



Swiss  
Aqua  
Technologies®



# IonPolarization System



# WATER

## THE BASIC SOURCE OF LIFE

*Water is not just H<sub>2</sub>O, but a living organism with its own laws that people must respect. It hides similar secrets as the blood in the human body, it fulfills functions in nature that justify talking about it as the blood of the Earth. It is a living substance that is born and continues to develop and, under normal circumstances, passes into higher forms of energy. We should allow it to move in its natural environment and to develop in it.*

– Viktor Schauberger

### Patented Technologies for Water Treatment

It might seem that we already know everything about water, but in recent decades a number of revolutionary findings have emerged that completely change the perception of water from a chemical formula to a rather living organism. These are the results of research by Professor Masaru Emoto (water perceives emotions), Gerald H. Pollack (4th state of water), Viktor Schauberger (water is a living organism), M. V. Kurik (water energy) or L. Montagnier (water has memory).








Our technologies use a tiny part of this new knowledge and we are constantly working to get to know water better and better, and we are implementing this new knowledge into future generations of our products.



*Let the Water Flow*

**Protection of your home against scale and corrosion.  
No power supply, batteries, chemicals or filters.**

IPS KalyxX uses a patented Turbulent Galvanic Polarization (TGP®) electrode to disrupt the formation of limescale crystals on water heaters, showers, thermostatic cartridges, taps, etc. In side-by-side comparison testing, IPS KalyxX was four times more effective than the leading electronic or magnetic scale devices. IPS KalyxX is easy to install and maintenance free.

IPS KalyxX		Confirmed Efficiency	Patented	NRL	Suitable for drinking water	Anti-bacterial	Water Activation
Active		90%	●	●	●	●	●
BlueLine		76%	●	●	●	●	○
RedLine		76%	●	●	●	○	○
GreenLine		76%	●	●	●	○	○
Active Industry		90%	●	●	●	●	●
BlueLine Industry		76%	●	●	●	●	○
RedLine Industry		76%	●	●	●	○	○

## Recommended water properties

Generally recommended water properties for usage with the IPS KalyxX\*:

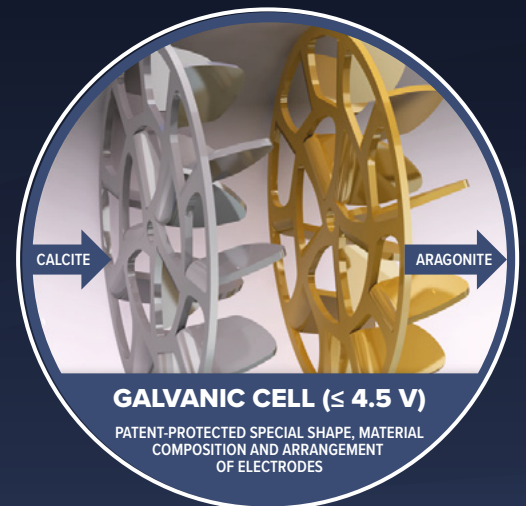
<b>PH</b>	6,5 - 8,5
<b>Iron</b>	< 0.5 mg/l
<b>Hardness</b>	< 25 °dH (4.464 mmol/l)
<b>EC</b>	< 150 ms/m
<b>TDS</b>	< 950 ppm
<b>Salinity</b>	< 2000 mg/l

In water with high level of chlorine, the lifetime of IPS technology is reduced about 50% as the chlorine is destroying IPS electrodes.

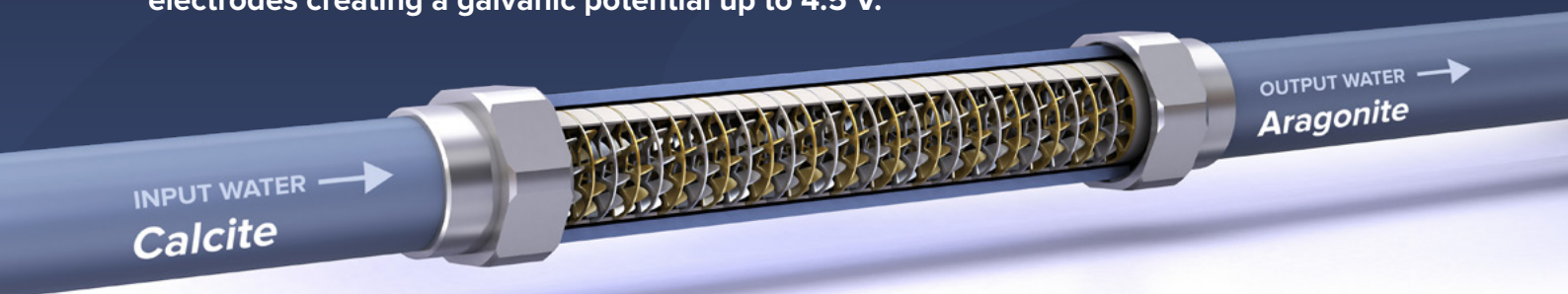
*\* In a case when water properties are different as recommended, please contact us for individual evaluation.*

# Ion Polarization System

The physical-galvanic  
water treatment



A new revolutionary system for preventing limescale and removing existing limescale from water heaters, pipes, mixers, showers and all equipment through which water flows with certified efficiency up to 76%. IPS use energy of spinning water and electrodes creating a galvanic potential up to 4.5 V.



- Changes hard calcite to soft aragonite.
- Reduces the need to de-scale tankless heaters, mixers, showers.
- Doesn't restrict household water pressure.
- Connects directly to copper, CPVC or PVC pipe.
- Adapts easily for PEX and other pipe types.
- Environmentally friendly and chemical-free.
- No electricity required.
- Easy-to-install and maintenance-free.
- Extends the life and efficiency of new and existing water heaters, mixers, showers, etc.
- Certified for long-term contact with drinking water.





# Ion Polarization System

effective protection against corrosion and scale formation

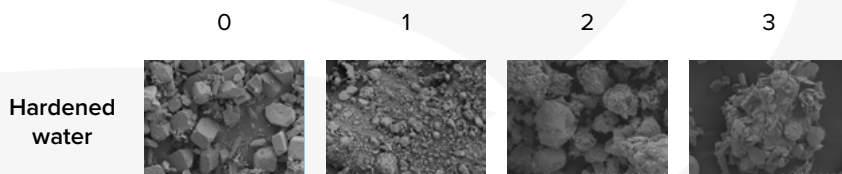
Ion Polarization System (IPS) is designed for the physical-galvanic water treatment for households, public buildings and industrial plants. IPS is suitable for new pipelines for prevention, but also for the old ones, where it gradually removes existing deposits.

