SYDROS

SYDROS

INSTRUCTION MANUAL

SYDROS DESCALER

DESIGNED AND DEVELOPED IN GERMANY

+49 1590 613 2674
info@sydros.de

Introduction

Thank you for choosing the high-quality SYDROS lime crusher. This manual contains important information on the installation, use and maintenance of the system to ensure the best possible water quality. Please read the instructions carefully and keep them for future reference.



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1. Product Description

The **SYDROS limescale crusher** is an under-sink solution for limescale-free water from the tap. **Applications: Kitchens, bathrooms, showers, washing machines, dishwashers, and other household water connections affected by limescale.**

With the help of SYDROS' innovative electron transfer technology (SET), The limescale-forming compounds in the water are modified at the molecular level. The limescale crystals are modified at the molecular level, reducing their tendency to form deposits on faucets, cookware, and household appliances. The natural mineral content of calcium and magnesium is completely preserved, so that you get healthy, mineral-rich drinking water.

The lime crusher works **completely maintenance-free** and does not **require electricity, salt or magnetic fields.** It can be installed by the user within a few minutes

SYDROS electron transfer technology: The **electroactive surface** inside the lime crusher consists of a **specially alloyed metal structure**.

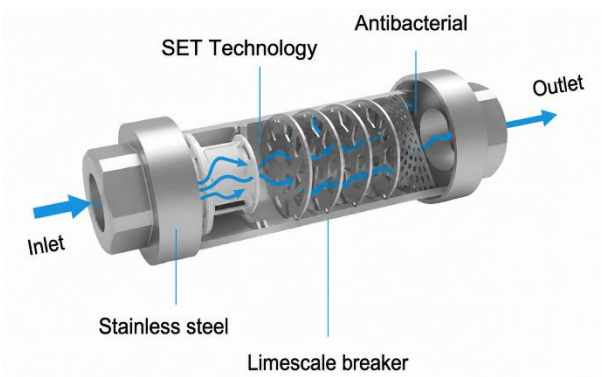
As soon as water flows through it, a natural electron transfer occurs. This affects the calcium carbonate contained in the water: it remains dissolved in the water, but can no longer crystallize in its typical calcite form. Instead**, soft, non-stick forms** are formed that simply flow on with the water: They are invisible, neutral in taste, and harmless to health.

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Features:

- Up to 90% reduction in limescale deposits
- Electron transfer technology – modifies limescale formation at the molecular level
- Healthy minerals are preserved
- Easy self-assembly under the kitchen sink, in the bathroom or other household applications
- Robust stainless-steel housing with 1/2" male and female threads
- No chemicals, no electricity, no salt – 100% environmentally friendly
- Maintenance-free & durable – up to 2 years of service life
- No release of toxic heavy metals

Feature	**Details**
Port size	1/2" female/male thread (internal/external)
Type of installation	Under-sink installation, horizontal or vertical
Material	V2A stainless steel
Principle of action	Electron transfer with molecular modification
Flow Rate	Approx. 12–20 L/min
Temperature range	5-60 °C
Pressure range	2–8 bar
Lifespan	Up to 24 months
Maintenance	Not required



The structure shown is for demonstration and advertising purposes only.
The actual product contains granules with a different internal structure.

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2. Scope of Delivery

- 1 × Stainless steel lime breaker (1/2" internal and external thread)
- 1 × PTFE sealing tape for sealing
- 1 × Installation manual (DE/EN)

3. Installation

Preparation:

- The limescale reducer can be installed indoors or outdoors and in either a horizontal or vertical position.
- The limescale crusher can be mounted both outside and inside and both horizontally and vertically.
- Wrap PTFE sealing tape around the connection threads of the limescale crusher to prevent leaks.

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Steps:

1. Turn off the water.
2. Connect the inlet hose to the water inlet and the outlet hose to the water outlet.
3. Check all connections for leaks.



Commissioning:

1. Slowly turn on the water supply.
2. Flush the limescale reducer with water for 1–2 minutes.
3. The device is now ready for use.

