



Swiss  
Aqua  
Technologies



# WATER

*The Basic  
Source of Life*

Our goal is to  
**protect**  
this precious fluid and bring  
it to **our customers**  
in the best quality



IonPolarization  
System







IonPolarization System

# Hard Water affects your HEALTH & HOME

Hard water contains calcium, magnesium, salt and other impurities which have the tendency of scaling on surfaces. This contaminated water is **harmful to the hair, skin and the home appliances** while you're daily in contact with this polluted water.

## What Ion Polarization System Does?

- Change hard calcite to soft aragonite.
- Reduce 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.
- Certified for long-term contact with drinking water.



**Causes dry & irritated skin**  
Hard water minerals are attracted to the skin & hair. Blocked pores disrupt the skins natural oil, which strips moisture from the skin, resulting in dry & irritated skin.



**Causes dry, thin & damaged hair**  
Washing your hair with hard water can result in straw-like, dry and thin hair. It also causes colour to fade more quickly, hair breakage and hair loss.



**Mineral residue**  
Hard water leaves mineral residue in everything it comes in contact with which may include your sink, bathtub, dishes, faucets and even your skin.



**Higher energy bills**  
Hard and dirty water reduces the efficiency of your appliances and may cause them to damage early and also increase the maintenance cost.



# IPS KalyxX RedLine



IonPolarization  
System



## Specification

- 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
  - TUS 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



Model	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)
1/2"	G 1/2" (female)	50	245	910	10/1	1	0,44/16/44,16
3/4"	G 3/4" (female)	50	245	890	10/1	3.2	4,38/437,78
1"	G 1" (female)	50	251	930	10/1	4	6.92/692,03





IonPolarization  
System

# IPS Kalyxx BlueLine



## Specification

- Reduces creation of Limescale on water supply elements (pipework, valves, taps, shower heads, waterheating coils of home appliances) – efficiency of 76%.
- Reduces the amount of Escheria Coli Bacteria up to 40%.
- New Patented technology TGP – Turbulent Galvanic Polarisation – NO CHEMICALS, NO EXTERNAL ENERGY.
- Suitable for COLD (drinking) water
- Silver Electrodes Used  
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  
TUS test report about Pressure drop, Pressure resistance and Strength.
- Durable body (Stainless steel 1.4301) and internal parts – 2 year warranty, works well at least 10 years



Model	Connection	Diameter (mm)	Length (mm)	Weight (g)	Max. Pressure (Bar/MPa)	Max. Flow (m3/hour)	Pressure drop at max flow (mBar/ Pa)
1/2"	G 1/2" (female)	50	245	910	10/1	1	0,4416/44,16
3/4"	G 3/4" (female)	50	245	890	10/1	3.2	4,38/437,78
1"	G 1" (female)	50	251	930	10/1	4	6.92/692,03



# IPS KalyxX GreenLine



IonPolarization  
System



## Specification

- Supports Agriculture by faster seed germination and plant growth.
- 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 TGP technology – Turbulent galvanic polarization.
- NO CHEMICALS, NO EXTERNAL ENERGY.
- Safe product – proven hydraulic properties.
- Specifically designed with the 'hose out let component to use conveniently.
- Protocol TUS 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.





IonPolarization  
System

# IPS Industry



## Specification

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.
- Sizes available from DN 40 to DN 150.







IonPolarization System

# Certificates

**THE REGIONAL PUBLIC HEALTH AUTHORITY IN POPRAD**  
Zdravotnícka 3, 058 97 Poprad

**The National Reference Laboratory for materials intended to come into contact with foodstuffs**

**Assessment of safety of materials intended to come into contact with drinking water Nr. 5/2018**

**Customer:** Swiss Aqua Technologies SK s.r.o.  
Sebanovská 2  
080 06 Prešov  
SLOVAKIA

**Date of issue:** 16.02.2018

**Sample title:** IPS Kalyx device (modifications RedLine, BlueLine, GreenLine)

**Producer:** Swiss Aqua Technologies SK s.r.o.  
**Application:** for direct permanent contact with drinking water (physical treatment of water - prevention of water formation and corrosion at the point of consumption)

Following the laboratory examination results and the submitted documentation - in term of the health protection - IPS Kalyx device (modifications RedLine, BlueLine, GreenLine) produced by company Swiss Aqua Technologies SK s.r.o. meets the requirements of Act No. 355/2007 Coll. on protection, support and development of public health and amendment and supplementing to some acts and Act No. 258/2000 Coll. on the protection of public health and on the amendment of some related laws and is suitable for direct contact with drinking water (physical water treatment - prevention of water formation and corrosion at the point of consumption).

