



How does OneFlow® work?

OneFlow® is **not a water softener**. It uses innovative technology to improve the quality of drinking water by neutralising limescale. OneFlow® granules attract the calcium and magnesium found in hard water and turn them into microscopic crystals. These inert crystals then flow away in the water instead of sticking to surfaces. This prevents the build-up of limescale in pipes, heating elements, taps, etc.

Effective limescale prevention

OneFlow® is a proven system for effective limescale prevention, as shown by independent laboratory test data. It does not require any **control valves, electricity, salts or chemical additives**. It reduces **waste water discharge** and water consumption. OneFlow® needs only **minimal maintenance**: residential systems need the cartridge changing every one to three years, depending on version, while larger, tank-based systems need the granules changing every three years. **The water retains all its essential minerals**, such as calcium and magnesium.

OneFlow™+ OFPSYS limescale prevention and water filtration

As well as an anti-limescale cartridge, OneFlow™+ OFPSYS contains a 20 micron activated carbon filter. This version not only protects pipes against limescale build-up, but also prevents the water from developing unpleasant tastes or odours. **Important:** the activated carbon filter does not eliminate manganese, iron or other metals.

The various minerals detach in the form of crystals and are conveyed into the system.

3

The charged ions agglomerate around the granules of media

2

Incoming calcium and magnesium ions

1



Register yours OneFlow®

To keep your system in good working order, we advise you to register your OneFlow® device on our website. We'll send you a reminder one month before your cartridge or granules need to be changed.

1. Go to the website

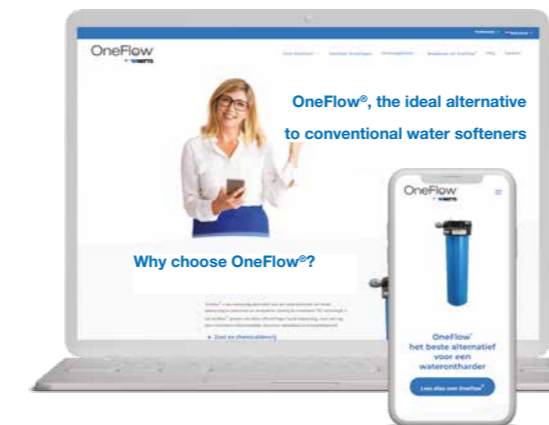
www.watts-oneflow.com/register

2. Provide the requested information

Contact details, OneFlow® model, installation date, etc.

3. Receive confirmation of registration

Your OneFlow® has been registered. You'll receive an email to confirm this.



Installation tips

- Connect the system to the cold water supply only, preferably downstream of the water meter. The water temperature must not be more than 38°C.
- The system must be installed vertically and correctly levelled.
- For best results, use phosphate-free or low-phosphate washing-up liquid. However, you can carry on using salt and rinse-aid in your dishwasher.
- Excessive levels of copper may compromise the correct operation of OneFlow®. If you have recently had copper pipes installed, wait for at least 4 weeks before installing OneFlow®.
- When installing OneFlow®, always leave enough clearance around the unit to enable you to change the cartridge or granules easily.
- You are advised to install a filter upstream of your OneFlow to protect against sediment.
- Check the water quality and mains pressure before installing OneFlow. Fit any protection devices that may be necessary (e.g. water hammer arrestor, pressure reducing valve, etc.).

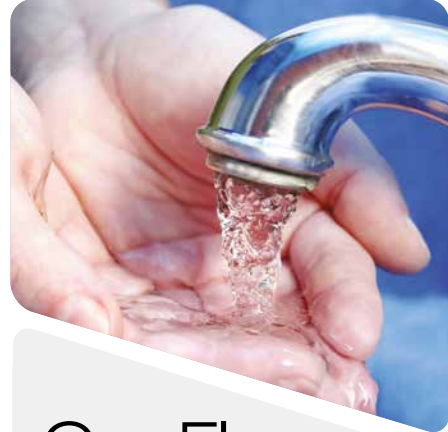


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OneFlow®

Innovative anti-limescale technology
Application guide





OneFlow®

The new technology for controlling limescale in water

CHEMICAL SPECIFICATIONS OF THE SUPPLY WATER

pH	6.5 - 8.5
Hardness (maximum)	28.8°dH, 51.3°F (513 mg/L CaCO ₃ *)
Water pressure	1.03-6.2 bar
Temperature	5-38°C
Free chlorine	< 2 mg/L
Iron (maximum)	0.3 mg/L**
Manganese (maximum)	0.05 mg/L**
Copper	1.3 mg/L***
Oil & H ₂ S	Remove before use
Total phosphates	< 3.0 mg/L
Silica (maximum)	20 mg/L****
TDS	1500 mg/L****

All the chemical specifications of the water correspond to the average parameters of the normal water supply. Contact your water company or local authority for confirmation of conformity. A polyphosphate dispenser can be installed downstream of the OneFlow® system, but never upstream of it, as this would stop it working properly.