## How the IPS works

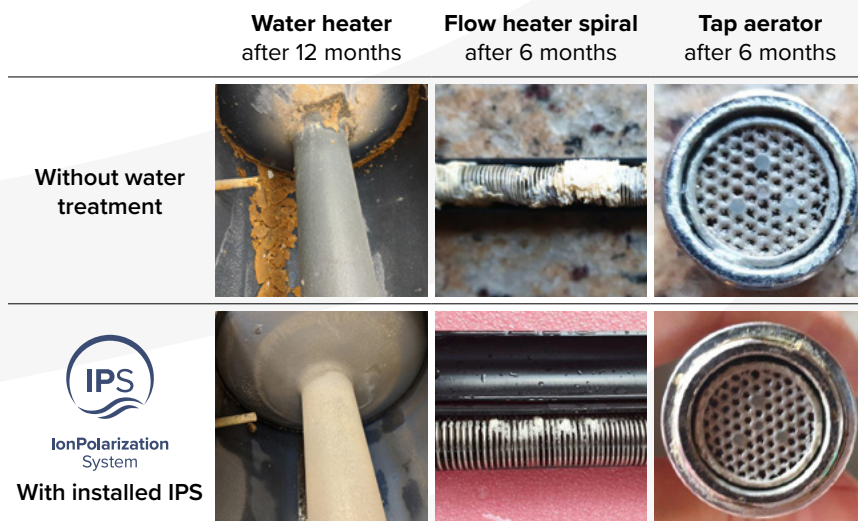
IPS effectively prevents the formation of solid sediments and corrosion in cold and hot water appliances. IPS is a flow-through body with inside placed turbine-shaped electrodes of two different electrically conductive materials. The electrode design is patent-protected (TGP® – Turbulent Galvanic Polarization) and generates a swirling water flow, causing a change in the structure of the minerals.

## Physical propensity at 50.0 µm level

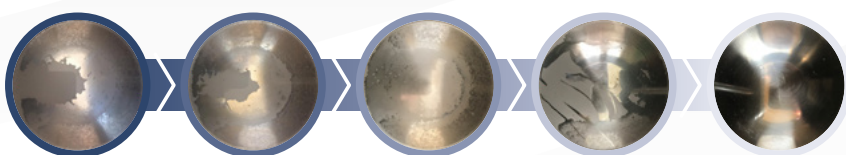
Changes in calcium carbonate crystal when using IPS (increased to 50.0 µm). Water marked 0 is without the use of IPS. Water 1, 2 and 3 flowed through the IPS. The photos show changes in the crystal structure.



## IPS efficiency comparison



## Effect of IPS on sedimentation scale in an electric kettle



Day 1 - 15: the old limescale is gradually washed away.  
Day 30: the new sedimentations are easy to wipe away.

# IPS KalyxX

your best defence against limescale

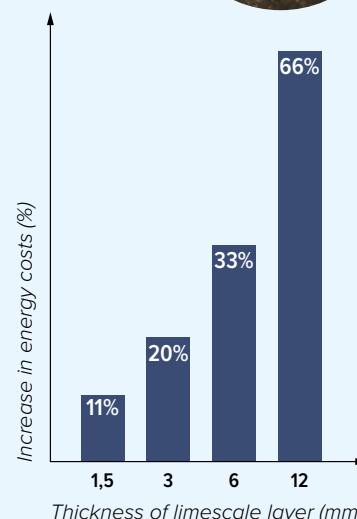
IPS Kalyxx is a flow-through body with inlet and outlet ports. Inside are placed turbine-shaped electrodes (not magnets) of two different electrically conductive materials.

IPS KalyxX is suited for both traditional tank and tankless water heaters in areas with moderate to severe hard water. It's an inexpensive way to protect their investment, easy to install, and a great value. IPS KalyxX is designed to fit directly on the male NPT/G inlet of any residential water heater. Without a IPS KalyxX installed, tankless heaters must be flushed and cleaned with chemicals every one to three years to function properly.

## What is Limescale?

When water comes from areas high in calcium or magnesium carbonate, hard water leaves mineral deposits commonly known as "lime scale" on plumbing components, mixers, showers, appliances.

Scale buildup can block pipes, thermostatic cartridges, faucet aerators, showers and cause components to fail. It's unsightly, leaves white deposits on clothes and dishes and is a constant nuisance for end-users. More significantly, scale build-up on water heater elements reduces their overall efficiency and drives up energy bills.





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# KalyxX Active



KalyxX Active is an original vortex water treatment device that creates unique properties of water by changing its structure. It is built on our Ion Polarization System supplemented with magnets that enhance the effect of the device. The confirmed effectiveness of protection against limescale reaches 90%. The device uses energy of spinning water, electrodes create a galvanic potential up to 4.5 V.

## KalyxX Active

### LIMESCALE PROTECTION

- **Changes hard calcite to soft aragonite.**
- **Reduces the need to de-scale tankless heaters, mixers, showers.**
- **Extends the life and efficiency of new and existing water appliances and devices through which water flows.**

