OneFlow®

Innovative scale control

Application guide

Prices valid until 31/12/2020

WATTS®

How OneFlow® Benefits Your Property

OneFlow® is the best alternative to traditional water softeners. The system provides benefits from private homes to hotels, restaurants, sports clubs and beyond.

OneFlow®

The new technology
for water scale control

NEW FEED WATER CHEMISTRY REQUIREMENTS

pH	6.5 - 8.5
Hardness (maximum)	28.8°dH, 51.3°fH (427 mg/L CaCO3)*
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 & H2S	Must be Removed
Total Phosphates	< 3.0 mg/L
Silica (maximum)	20 mg/L ****
TDS	1500 mg/l *****

All water chemistry requirements are corresponding to the average parameters of the water delivered usually, please contact your water supplier or local autorities in order to confirm the compliance.

REMARKS:

* Systems using OneFlow® technology are effective at controlling limescale formation inside the plumbing system at influent hardness levels up to 427mg per liter (28.8°D, 51.3°F) of calcium carbonate. Due to variances in water chemistry, 427mg per liter is a recommended hardness maximum due to potential aesthetic issues related to soft scale residue formation outside of the plumbing system. Testing should be performed to determine proper application where hardness levels exceed 427mg per liter.

** Just as with conventional water softening media, OneFlow® media needs to be protected from excess levels of certain metals that can easily coat the active surface, reducing its effectiveness over time. Public water supplies rarely, if ever, present a problem, but if the water supply is from a private well, confirm that the levels of iron (Fe) and manganese (Mn) are less than 0.3 mg/L and 0.05 mg/L, respectively.

INSTALLATION WITH COPPER (Cu):

*** We do not recommend to install OneFlow® with new copper pipes. Excessive copper levels can foul the OneFlow® media. If NEW copper lines had been installed, they need to be passivated for a minimum of 4 weeks before placing the unit into service.

**** OneFlow® 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. This 20 mg/L limitation is for aesthetic purposes.

***** All other contaminants must meet the requirements of the water control agency of each specific country where OneFlow® is sold and installed. Specific Mineral and Metal Maximum Contaminant Level's, identified in the above Feed Water Chemistry Requirements, supersedes those requirements. Water known to have heavy loads of dirt and debris may require pre-filtration prior to OneFlow®.

No salt or additional chemicals required

Nothing is added to the water.

Without electricity

OneFlow® works autonomously. No electrical socket is required.

No waste water

No backwashing like a traditional water softener, which also means no unnecessary water consumption.

Innovative technology with enhanced respect of the environment

No water wasted, and no electricity or salt required.

Compact and simple installation

OneFlow® is a compact device that - depending on the model - can be installed by mounting to wall or floor.

Safe for pipes and appliances

OneFlow® system is efficient in reversing the existing scale in the pipes and appliances overtime.

Minimal maintenance

No maintenance contract. Depending on the model, the cartridge or media must be replaced every one to three years.

Energy-saving

No unnecessary water consumption and less scale build-up improves efficiency of all water using appliances.

Conserved water quality

All vital minerals like calcium and magnesium remain in the water.

Scale build-up can block pipes and taps, affecting water quality and greatly reducing the lifespan of electrical appliances. An ideal solution, OneFlow® is the most efficient and innovative technology with enhanced respect of the environment to prevent hard scale build-up.

Prices valid until 31/12/2020. Tax not included.

Model OFTWH-R 23 l/min

Part nr.	Description	Gross price
S0002188	OneFlow® Scale control system (cartridge included) 3/4" - 18x18x60 cm	€ 469
S0002189	OneFlow® spare TAC cartridge for OFTWH-R (lasts 2 years)	€ 209
S0002134	OneFlow® connection kit	€ 119

Model OFTWH 38 l/min

Part nr.	Description	Gross price
S0002182	OneFlow® Scale control system (cartridge included) 3/4" - 18.5x18.5x60 cm	€ 625
S0002183	OneFlow® Spare TAC cartridge for OFTWH (lasts 2 years)	€ 309
S0002134	OneFlow® Connection kit	€ 119

Model OF948-16-C 61 l/min

Part nr.	Description	Gross price
M0002112	OneFlow® Scale control system (media included) 1" - 23.5x23.5x133 cm	€ 1.335
A0002156	OneFlow® Spare TAC media for OF948-16-C (lasts 3 years)	€ 549

Model OF1054-20-D 76 l/min

Part nr.	Description	Gross price
M0002118	OneFlow® Scale control system (media included) 1 1/4" - 26.5x26.5x147 cm	€ 1600
A0002157	OneFlow® Spare TAC media for OF1054-20-D (lasts 3 years)	€ 755

