100% Eco-Friendly Products

AQUAFIT®

HYDRODYNAMIC ULTRASONIC WATER ACTIVATOR WITH BUILT-IN MAGNETIC SYSTEM - Type "AQUAFIT"

OPERATING PRINCIP



This device is designed for water treatment in domestic and industrial water supply systems. By using hydrodynamically generated oscillations and a magnetic field, are influenced the crystallization processes, the solubility of gases and the microorganisms contained in the passing water.

GENERAL TECHNICAL CHARACTERISTICS

Working pressure - Minimum/Maximum Bar 1/10	**Pressure loss ΔP (Bar)** 0,70
Throughput capacity at ΔP = 10 Bar 70 l/min. **Temperature range of the water (°C)** from 0 to +140	**Connection dimensions - threaded** G ¾ **Working position** Random
Water direction Marked by arrow	**Production materials** Stainless steel - grades 1.4571; 1.4310

WORKING CONDITIONS

1. Working fluid – water in the liquid aggregate state, with a chemical composition suitable for use by humans and animals. For the correct operation of the device, it is necessary to ensure a minimum water flow rate specified in the technical data of the device.
2. Environment - chemically non-aggressive, with temperature above 0°C, without specific requirement to humidity and dustiness.

OPERATING PRINCIP

This is a vortex type device! It is a cylindrical body with an opening along the axis, a turbolizer element and a vortex chamber are placed in the opening. A system of permanent ferrite magnets is built into the housing of the device. When water flows through the device, mechanical oscillations are generated in the sound and ultrasonic areas. This energy causes a change in the crystallization process of carbonates and sulfates. Crystallization begins long before the deposition zone, forming crystals of large size and smooth surfaces. They cannot stay on the walls of dishes and heaters and leak with water or settle in places with low water speed. The oscillations mechanically destroy the microorganisms in the water. The water passed through such treatment has less surface tension (it wets the surfaces better), which improves the action of the cleaning agents and leads to their economy.

SPECIFICATION

Connection dimensions (G)	Passage section (mm)	Throughput capacity at maximum pressure		Working pressure P (bar)		Materials Stainless Steel	Name	Gasket
		(M^3/H)	(L/MIN)	Minimum	Maximum			
3/4	8	4,2	70	1	10	1.4571;1.4310	„AQUAFIT“	NO

100% Eco-Friendly Products

AQUAFIT®

GENERAL INSTRUCTIONS

1. The device is designed for operation in domestic water supply installations and is consistent with the normal operation of domestic equipment and sanitary fittings;
2. Does not change the chemical composition of the water;
3. When working, not heat more than the temperature of the passing water;
4. Does not create noise above the harmful limits;
5. The device basically is a hydraulic resistor that changes the flow rate of the passing water, so the type must be selected correctly.

WARNING: Where the property also has supply of hot water, a device also should be fitted on it for maximum effect, as it is not softened!

INSTALLATION INSTRUCTIONS

1. The device must be installed by a qualified person!
2. Can be installed in outdoor or indoor areas as well as in water supply shafts; The place of installation must not be subjected to any shock load and must meet the requirements of the technical passport;
3. When installing, ensure a good seal and absence of gaps;
4. Do not clamp with unsuitable tools;
5. If necessary, can be supplied with fittings for reduction or conversion to installations of another type of material, as this will not affect the correct function of the device.
6. When working with dirty water, install a filter before the device.
7. Not connect to the electrical network!

METHOD OF CONTROL

The method of control is implemented as described in the manufacturer's company standard. Each device passes 100% control, pressure resistance and hermeticity test.

TECHNICAL SERVICE AND EXPLOITATION

1. In the period of exploitation, the device does not need technical maintenance;
2. No change or add consumables or elements;
3. Cleaning of external surfaces can be done with cleaning products suitable for household use;
4. Do not allow abrasive materials or chemicals to damage or scratch the coating.

STORAGE AND TRANSPORT RULES

1. To be stored in areas free from substances which cause corrosion of the parts;
2. In order to save the packaging until the time of installation, store in dry ventilated rooms with temperature from -20 to +50°C;
3. When storing, to be hung or stacked in no more than 10 rows;
4. Transport must be in the original packaging, under the provided storage conditions.

WARRANTIES

1. The manufacturer complies with the warranty period described in the relevant country's legislation in force. This period is indicated in the "Warranty Card" of the product;
2. Replacement or repair will be made only if all the requirements in this instruction are followed and the necessary documents certifying the purchase of the device are presented!

DIMENSIONS(MM), WEIGHT - 2,00 KG

