



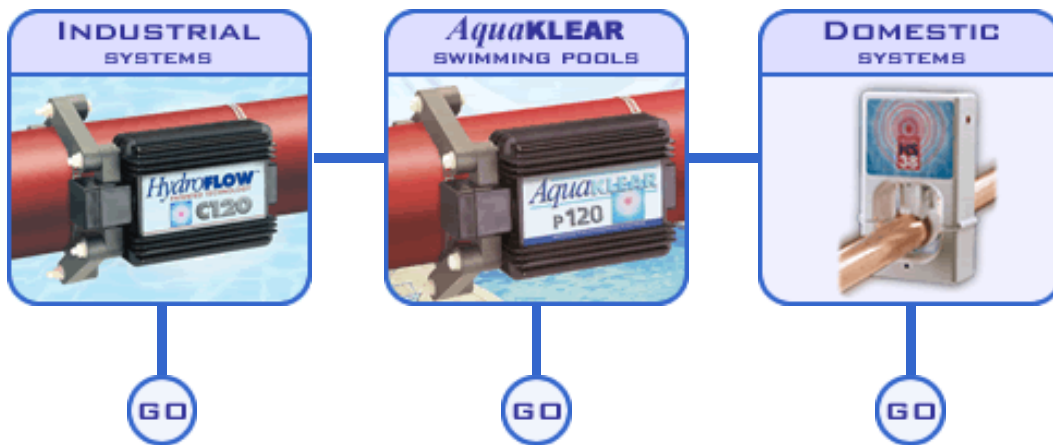
# HydroFLOW

Fit-and-forget electronic water de-scaling technology

HydroFLOW is class-leading water treatment or water de-scaling systems

HydroFlow water treatment products are used around the world, are extremely efficient, easy to install, chemical free and maintenance free. Our systems provide de-scaling, prevent limescale formation and make great cost savings.

Cut costs and protect your appliances with HydroFLOW



SCALE COSTS TIME AND MONEY - HYDROFLOW IS THE SOLUTION [more below »](#)

- Easy to install
- Extremely cost-efficient
- Reduces service, maintenance & repair costs
- Prevents scale build up
- Protects extensive pipe networks upstream and downstream
- Fits virtually any appliance
- Works on all pipe materials
- Industrial and domestic versions available

It stops scale forming in pipes, boilers, jets and process equipment, offering substantial savings on heating and maintenance.

See

[AquakLEAR](#) system for swimming pools.

See [domestic system](#).

Fit-and-forget electronic water de-scaling technology





## The HydroFLOW Commercial Product Range

**HydroFLOW** models provide complete flexibility for the effective treatment of hard scale in water systems of every type and size, with both industrial and domestic units.



Fully guaranteed and protected in accordance with the world's most stringent safety and build quality standards.

**See the Technical Info area for more details.**

**HydroFLOW** generates a powerful conditioning effect over long distances of pipe networks, without water having to flow past the signal generator itself.

**HydroFLOW** attaches to pipes of any material, and works in hostile environments. Totally non-invasive, it requires no plumbing and no maintenance.

Different models eliminate scale in different sized zones, protecting plumbing both downstream and upstream. Its concentrated power even provides total scale protection in storage tanks with static water.

The system is environmentally-friendly, increasing efficiency of heating systems and thus reducing CO2 emissions and energy usage. It operates without chemicals and reduces the need for chemical treatment of corrosion and algae.

### HydroFLOW Model C45

For 45mm (1.8 inches) outside diameter pipes.

### HydroFLOW Model C60

For 60mm (2.4 inches) outside diameter pipes.

### HydroFLOW Model C100

For 100mm (4 inches) outside diameter pipes.

### HydroFLOW Model C120

For 120mm (4.8 inches) outside diameter pipes.

### HydroFLOW Model C160

For 200mm (7.85 inches) outside diameter steel pipes & 200mm P.V.C.

### HydroFLOW Custom

Tailored to specific applications, and pipes of unlimited diameter.



## Installation

Hydroflow is easily fitted to existing and new systems and the low operating costs will deliver payback in a very short period of time.

There are benefits for the environment too - lower fuel requirements and a reduction in sodium that finds its way back to the watercourse.

