

CATALOG 2024

BIOTECOTM

ENVIRONMENTAL TECHNOLOGIES

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PATENTED TECHNOLOGIES
FOR WATER TREATMENT AND SAVING



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IPS KalyxxX

ACTIVE

The original vortex structuring device water with unique effects for protection against limescale and water activation



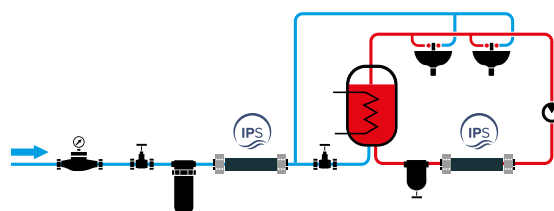
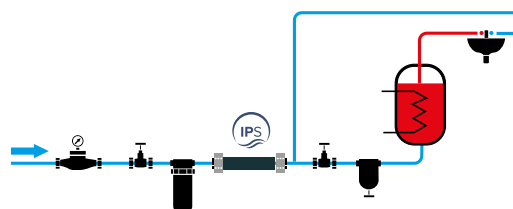
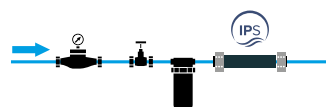
Reduction of the formation of water scale in water supply systems with confirmation with an efficiency of 90%. Antibacterial effect – elimination of the reproduction of Escherichia bacteria Coli.

Activation of water and optimization of its structure for a positive effect on the living organism. Increasing the antioxidant activity of plant parts and their resistance to drought.

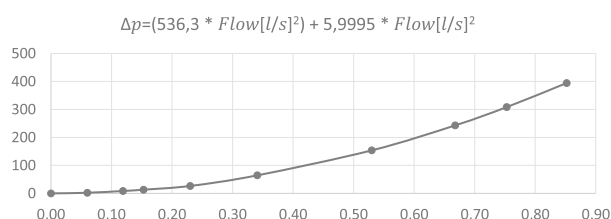
- ✦ **Connection:** Internal thread NPT/G x Internal thread NPT/G
- ✦ **Patented electrode system**
- ✦ **Maximum flow rate:** up to 4 m³/h*
- ✦ **Body material:** stainless steel
- ✦ **Pipe type:** copper, CPVC, PVC, PEX
- ✦ **Maximum pressure losses:** 43 Pa – 692 Pa*
- ✦ **Operating temperature (input):** 0°C to 85°C
(Optimal temperature to achieve maximum efficiency Min/Max (at input): 0 °C to 60 °C)

* depending on the model

- ♦ Reduction of scale formation on water pipes elements - confirmed operation of 90%.
- ♦ Antibacterial effect – blocks the multiplication of bacteria Escherichia Coli (thanks to silver electrodes).
- ♦ Water activation for optimal bioavailability.
- ♦ Patented technology TGP® - Turbulent galvanic polarization - no chemicals, none external energy.
- ♦ Suitable for cold (drinking) and hot water.
- ♦ NRL Certificate for Direct Permanent Contact with drinking water.
- ♦ Environmentally friendly and without chemicals.
- ♦ No electricity is required.
- ♦ A product that is harmless to health - every part of IPS is made of material suitable for contact with drinking water by water.
- ♦ Safe product - proven hydraulic properties.
- ♦ Durable body (stainless steel 1.4301) and internal parts - 2-year warranty, works for at least 10 years without maintenance.



PRESSURE LOSSES IPS KALYXX ACTIVE



SPECIFICATIONS

Model	Connection	Diameter (mm)	Length (mm)	Weight (kg)	Max. pressure (Bar / MPa)	Max. flow rate (m³ / hour)	Pressure at max. flow rate (mBar / Pa)
Kalyxx Active 1/2" IPSKXAG12	G 1/2" (female)	71	274	1,95	10 / 1	1	0,4405 / 44,05
Kalyxx Active 3/4" IPSKXAG34	G 3/4" (female)	71	274	1,91	10 / 1	3,2	4,29 / 429,08
Kalyxx Active 1" IPSKXAG1	G 1" (female)	71	274	1,86	10 / 1	4	6,68 / 668,76

IPS KalyxX

BLUE LINE

Reduction of scale formation
and with an efficiency of up to 76%
+ antibacterial effect



K
BIO
ENVIRONMENT
TECHNOLOGY



IPS KalyxX protects your devices from accumulation of water stone and maintains it in efficient operation. It does not require power supply, batteries, chemicals or filters.

