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# plation®

Installation Guide

## Plation PIF In-line Filters and Purification Floats



## How to install Plation In-line Filters

The installation of Plation In-line filters is relatively simple and straightforward for a competent individual with the relevant DIY skills, but we would always advise you consult a qualified plumber.

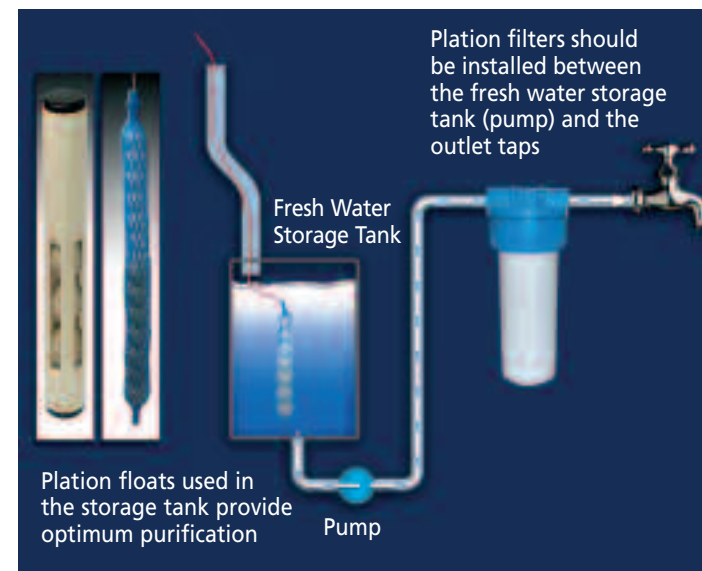
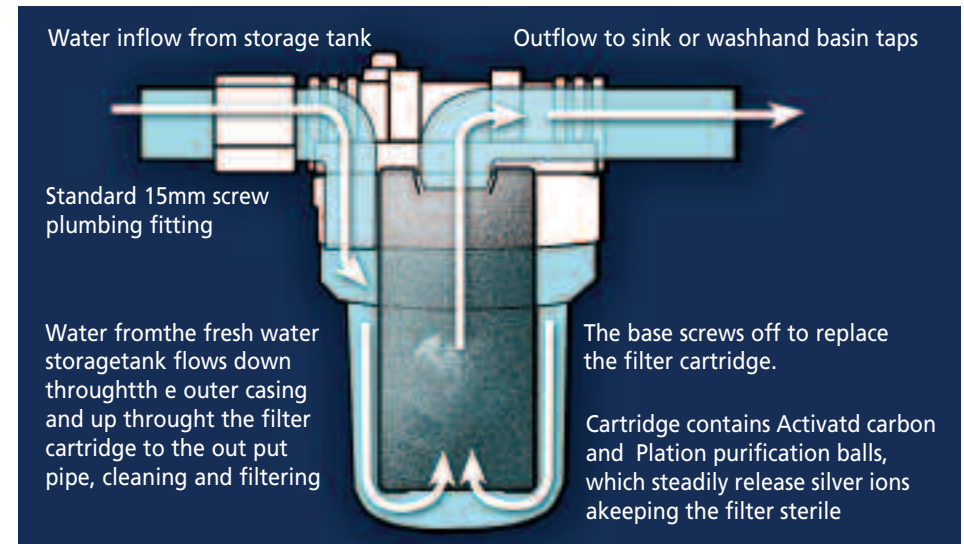
This booklet is intended as a guide only and includes some diagrams and installation guides, but it does not attempt to deal with specific installation requirements. We would therefore suggest you draw up a system diagram before deciding on how and where to install Plation filters so as to take full advantage of the Plation in-line filter capabilities.

If you are unsure please seek the advice of a professional or contact us by email: [info@clean-fresh-water.co.uk](mailto:info@clean-fresh-water.co.uk).

