



INSTALLATION & OPERATING INSTRUCTIONS

Flostream

Drinking and Food Application Water Filter Systems

www.waveinternational.co.uk

Contents Flostream Installation and Cartridge Replacement Instructions

Section	Page
1. Introduction	2
1.1 Important	2
1.2 What it does	2
1.3 Before you begin	3
2. Tools and Fasteners	3
3. Basic Components	3
4. Flostream Filter System Specifications	4
5. Fitting Flostream (flexi hose installation)	5
6. Cartridge Replacement	5
7. Functional Checks	5
7.1 Installation check	5
7.2 Operational / Maintenance check	5
8. Approvals	6

Section 1. Introduction

1.1 Important

It is important to us that this product works as advertised and that you enjoy the extra peace of mind that Flostream offers. If you have any queries that cannot be answered by your supplier or engineer, please contact us direct on +44 (0) 1476 861717 or e-mail info@waveinternational.co.uk

1.2 What it does

- The Flostream drinking water filter systems produce premium quality, healthy water at point of use, in cabins and galleys, for all food service applications.
- Importantly Flostream eliminates the need for disposable water bottles onboard.
 - Removes Chlorine, improving taste and odour.
 - Cyst reduction, removes contaminants that cause health issues.
 - Lime-scale and KDF inhibition (Flostream), KDF successfully extends filter life and increases the performance of the media and helps maintain its efficiency.
 - Bacteriostatic control to inhibit microbial growth in the water system.
 - Cartridge easy connect/release with a quarter turn, replace after 6 months or sooner if required.
 - Install in vertical position with cartridge hanging below for easy replacement.
 - Simple installation with push fit connections for standard 10mm flexi pipe, other optional size connections available
 - Recommended flow rate 1.90 L/min., HiFlo10 system upto 10L/min
 - Pressure range 0.7 - 8.5 bar. / Temperature range 2 - 45 degrees centigrade.

1.3 Before you begin

CAUTION

If you have any doubts at any time about installing this equipment, please consult a qualified person or call Wave International for advice.

- Before you start, please read through these instructions carefully. Fitting the Flostream may involve:
 - Cutting into a section of flexible hose or water supply pipe. Ensure plastic pipe cuts are square and no burrs are left on the cut end as this may damage the seal.
 - Mounting the Flostream filter by bolting or screwing the Twist Lock Head or mounting bracket to a solid fixing point.
 - The position you mount the Flostream in must allow for the bowl to be removed for cartridge replacement. Leave a minimum of 25 mm below the filter housing to allow cartridge removal. Do not mount in direct sunlight.

Section 2. Tools and Fasteners

NOTE

Take care if using a sharp knife to cut flexible hose.

The Flostream can be installed using the average DIY toolkit. You will also need:

- A sharp knife or plastic pipe cutter to cut existing water supply pipe / hose.
- A screwdriver for the head / bracket screws (screws not supplied)
- Adjustable wrench for Flostream Micro HiFlo10 connections.

Section 3. Basic Components

- Before you start, please check that you have the following components. If you think you are short of any items, please call us immediately. The Flostream and Flostream HiFlo use the same Twist Lock Head which is supplied separately to the cartridge or cartridge housing.

3.1 Flostream

Twist Lock Head - FLOWPHD

- 1 x Flostream Twist Lock head unit.

Flostream Cartridge – FLOW2

- 1 x Flostream FLOW2 – Flostream 216 Cartridge

OR

Flostream Cartridge – FLOW4

- 1 x Flostream FLOW4 – Flostream 324 Cartridge

3.2 Flostream HiFlo10

Flostream HiFlo – FLOHF10

- 1 x Flostream HiFlo10 Housing complete.
- 1 x Flostream HiFlo10 Cartridge. FLOHFC10

3.3 Flostream Micro HiFlo10

Flostream Micro HiFlo – FLOMHF10

- 1 x Flostream HiFlo10 Housing complete.
- 1 x Flostream Micro HiFlo10 Cartridge. FLOMHFC10