Mgr. Ing. Mláďa Sýkora MPH  
Head of the National Reference Laboratory for materials intended into contact with foodstuffs

VNB/UA version 01/14

**THE REGIONAL PUBLIC HEALTH AUTHORITY IN POPRAD**  
Zdravotnícka 3, 058 97 Poprad

**The National Reference Laboratory for materials intended to come into contact with foodstuffs**

**TEST REPORT**  
Laboratory analysis results and assessment of safety of materials intended to come into contact with drinking water Nr. 5/2018

**Customer:** Swiss Aqua Technologies SK s.r.o.  
Sebanovská 2  
080 06 Prešov  
SLOVAKIA

**Date of sample receipt:** 10.01.2018  
**Date of issue:** 16.02.2018

**Sample title:** silver plated plates for IPS Kalyx device

**Producer:** Swiss Aqua Technologies SK s.r.o.  
**Application:** for direct permanent contact with drinking water (physical treatment of water - prevention of water formation and corrosion at the point of consumption)

Silver plated plates for IPS Kalyx device meet the requirements of the § 9 of Ministry of Health of the Czech republic Decree no. 409/2003 Coll. on hygiene requirements for products that come into direct contact with water and water resources

Following the laboratory examination results and the submitted documentation - in term of the health protection - silver plated plates for IPS Kalyx (modifications RedLine, BlueLine, GreenLine) produced by company Swiss Aqua Technologies SK s.r.o. meets the requirements of Act No. 355/2007 Coll. on protection, support and development of public health and supplementing to some acts and Act No. 258/2000 Coll. on the protection of public health and on the amendment of some related laws and is suitable for direct contact with drinking water (physical water treatment - prevention of water formation and corrosion at the point of consumption).

Mgr. Ing. Mláďa Sýkora MPH  
Head of the National Reference Laboratory for materials intended into contact with foodstuffs

VNB/UA version 01/14

**TYPE CERTIFICATE**

Registration number 09.171.895, Revision No. 2  
Issued for the manufacturer:

**Swiss Aqua Technologies SK s.r.o.**  
Sebanovská 2  
SK - 080 06 Prešov, Slovak Republic  
Company Registration No.: 50489090

for the product:

Name: Ion polarization system  
Type designation: IPS Plus, IPS Premium, IPS Industry, IPS Kalyx  
Modification: G 1" (NPT), G 3/4" (NPT), G 1" (NPT), G 3/4" (NPT), G 5/8" (NPT), G 1" (NPT)  
Place of the production: Kolláčova 5, Dk - 880 01 Prešov, Slovak Republic  
Use: Distribution systems of drinking, sanitary, hot and heating water in buildings  
Restriction on the use: Water conductivity 40 up to 2000 µS/cm<sup>2</sup> only content 50 - 2500 mg/l<sup>1</sup> water temperature 0 up to 55°C, pressure up to 1 MPa, speed up to 4 m/s<sup>1</sup> water flow up to 100 l/h<sup>1</sup>

at which the certification has been conducted pursuant to ISO/IEC 17067 - scheme 3 certification scheme in accordance with FVV SLD Czech certification system. The results are stated in Evaluation report No. 18.185.334 from 15.02.2018, No. 18.185.334, Revision No. 1 from 13.01.2019 and No. 11.174.541 from 14.11.2016.

The unlisted type mentioned above fulfils the application requirements of the following regulations/standards which were the basis for its evaluation:  
STN 13 7100-1981, ČSN 53 7100-066

This certificate is valid till 20.12.2021

Details and validity conditions are stated in the annex which forms an integral part of this Certificate and contains 1 page

This certificate is issued on the basis of voluntary certification, and it does not substitute outputs of the authorized or notified body.

Page: 21.11.2018

TSU 2002 (2007) s.r.o. • Kolláčova 5, 880 01 Prešov • SR • Slovakia • [www.tsu.sk](http://www.tsu.sk) • [cert@tsu.sk](mailto:cert@tsu.sk)