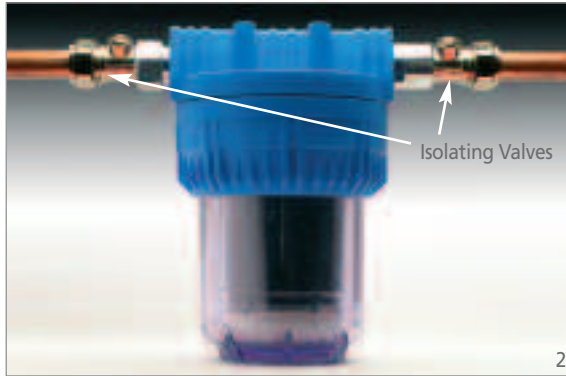
### How Plation Filters and Floats work

Plation In-line filters are designed to extract fine particles and bacteria from water supplies, both from storage tanks and mains water, at the point of use. They provide, in combination with Plation floats, used in a freshwater storage tank, the optimum Plation purification and protection against water contamination and pollution.

The activated carbon filter absorbs chlorine, pesticides and other organic pollutants, improving taste by eliminating odours and discolouration. Plation purification balls, within the filter, release silver ions eliminating bacterial growth and thereby keeping the filter cartridge sterile and making sure it continues to provide safe, clean and fresh drinking water longer\*



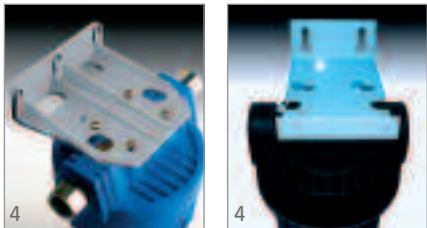
Plation filters should be installed in a suitable site between the storage tank, pump and the outlet taps, as shown here. The filter requires no power supply and works under pressure of the system (up to 6 bar), which will often be created by a pump in the case of fresh water storage systems used on boats, barges and caravans.



The unit shown here is a Plation PIF-4 In-line Filter, which filters up to 10.000 litres at a rate of 4 litres a minute. Check that you have the correct size of filter with sufficient capacity to meet the quantity of water being used.

The Plation PIF-4, PIF-6 and PIF-8 use the same wall bracket, Part N° WBR-S1 (Fig 4). If you are installing a PIF-10 or PIF-15, the installation principles are the same but the upper casing is different and you will need a metal bracket, PartN° WBR-S2, as shown below Fig 5.

Close off the water supply and turn of the pump before installing the PIF Filter. We advise all customers to drain down the entire system and chemically disinfect before installation. Follow the instructions given by the supplier of the particular disinfection product you normally use.



Left: Plastic wall bracket for Plation In-line Filters PIF-4, PIF-6 and PIF-8. Part N° WB468

Right: Metal bracket part N° WB1015 is made specifically for the PIF-10 and 15

Fig.1 The filtration unit is supplied complete with a filtration cartridge already installed as shown. The units use standard BSP female screw plumbing connections on both the inlet and outlet pipes.

Not included are the pipes or connections as shown on Fig. 2. You will need two shut-off valves for the inlet and outlet sides of the filter and suitable pipe connectors such as compression fittings used here. The valves are needed to shut off the water flow when changing the filter. The inlet and outlet are marked on the top of the filter (Fig.6), where you will also see an air release valve. This valve allows air, in the filter, to escape and avoid air locks when first commissioning the filter and when replacing the cartridge.



1. First mount the wall bracket in place in a suitable and accessible position. Allow sufficient space below for the casing to be unscrewed and lowered to permit the replacement, when necessary, of a new filter cartridge.

The bracket shown here (Fig. 6) is suitable for the PIF-4, 6 and 8 Plation Filters, part number WB468. If you are installing a PIF 10 or 15 Filter you will need a metal bracket, part number WB1015. (Fig 4 & 5)

2. Fix the filter in position with four self-tapping screws (Fig. 3), making sure that the direction of the filter body is correctly positioned for the inlet (from the water supply) and outlet pipes (to the taps).

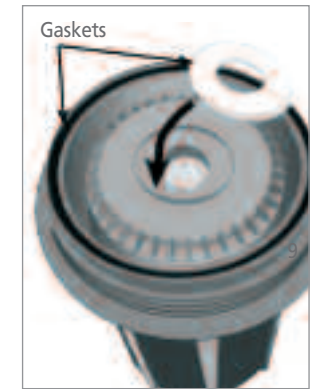
3. Screw the shut-off valves into the inlet and outlet sides of the filter, using appropriate washers for the particular valve and connect the valves to the pipe using appropriate connectors (Fig. 7) such as the 15mm compression fitting used here.