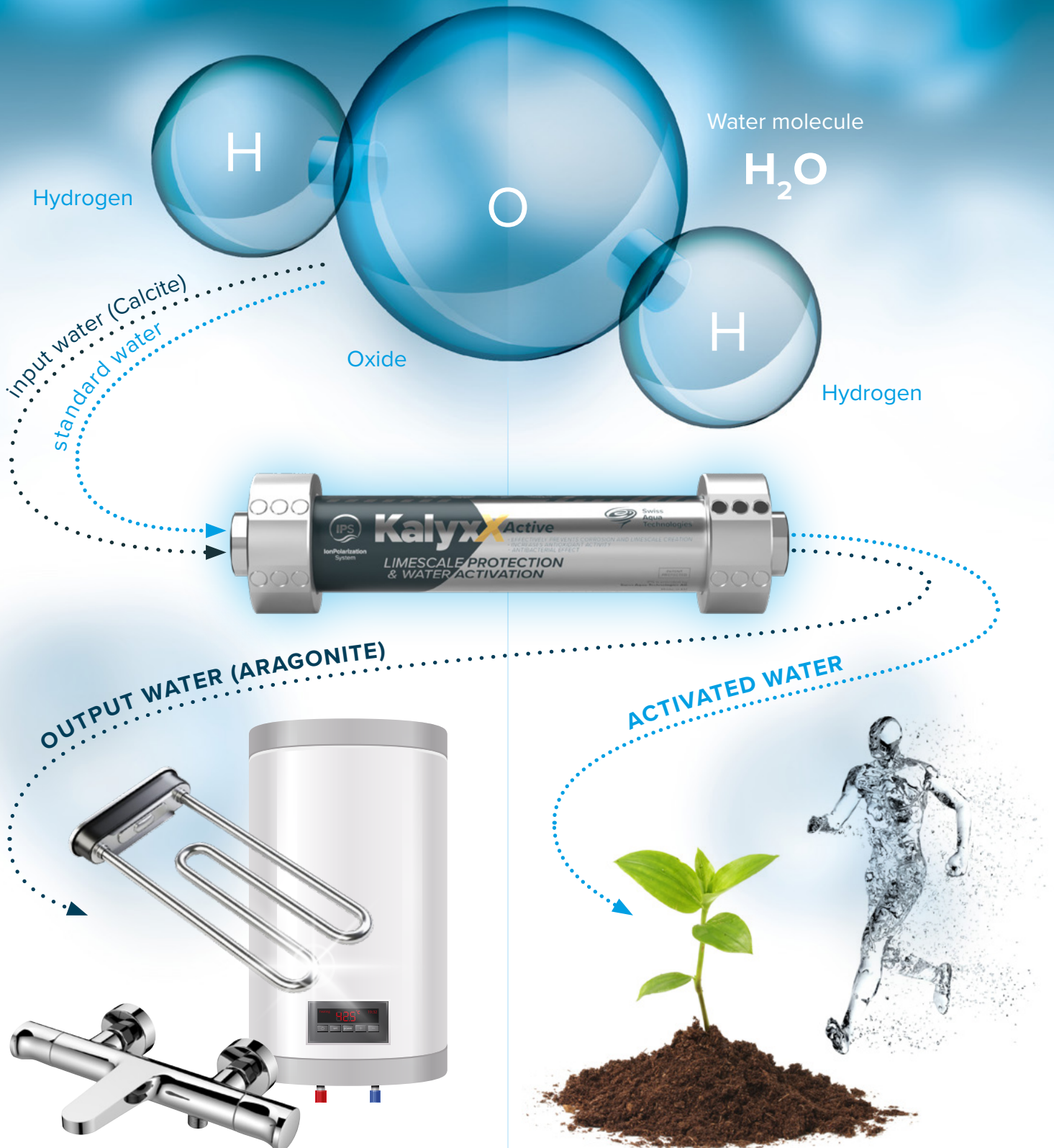
- Antibacterial effect (silver electrodes).
- Doesn't restrict household water pressure.
- Connects directly to copper, CPVC or PVC pipe.
- Adapts easily for PEX and other pipe types.
- Environmentally friendly and chemical-free.
- No electricity required.
- Easy-to-install and maintenance-free.
- Certified for long-term contact with drinking water.





## LIMESCALE PROTECTION

## WATER ACTIVATION



# KalyxX Active

## WATER ACTIVATION



The change in the scale structure is only one of the effects of water treatment in the KalyxX Active device. The flow of water through the KalyxX Active changes its energy-informational field. The result is the so-called “structured” or “activated” water. KalyxX Active water activation has been confirmed by independent laboratories:

- Slovak University of Agriculture (EU)
- Masaru Emoto's Laboratory (Japan)



### Slovak University of Agriculture

In 2021, the research team from the Slovak University of Agriculture in Nitra (Slovakia, EU) ensured several experiments with the application of activated water with the IPS system in laboratory, greenhouse and field conditions.

The measurements confirmed that the IPS device is unique and original for structuring water and creates unique properties in water.

Based on the experiments with plant species, the following effects of the action of IPS were clearly confirmed:

- **Increasing the antioxidant activity (AA) of plant parts.\***
- **Improvement of the water regime in plants – increasing tolerance against drought.**
- **Increased tolerance against biotic factors – lower presence of diseases.**
- **Shortening of the growing season.**
- **An increase in the content of cannabinoids in plant parts of hemp.**

\* Changing several important biologically active components in plants (vitamins, amino acids, flavonoids, polyphenols, polyphenolic acids and many others).



*Comparison of the tested variants with activated stable water at different pressures for the germination and emergence of spring wheat (*Triticum aestivum* L.) seeds in sand after 4 days from the start of the experiment with a weight of 10 g:*



Tap water  
(control sample).



Activated water  
at a pressure  
of 75 Pa.

*(Source: Effect of activated water by the IPS device on germination, growth, production and quality of plant biomass, Final report for research activities 2021, Nitra, Slovakia, EU, January 2022)*





## Masaru Emoto's Laboratory

Water is one of the most indispensable substances for the life of human beings. It is not enough to take in a necessary quantity of water inside of the body, but we should take the quality of water into consideration. For instance, the district where a lot of long life people lives is blessed with high quality water from natural resource. In other words, it is becoming common sense that there are a lot of correlations between the health and the quality of water which we drink every day. Today, even if the water that we drink or use does not contain any detrimental ingredient, the quality of water is not always satisfactory. It is becoming clear that the formation of water crystal reflects the quality of water.

### What does the crystal tell us?

The snow crystal has a beautiful hexagonal formation highly symmetric. The tap water gone through sterilization process by chlorine is likely to turn our more collapsed crystals and less evaluation mark than natural clean water. This may be partly explained by the influence of the chlorine residue materially.

Some researchers point out that there is a correlation between the formation of water crystal and its degree of water pollution and it can be one of the indexes of water quality in terms of the degree of pollution.

The water crystal formation reflects not only physical but informational or energetic aspect of the water.



Sample of water without treatment.



Sample of water treated by the Kalyxx Active device.

(Source: The Report of Water Crystal Experiment, Office Masaru Emoto, LLC, July 2022)

”

*"The Good Brew Kombucha Company prides itself on using the highest quality organic ingredients and the best quality water. for the past 2 years we have been brewing kombucha using Daylesford Spring Water that has gone through Kalyxx device and have noticed heightened growth of our probiotic blend.*

*The complexity and microbial diversity of our living culture has been documented in a scientific paper (see <https://www.mdpi.com/2072-6643/13/12/4446>).*

*We believe that the Kalyxx device not only reduces scale and improves plant growth, it also enhances fermentation and the growth of probiotic bacteria and will continue to use it as a 'secret sauce' in our probiotic blends."*

– **Marc Cohen**

MBBS (Hons), PhD (TCM), PhD (Elec Eng), BMed Sci (Hons), Melbourne, Australia

## Activated / Structured Water

Structured water is a dynamic state of molecular bonding and information exchange. This type of water is beneficial for human life and is in harmony with nature. When one drinks and surrounds one's environment with healthy water, health continues to improve over time. Undoubtedly, this water have the fantastic ability to make unhealthy water, drained of life force, healthy and ready to drink again in a matter of moments. Information brought to any type of water, even spring water fresh from a mountain stream, is beneficial and yet improves the oxygenation and bioavailability of the water.

### What is structured water good for?

- **Optimal Hydration**
- **Elimination Of Bacteria**
- **Enhanced Hygiene**
- **Gardening Benefits**
- **Wastewater Management**

## Masaru Emoto

Whoever begins to uncover the secret of water will soon discover the name of Masaru Emoto. This Japanese doctor of alternative medicine told the world more about the secrets of water than anyone else. He undertook extensive research into water throughout the planet and studied it from the perspective of an original thinker. He proved that water is an important carrier of information. He managed to do this by photographing a microscopic particle of water – a small water crystal that changed its structure according to the action of various external factors.