**TECHNICKÝ SKÚŠOBNÝ ÚSTAV PIEŠŤANY, s.p.**  
Kolláčova cesta 200/0, 821 01 Piešťany, Slovenská republika

**TSU**  
Slovakia  
Reg. No. 0085-047

**Test report No.: 184000084**

**Test name:** Test of hydraulic processes

**Subject of testing:** IPS Kalyx BlueLine

**Type:** Kalyx

**Manufacturer:** Swiss Aqua Technologies SK s.r.o.  
Sebanovská 2  
080 06 Prešov  
Slovak Republic

**Customer - Applicant:** Swiss Aqua Technologies SK s.r.o.  
Sebanovská 2  
080 06 Prešov  
Slovak Republic

**No. of water:** 184000084

**Testing place:** TSU Piešťany, s.p.  
Kolláčova cesta 200/0  
821 01 Piešťany  
Slovak Republic

**Test - procedure method:** MFS 318/04

**Date of test performance:** 05.04.2018 - 11.04.2018

**Distributor:** 1 x - 05.04.2018  
1 x - TSU (Slovak)

**Date of issue:** 17.04.2018

Ing. Miro Zverko  
Technological expert in Testing Study

**TSU**  
Technický skúšobný ústav Piešťany, s.p.  
Certification-organ certificate number  
Čukovská cesta 200/0  
821 01 Piešťany, Slovenská republika

**CERTIFIKÁT CERTIFICATE**  
č. / No. 00181104/2018

**Výrobca/Manufacturer:** Swiss Aqua Technologies SK s.r.o.  
Sebanovská 2  
080 06 Prešov

**Výrobok/Product:** Ionový polarizačný systém IPS  
The ion polarization system (IPS)

**Typ/Type:** IPS Kalyx BlueLine (BIL; G1/2; G1; G3/4)  
IPS Kalyx RedLine (RIL)  
IPS Kalyx GreenLine (GL)

Právny certifikát na potvrdenie zhody nameraných výsledkov typu výrobku s technickými požiadavkami používateľa.

Tento certifikát potvrdzuje súladnosť s požiadavkami tohto typu certifikácie podľa technických požiadaviek používateľa.

Tento certifikát potvrdzuje súladnosť s požiadavkami tohto typu certifikácie podľa technických požiadaviek používateľa.

• Technický opis: Technický podmienky pre inštaláciu, výstavbu, údržbu polarizačného systému typu IPS Kalyx. Prevádzkové podmienky: Technické podmienky pre inštaláciu a údržbu polarizačného systému typu IPS Kalyx.

• Referenčný odkaz a prístup: - STN EN 12286-1:2012  
- Právny nariadenie/legislatívny - EN 12289-1:2012

• Referenčný nariadenie: - Vyhlásenie MZ SR č. 180/2007 Zb.  
Health safety - Decree of Health Ministry SR no. 409/2003 Coll.

Certifikát je platný na obdobie sedem rokov typu výrobku, v prípade ak certifikát v systéme s použitím štýlu C, 180200115, možnosť 14.03.2018.

The certificate has been issued on the basis of the results of the product type sample. The results are included in the Conformity assessment report No. 180200115 issued 14.03.2018.

**Datum vydania/Issue date:** 14. 03. 2018  
**Platnosť do/Expiry date:** 13. 03. 2025  
**Uplatnenie/Issue:** 1

Ing. Oľga Hranáčová  
Vedúca odborníčka v oblasti certifikácie výrobku  
Head of Product Certification Body

187472

**WRAS APPROVED PRODUCT**

This certifies that  
**IPS KALYX**  
**REDLINE 10", REDLINE 3/4", REDLINE 1" WATER TREATMENT OMBENTIMERS**

has had the undermentioned product examined, tested and found when correctly installed, to comply with the requirements of the United Kingdom Water Supply (Main Water Treatment Regulations and Scottish Water Systems.

**IPS KALYX**  
**REDLINE 10", REDLINE 3/4", REDLINE 1" WATER TREATMENT OMBENTIMERS**

The certificate is valid until the end of:  
2021

TSU  
Ing. Oľga Hranáčová  
Vedúca odborníčka v oblasti certifikácie výrobku  
Head of Product Certification Body

## Recommended water properties

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

- PH: 6,5- 8,5
- Iron: < 0.5 mg/L
- Hardnes: < 25° dH
- EC: < 150 ms/m
- ros: < 950 ppm
- Salinity: < 2000 mg/L

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



# LIMESCALE PROTECTION



Up to  
**10.000**  
CYCLES

IPS  
**Wash Ball**



**30%**  
less of  
Laundry  
Detergents

## 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**



IPS effectively prevents the formation of solid sediments and corrosion in cold and hot water appliances. 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.



## Innovative Water Solutions

Contact Details:

SALES: Chief Sales Officer - [iwschiefsalesofficer@gmail.com](mailto:iwschiefsalesofficer@gmail.com) or ph:9346210707  
SERVICE: Customer Relationship Manager - [iwscrmsales@gmail.com](mailto:iwscrmsales@gmail.com) or ph:8099935794  
Suppliers: [kitecinnovative@gmail.com](mailto:kitecinnovative@gmail.com)  
Careers: [iwscareers@gmail.com](mailto:iwscareers@gmail.com)

