowl. (fig 2)
- 4 Unscrew the clear cartridge holder in an anti-clockwise direction, releasing it from the 'O' Ring seals of unit head. (fig 3 & 4)
- 5 Remove the spent cartridge, replacing with new one. (fig 5)
- 6 Retighten the clear cartridge holder, complete with new cartridge. (fig 6)
- 7 Tighten knurled nut to seal. (fig 7)
- 8 Turn the orange bypass to OPEN and test for any leaks. (fig 8)



Fig 1



Fig 2



Fig 3



Fig 4



Fig 5



Fig 6



Fig 7



Fig 8

INSPECTING THE COMBICLEAN

Apart from the annual cartridge replacement, or sooner if audible alarm sounds, Combiclean requires no other maintenance. Its built-in and easy to use bypass system allows you to replace the compact refill cartridge without interrupting the household's water supply. The simple cartridge change takes less than 5 minutes.

SOFT WATER AREAS

The Combiclean can be used to reduce rust and corrosion problems in the areas of naturally soft water. The Polyphosphate blend 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 corrosion.

Do not use on recirculating systems.

GUARANTEE

The Combiclean/Combifilt main body is guaranteed against any manufacturing fault or workmanship for a period of 7 years from date of purchase. Cartridge life is governed by many factors and therefore cannot be guaranteed against capacity, only manufacturing defect.

We also manufacture a full range of water softeners, scale reducers & water filters/purifiers. Please ask for our literature. As part of our continuous policy of improvement, Monarch Water reserves the right to alter specifications without prior notice.

DOMESTIC, COMMERCIAL & FOOD SERVICE APPLICATIONS

The water produced via both units is 100% safe to drink and can be used in domestic, commercial and food service applications as below, as well as protecting basic items such as kettles etc.

- Combination boilers
- Instant hot water taps
- Ice makers
- Hot water boilers
- Drinks stations
- Point of use
- Pressurised/unvented systems
- Coffee machines
- Tea urns
- Vending machines



Installation Record & Guarantee Card

Register now to activate your guarantee.

Please complete the below and return to the address overleaf, no stamp required or fill in your details in on at <http://monarchwater.co.uk/product-installation-guarantee-registration>

Installation Date:

Model: Combiclean - Combifilt
(Please delete as appropriate)

Owner Details

Owner's Name:

Installer's Name:

Address:

Company Name:

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Address:

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Post Code: Tel:

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Email:

Post Code: Tel:

Email:

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