NOTES

* Systems using OneFlow® technology are effective at preventing limescale formation in plumbing systems exposed to high levels of water hardness: up to 513 mg/L (28.8°D, 51.3°F) of calcium carbonate. Due to variations in the chemical specifications of water, 513 mg/L is the maximum recommended hardness in order to avoid potential aesthetic issues relating to soft limescale residue formation on the outside of pipes. Testing should be performed to determine proper application where hardness levels exceed 513 mg/L.

**As with conventional water softening media, OneFlow® granules need to be protected from excessive levels of certain metals that can coat the active surface and reduce its effectiveness over time. Water from the public mains does not pose this problem, except in rare cases. If you are using water from a private well, however, check that the levels of iron (Fe) and manganese (Mn) are below 0.3 mg/L and 0.05 mg/L respectively.

INSTALLATION WITH COPPER (Cu)

*** We do not recommend the installation of OneFlow® with new copper pipes. Excessive levels of copper can damage the OneFlow® granules. If new copper pipes have just been installed, they need to be passivated for a minimum of 4 weeks before the unit is placed into service.

**** OneFlow® granules do 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 limescale residue difficult to remove from the outside of plumbing system components. This 20 mg/L limitation is for aesthetic purposes only.

***** The quantities of all other water contaminants must meet the requirements of the water control agency of the country in which OneFlow® is sold and installed. The maximum levels of contamination for specific minerals and metals, which are classified in the chemical specifications of the water supply, replace the aforementioned requirements. If the water contains excessive quantities of impurities and detritus, ensure that it is pre-filtered before using OneFlow®.

The benefits of OneFlow® for your property

OneFlow® is the best alternative to conventional water softeners. The system is ideal for use in homes, hotels, restaurants, sports centres and other facilities.



No salts or chemical additives needed

No substances are added to the water.



No electricity needed

OneFlow® works independently. No power sockets needed.



No waste water generated

Unlike conventional water softeners, it does not require backwashing, so avoids needless water consumption.



Innovative, environmentally-friendly technology

Avoids water wastage and requires neither electricity nor the addition of salts.



Compact and easy to install

OneFlow® is a compact device that can be wall-mounted or floor-mounted, depending on model.



Safe for pipes and electrical appliances

OneFlow® is an effective system for the long-term removal of limescale from pipes and electrical appliances.



Low maintenance

No maintenance contract. The cartridge or granules need to be changed every one/three years, depending on model.



Saves energy

Minimal water consumption and a reduction in limescale translate into higher efficiency for all electrical appliances that use water.



Preserves water quality

The water retains all its essential minerals, such as calcium and magnesium.

The build-up of limescale can block pipes and taps, compromise water quality and significantly reduce the service life of electrical appliances. OneFlow® is the most innovative and effective technology for preventing the build-up of solid limescale, while taking even more care of the environment.

OFTWH-R model 23 L/min

Part no.	Description
S0002188EU	OneFlow® anti-limescale system (cartridge included) 3/4" - 190x190x630 mm
S0002189EU	OneFlow® spare cartridge for OFTWH-R model (service life 2 years)

OFTWH model 38 L/min

Part no.	Description
S0002182EU	OneFlow® anti-limescale system (cartridge included) 3/4" - 190x190x630 mm
S0002183EU	OneFlow® spare cartridge for OFTWH model (service life 2 years)

ONEFLOW® CONNECTION KIT

The connection kit for the 23 and 38 L/min models includes 2 x 100 cm hoses, 2 shut-off valves with non-return system, 4 EPDM seals, 2 x 3/4" nipples, 2 x 90° 3/4" MM brass fittings, 2 x 3/4" - 15 mm compression fittings and 2 x 3/4" - 22 mm compression fittings.

