

# OneFlow<sup>®</sup>+ OFPSYS

Salt-Free Scale Prevention and Water Filtration

## Technical Data Sheet



## Description

The **OneFlow®+** system, **Series OFPSYS**, is an economical and environmentally friendly physical water treatment technology that helps protect pipes, extend the life of appliances, and provide better tasting water through filtration. The **OneFlow®+** system is a dual cartridge-based system with a radial flow 20 micron carbon block cartridge which reduces sediment, chlorine taste and odor, and an integrated **OneFlow®+** scale prevention cartridge.

The **OneFlow®+** system uses template assisted crystallization (TAC) to attract hardness minerals and convert them into harmless, inactive microscopic crystal particles.

These crystals stay suspended in the water and are passed to drain. The system requires very little maintenance, no backwashing, no salt and no electricity. Typical hardness problems, especially build-up of scale in heating elements, pipes, water heaters, boilers and on fixtures, are reduced.

The **OneFlow®+** system is not a water softener. It does not add chemicals. It is a scale prevention device with proven third party laboratory test data and years of successful commercial, residential and foodservice applications. **OneFlow®+** is the intelligent scale solution and is a great salt-free alternative to water softening (ion exchange) or scale sequestering devices.

### OFPSYS

Reduces sediment, chlorine taste and odor

Chemical-free scale prevention and protection - converts hardness minerals to harmless, inactive microscopic crystals making **OneFlow®+** an effective salt-free alternative to ion exchange water softeners

Virtually maintenance free - no salt bags or other chemicals to constantly add or maintain

No control valve, no electricity and no wastewater

Improves efficiency of all water heating devices and downstream plumbing components

Simple installation – standard 1" connections

Excellent system for homes where equipment protection is desired for longer equipment life and reduced energy consumption

**OneFlow®+** cartridge-based systems are easily maintained.

Easily installed mounting bracket and multi-function tool included to allow cartridge change-outs when necessary



Type	Part No.	DN	Flow rate (l/min)	Weight (kg)
OneFlow®	OFPSYS	1" NPT	38	7,5

#### Feed Water Chemistry Requirements

pH	6.5÷8.5
Hardness (maximum)	75 grains (1282 ppm CaCO <sub>3</sub> )
Water Pressure	10 psi÷90 psi (0.69 bar÷6.21 bar)
Temperature	40°F÷100°F (5°C to 38°C)
Chlorine	< 3 ppm
Iron (maximum)	0.3 mg/l
Manganese (maximum)	0.05 mg/l
Copper	1.3 ppm
Oil & H <sub>2</sub> S	Must be Removed Prior to OneFlow®+
Silica (maximum)	20 ppm (addresses aesthetic issues only)

#### System Specifications

Inlet/Outlet Connections	1" NPT
Service Flow Rate (Peak)	up to 10 gpm (37.85 lpm)
Capacity	OneFlow®+ system helps prevent scale in addition to removing sediment, chlorine taste and odor. A replacement schedule of once per year for the carbon cartridge and once per every 3 years on the OneFlow®+ anti-scale cartridge is typical for residential systems. Frequency of cartridge replacement will depend on volume of system usage.

## Approvals

Independent scientific testing has confirmed Template Assisted Crystallization (TAC) technology provides scale reduction of over 90+%. Testing was conducted under protocol based on DVGW W512 test to assess control of scale formation.



WQA Certified to NSF/ANSI Standard 372

## Application

A **OneFlow<sup>®</sup>+** scale prevention system shall be installed on the cold water service line to condition the tap water just prior to the service line feeding the residential home. The **OneFlow<sup>®</sup>+** system uses a 20 micron radial flow carbon block cartridge with a dirt holding capacity up to 2.2 lbs (1 kg). This carbon block reduces chlorine taste and odors for up to 50,000 gallons (189,000 liters) of use, with a flow rate of 3 gpm (11.34 lpm). The **OneFlow<sup>®</sup>+** system also uses a scale prevention cartridge which is good for up to 250,000 gallons (945,000 liters) or replacement every 3 years, whichever comes first. The installation area should be suitable in size for the housing to be serviced without encumbrance and the system should be installed per the Installation, Operation & Maintenance manual as provided with each system.

The **OneFlow<sup>®</sup>+** system must not require additional wastewater to backwash, flush, or regenerate once put into service. The system shall not require any chemical additives and shall not require electricity for operation.