Dr. Masaru Emoto (1943 – 2014) studied water for more than twenty years. With his knowledge and enthusiasm, he taught millions of people around the world to love clean water. He is the author of numerous books and a three-volume collection of photographs of beautiful water crystals. In addition to the scientific value that photographs have, they are also a sought-after work of art.

**"There is no other substance in the world with which our well-being and health are so closely connected as with water."**

– **Masaru Emoto**

# KalyxxXActive

The original water structuring vortex device  
creates unique water properties for limescale  
protection and water activation



- Reduction of scale formation in water systems with a confirmed efficiency of 90%.
- Antibacterial effect – blocks the multiplication of Escherichia Coli bacteria.
- Water activation and optimization of its structure for a positive effect on the living organism.
- Increase in the antioxidant activity of plant parts and their resistance to drought.

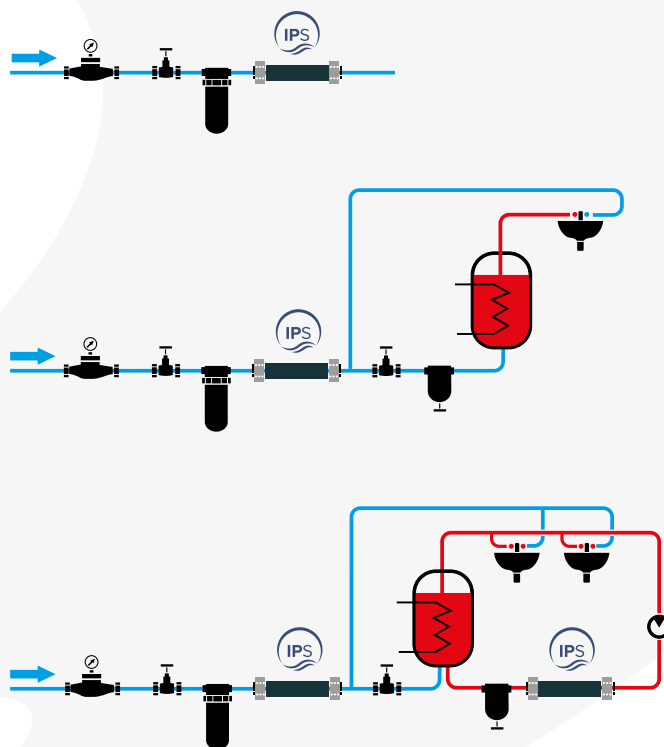


# IPS KalyxX Active

- Reduction of scale formation on water supply elements – confirmed efficiency of 90%.
- Antibacterial effect – blocks the multiplication of Escherichia Coli bacteria (thanks to silver electrodes).
- Water activation for optimal bioavailability.
- Patented technology TGP® – Turbulent Galvanic Polarization – no chemicals, no external energy.
- Suitable for cold (drinking) and hot water.
- NRL Certificate for direct permanent contact with drinking water.
- Environmentally friendly and chemical-free.
- No electricity required.
- Health safety product – each part of IPS is made from material suitable for contact with drinking water.
- Safe product – Verified Hydraulic Properties.
- Durable body (Stainless steel 1.4301) and internal parts – 2 years warranty, works at least 10 year without any maintenance.

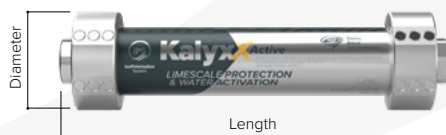
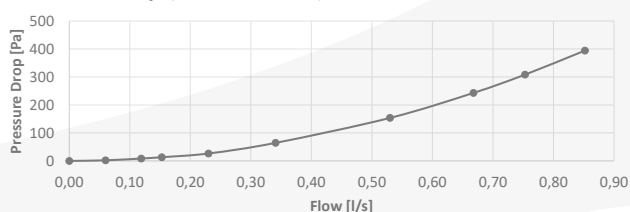
- **Connection:** Female NPT/G x Female NPT/G
- **Patented Discs Composition**
- **Maximum Flowrate:** up to 4 m<sup>3</sup>/h\*
- **Material:** Stainless Steel
- **Pipe Type:** Copper, CPVC, PVC, PEX, Steel
- **Maximum Pressure Drops:** 43 Pa – 692 Pa\*
- **Operating Temperature (inlet):** 0 °C to 85 °C  
(Optimal temperature for maximum efficiency Min/Max (inlet): 0 °C to 60 °C)

\* depends on model



## Pressure

$$\Delta p = (536,3 * Flow[l/s]^2) + 5,9995 * Flow[l/s]$$



## Technical parameters

IPS KalyxX	Connection	Diameter (mm)	Length (mm)	Weight (kg)	Max Pressure (Bar / MPa)	Max Flow (m <sup>3</sup> / hour)	Pressure Drop at Max Flow (mBar / Pa)
<b>Active 1/2"</b>	G 1/2" (female)	71	274	1,95	10 / 1	1	0,4405 / 44,05
<b>Active 3/4"</b>	G 3/4" (female)	71	274	1,91	10 / 1	3,2	4,29 / 429,08
<b>Active 1"</b>	G 1" (female)	71	274	1,86	10 / 1	4	6,68 / 668,76

# KalyxX

## BLUE LINE

Reduction of limescale formation  
with efficiency up to 76%  
+ antibacterial effect



**IPS KalyxX protects your home from limescale buildup.**  
**It requires no power supply, batteries, chemicals or filters.**

IPS KalyxX uses a patented Turbulent Galvanic Polarization (TGP®) electrode to disrupt the formation of limescale crystals on water heaters, showers, thermostatic cartridges, taps, etc. In side-by-side comparison testing, IPS KalyxX was four times more effective than the leading electronic or magnetic scale devices. IPS KalyxX is easy to install and maintenance free.

- **Connection:** Female NPT/G x Female NPT/G
- **Patented Discs Composition**
- **Maximum Flowrate:** up to 7 m<sup>3</sup>/h\*
- **Material:** Stainless Steel
- **Pipe Type:** Copper, CPVC, PVC, PEX
- **Maximum Pressure Drops:** 43 Pa – 692 Pa\*
- **Operating Temperature (inlet):** 0 °C to 95 °C  
(Optimal temperature for maximum efficiency Min/Max (inlet): 0 °C to 60 °C)

