Softazur™ E

Softening of groundwater without chemistry

Elektro catalytic reactor

ERCA2® drinkingwater

SOFTAZUR is a modular product, that combines versatility and flexibility

Description

Water is led into a stainless steel tank equipped with electrodes, (anodes / cathodes). The process is based on the precipitation of Calcium Carbonate by electrolysis of water.

A low electric currents cause the immediate formation of limestone and subsequently, limestone is crystallized in high purity. The formed crystals fall to the bottom of the tank in the form of white powder which is subsequently automatically transported out.

ERCA^2 technologi

The process is intended to reduce the hardness of the water. The process is called ERCA$^{2®}$ and is patented by "SUEZ".

Automatic process in 3 phases

- **Limestone formed is removed**

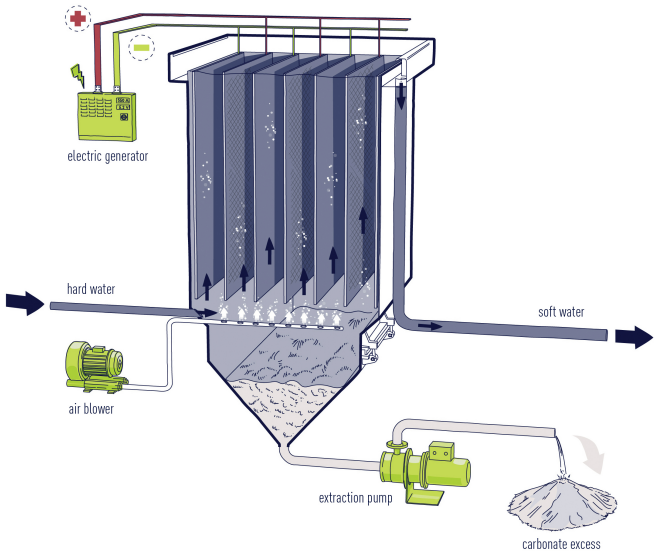
Via vibration generated by airbubbles in the lower half of the tank. The limeston is released from the elektrodes.

- **Precipitation of the limestone**

The limestone released is precipitated by gravitation in the bottom half of the tank.

- **Removal of the limestone**

The bottom of the tank is equipped with a valve, allowing full passage for the mixture of limestone and water. A drainage pump (the vortex principal) transports the mixture to a container for final drainage.



↑ Process scheme

suez traitement de l'eau

ERCA$^{2®}$ is...

Eco-friendly

ERCA$^{2®}$ is softening process with no chemicals.

Stable in operation

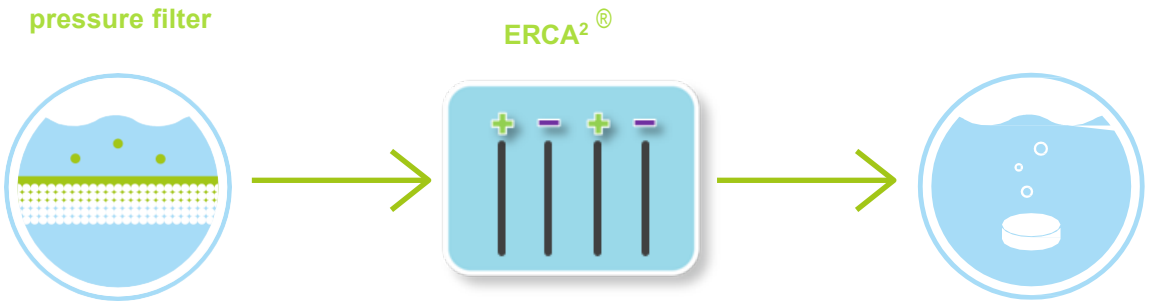
ERCA$^{2®}$ is not affected by changes in the quality of raw water and flow.

Recycling of calcium

Lime product from ERCA$^{2®}$ is lime crystals in powder form (pure product> 95%) that do not require further drainage and which can recycled for soil improvement.

ERCA^2 Softazur® in water treatment processes

→ Ground water



Sand filtration — Electro catalytic reactor — Clean water

References

Anarchy, France
120 m^3/h

}Hard ground water
}Softening with ERCA^2

Sludge
Reused in the construction industry

Evran, France
100 m^3/h

}Hard ground water
}Softening with ERCA^2

Sludge
Reused as liming in agriculture

suez
traitement de l'eau