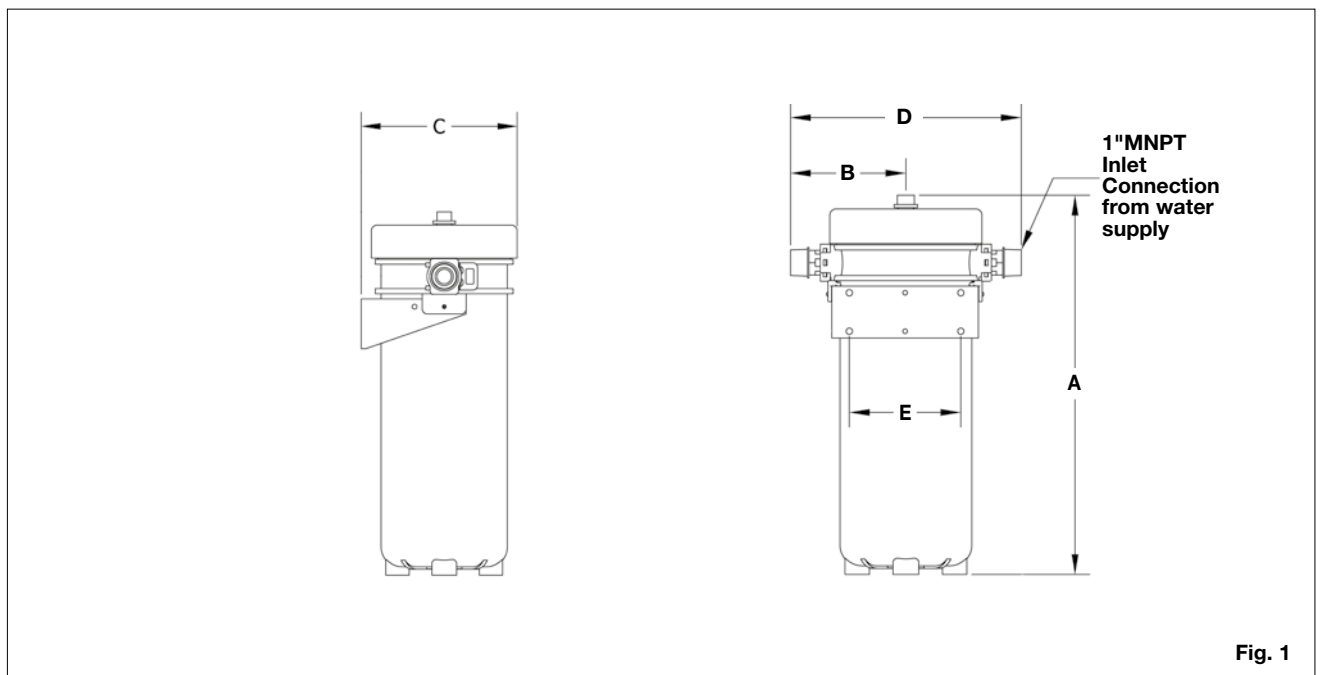


Fig. 1

## Operation

High levels of copper that originate from new copper plumbing can foul the **OneFlow<sup>®</sup>+** media. After the installation of a copper plumbing system, wait a minimum of 4 weeks before using the **OneFlow<sup>®</sup>+** system. Avoid applying excess flux to the inner surfaces of the pipe. Use a low-corrosive water soluble flux listed under the B813 standard.

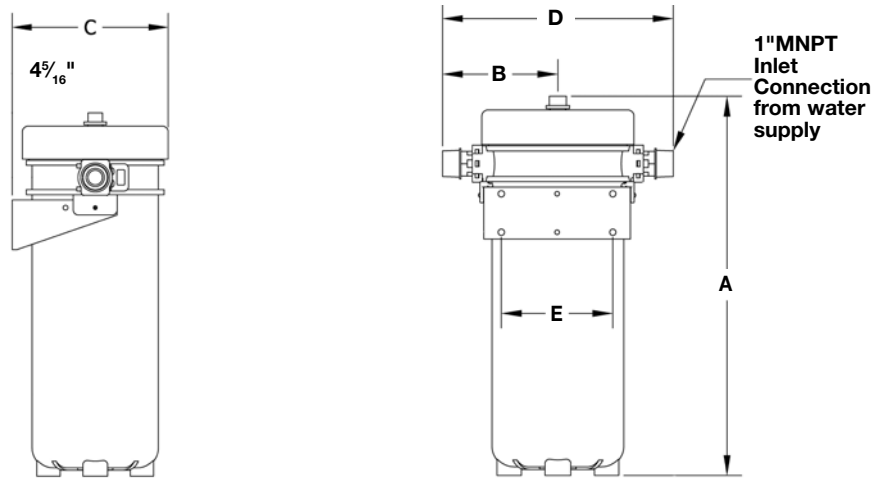
**OneFlow<sup>®</sup>+** media does not reduce silica scaling. While silica tends to have a less significant effect on scale formation than other minerals, it can act as a binder that makes water spots and scale residue outside the plumbing system difficult to remove.

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before or after the system.

<b>OFPRFC</b>	Radial Flow Carbon Block Cartridge should be replaced at least once every year
<b>OFPS</b>	Scale Prevention Cartridge should be replaced at least once every 3 years
<b>OFPCOM</b>	Combo Pack includes one carbon block cartridge and one scale prevention cartridge

## Overall dimensions (mm)



Mod.	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)
OFPSYS	476	144	205	289	140

The overall height and the height of the inlet fitting varies due to material variations and assembly tolerances. Please allow additional clearance above the filter for making connections.

## Product text

### OneFlow®+ Series OFPSYS

OneFlow® Anti-Scale System **OneFlow®+**, **Series OFPSYS** - Watts brand, cartridges included. It improves efficiency of all water heating devices and downstream plumbing components, protecting from scale formation on internal and external plumbing surfaces. Maximum flow rate 38 lt/min, Max. pressure 6,2 bar; max temperature 38°C. Size 1".

The descriptions and photographs contained in this product specification sheet are supplied by way of information only and are not binding.

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