

PHASIS - CUSTOM MADE

Active electronic water conditioner - fully automatic, chemical-free limescale protection

CUSTOM 6" 167 mm	CUSTOM 10" , 221 mm	CUSTOM 12" , 274 mm
Single ferrite ring	Double ferrite ring	Double ferrite ring



Intended use:

Phasis CUSTOM made - High-frequency induction technology successfully protects against limescale deposits and removes existing limescale crusts from the entire water pipe system and the water-bearing

areas of application:

Large hotel facilities, large commercial and industrial applications, agricultural use, waste water treatment

Mode of action:

Phasis is mounted around the central supply line or directly in front of the water-carrying installation. A strong alternating current electric field of up to 130 volts is established in the ferrite ring, which transmits the voltage concentrated there wirelessly to the water network. Because water is conductive, this high-frequency voltage is transmitted to all areas of the water network to be treated. This can be checked with a physical measuring device (oscilloscope).

High frequency means that the current frequency of the Phasis devices oscillates almost 50,000 times faster than our normal alternating current. The constant rapid succession of these impulses causes the lime-forming elements magnesium and calcium to split into tiny microcrystals and, due to their

surface structure, can no longer build up to form calcifications.

Why electronic limescale protection devices work:



- They have a pulsating effect throughout the entire pipeline network.
- They are always working, 24 hours a day.
- The limescale protection signal is distributed electrically.
- The limescale protection signal varies, it covers the different problem zones - such as differences in limescale content and temperature.

Result




The high voltage changes the lime structure dissolved in the water, micro-crystallisation is stimulated, the lime in this form is not deposited but rinsed out with the water consumption. Lime

deposits are dissolved. By using Phasis Power 100, the operating costs and maintenance costs of the water-bearing systems are reduced. Phasis works energy efficient.

Control function

LED display. The voltage reached in the ferrite ring is indicated in the LED alternating with the temperature		
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Technical data:

Model	CUSTOM made 6	CUSTOM made 10	CUSTOM made12
Cable diameter	167 mm	221 mm	274 mm
Voltage	95 - 115 Volt	110 - 125 Volt	115 - 130 Volt
Dimensions(L, B, H)	300 X 98 X 50 mm	300 X 98 X 50 mm	300 X 98 X 50 mm
Weight	5000 g	6950 g	8000 g
Ferrite Quantity	1 long, 7 short	Double ring 1 long, 18 short	Double ring 1 long, 22 short
Power input	110 - 230 Volt 50 - 60 Hz	110 - 230 Volt, 50 - 60 Hz	110 - 230 Volt, 50 - 60 Hz
Automatic controls	Signal strength + temperature	Signal strength + temperature	Signal strength + temperature
Frequency	130 - 150 KHz	130 - 150 KHz	130 - 150 KHz
Power consumption	12 watts	15 watts	17 watts
Protection - Functions	 compliant, IP 65	 compliant, IP 65	 compliant, IP 65
Water temperature	0 – 115 °C	0 – 115 °C	0 – 115 °C
Audible alarm	In case of overheating, too low signal	In case of overheating, too low signal	In case of overheating, too low signal

Housing material

The housing is made of highly impact-resistant and temperature-resistant polyurethane (200°C).

Product Safety

The unit contains an internal overheating protection. At high temperatures the voltage is automatically reduced. The high alternating current frequency prevents transmission in the form of electric shock

Installation instructions

The Phasis unit is installed without cutting the water pipe. It can be used on all pipe materials. Extensive installation instructions are supplied with the units. Phasis works fully automatically, maintenance-free and without additives (chemical-free). The Phasis units are characterised by their very low power consumption.

functional guarantee:

Phasis Power devices are high quality products. The functional guarantee is 3 years

Phasis units are Made in Germany by Hydro-Shop fbw GmbH

Technical advice and contact:

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