4. Make sure all connections are water tight and restore the water supply and, if your system has one, turn on the pump.

6. To commission the filter, open the inlet and outlet valves and unscrew the air valve, sited at the top of the filter casing Fig 6. This allows air out of the cartridge and permits the water to flow freely through the activated carbon and silver disinfection medium. Open the tap to allow water to flow freely through the system. There may be some black carbon in the water to begin with, but this will quickly clear. When you see water coming out of the air release valve close it off tightly.

#### 7. Cartridge Replacement

To replace the cartridge first close off the inlet and outlet valves and open the air release valve. Unscrew the filter housing from the filter using a suitable key as shown above in Fig 8. For the PIF-4, 6 or 8 filters you will need a small key, part number INK-S. For a PIF-10 or 15 you will need a large key, part number INK-L. Replace the old cartridge, making sure all necessary washers and gaskets are properly positioned and undamaged. (Fig 9) Ensure that the filter is placed in the upright position as



indicate by the arrow, which marks the flow direction.

Screw the Blue holding ring back onto the upper part of the filter body and tighten using the Key (shown above Fig.8). Open the inlet valve and restart the pump. Slowly open the outlet valve and open the air release valve to allow air out of the filter. Turn on the tap to allow the flow of water for minute or two. There may be some black carbon powder in the water at first but this will quickly clear.

While some boats may only have one fresh water tank others may have several, depending on the type and size of the boat and number of berths.

Before installing Plation it is important to know the layout of your fresh, potable water system. To make the most of your plation filter we suggest, if you do not already have such a layout, that you draw one up. You should also calculate the size of the tanks and the amount of water used.

The plan shown here is by no means typical but is intended to give you an idea of the possible layout your boat uses and the outlets supplied.

Each fresh, potable water tank should be equipped with either a PNS (1) or PM (2) purification float. Doing so will keep your tank free of bacterial growth for up to 2 years. In combination with the Plation filters, Plation Floats provide optimum purification.

The PNS float is designed to be fed into the tank via the filler cap and piping, whereas the PM float can be placed in the water tank via a wider access hatch as shown far right (1 & 2).