Section 4. Flostream Filter System Specifications

Flostream System	
FLOW RATE:	1.90 Liters per min.
PRESS. RANGE:	0.7 - 8.5 bar.
MAX. TEMP:	38 deg. C.
MIN. TEMP:	2 deg. C.
CONNECTIONS:	10mm (15mm option)
CARTRIDGE:	FLOW2 – 3800 Litres
OR CARTRIDGE:	FLOW4 – 7600 Litres
DIMENSIONS:	264 mm + HEAD – FLOW2
DIMENSIONS:	372 mm + HEAD – FLOW4
Flostream HiFlo10 System – FLOHF10	
FLOW RATE:	10 Liters per min.
PRESS. RANGE:	0.7 – 8.6 bar.
MAX. TEMP:	51.7 deg. C.
MIN. TEMP:	4 deg. C.
CONNECTIONS:	¾" BSP (15mm option)
CARTRIDGE:	FLOHF10C
DIMENSIONS:	337 mm
Flostream Micro HiFlo10 System – FLOMHF10	
FLOW RATE:	10 Liters per min.
PRESS. RANGE:	0.7 – 8 bar.
MAX. TEMP:	45 deg. C.
MIN. TEMP:	4 deg. C.
CONNECTIONS:	¾" BSP (15&1 2mm option)
CARTRIDGE:	FLOMHF10C
DIMENSIONS:	169 mm

Section 5. Installing the Components

WARNING

Before fitting the filter ensure the water supply pump is not running and turned off.

NOTE

If installing in a hard piped system refer to the BSP thread data in **Section 4**

5.1 Fitting Flostream (flexible pipe installation).

- Locate a suitable position and fix the Twist Lock Head securely for the Flostream HiFlo10 securely mount the housing top cap which has an integral bracket and the steel bracket for the Flostream Micro HiFlo10. Note the direction of flow arrows on the tops.
- For the Flostream install the filter cartridge (FLOW2 or FLOW4) by insert into the head and twisting $\frac{3}{4}$ of a turn to lock in position, this action also opens a valve within the head which closes on removing the cartridge.
- Cut the flexible water supply pipe immediately before and after the filter, square with no burrs.
- Slide the two ends of the flexible supply hose into the push fit connections.
- It is preferential the Flostream filters are vertical and it is required to have enough space below the filter units to allow for changing the cartridges, minimum 25mm.
- For the Flostream HiFlo10 & Micro HiFlo10 check the bowl 'O' ring is in position and the filter cartridge in place, tighten the bowl firmly by hand.
- Run the water pump and bleed any air out of the nearest tap. On the Flostream HiFlo10 & Micro HiFlo10 there is a bleed screw or button on the top of the unit for this.

Section 6. Cartridge Replacement

WARNING

Before fitting the filter ensure the water supply pump is not running and turned off.

- Make the cartridge replacement part of a regular maintenance programme, making sure to replace the Flostream cartridge before water quality is reduced. The period between cartridge replacements will depend on the condition of the water and the values in the specifications at **Section 4.0** are a guideline only.
- Ensure you have the correct cartridge for your system.
- Ensure the water supply pump is switched off.
- Flostream, a $\frac{3}{4}$ counter clockwise twist will remove the cartridge or housing, closing the internal valve in the head.
- Flostream HiFlo10 & Micro HiFlo10 - Unscrew the filter bowl and pour the excess bilge water away.
- Remove the saturated cartridge placing it in a suitable receptacle for onward responsible disposal.
- Check the 'O' ring is in the top of the HiFlo10 & Micro HiFlo10 bowl and it is in good condition and the seals on top and bottom of the new cartridge are also in place.
- Flostream, install the filter cartridge (FLOW2 or FLOW4) by inserting it into the head and twisting $\frac{3}{4}$ of a turn to lock in position, this action also opens a valve within the head.
- Flostream HiFlo10 & Micro HiFlo10, locate the new cartridge in the centre of the bowl and then tighten the bowl firmly by hand.
- Run the water pump and bleed any air out of the nearest tap. On the Flostream HiFlo10 & Micro HiFlo10 there is a bleed screw or button on the top of the unit for this.

Section 7. Functional Checks

7.1 Installation Check

- Go over all your work one last time, ensuring that:
 - The filter units are secure and all connections are good.
 - Make sure any other components you disturbed or removed during the fitting process have been refitted correctly.

7.2 Operational / Maintenance Check

- Make cartridge replacement part of a regular maintenance programme and change at least once every 6 months.
- The period between cartridge replacements will depend on the condition of the water and the values in the specifications at **Section 4.0** are a guideline only.

Section 8. Approvals

- The Flostream FLOW2 & FLOW4 are NSF 42 & 53 certified to meet health and aesthetic standards.
- The Flostream HiFlo10 & Micro HiFlo10 system are constructed with WRAS and NSF certified components and filter medias.

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