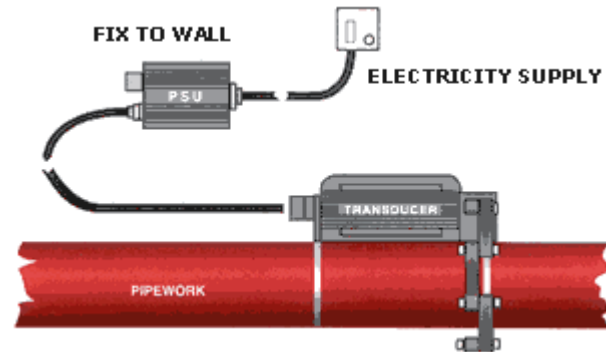
## AquaKLEAR for Swimming Pools



AquaKLEAR  
PATENTED TECHNOLOGY



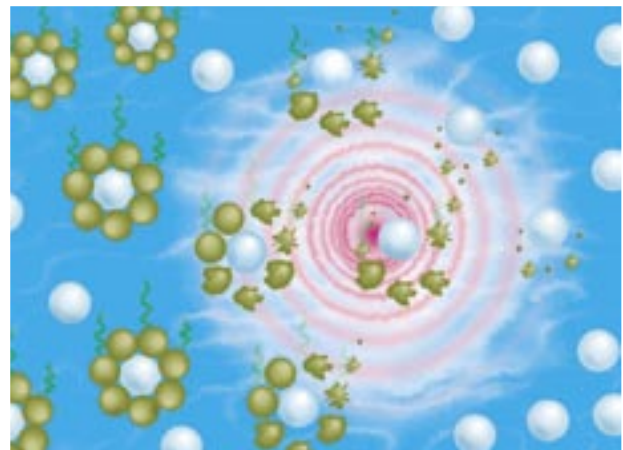
- **Uses less chlorine**
- **No fixed chlorine - less smell**
- **Reduces backwashes - saves energy**
- **Eliminates the need for coagulants**
- **Reduces acid for pH control**
- **No chemicals or maintenance**
- **Works on all types of pipe**



The cost of operating a swimming pool, whether it's Olympic size or a private pool, can now be greatly reduced by using AquaKLEAR.

This proven technology transmits a signal 24 hours day directly into the circulating water system - releasing fixed Chlorine or Bromine, coagulating suspended solids, improving filter performance, and saving water and energy. These findings were independently proven by the Water Research Company.

Once fitted, the effect on automatic dosing systems can be seen within 30 minutes, with a saving of over 66% of chlorine in the following hours of operation. The main advantage of the technology, is the cost saving associated with the backwashing of the filters, which have to be cleaned regularly due to suspended solids. It is not unusual to use around 10% of the pool water to do this, with AquaKLEAR the time between backwashing can be extended by at least a factor 3, saving both metered water and energy costs in re-heating the new water introduced.



No other product can make the claim of treating all the water in the filtration system all of the time and achieving the independently-proven results. Patents in virtually every country cover the technology.

**AquaKLEAR makes swimming pools more attractive to visitors, with no damaging effects on swimwear, no clouding, and a greatly reduced smell of Chlorine. All this, while making considerable savings in the operating costs!**

## The HydroFLOW Domestic System



Clip on, switch on - that's it. Say goodbye to limescale, choked pipes, boilers and water systems. One unit for all pipe sizes - no plumbing.

The activity light shows the unit is protecting your system twenty-four hours a day, seven days a week. No maintenance is required, and no chemicals are involved.

Running costs are less than 90 pence a year, and the unit soon pays for itself by fuel savings.

3-year fit for purpose guarantee - money back if not satisfied as per our guarantee enclosed with the products.

HydroFLOW's patented water treatment technology represents a major breakthrough in the treatment of water. HydroFLOW prevents scale build-up and will in most cases dissolve existing scale.

It works independently of flow rate and temperature, is consistently effective, reliable, and maintenance free.

The compact unit fits all types & sizes of domestic pipe and is designed for easy installation. Simply click on, plug in and switch on.

### THE EFFECTS OF LIMESCALE

Limescale builds up in heat exchangers, pipes, pumps, boilers and appliances connected to the system. This usually results in reduced flow rates, loss of efficiency, and early failure of components.

### HOW IT WORKS

Electric fields are induced into the water. These fields propagate through the water in the entire plumbing system. When the water is heated, the resulting precipitate that usually deposits on hot surfaces, forms in suspension and develops as a crystal on the nuclei and is then washed away in the flow.

The fields treat the water both up and down stream and will be transmitted into the central heating system to treat the primary water. The treated water is normally able to dissolve existing scale in just a few weeks.

