

IkoZengua water structuring devices

Technichal sheet

Overview

The IkoZengua device is designed for the treatment and conditioning of water in different areas, such as residential, industrial, agricultural, hospitality, aquaculture and aviculture, as well as in other applications where water is used for general purposes.

The basis of the IkoZengua technology consists in physically modifying the bond structure of the water molecules as well as some of the cations contained in the water, such as calcium and magnesium. The device does not add or remove any element from the water, so it is not a filter and does not require replacement of any of its parts.

Technical specifications

The device consists of an external cylinder made of SUS 304 stainless steel with thread at both ends. Inside are a series of Vortex Chambers which create hundreds of vortexes and release negative ions. The stainless steel of both the inner chambers and the outer cylinder has been structured to achieve a very high molecular coherence, capable of transmitting an highly ordered structure to the clusters of water molecules.

The combined action of these effects generates ionic dynamics that cause a change in the way the water molecules and some of the cations contained in the water, such as calcium and magnesium, are arranged. This process modifies the salts contained in the water (from calcites to aragonites), preventing them from adhering to any surface. In this way, scale build-up is prevented and existing lime scale in hot and cold water circuits, machinery, dripping irrigation systems, household appliances, etc. is dissolved.

The surface tension of the water decreases as it passes through the IkoZengua device, increasing its capacity as a solvent.

The working temperature is between 4 °C and 98 °C.

The maximum working pressure is 7 Bar for units up to 1 inch, and 10 Bar for larger units (at 20 °C).

For the proper functioning of the IkoZengua equipment, solids from wells or pipes should be avoided at all times, as they could cause obstruction or erosion of the inner parts. For this purpose, in certain cases it may be necessary to install a 20-25 micron pre-filter.

As it does not require electricity or chemical agents for its operation, and since it has a very long lifespan, it makes it a highly sustainable technology.

Warranty

The device is covered by a 10-year commercial warranty against manufacturing defects, duly proven. The lifespan extends over many years.

Technical details

Model	Connection Zoll	Dimensions mm	Ø Flow rate m ³ /h	Weight kg
IKZ 15	1/2 "	63 x ø 48	1.9	0.5
IKZ 20	3/4 "	110 x ø 48	2.6	0.8
IKZ 25	1 "	150 x ø 60	4.3	1.3
IKZ 50	2 "	390 x ø 120	15.8	6.2

This data is subject to change without notice.

Each unit is engraved with:

- IkoZengua Logo
- Serial number