\* depends on model

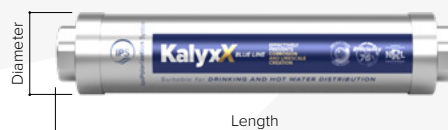
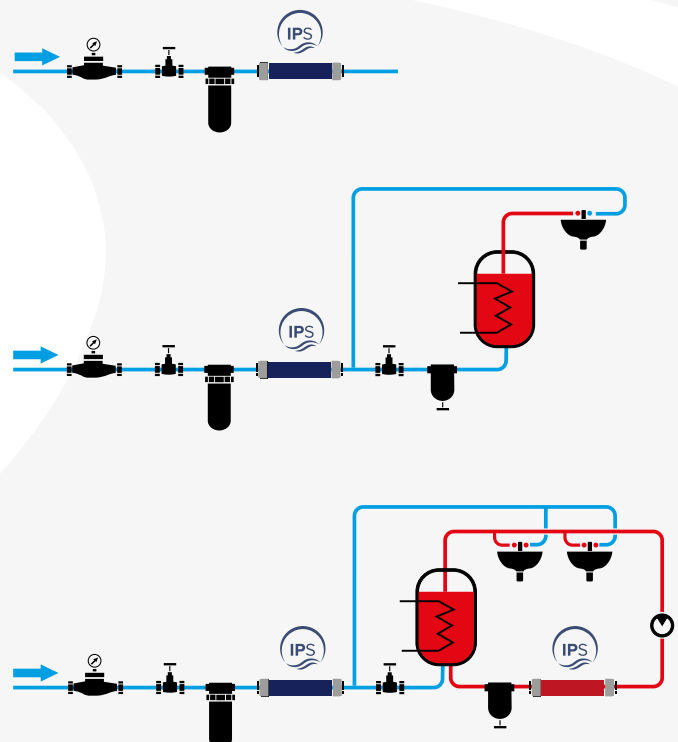
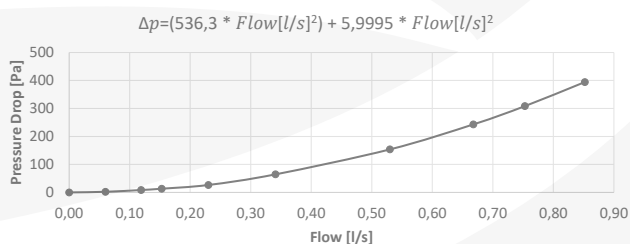
PATENT  
PROTECTED



# IPS KalyxX BlueLine

- Reduces creation of Limescale on water supply elements (pipework, valves, taps, shower heads, waterheating coils of home appliances) – efficiency of 76%.
- Reduce the amount of Escheria Coli bacteria up to 40% (thanks to silver electrodes).
- New Patented technology TGP® – Turbulent Galvanic Polarisation – no chemicals, no external energy.
- Suitable for cold (drinking) and hot water.
- NRL Certificate for direct permanent contact with drinking water.
- Health safety product – each part of IPS is made from material suitable for contact with drinking water.
- Safe product – Verified Hydraulic Properties.
- TSU test report about Presure drop, Pressure resistance and Strength.
- Durable body (Stainless steel 1.4301) and internal parts – 2 years warranty, works at least 10 year without any maintenance.

## Pressure loss IPS KalyxX BlueLine



## Technical parameters

IPS KalyxX	Connection	Diameter (mm)	Length (mm)	Weight (g)	Max Pressure (Bar / MPa)	Max Flow (m³/hour)	Pressure Drop at Max Flow (mBar / Pa)
<b>BlueLine 1/2"</b> IPSKXBG12	G 1/2" (female)	Ø50	245	910	10 / 1	1	0,4405 / 43,05
<b>BlueLine 3/4"</b> IPSKXBG34	G 3/4" (female)	Ø50	245	890	10 / 1	3,2	4,29 / 429,08
<b>BlueLine 1"</b> IPSKXBG1	G 1" (female)	Ø50	251	930	10 / 1	4	6,68 / 668,76
<b>BlueLine 5/4"</b> IPSKXBG54	G 5/4" (female)	Ø50	480	2 400	10 / 1	5	13,36 / 1 337,52
<b>BlueLine 6/4"</b> IPSKXBG64	G 6/4" (female)	Ø50	480	2 500	10 / 1	7	13,36 / 1 337,52

# KalyxX

## RED LINE

**Reduction of limescale formation  
with efficiency up to 76%**



**IPS KalyxX protects your home from limescale buildup.  
It requires no power supply, batteries, chemicals or filters.**

IPS KalyxX uses a patented Turbulent Galvanic Polarization (TGP®) electrode to disrupt the formation of limescale crystals on water heaters, showers, thermostatic cartridges, taps, etc. In side-by-side comparison testing, IPS KalyxX was four times more effective than the leading electronic or magnetic scale devices. IPS KalyxX is easy to install and maintenance free.

- **Connection:** Female NPT/G x Female NPT/G
- **Patented Discs Composition**
- **Maximum Flowrate:** up to 7 m<sup>3</sup>/h\*
- **Material:** Stainless Steel
- **Pipe Type:** Copper, CPVC, PVC, PEX
- **Maximum Pressure Drops:** 43 Pa – 692 Pa\*
- **Operating Temperature (inlet):** 0 °C to 95 °C  
(Optimal temperature for maximum efficiency Min/Max (inlet): 0 °C to 60 °C)

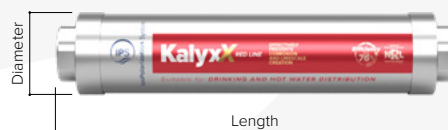
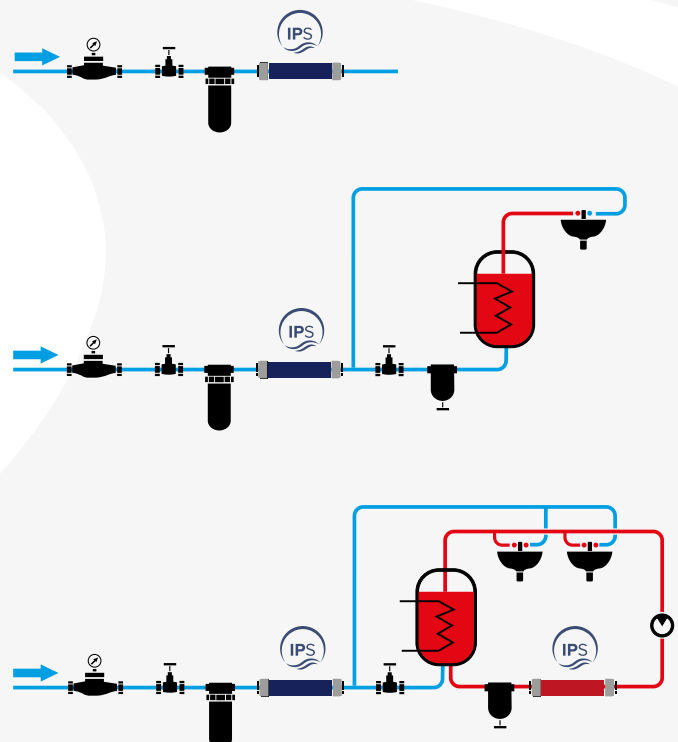
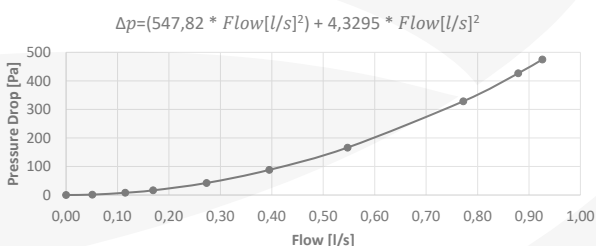
\* depends on model