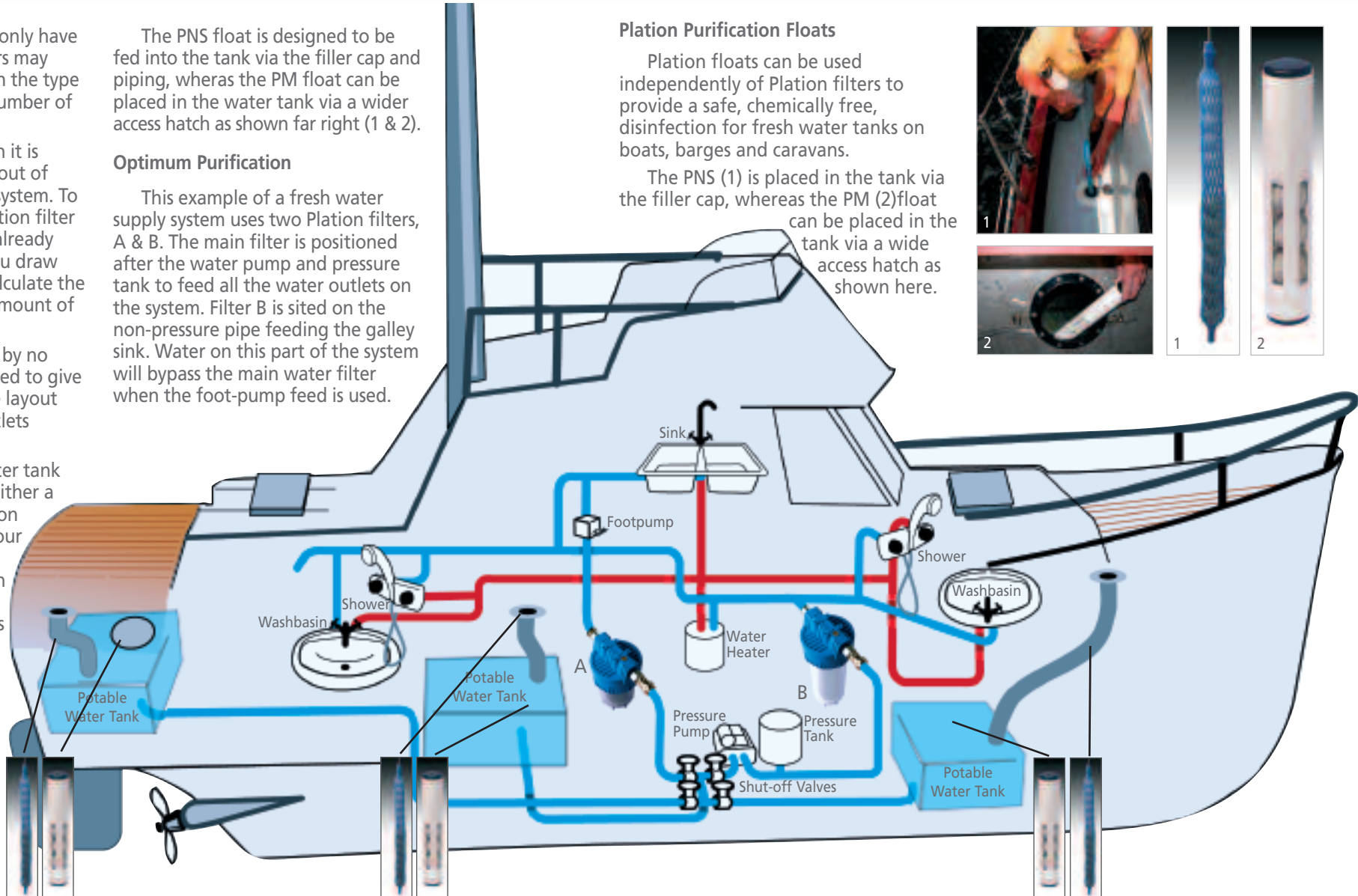
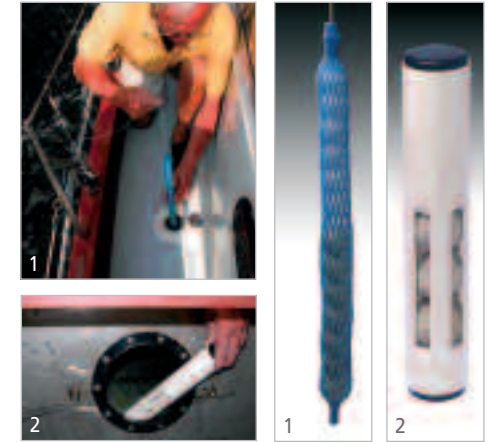
**Optimum Purification**

This example of a fresh water supply system uses two Plation filters, A & B. The main filter is positioned after the water pump and pressure tank to feed all the water outlets on the system. Filter B is sited on the non-pressure pipe feeding the galley sink. Water on this part of the system will bypass the main water filter when the foot-pump feed is used.

**Plation Purification Floats**

Plation floats can be used independently of Plation filters to provide a safe, chemically free, disinfection for fresh water tanks on boats, barges and caravans.

The PNS (1) is placed in the tank via the filler cap, whereas the PM (2) float can be placed in the tank via a wide access hatch as shown here.