Model ONEFLOW™+ (OFPSYS) 38 l/min

Part nr.	Description	Gross price
7100638	OneFlow+® Scale control system (cartridge included) 1" - 20x20x47 cm	€ 855
7100640	OneFlow+® Spare TAC cartridge (lasts 3 years)	€ 395
7100639	OneFlow+® Spare carbon filter element (lasts 1 year)	€ 159
7100641	OneFlow+® Package TAC cartridge + Carbon filter element	€ 530

Model OF110-1 4 l/min

Part nr.	Description	Gross price
S0002148	OneFlow® Scale control system (incl. cartridge) 1/2" - 13x11.7x34 cm	€ 235
S0002161	OneFlow® Spare TAC cartridge for OF110-1 (lasts 1 year)	€ 85

NEW!

Only suitable for:
OFTWH-R 23 l/min
OFTWH 38 l/min

OneFlow® connection kit 3/4"

Part n° S0002134

Complete connection kit including:
- 2 x flexible hose 100 cm
- 2 x shut-off valve with check valve
- 1 x roll sealing (Teflon)
- 4 x EPDM sealing
- 2 x nipple 3/4”
- 2 x 90° brass coupling 3/4” MM
- 2 x compression joint 3/4” 15 mm
- 2 x compression joint 3/4” 22 mm

How OneFlow® Benefits You

OneFlow® scale control provides protection from hard scale formation on internal plumbing surfaces. Below you can find some expectations and guidelines to make sure your OneFlow® system performs efficiently.

OPEN CIRCUITS/FLOW

OneFlow® performs optimally in open circuits and without the addition of chemical additives that can have an effect on operation (eg industrial dishwashers). Avoid use in a closed circuit (eg hydronic systems) and with low flow or standing water (max. 72 to 120 hours, depending on the quality of the incoming water).

OVER TIME IN EXISTING HOMES

After the OneFlow® is installed, there is a possibility that you will notice more white spots then you are used to see. This indicates an increase in the scale content in the water, as the OneFlow® slowly removes the existing scale from the pipes. This may result in the aerators of your taps being blocked.
We recommend regular cleaning of all surfaces on which water can possibly evaporate. Please keep in mind each surface which is not or cannot be cleaned (eg. a kettle) eventually will have scale build-up.

In sinks, taps, and shower walls you'll notice reduced hard scale build-up. If water can evaporate on a surface, small stains can occur. Often it is easier to clean this soft residue compared to the hard scale build-up you had before. Depending on the quality of the incoming water this residue is easy to clean with a damp cloth or sponge.

In the dishwasher the number of stains on your dishes will reduce considerably. Since OneFlow® doesn't remove the soft scale deposits in the water (on evaporating surfaces), we recommend to read the dishwashers manual and still add salt in the tank. It is best to choose dishwasher detergents with low phosphate content, as these are better for the environment. In hard water regions, the use of a rinsing agent is recommended.

In the bath soaps and shampoos will lather more. Also soap and shampoo residue is much easier and quicker to rinse off than with untreated hard water.

In the heating system hard scale build-up is prevented in the heating elements, such as internal electrical heating coils and plate heat exchangers. Because the OneFlow® removes old scale residue from pipes, we recommend rinsing the water in your boiler once a year. This extends the life of your boiler considerably. Please follow the instructions of the manufacturer when rinsing the boiler.

In the kettle and on all surfaces on which water can evaporate or which is difficult to clean, small stains may appear. In most cases it is easier to clean this soft residue compared to the hard scale build-up you had before. But if it's impossible to clean these spots, after some time this can result in hard scale build-up.

How does OneFlow® work?