# IPS KalyxX RedLine

- Reduces creation of limescale on water supply elements (pipework, valves, taps, shower heads, waterheating coils of home appliances) – efficiency of 76%.
- New Patented technology TGP® – Turbulent Galvanic Polarisation – no chemicals, no external energy.
- Suitable for cold (drinking) and hot water.
- NRL Certificate for direct permanent contact with drinking water.
- Health safety product – each part of IPS is made from material suitable for contact with drinking water.
- Safe product – Verified Hydraulic Properties.
- TSU test report about Pressure drop, Pressure resistance and Strength.
- Durable body (Stainless steel 1.4301) and internal parts – 2 years warranty, works at least 10 year without any maintenance.

## Pressure loss IPS KalyxX RedLine



## Technical parameters

IPS KalyxX	Connection	Diameter (mm)	Length (mm)	Weight (g)	Max Pressure (Bar / MPa)	Max Flow (m³/hour)	Pressure Drop at Max Flow (mBar / Pa)
<b>RedLine 1/2"</b> IPSKXRG12	G 1/2" (female)	Ø50	245	910	10 / 1	1	0,4416 / 44,16
<b>RedLine 3/4"</b> IPSKXRG34	G 3/4" (female)	Ø50	245	890	10 / 1	3,2	4,38 / 437,78
<b>RedLine 1"</b> IPSKXRG1	G 1" (female)	Ø50	251	930	10 / 1	4	6,92 / 692,03
<b>RedLine 5/4"</b> IPSKXRG54	G 5/4" (female)	Ø50	480	2 400	10 / 1	5	13,84 / 1 384,06
<b>RedLine 6/4"</b> IPSKXRG64	G 6/4" (female)	Ø50	480	2 500	10 / 1	7	13,84 / 1 384,06

# KalyxX

## GREEN LINE

Designed for irrigation systems  
and technologies



**IPS KalyxX protects your home from limescale buildup.  
It requires no power supply, batteries, chemicals or filters.**

IPS KalyxX uses a patented Turbulent Galvanic Polarization (TGP®) electrode to disrupt the formation of limescale crystals on water heaters, showers, thermostatic cartridges, taps, etc. In side-by-side comparison testing, IPS KalyxX was four times more effective than the leading electronic or magnetic scale devices. IPS KalyxX is easy to install and maintenance free.

- **Connection:** Female NPT/G x Female NPT/G or Female NPT/G x Garden hose quick connector
- **Patented Discs Composition**
- **Maximum Flowrate:** up to 4 m<sup>3</sup>/h\*
- **Material:** Stainless Steel
- **Pipe Type:** Copper, CPVC, PVC, PEX
- **Maximum Pressure Drops:** 43 Pa – 692 Pa\*
- **Operating Temperature (inlet):** 0 °C to 35 °C  
(Optimal temperature for maximum efficiency Min/Max (inlet): 0 °C to 60 °C)

\* depends on model

PATENT  
PROTECTED



# IPS KalyxX GreenLine

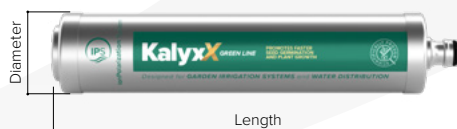
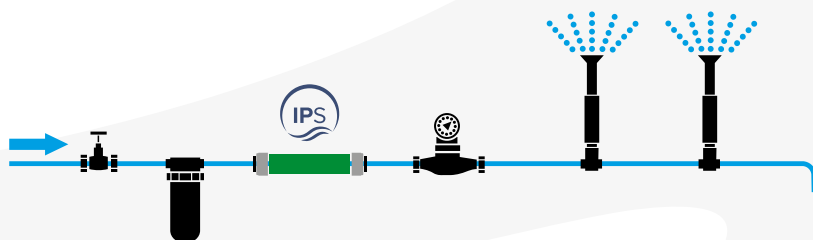
- Reduces scale formation in irrigation systems and water distribution – efficiency up to 76%.
- Reduces traces of dried minerals after washing cars or other equipment.
- New Patented technology TGP® – Turbulent Galvanic Polarisation – no chemicals, no external energy.
- Safe product – proven hydraulic properties.
- Protocol TSU on pressure drop, pressure resistance and strength.
- Durable body (stainless steel 1.4301) and internal components.
- 2-year warranty, life time for at least 10 years.
- No maintenance or filter replacement required.
- Designed for garden irrigation systems and water distribution.
- Suitable for gardens, public parks, football turf, golf courses, hydroponics, growing fruits and vegetables, watering animals.



*Garden grill washed without IPS KalyxX GreenLine.*



*Garden grill washed with IPS KalyxX GreenLine.*



## Technical parameters

IPS KalyxX	Connection	Diameter (mm)	Length (mm)	Weight (g)	Max Pressure (Bar / MPa)	Max Flow (m <sup>3</sup> /hour)	Pressure Drop at Max Flow (mBar / Pa)
<b>GreenLine3/4"</b> IPSKXGG34	G 3/4" (female) Garden Hose Quick Connector	Ø50	255	830	10 / 1	1,5	0,3 / 30

# KalyxX<sup>Active</sup> INDUSTRY

Reduction of limescale formation  
for use in systems with higher water flow  
with additional magnetic field effects



**IPS KalyxX protects your home from limescale buildup.  
It requires no power supply, batteries, chemicals or filters.**

IPS KalyxX uses a patented Turbulent Galvanic Polarization (TGP®) electrode to disrupt the formation of limescale crystals on water heaters, showers, thermostatic cartridges, taps, etc. In side-by-side comparison testing, IPS KalyxX was four times more effective than the leading electronic or magnetic scale devices. IPS KalyxX is easy to install and maintenance free.



# IPS KalyxX Active Industry

The use of IPS Industry is effective and suitable in any running water plant. Washing lines, restaurants, canteens, bakeries, laundries, hairdressers, dry cleaners, swimming pools, dairies, breweries, distilleries, gardening, irrigation systems and much more. It also works reliably in heat exchangers, water systems, boilers, condensers, generators, heating systems, compressor rooms, refrigeration and air conditioning equipment.

- Solution for apartment buildings and buildings with higher hourly flow.
- Suitable for direct water-to-water heat pump circuit with high output, for stabilization of wastewater purifier at values guaranteed by the producer.
- Installation at the entrance to the building.
- Cold water supply pipes for central heating at transfer stations and boiler rooms.
- Prevent clogging of plate heat exchangers and stabilize specific heat demand for hot water.
- Stabilization of point corrosion of storage heaters.