ATTENTION:

- The connections must **not be overtightened**, otherwise damage may occur.
- The limescale crusher is suitable for kitchen and bathroom use and is suitable for use in kitchens, bathrooms, and compatible mobile applications..



The device can be installed in either flow direction.

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4. Safety instructions

- **Operating temperature:** 5-60 °C.
- **Operating pressure:** 2 – 8 bar. At higher pressure, a pressure-reducing valve is required.
- **Use:** Suitable for cold and hot water.
- **Hazards:** Protect the limescale crusher from direct sunlight and excessive pressure.

Warning: Improper use or installation may result in water damage or impairment of performance.

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5. Warranty

Sydros Water GmbH provides a voluntary two-year manufacturer's warranty of 2 years from the date of purchase for the SYDROS product described in this user manual.

The warranty covers **defects in materials and workmanship** that occur when the product is used as intended.

The warranty does not cover, in particular, damage caused by:

- improper use or use other than intended incorrect installation or assembly,
- unauthorized modifications or repairs,
- operation outside the specified technical specifications,
- external influences or improper storage,
- normal wear and tear as well as consumables and wear parts, provided that there is no material or manufacturing defect.

The consumer's statutory rights in the event of defects exist independently of this warranty. Exercising these statutory rights is free of charge and is not limited by this warranty.

Guarantor:

Sydros Water GmbH

Kirrlacher Straße 6

76646 Bruchsal

Germany

Making a Warranty Claim:

To verify a warranty claim, please contact us and provide the product name, date of purchase, a description of the defect and, if available, proof of purchase:

Email: info@sydros.de

Phone: +49 1590 613 2674

The geographical scope of the warranty depends on the country in which the product was first sold to the consumer by Sydros Water GmbH or an authorized sales partner.

6. Disposal

The product, its components and packaging must be disposed of in accordance with the applicable legal and local disposal and recycling regulations.

Packaging:
Packaging materials must be separated by type of material and sent to the designated collection and recycling systems.

Filters, cartridges and other consumables:
Used filter media, filter cartridges and other replaceable components must be disposed of in accordance with local disposal regulations. In the event of possible contamination by special substances, different disposal requirements may apply.

Electrical and electronic products:
If the product or individual components are electrical or electronic equipment, they must not be disposed of with unsorted household waste. They must be taken to designated return or collection points.

Please also note the applicable national and municipal disposal regulations.

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7. Compliance and product safety

The SYDROS product described in this user manual has been designed and manufactured in accordance with the applicable European and national requirements for product safety, health and environmental protection applicable at the time of placing on the market.

Where applicable, the requirements of **Regulation (EU) 2023/988 on general product safety** have been taken into account.

Depending on the design, function and equipment of the respective product, additional European and national legislation as well as technical standards may apply. These may include, in particular, regulations on electrical and electronic equipment, electromagnetic compatibility, electrical safety, substance restrictions, waste electrical and electronic equipment, and products and materials that come into contact with drinking water.

The legal acts, technical standards and conformity assessment procedures that are actually applicable to the respective product are determined on a product-specific basis and documented in the associated technical documentation.

CE marking:
CE marking is applied only to products for which it is required by the relevant European harmonization legislation. By affixing the CE marking, the manufacturer declares that the product in question meets the requirements of the relevant EU legislation applicable to this product.

A product-specific EU declaration of conformity is prepared and provided in accordance with the regulations applicable to the respective product, where required by law.

Manufacturer

Sydros Water GmbH
Kirrlacher Straße 6
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Germany

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Thank you for choosing SYDROS.

For safe and reliable operation, please refer to the technical data, safety instructions and installation and maintenance specifications of the respective product.

Looking for more information?

Scan the QR code to visit our FAQ page and discover everything you need to know.

Don't forget to follow us on Instagram to stay up to date and support SYDROS as we continue to grow every day.

SYDROSWATER

SYDROS

INSTRUCTION MANUAL

SYDROS LIME CRUSHER

DESIGNED AND DEVELOPED IN GERMANY

Modifies limescale crystals at the molecular level

Up to 2 years without maintenance, salt, or chemicals

SYDROS SET

Electron Transfer Technology

Up to 90% reduction in limescale deposits while retaining minerals in the water