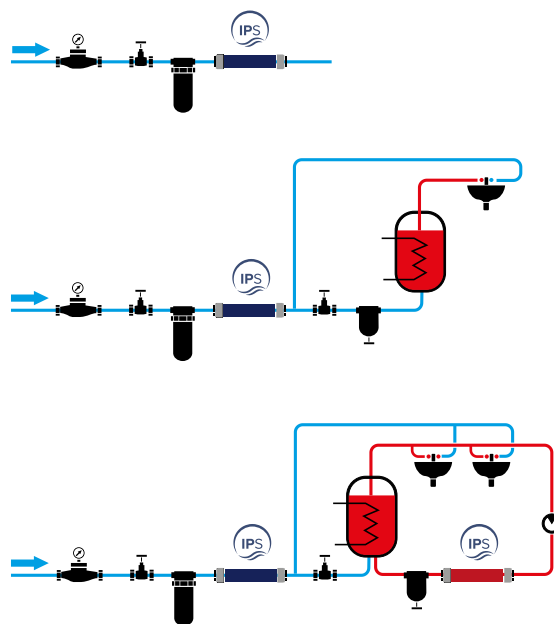
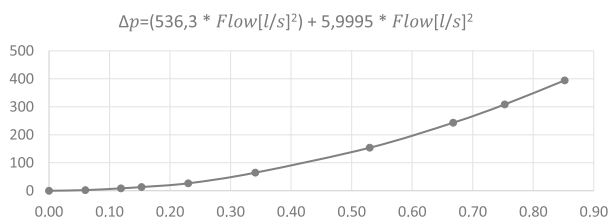
IPS KalyxX uses a patented system electród Turbulent Galvanic Polarization (TGP®) to disrupt crystal formation water scale on the heating elements water. In comparative testing, it was IPS KalyxX is four times more effective than the leader electronic devices for removal water stone. IPS KalyxX can installs and requires no maintenance.

- ✦ **Connection:** Internal thread NPT/G x Internal thread NPT/G
- ✦ **Patented electrode system**
- ✦ **Maximum flow rate:** up to 7 m³/h*
- ✦ **Body material:** stainless steel
- ✦ **Pipe type:** copper, CPVC, PVC, PEX
- ✦ **Maximum pressure losses:** 43 Pa – 692 Pa*
- ✦ **Operating temperature (input):** 0 °C to 85 °C
(Optimal temperature to achieve maximum efficiency Min/Max (at input): 0 °C to 60 °C)

* depending on the model

- It reduces the formation of scale on water pipes elements (pipes, valves, faucets, shower heads, household water heaters) – efficiency 76%.
- Antibacterial effect - blocks the reproduction of bacteria Escherichia Coli (thanks to silver electrodes).
- New patented technology TGP - Turbulent galvanic polarization - no chemicals, none external energy
- Suitable for cold (drinking) water and warm water
- NRL certificate for direct permanent contact with drinking water by water.
- A health protection product - every part of IPS is made of material suitable for contact with drinking water
- Safe product - proven hydraulic properties
- TUS protocol on pressure drop, pressure resistance and fortress
- Durable body (stainless steel 1.4301) and internal parts - warranty 2 years, service life at least 10 years without any maintenance.

PRESSURE COURSE IPS KALYXX BLUELINE



SPECIFICATIONS

Model IPS Kalyxx	Connection	Diameter (mm)	Length (mm)	Weight (g)	Max. pressure (Bar / MPa)	Max. flow rate (m³ / hour)	Pressure at max. flow rate (mBar / Pa)
BlueLine 1/2" IPSKXBG12	G 1/2" (female)	Ø50	245	910	10 / 1	1	0,4405 / 43,05
BlueLine 3/4" IPSKXBG34	G 3/4" (female)	Ø50	245	890	10 / 1	3,2	4,29 / 429,08
BlueLine 1" IPSKXBG1	G 1" (female)	Ø50	251	930	10 / 1	4	6,68 / 668,76
BlueLine 5/4" IPSKXBG54	G 5/4" (female)	Ø50	480	2 400	10 / 1	5	13,36 / 1337,52
BlueLine 6/4" IPSKXBG64	G 6/4" (female)	Ø50	480	2 500	10 / 1	7	13,36 / 1337,52

IPS KalyxX

RED LINE

Reduction of scale formation
with an efficiency of up to 76%



KALYX
BIOTECHNOLOGY
ENVIRONMENT
TECHNOLOGY

IPS KalyxX protects your devices from accumulation of water stone and maintains it in efficient operation. It does not require power supply, batteries, chemicals or filters.

IPS KalyxX uses a patented system electród Turbulent Galvanic Polarization (TGP®) to disrupt crystal formation water scale on the heating elements water. In comparative testing, it was IPS KalyxX is four times more effective than the leader electronic devices for removal water stone. IPS KalyxX can installs and requires no maintenance.