### SPECIFICATIONS

Manufactured to BS EN ISO 9002 and meets all standards.  
Reliable solid state circuits.  
12 VAC. 100mA. / Max power 1.2 watts.  
Weight approx. 175 grams.  
Height 110mm - Width 67mm - Depth 30mm



## **The HydroFLOW Guarantee**

If the red indicator light does not glow and the water conditioner has not been physically broken through misuse, it should be returned to the supplier or direct to the Company with proof of purchase. During the first 3 years it will be repaired or replaced free of charge. Any unauthorized attempt to repair the unit will invalidate this guarantee. The Company will not accept responsibility for water leaks that are revealed by the dissolving of scale.

## **MONEY BACK OFFER**

The warranty period for the Products will be a minimum of twelve months from date of purchase with respect to fitness for purpose/ performance. The Company will refund to the merchant the cost of goods supplied who in turn will refund the contractor for the cost of goods supplied if the end user proves that more than six months after installation but not later than 12 months after installation the device failed to produce the benefits claimed both generally and in relation to the agreed Customer specification of requirements.

## **THIRD PARTY CLAIMS**

Under no circumstances will the Company entertain third party claims arising out of failure of the equipment nor will the Company accept any liability for consequential damage caused by the effectiveness and efficiency of the HydroFLOW unit where the Customer has been advised of the likelihood of this beforehand e.g. where there is the possibility of loose scale particles being allowed to enter the system or process unfiltered.

## **LIMITATIONS**

Most of the hardness in water comes from calcium and magnesium salts which are dissolved into the water from the rocks through which the rain flows. HydroFLOW will effectively and efficiently treat this water.

The Company accepts that certain types of encrusting scale once formed will not quickly be dissolved by the HydroFLOW unit where there are high concentrations of silicates, sulphates and phosphates. In such cases it is recommended that systems known to contain such encrusting scale be chemically cleaned. Once cleaned the system should stay clear thereafter.

## Frequently Asked Questions about the HydroFLOW system

### **Is HydroFLOW easy to install?**

The unit simply clips to the pipe, and is plugged into the electric supply and switched on. Installation is very straightforward.

### **Can I still drink the water?**

HydroFLOW does not change the chemical composition of the water in any way. It works purely on a physical basis, leaving the water completely drinkable. Essential minerals are retained in the water. Unlike water softeners, it is not necessary to provide a separate untreated drinking supply.

### **Will HydroFLOW descale, as well as prevent scale?**

Yes, although it may be a gradual process over a period of months. The way in which HydroFLOW prevents limescale from forming on pipework also increases the solvency of water - meaning that any limescale which had already formed will gradually dissolve. However, not all scale is limescale. Some scale cannot be dissolved and can only be removed by acid cleaning. Once a system is cleaned it is less likely to scale up again.

### **Where should I fit the HydroFLOW?**

Due to HydroFLOW's unique technology, we recommend that the unit be installed on the cold feed to the heat exchanger. In the case of a traditional gravity-fed system, this would be the down pipe between the cold water storage tank and the hot water cylinder. With a mains pressure system, the unit should be fitted on the cold feed, just before it enters the heat exchanger.

### **What is the difference between the HS34 and HS38 units?**

The HS34 has a 5-volt output, and the HS38 has an 8-volt output. This simply means the signal from an HS38 will travel further. Therefore, if you are using the unit to protect a particular appliance, or you have a simple plumbing system, an HS34 is more than sufficient. For more complex system such as boiler and cylinder systems, or those already badly scaled, it is advisable to fit an HS38.

### **How much does HydroFLOW cost to run?**

Less than ninety pence a year - HydroFLOW actually uses 12 volts AC, via a transformer connected to the mains, at a maximum power of 1.2 Watts.

### **How can I tell if HydroFLOW is working?**

The red light on the unit is powered by the signal itself, and can be relied upon to indicate that the system is being protected.

### **What is the life expectancy of HydroFLOW?**

HydroFLOW units contain solid state technology with no moving or mechanical parts. The units are manufactured to ISO 9002 standard and each is fully tested. Properly installed, HydroFLOW will give many years of trouble free service.

## Frequently Asked Questions about the

**HydroFLOW system** (cont.)**Does HydroFLOW protect the central heating system?**

Yes. With a traditional system,, the signal transmits through the water in the cylinder and the copper cylinder itself, via the heat exchange coil into the water inside the central heating system (primary system) - thereby protecting the boiler and other components. With a combi system, the signal transmits throughout the combi boiler into the central heating system.

**Will HydroFLOW protect the cold water going to the kitchen etc?**

Yes, HydroFLOW is not dependent on water flow, like other devices. The water does NOT have to flow past the unit to be treated. Rather than taking the water to the treatment, we are taking the treatment to the water. Our patented signal transmits along conductive materials, e.g. water or metal, and therefore throughout the whole system (primary and secondary), protecting it 24 hours a day.