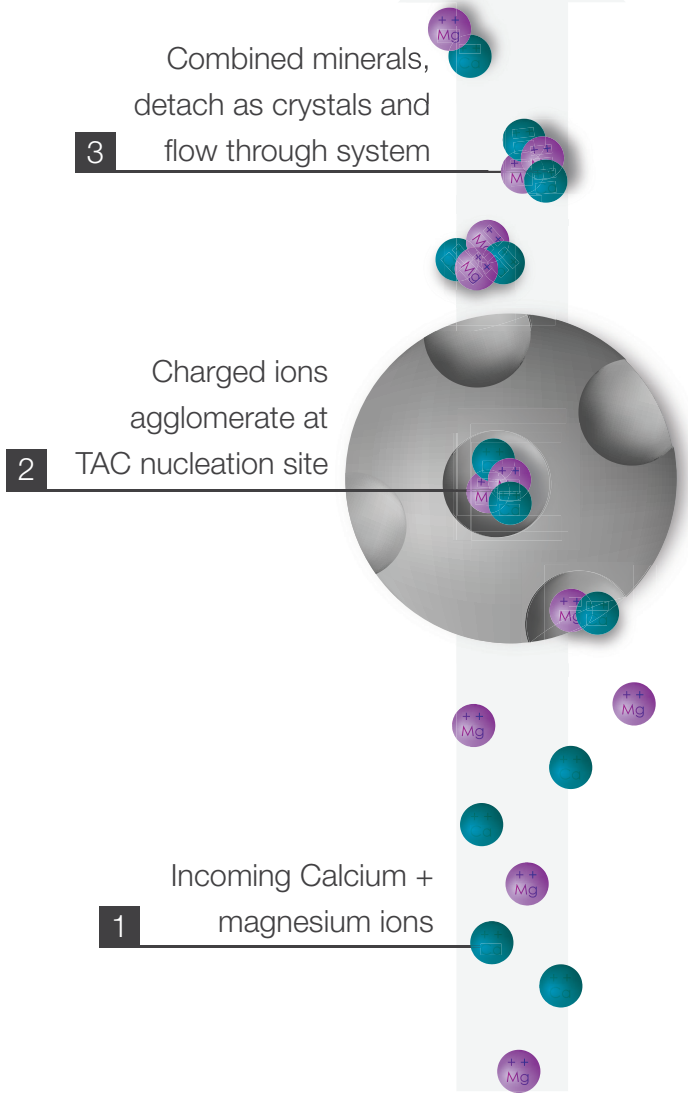
OneFlow® is **not a water softener**. It uses Template Assisted Crystallization (TAC), an innovative technology which improves the quality of tap water by neutralising scale. OneFlow® media attract calcium and magnesium minerals in hard water, and turn them into microscopic crystals. These soft, inert crystals are carried away by the water, and no longer attach themselves to surfaces. This eliminates scale and keeps pipes, heating elements, taps, etc free of scale.

Efficient scale control

The OneFlow® system is seen as proven scale control, performance tested by third party laboratory data, requires **no control valve** or **electricity, salt or chemicals additives**. It reduces **waste water discharge** and water consumption. OneFlow® only requires **minimum maintenance** with residential systems' cartridge replacement every one to three years, depending on the chosen version, and in case of the bigger tank systems changing the media is necessary every three years. And you can rest assured all **vital minerals** such as calcium and magnesium remain in the water.

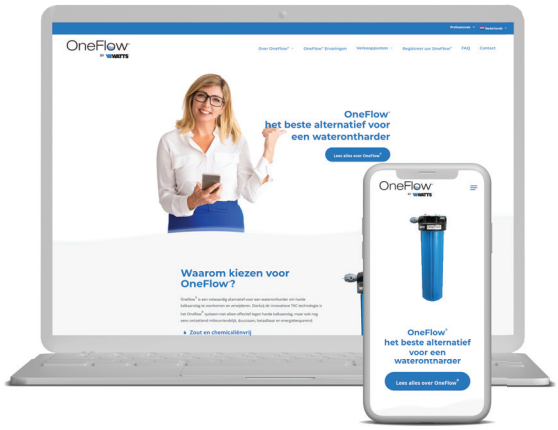
OneFlow™+ scale prevention & water filtering

In addition to the TAC cartridge, OneFlow™+ contains an integrated 20 micron carbon filter. This model not only protects your pipes against hard scale build-up, but also keeps the water free of unpleasant odours and tastes.
Attention: this carbon filter does not remove manganese, iron or other metals out of the water.



Register your OneFlow®

To ensure proper operation, please register your OneFlow® device. You will receive a reminder one month before your cartridge or media must be replaced.



1. Visit the website

www.watts-oneflow.com/register

2. Complete all information

Contact details, OneFlow® model, installation date, etc

3. Confirmation of your registration

You have now registered your OneFlow®. You will receive a confirmation by e-mail.

Installation tips

- Only connect the system to the cold water supply, preferably after the water meter. The water temperature must not exceed 38 °C.
- The system must be installed vertically, and placed straight and level.
- For optimal results, choose dishwashing detergents that are low in phosphates or phosphate free. Salt and rinsing agents may still be used in the dishwasher.
- Excessive copper levels can prevent proper operation of the OneFlow®. If new copper pipes have been installed, wait at least 4 weeks before installing OneFlow®.
- When installing OneFlow®, always ensure there is enough space to replace the cartridge or media afterwards.

Watts Benelux
Beernemsteenweg 77 A • 8750 Wingene • Belgium
Tel. +32 (0)51 65 87 08
benelux@wattswater.com • www.watts.com