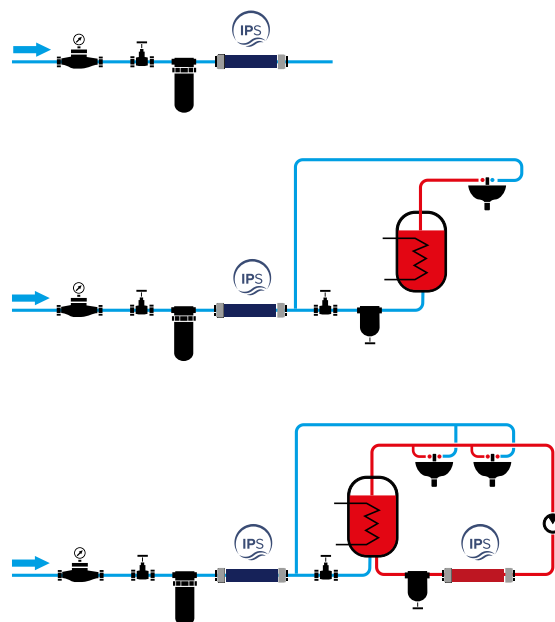
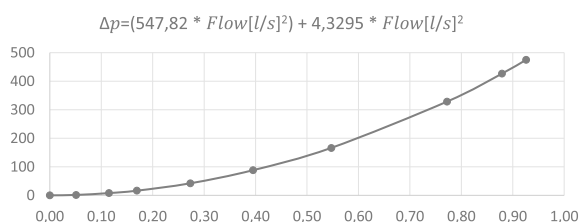
- ✦ **Connection:** Internal thread NPT/G x Internal thread NPT/G
- ✦ **Patented electrode system**
- ✦ **Maximum flow rate:** up to 7 m³/h*
- ✦ **Body material:** stainless steel
- ✦ **Pipe type:** copper, CPVC, PVC, PEX
- ✦ **Maximum pressure losses:** 43 Pa – 692 Pa*
- ✦ **Operating temperature (input):** 0 °C to 85 °C
(Optimal temperature to achieve maximum efficiency Min/Max (at input): 0 °C to 60 °C)

* depending on the model

- It reduces the formation of scale on water pipes elements (pipes, valves, faucets, shower heads, household water heaters) – efficiency 76%.
- New patented technology TGP - Turbulent galvanic polarization - no chemicals, none external energy
- Suitable for cold (drinking) water and warm water
- NRL certificate for direct permanent contact with drinking water by water.
- A health protection product - every part of IPS is made of material suitable for contact with drinking water

- Safe product - proven hydraulic properties
- TUS protocol on pressure drop, pressure resistance and fortress.
- Durable body (stainless steel 1.4301) and internal parts - warranty 2 years, service life at least 10 years without any maintenance.

PRESSURE COURSE IPS KALYXX REDLINE



SPECIFICATIONS

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

IPS KalyxX

GREEN LINE

Effective protection against limescale
for irrigation systems and technology



IPS KalyxX protects your devices from accumulation of water stone and maintains it in efficient operation. It does not require power supply, batteries, chemicals or filters.

IPS KalyxX uses a patented system electród Turbulent Galvanic Polarization (TGP®) to disrupt crystal formation water scale on the heating elements water. In comparative testing, it was IPS KalyxX is four times more effective than the leader electronic devices for removal water stone. IPS KalyxX can installs and requires no maintenance.

- ✦ **Connection:** Internal thread NPT/G x Internal thread NPT/G or NPT/G female thread x Garden hose quick coupler
- ✦ **Patented electrode system**
- ✦ **Maximum flow rate:** up to 4 m³/h*
- ✦ **Body material:** stainless steel
- ✦ **Pipe type:** copper, CPVC, PVC, PEX
- ✦ **Maximum pressure losses:** 43 Pa – 692 Pa*
- ✦ **Operating temperature (input):** 0 °C to 35 °C (Optimal temperature to achieve maximum efficiency Min/Max (at input): 0 °C to 60 °C)