**How far does the signal travel?**

In a typical domestic plumbing system, the effective treatment area is a 10-metre radius from the unit. This 10-metre zone refers to the size of the property rather than pipe lengths. HydroFLOW is certainly powerful enough to treat large properties with up to three bathrooms.

**Is an electric supply required?**

Yes, a mains supply of 230V is required to operate the unit. To comply with EEC regulations, the units are supplied with a combined three-pin plug/transformer.

**Does HydroFLOW work on plastic and lead pipes?**

Yes, the technology ensures that the unique field is induced longitudinally directly into the water, and propagates through the entire system regardless of the type of pipework material.

**Does the signal have an effect on sensitive electrical equipment?**

No, the signal is a long wave radio signal on a frequency of 120-140KHz and conforms to European Directives including the Low Voltage Directive. Therefore sensitive electrical equipment such as pacemakers will not be affected.

**Can I stop using salts in the dishwasher?**

No, we advise that dishwashers be operated precisely as recommended by the manufacturer.

**Does HydroFLOW soften the water?**

Physical water conditioners are not water softeners, and therefore do not provide chemically soft water. However, since dissolved minerals and salts in heated water are taken out of solution and clustered by the physical water conditioner, the water will become slightly softer and you will find that soap is easier to lather.

**Is HydroFLOW fully guaranteed?**

There is a three-year no quibble, money back guarantee, so you can install HydroFLOW with the utmost confidence.



# HydroFlow Systems

Water SCB = S=Scale, C=Corrosion, B=Bacteria

Model #	Description	Max. Pipe O.D (outside diameter)	Application
HS38	Household use, for pipes no greater than 1.5" Outside Diameter	1.5"	<b>Water SC</b> only Water Systems
S38	S38 = for pipes no greater than 1.5" outside diameter where the water is turned into steam	1.5"	<b>Water SC</b> only Steam
HS40	Household use, for pipes no greater than 2.5" Outside Diameter	2.5"	<b>Water SC</b> only Water Systems
J62	J62 = Household use, for indoor installation on pools and spas with pipes no greater than 2.5" Outside Diameter	2.5"	<b>Water SCB</b> Pools & Spas
J60	J60 = Household use, in the agricultural world but does work on pools and spas also, with pipes no greater than 2.375" Outside Diameter	2.375"	<b>Water SCB &amp; Algea</b> - Agricultural world, Pools & Spas
W63	W63 = for indoor installation on pools and spas with pipes no greater than 2.5" outside diameter	2.5"	<b>Water SCB</b> Pools & Spas
A45	A45 = Commercial and Industrial use, in the agricultural world but does work on pools and spas also.	1.75"	<b>Water SCB &amp; Algea</b> - Agricultural world, Pools & Spas
C45	C45 = for indoor installation on pipes no greater than 1.75" outside diameter	1.75"	<b>Water SC</b> only Water Systems
S45	S45 = for steam installation on pipes no greater than 1.75" on water lines to steam generators	1.75"	<b>Water SC</b> only Steam



<h2 style="text-align: center;">HydroFlow Systems</h2> <p style="text-align: center;">Water SCB = S=Scale, C=Corrosion, B=Bacteria</p>			
Model #	Description	Max. Pipe O.D (outside diameter)	Application
C60	Recommended for commercial and industrial applications	2.375"	<b>Water SCB</b> Pools & Spas
P60	P = pools and spas and can be installed outdoors. To be installed on pipe sizes as shown	2.375"	<b>Water SCB</b> Pools & Spas
S60	S60 = for steam installation on pipes no greater than 2.375" on water lines to steam generators	2.375"	<b>Water SC</b> only Steam
C100	Recommended for commercial and industrial applications	4.250"	<b>Water SC</b> only Water Systems
P100	P = pools and spas and can be installed outdoors. To be installed on pipe sizes as shown	4.250"	<b>Water SCB</b> Pools & Spas
S100	Recommended for commercial and industrial applications	4.250"	<b>Water SC</b> only Steam
C120	Recommended for commercial and industrial applications	5.125"	<b>Water SC</b> only Water Systems
P120	Recommended for commercial and industrial applications	5.125"	<b>Water SCB</b> Pools & Spas
S120	Recommended for commercial and industrial applications	5.125"	<b>Water SC</b> only Steam
C160	Recommended for commercial and industrial application	7.875"	<b>Water SC</b> only Water Systems
P160	Recommended for commercial and industrial applications	7.875"	<b>Water SCB</b> Pools & Spas

For pipe outside diameter bigger then 8", please contact DrB@h-e-a-t.com