

AQUAKAT[®]

User Manual



AquaKat functionality:

The AquaKat is a physical pulse generator that transmits a programmed frequency pattern to the water. The device's effect is based on the principle of resonance. The water reacts to the frequency pattern and can store or process it. Frequencies transmitted to the water by the AquaKat include those of high-quality spring water, oxygen and minerals and these influence the behavior of the water molecules (clusters). This process vitalizes and structures water.

Where can the AquaKat be used?

- At home
- In agriculture
- In trade/industry
- When travelling

Potential uses for the AquaKat:

- Hot water pipes
- Heating circuits
- Cooling circuits
- Irrigation systems

The following benefits may be observed when using water vitalized by the AquaKat:

- Helps drinking water to taste fresher
- Improves the structure of the water
- Makes limescale and deposits easier to remove
- Also works in standing water
- No installation or maintenance costs, no interference with pipes
- No energy consumption, neither electrical nor magnetic

Performing features for the various AquaKat devices and recommended equipment:

	Max. water quantity	Max. pipe length	Min. installation length	Max. pipe diameter
AquaKat S	100 litres/day	1 m	80 mm	none
AquaKat M	950 litres/day	20 m	70 mm	40 mm
AquaKat 1"	2.000 litres/day	60 m	170 mm	40 mm
AquaKat L	3.000 litres/day	80 m	70 mm	60 mm
AquaKat 2"	12.000 litres/day	180 m	200 mm	60 mm

The performance ratings were determined at 4.5 bar water pressure in a galvanized 1-inch pipe with moderately hard water.

Several factors need to be taken into account when selecting a suitable device:


The maximum possible water consumption per day and the length of the pipe to the furthest tapping point are both important. If one of the specified values is exceeded, the next bigger AquaKat unit should be selected.

To ensure optimal enjoyment of your vitalized and structured water, you need to consider more than just water flow and pipe lengths. A range of factors influence the structure and vitality of your tap water. For example, heating water has a negative effect on its structure. That is why we recommend giving warm water an additional boost. For more details see the following table.

Product range overview



Application area	Recommendation	Installation tips
Individual supply points, taps, shower hoses, filter systems, reverse osmosis systems	1x AquaKat S	On the tap or shower hose, after filtering and heating
Flats Up to 120 m ²	1x AquaKat 1" 1x AquaKat M	On the inlet pipe for the flat In the distribution box on the hot water pipe
For larger than 120 m ² flats and/or hard water (from 14° dH)	1x AquaKat 1" 1x AquaKat 1"	On the inlet pipe for the flat In the distribution box on the hot water pipe
If the main supply pipes are not accessible	1x AquaKat S	An AquaKat S should be installed at any tapping point
Washing machines	1x AquaKat S	Water pipe to the washing machine
Detached house For soft water (up to 14° dH)	1x AquaKat L 1x AquaKat 1"	Cold water pipe after the water meter and filter system Hot water pipe after the boiler
For hard water (from 14° dH)	1x AquaKat 2" 1x AquaKat 1"	Cold water pipe after the water meter and filter system Hot water pipe after the boiler
Two-family house (duplex) For soft water (up to 14° dH)	1x AquaKat 2" 1x AquaKat 1"	Cold water pipe after the water meter and filter system Hot water pipe after the boiler
For hard water (from 14° dH)	1x AquaKat 2" 2x AquaKat 1"	Cold water pipe after the water meter and filter system Hot water pipe after each boiler
Apartment block	Type and number of devices depending on local conditions. Please get in touch with your local dealer.	

Application area	Recommendation	Installation tips
Closed heating system in flats or houses	AquaKat L (number depends on water volume and pipe length)	Downstream of the pump Type and number of devices depending on local conditions. Please get in touch with your local dealer.
Agriculture and industry	AquaKat 8+	AquaKat 8+ information (scan code) or alternatively simply visit: www.penergetic.com/aquakat8-plus 

Please note:

Vitalization is not just a question of pipe length or flow rate. It also depends on a wide range of external conditions and factors. For example, large quantities of water, unfavorable external conditions such as pressure, heat or electromagnetic fields.

Pressure	Pumping the water and sustained high pressure affect its vitality and structure. The AquaKat can vitalize water up to a maximum pressure of 16 bar.
Heat	Heating water influences its vitality and structure. At temperatures above 60 °C, limescale precipitates and creates deposits on objects conveying or storing the water. Solution: Install the AquaKat on the boiler outlet pipe.
Chemicals	If chemical substances (chlorine, bromine, etc.) are added, the next bigger AquaKat unit should be selected.
Electric interference	Electromagnetic fields (>200 nanoteslas) at the point of installation interfere with the effect of the AquaKat.
Before installation	Descale or clean all filters and shower heads before installation. Basic principle: "First sanitize, then vitalize!" If germs and bacterial strains (e.g. legionella) are present, we recommend disinfecting the entire system before installing an AquaKat.
After installation	After installing an AquaKat, limescale may build up at different intervals. As a result, we recommend flushing out the pipes in the system 4 to 6 weeks after installation.

AquaKat installation:

The AquaKat should be installed after the water meter, pressure reduction valve and any filters on the main water supply. If an ion exchanger (salt system) or reverse osmosis system is being used, the AquaKat should be installed in a location downstream of these devices. Because these devices influence the water structure and can impair vitalization. In a domestic setting, suitable installation locations include under the sink, on the shower hose, or on the cold water supply pipe.

Interventions in the pipe network are not necessary. The water pipe should be clean and free from corrosion. The device requires a free-standing installation, avoiding contact with anything else (wall, floor, etc). Do not install under water. Suitable installation material is included in the packaging.

The gap between the pipe and the AquaKat should be as small as possible.
Do not cover, paint or wrap the AquaKat.

Limitation of the AquaKat:

Water vitalization is not a cure. No substances are removed from the water during revitalization and structuring. If the water is contaminated or contains harmful substances, we strongly recommend getting them removed (with filters, reverse osmosis, etc.).
The water can then be revitalized using the AquaKat.

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