* depending on the model

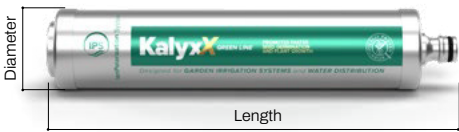
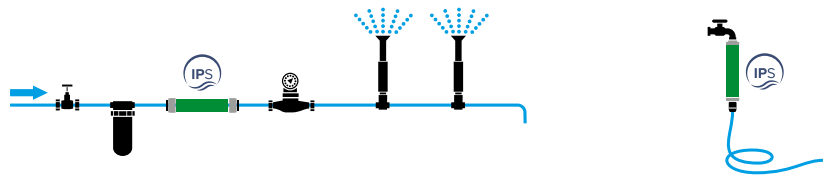
- ✦ It reduces the formation of scale in irrigation systems systems and water distribution - efficiency up to 76%.
- ✦ Reduces traces of dried minerals after washing cars or other equipment.
- ✦ New patented technology TGP - Turbulent galvanic polarization.
- ✦ No chemicals, no external energy.
- ✦ Safe product - proven hydraulic properties.
- ✦ TUS protocol on pressure drop, pressure resistance and fortresses.
- ✦ Durable body (stainless steel 1.4301) and internal components.
- ✦ Two-year warranty, service life of at least 10 years.
- ✦ No maintenance or filter replacement is required.
- ✦ Designed for garden irrigation systems and water distribution.
- ✦ Suitable for gardens, public parks, football lawns, golf courses, hydroponics, growing fruits and vegetables, watering animals.



Záhradný gril umytý bez IPS KalyxX GreenLine.



Záhradný gril umytý IPS KalyxX GreenLine.



SPECIFICATIONS

Model IPS KalyxX	Connection	Diameter (mm)	Length (mm)	Weight (g)	Max. pressure (Bar / MPa)	Max. flow rate (m³ / hour)	Pressure at max. flow rate (mBar / Pa)
GreenLine3/4" IPSKXGG34	G 3/4" (female) Rýchlospojka záhradnej hadice	Ø50	255	830	10 / 1	1,5	0,3 / 30

IPS KalyxX

INDUSTRY

**Reduction of scale formation
for systems with higher water flow**



KALYX
BIOTECO
ENVIROMENT
TECHNOLOGY



IPS KalyxX protects your water heater from scale build-up and maintains it in efficient operation. It does not require power, batteries, chemicals or filters.

IPS KalyxX uses a patented Turbulent Galvanic Polarization (TGP®) electrode system for disruption the formation of water scale crystals on the water heating elements. In comparative testing, IPS was KalyxX four times more effective than leading electronic descaling devices.

IPS KalyxX is easy to install and requires no maintenance.

The use of IPS Industry is effective and suitable in any running water operation - 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, compressors rooms, cooling and air conditioning equipment.

- ✦ A solution for apartment buildings and buildings with higher hourly flow rate.
- ✦ Suitable for the direct circuit of the water heat pump – water with high performance, to stabilize the cleaner wastewater at the guaranteed values the manufacturer.
- ✦ Installation at the entrance to the building.
- ✦ Pipes for the supply of cold water for central heating heating at transfer stations and boiler rooms.
- ✦ Prevents clogging of plate heat exchangers heat and stabilizes the specific demand for hot water.
- ✦ Stabilization of accumulation point corrosion heaters.



IPS KalyxX Industry RP



IPS KalyxX Industry DN



SPECIFICATIONS

Model IPS KalyxX RedLine / BlueLine	Connection	Diameter (mm)	Length (mm)	Weight (kg)	Max. pressure (Bar / MPa)	Max. flow rate (m ³ / hour)
Industry DN 40 IPSINRDN40P / IPSINBDN40P	flange	150	530	8,3	10 / 1	8
Industry 6/4" RP 64 IPSINRDN40 / IPSINBDN40	thread	114,3	506	4,9	10 / 1	8
Industry DN 50 IPSINRDN50P / IPSINBDN50P	flange	165	656	11	10 / 1	12
Industry 2" RP 2 IPSINRDN50 / IPSINBDN50	thread	114,3	640	5,7	10 / 1	12
Industry DN 65 IPSINRDN65P / IPSINBDN65P	flange	185	590	15,3	10 / 1	16
Industry DN 80 IPSINRDN80P / IPSINBDN80P	flange	200	607	19,5	10 / 1	24
Industry DN 100 IPSINRDN100P / IPSINBDN100P	flange	220	800	32	10 / 1	36
Industry DN 125 IPSINRDN125P / IPSINBDN125P	flange	250	955	48,5	10 / 1	54
Industry DN 150 IPSINDN150	flange	285	460	30	10 / 1	100

+421 905 307 455
INFO@BIOTECO.COM
WWW.BIOTECO.SK

Residence

Bioteco s.r.o.

Company headquarters: Vinohrady 3631/10 940 67 Nové Zámky
ID: 55588107
VAT number: 2122029624
VAT number: SK2122029624

Phone: +421 905 307 455
E-Mail: info@bioteco.sk

www.bioteco.sk

CERTIFICATES

CATALOG 2024



AWARDS



reddot winner 2020

Studio S LowProfile
WC Studio S s technológiou OptimFlush