Part no.	Description
S0002134	OneFlow® 3/4" connection kit

ONEFLOW™+ OFPSYS model 38 L/min

Part no.	Description
7100638	OneFlow® anti-limescale system (cartridge included) 1" - 210x290x480 mm
7100640	OneFlow® + spare cartridge (service life 3 years)
7100639	OneFlow® + spare activated carbon cartridge (service life 1 year)
7100641	OneFlow® activated carbon cartridge package

OF948-16-C model 60 L/min

Part no.	Description
M0002112	OneFlow® anti-limescale system (granules included) 1" - 230x230x1334 mm
A0002156	OneFlow® spare granules for model OF948-16-C (service life 3 years)

OF1054-20-D model 75 L/min

Part no.	Description
M0002118	OneFlow® anti-limescale system (granules included) 1 1/4" - 255x255x1511 mm
A0002157	OneFlow® spare granules for model OF1054-20-D (service life 3 years)

OF110-1 model 4 L/min

Part no.	Description
S0002148	OneFlow® anti-limescale system (cartridge included) 1/2" - 130x200x340 mm
S0002161	OneFlow® spare cartridge for OF110-1 model (service life 1 year)

ONEFLOW® + SELF-CLEANING FILTER KIT

Part no.	Description
Kit comprising OneFlow® system + WHOF1 self-cleaning filter	
KIT.WHOF1+OF23	Kit comprising OneFlow® OFTWH-R anti-limescale system (23 L/min) + WHOF 1" self-cleaning filter
KIT.WHOF1+OF38	Kit comprising OneFlow® OFTWH anti-limescale system (38 L/min) + WHOF 1" self-cleaning filter
KIT.WHOF1+OF38+	Kit comprising OneFlow® + OFPSYS anti-limescale system (38 L/min with activated carbon element) + WHOF 1" self-cleaning filter
KIT.WHOF1+OF60	Kit comprising OneFlow® OF948-16-C anti-limescale system (60 L/min) + WHOF 1" self-cleaning filter
KIT.WHOF1+OF75	Kit comprising OF1054-20-D anti-limescale system (75 L/min) + WHOF 1" self-cleaning filter



OPEN CIRCUITS/FLOW RATE

OneFlow® works best in open circuits and without the use of chemical additives that can affect its operation (e.g. in industrial dishwashers). Avoid use in closed circuits (e.g. hydronic systems), and installations with low flow rates or standing water (max. 72 to 120 hours, depending on the quality of the mains water).

LONG-TERM ACTION IN SYSTEMS ALREADY IN USE

Following the installation of OneFlow® you may notice more white marks than usual. This indicates that more limescale is being deposited into the water, because OneFlow® gradually removes the limescale that has previously built up in the pipes. The tap aerators may therefore get clogged. You are advised to regularly clean all surfaces exposed to water evaporation. Remember that surfaces that are not or cannot be cleaned (e.g. kettle) may be susceptible to limescale deposits.

Caution: this equipment requires regular routine maintenance to ensure that the treated drinking water meets drinkability requirements and that the improvements declared by the manufacturers are maintained. Products conform with Italian ministerial decrees 174/2004 and 25/2012.

The benefits of OneFlow®

OneFlow® is an effective system for preventing the build-up of solid limescale deposits on the inner walls of pipes. The information and guidelines provided below will help you make the most effective use of your OneFlow® system.

In washbasins, taps and shower cabins

the reduction in limescale deposits will be especially visible. Small marks may appear on surfaces where water has been left to evaporate. These residues are much easier to remove than the previous limescale deposits. Depending on how hard the mains water is, soft residues can be removed more easily using a sponge or damp cloth.



In dishwashers you will see a considerable reduction in marks on dishes and crockery. Since OneFlow® does not eliminate soft residues of limescale from water (from evaporation on surfaces), you are advised to read your dishwasher manual and add salt as specified. We recommend the use of low-phosphate dishwashing detergents, because they are more environmentally-friendly. In areas where the water is very hard, you are also advised to use rinse-aid.



In the bath soap and shampoo will lather better. Moreover, soap and shampoo residues will be much easier to rinse off than with normal, untreated water.



In heating systems it prevents the build-up of limescale on heating elements, such as internal electrical resistors and plate heat exchangers.

Since OneFlow® removes old residues of limescale from pipes, you are advised to drain the water from the boiler once a year, as this will extend its life considerably. For flushing and routine maintenance of the boiler, see the manufacturer's instructions.



Small spots may remain **in the kettle** and on all hard-to-clean surfaces or surfaces on which water can evaporate. In most cases, this "soft" residue is easier to remove than the normal limescale. If these spots are not removed, however, they may turn into solid residues over time.