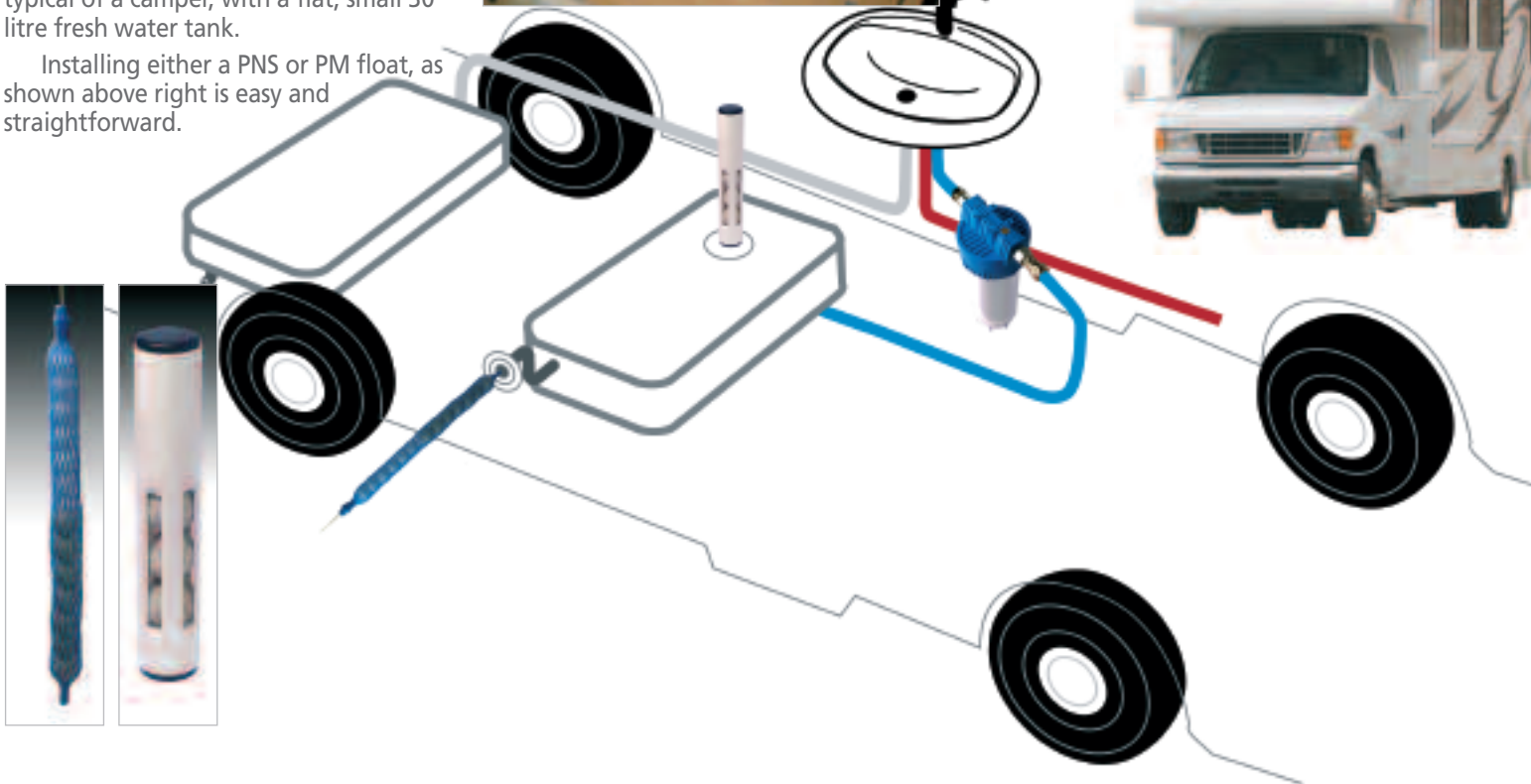


Fresh water tanks in motor-homes and caravans vary in size and type from permanent installed tanks (Right) and separate, portable tanks, shown far right.

These often may only provide water for washing and cleaning, but the introduction of Plation, Floats and Filters, could mean the end of bottled water as the only safe way to store and provide fresh, clean drinking water.

Compared with boats, caravans and campers are more likely to have a simpler pipe layout such as shown below. This is typical of a camper, with a flat, small 30 litre fresh water tank.

Installing either a PNS or PM float, as shown above right is easy and straightforward.



A PNS float in a small external tank, as shown above, will keep any water remaining in the tank fresh and clean for up to 2 years.

You will not have to empty the tank but just refill it as and when required. In fact an empty damp tank is likely to provide the best conditions for bacterial growth, so leaving the PNS float and water in the tank will help keep the tank free of bacteria.