



## ABOUT TEHNOLOGIES

Dear,

In the field of water purification the Kinetic reactor technology is a completely new technology.

Why a completely new technology? Because we are the only one in the world who uses the energy of the water flow to create a pressurized environment in a kinetic chamber where we overcome the cohesion forces of water.

What are Cohesion Forces in Water?

Cohesion forces of water are those forces that hold water together, acting on a principle similar of a magnet (attractive forces).

Water, as in liquid-aggregated state, has a reflectance and is much less accessible for purification than in the sprayed or liquid gaseous state. Our technology is changing the state of water, and therefore is much more accessible to oxidation, degassing and aeration. Visually, the Kinetic reactor looks like a regular mesh, but it is a device for purification of water on your faucet . that is a device for purification of water on your faucet. We have successfully completed the developed of Kinetic Reactor in 5 years.

Water purification processes in our technology are:

First phase:

When water travels through Kinetic Reactor at first a flow regulator decreases the flow of water and constantly restricts the flow of water to 4 L/min, which is very important for water saving.

Second phase:

The water, which is in the homogenized state, is diverted through the venturi tubes, which are an integral part of the cavitation plate (diffuser). The cavitation plate creates the phenomenon of hydrodynamic cavitation, which with the powerful impact forces of micro jets reduces the number of bacteria in the water naturally without adding any additives.

Third phase:

00386/31528515

milan@kinetic-reactor.com

www.kinetic-reactor.com

Ljubljanska cesta 4a, Ivančna Gorica

Slovenia





Cavitated water enters the heart of the Kinetic reactor - a kinetic chamber, where the aggregate state of the water is changed from homogenized to condensed or semi-gaseous state. This state of water is more accessible for purification because the surface of the water is magnified by as much as 1000 x and the oxidation processes (the fourth stage) of organic and inorganic substances in the water take place at micro level. professionally, we can say that we relieve water and the results are immediately visible as a better taste, smell and diminution of turbidity.

**Fifth stage:**

The kinetic state of the water makes it easier to extract gases from the water. There are many different gases in the water that can be harmful to our health. The extraction of halogen gases of organic origin improves the odor of water, the CO<sub>2</sub> evolution changes the formation of limescale to aragonitic shape that is more human-friendly and on the surfaces where it can't be glued. CO<sub>2</sub> excretion reduces the acidity of water and makes water more basic, which is very important for our body.

**The sixth stage:**

Water treatment in a vacuum allows us to make the disinfectant more effective, because the micro-cell walls of the bacteria become weak, allowing chlorine to flow more easily to the nucleus of the bacterium. This process increases the efficiency of chlorine and, consequently, reduces the number of bacteria, and also reduces the content of chlorine in the water.

Inventor: Milan Jeremić



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