## Technical parameters

IPS KalyxX	Connection	Diameter (mm)	Length (mm)	Weight (kg)	Max Pressure (Bar / MPa)	Max. Flow (m³/hour)
<b>Active Industry DN 40</b> IPSINADN40P	flange	150	536	10	10 / 1	8
<b>Active 6/4" RP 64</b> IPSINADN40	thread	114,3	506	6,5	10 / 1	8
<b>Active DN 50</b> IPSINADN50P	flange	165	660	12	10 / 1	12
<b>Active 2" RP 2</b> IPSINADN50	thread	114,3	640	6,5	10 / 1	12
<b>Active DN 65</b> IPSINADN65P	flange	185	605	18	10 / 1	16
<b>Active DN 80</b> IPSINADN80P	flange	200	615	23	10 / 1	24
<b>Active DN 100</b> IPSINADN100P	flange	220	635	37	10 / 1	36
<b>Active DN 125</b> IPSINADN125P	flange	250	955	54	10 / 1	54

# KalyxX

## INDUSTRY

Reduction of limescale formation  
for use in systems with higher water flow



**IPS KalyxX protects your home from limescale buildup.  
It requires no power supply, batteries, chemicals or filters.**

IPS KalyxX uses a patented Turbulent Galvanic Polarization (TGP®) electrode to disrupt the formation of limescale crystals on water heaters, showers, thermostatic cartridges, taps, etc. In side-by-side comparison testing, IPS KalyxX was four times more effective than the leading electronic or magnetic scale devices. IPS KalyxX is easy to install and maintenance free.

# IPS KalyxX Industry

The use of IPS Industry is effective and suitable in any running water plant. Washing lines, restaurants, canteens, bakeries, laundries, hairdressers, dry cleaners, swimming pools, dairies, breweries, distilleries, gardening, irrigation systems and much more. It also works reliably in heat exchangers, water systems, boilers, condensers, generators, heating systems, compressor rooms, refrigeration and air conditioning equipment.

- Solution for apartment buildings and buildings with higher hourly flow.
- Suitable for direct water-to-water heat pump circuit with high output, for stabilization of wastewater purifier at values guaranteed by the producer.
- Installation at the entrance to the building.
- Cold water supply pipes for central heating at transfer stations and boiler rooms.
- Prevent clogging of plate heat exchangers and stabilize specific heat demand for hot water.
- Stabilization of point corrosion of storage heaters.



IPS KalyxX Industry RP



IPS KalyxX Industry DN



## Technical parameters

IPS KalyxX Model RedLine / BlueLine	Connection	Diameter (mm)	Length (mm)	Weight (kg)	Max Pressure (Bar / MPa)	Max. Flow (m³/hour)
<b>Industry DN 40</b> IPSINRDN40P / IPSINBDN40P	flange	150	530	8,3	10 / 1	8
<b>Industry 6/4" RP 64</b> IPSINRDN40 / IPSINBDN40	thread	114,3	506	4,9	10 / 1	8
<b>Industry DN 50</b> IPSINRDN50P / IPSINBDN50P	flange	165	656	11	10 / 1	12
<b>Industry 2" RP 2</b> IPSINRDN50 / IPSINBDN50	thread	114,3	640	5,7	10 / 1	12
<b>Industry DN 65</b> IPSINRDN65P / IPSINBDN65P	flange	185	590	15,3	10 / 1	16
<b>Industry DN 80</b> IPSINRDN80P / IPSINBDN80P	flange	200	607	19,5	10 / 1	24
<b>Industry DN 100</b> IPSINRDN100P / IPSINBDN100P	flange	220	635	32	10 / 1	36
<b>Industry DN 125</b> IPSINRDN125P / IPSINBDN125P	flange	250	955	48,5	10 / 1	54
<b>Industry DN 150</b> IPSINDN150	flange	285	460	30	10 / 1	100





Swiss  
Aqua  
Technologies®

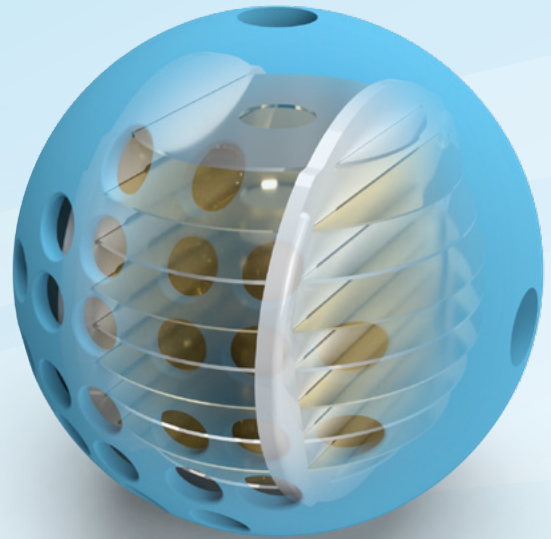


IonPolarization  
System

# IPS WashBall

Effectively prevents corrosion  
and limescale creation

- Protects appliances from limescale.
- Easy to use, no chemical softeners.
- No maintenance required.



- **LIMESCALE PROTECTION**
- **WATER SAVING**
- **HIGHER WASHING EFFICIENCY**
- **MONEY SAVING**
- **ENVIRONMENT FRIENDLY**

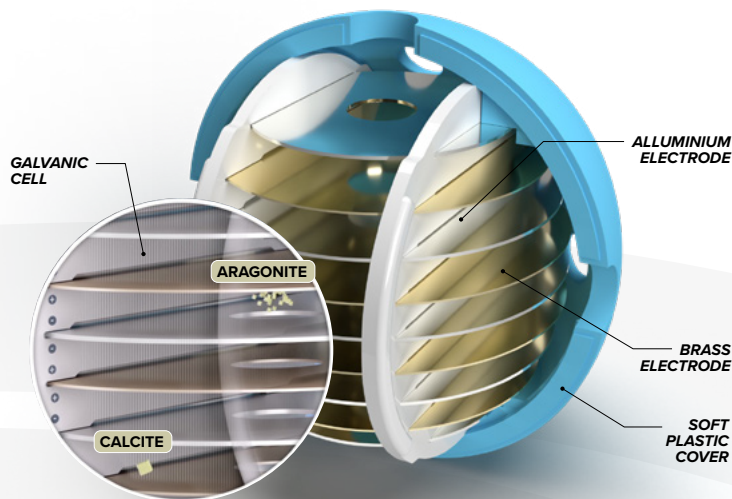
- For use in:
- **WASHING MACHINES**
  - **DISHWASHERS**
  - **TOILET TANKS**



PATENT  
PROTECTED

# IPS WashBall

IPS effectively prevents the formation of solid sediments and corrosion in cold and hot water appliances. IPS WashBall is a flow-through body with inside placed turbine-shaped electrodes of two different electrically conductive materials. The electrode design is patent-protected (TGP® - turbulent galvanic polarization) and generates a swirling water flow, causing a change in the structure of the minerals.



