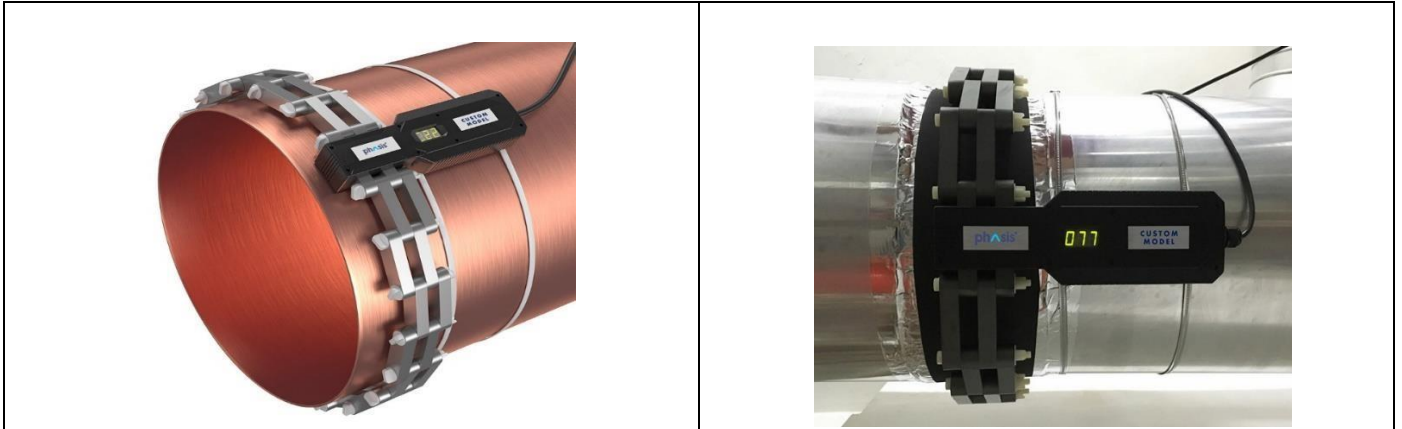


# PHASIS - CUSTOM MADE XL

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

Suitable for large systems from 16" upwards



## Purpose

**Phasis CUSTOM XL** - High-frequency induction technology with 2 induction coils for greater power for pipe diameters from 16" and larger.

### areas of application:

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

The double induction coils ensure that the voltage field built up in the ferrite ring covers the entire inside of the ring evenly, thus ensuring the uniform feed into the water or waste water optimally achieved. The range of the pulsating induction field is significantly increased.

## Mode of operation

**Phasis** is mounted around the central supply line or directly in front of the water-carrying installation. A strong alternating current electric field of 100 to 130 volts is built up 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 pulses almost 5000 times faster than our normal alternating current. The constant rapid succession of these pulses causes the limescale-forming

elements magnesium and calcium into tiny microcrystalline and cannot build up to calcifications due to their surface structure.

### 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 alters the Lime structure, 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 Custom XL**, the operating costs and maintenance costs of the water-bearing systems are reduced The **Phasis technology** works energy efficient.

## Control function

<p><b>LED display.</b> The voltage reached in the ferrite ring is indicated in the LED alternating with the temperature</p>		
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## Technical data:

Model	CUSTOM 6"	CUSTOM 10	CUSTOM 12"	Custom XL, from 16" upwards
<b>Cable diameter</b>	167 mm	221 mm	274 mm	405 mm
<b>Voltage</b>	95 - 115 Volt	95 - 115 Volt	95 - 115 Volt	100 - 130 Volt
<b>Dimensions(L, B, H)</b>	300 X 98 X 50 mm	300 X 98 X 50 mm	300 X 98 X 50 mm	315 X 98 X 50 mm
<b>Weight</b>	5000 g	6950 g	8000 g	Depending on the ferrite number
<b>Ferrite Quantity</b>	1 long, 7 short	Double ring 1 long, 18 short	Double ring 1 long, 22 short	Depending on the Pipe diameter
<b>Working temperature at the installation site</b>	77° C	77° C	77° C	77° C
<b>Power input</b>	110 - 230 Volt 50 - 60 Hz	110 - 230 Volt, 50 - 60 Hz	110 - 230 Volt, 50 - 60 Hz	110 - 230 Volt, 50 - 60 Hz
<b>Automatic controls</b>	Signal strength + temperature	Signal strength + temperature	Signal strength + temperature	Signal strength + temperature
<b>Frequency</b>	130 - 150 KHz	130 - 150 KHz	130 - 150 KHz	130 - 150 KHz
<b>Power consumption</b>	12 watts	15 watts	17 watts	24 watts
<b>Protection - Functions</b>	CE compliant, IP 65	CE compliant, IP 65	CE compliant, IP 65	CE terminal form, IP 65
<b>Water temperature</b>	0 – 115 °C	0 – 115 °C	0 – 115 °C	0 -115°C
<b>Audible alarm</b>	In case of overheating, if the temperature is too low Signal	In case of overheating, if the temperature is too low Signal	In case of overheating, if the temperature is too low Signal	In case of overheating, if the temperature is too low Signal

## **Housing material**

The housing is made of highly impact-resistant and temperature-resistant polyurethane (160°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** technology is characterised by the 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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