Our patented technology TGP® (Turbulent Galvanic Polarization) used in IPS WashBall transforms limescale structures from CALCITE to ARAGONITE. The scale does not settle but washes away.

## Higher Washing Efficiency

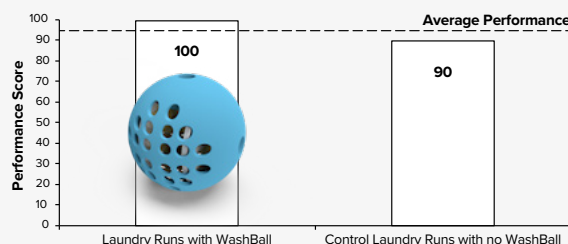
It is proven with our internal tests and also by independent test (Clearview-USA) that washball has positive effects on Higher Washing Efficiency. During our test of Cotton /40°C/60ml washing gel we reach such a result.

- 100 % of tests were with the same or better results with using of WashBall.
- Average washing performance when using WashBall is 3,67% higher; highest efficiency achieved by black tea, the washing performance with WashBall was about 36,79% higher.
- If WashBall is used in standard washing, the effectiveness of the washing effect is usually increased (dependent on kind of contamination).
- The effect of using WashBall can be clearly recommended without negative side effects.



## Benchmark Results

IPS WashBall Results, December 10, 2019



CTQ Metric Metric Weighting Which is Better?	Soil Removal Performance					
	20%	20%	20%	20%	20%	0%
	Higher	Higher	Higher	Higher	Higher	Data
Sample	Soil Removal - Red Wine (% Cleaning Eff.)	Soil Removal - Cocoa (% Cleaning Eff.)	Soil Removal - Blood (% Cleaning Eff.)	Soil Removal - Carbon (% Cleaning Eff.)	Soil Removal - Sebum (% Cleaning Eff.)	Soil Removal - Control (% Cleaning Eff.)
Control Laundry Runs with no WashBall	34%	20%	17%	13%	35%	100%
Laundry Runs with WashBall	34%	26%	19%	15%	38%	100%
Metric Average	34%	23%	18%	14%	36%	100%
Sample Size	3 Loads - 4 Samples per Load	3 Loads - 4 Samples per Load	3 Loads - 4 Samples per Load	3 Loads - 4 Samples per Load	3 Loads - 4 Samples per Load	3 Loads - 4 Samples per Load

Best Performer per test

## Amazon customer review



Client d'Amazon

★★★★★ Super produit

Commenté en France le 27 mai 2021

Achat vérifié

J'ai une eau très dure.

Et les photos parlent d'elles-mêmes.

Je suis très écolo dans ma machine, je ne mets qu'une lessive que je fais et du vinaigre, mais ma machine était toujours pleine de tartre.

En 3 machines avec la boule, le résultat est vraiment visible.

Je suis très satisfaite 😊😊😊😊😊😊😊😊😊😊





# Examples of IPS KalyxX installations



ScaleRX Industry  
USA



KalyxX Active  
Chile



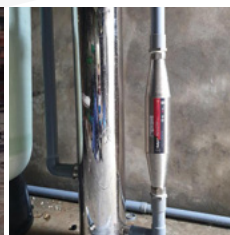
KalyxX Industry  
India



KalyxX RedLine  
Thailand



KalyxX Industry  
Vietnam



KalyxX Industry  
Vietnam



KalyxX Industry  
Greece



FlowX BlueLine  
Thailand



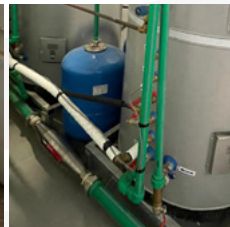
FlowX Industry  
Thailand



KalyxX Active  
Cyprus



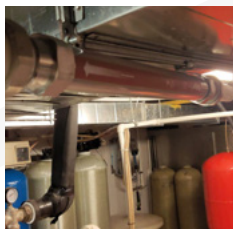
KalyxX Active  
Cyprus



KalyxX Industry  
Cyprus



KalyxX Industry  
Cyprus



KalyxX RedLine  
Turkey



KalyxX Active  
Dominican Republic



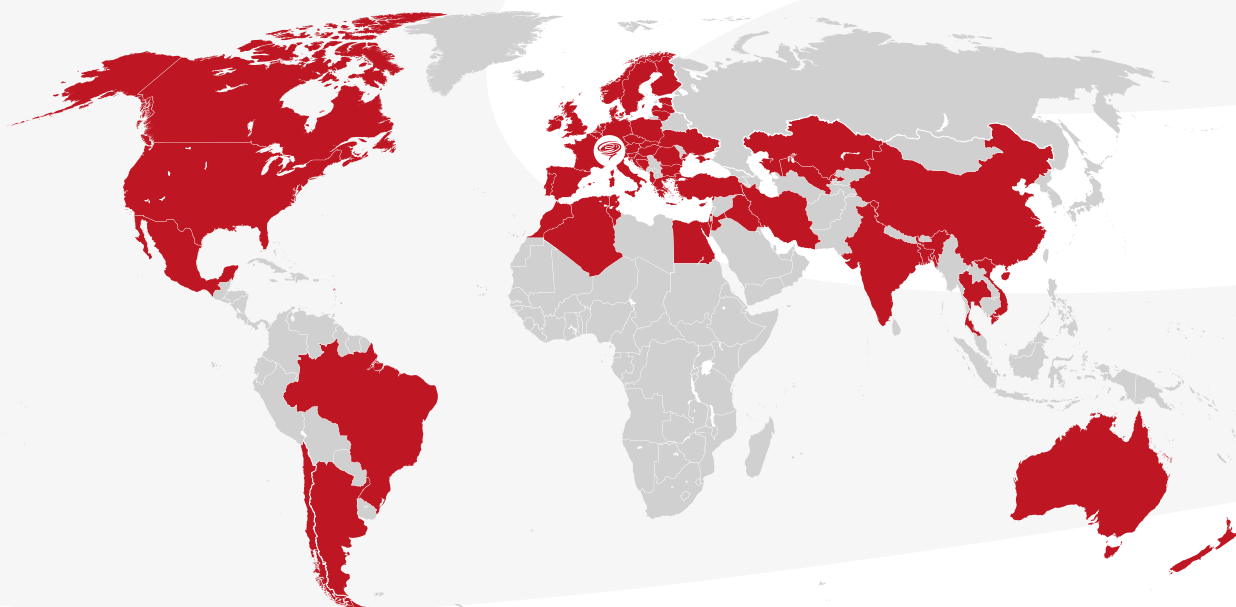
KalyxX Industry  
Dominican Republic



KalyxX Industry  
Czechia



KalyxX Industry  
Slovakia



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