

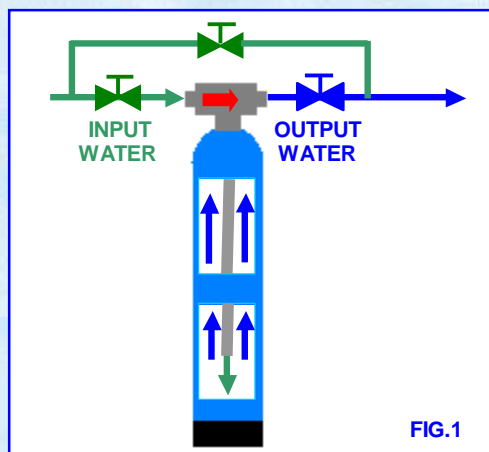
# AQUACALK EQUIPMENT

## User Manual

### Purpose:

AQUACALK equipment serves for the activation of the process of the creation of micro crystals of calcium carbonate and magnesium carbonate which prevents the creation of sediments in water distribution systems (water pipes), in heat exchangers (heating spirals) and on firm surfaces which are in contact with water (floor tiles, etc.).

### Method used for the connection of AQUACALK:



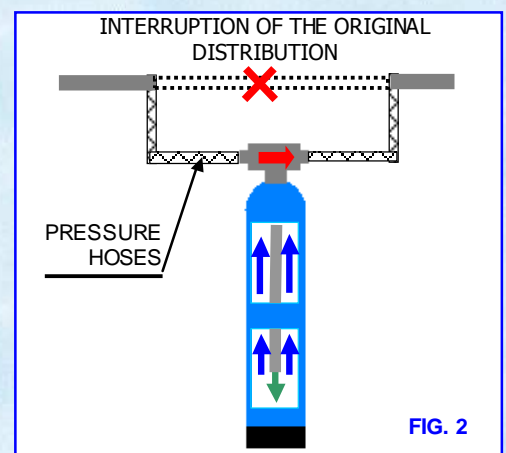
**AQUACALK** equipment is connected to circuits so that the treated water passes through the equipment in a counter flow regime and is in contact with the material **DESCAL** which causes the activation of the creation of micro crystal of calcium carbonate and magnesium carbonate which are carried by flowing water without the creation of scales in critical places. The optimal method of connection is shown in **Fig. 1**. **Fig. 2** shows the simplest connection into the existing distribution by means of hoses.

### Selection of the site for AQUACALK equipment:

In the case of standard water hardness (2– 5 mmol/) **AQUACALK** equipment is designed with an output corresponding to the maximum hourly consumption of water in the respective object. For example, for common family houses, the standard output assumed is about 1,000 litres of water per hour.

If the hardness of the input water is higher, the flowing speed through the **AQUACALK** equipment should be relatively lower—for example, for water with hardness of about 8 mmol/l it is possible to recommend **AQUACALK** equipment with a double size of the bed, than it would be for water with standard hardness.

Selection of greater equipment will decrease the flow (contact) speed of the water by the material **DESCAL** which ensures a sufficient time for the contact of water with the catalyst. This ensures optimal conditions for the production of micro organisms and the prevention of the creation of sediments.



### **Test of the efficiency of AQUACALK equipment:**

For ensuring the functionality of **AQUACALK** equipment it is possible to perform a simple test, which is based on comparing the creation of sediments of the scale for the water without any treatment and the water passed through the **AQUACALK** equipment.

For testing we recommend to use a vessel which is used for common cooking and where sediment of scale is created. Ascertain the volume of untreated water where after boiling there is layer of scale. Then perform the same test with the water passed through the **AQUACALK** equipment. The difference between the volume and the structure of sediments will be similar as in critical places in your distribution lines, heat exchangers and on firm surfaces.

# Technical sheet for the AQUACALK series

## Designation of the product:

**AQUACALK** equipment serves for activation of the creation of micro crystals of calcareous compounds which are not deposited in water distribution lines (pipes), on heat exchangers (heating spirals) and on firm surfaces (e.g. floor tiles, batteries, etc.), and which prevents the origination of scale.

## Options for use:

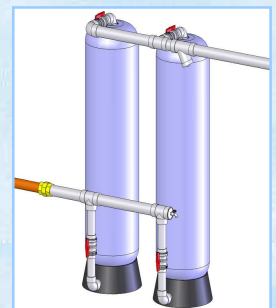
**AQUACALK** equipment can be used in cases where hard water (the content of calcium and magnesium is higher than 2.5 mmol/l – i.e. about 14°N) causes sediments of scales – e.g. in houses, flats, boiler rooms, industrial operating units, etc.

## Water treatment principle:

**AQUACALK** is equipment for water treatment where water passes in a counter-flow regime through the vessel with an active substance which activates the creation of micro crystals with compounds of calcium and magnesium which are carried by flowing water without the creation of scale in critical places.

## Technical parameters of AQUACALK equipment:

OUTPUT	TYPE
<b>SCALESTOP-RESIDENTIAL</b>	
230 l/h	AQ 250
460 l/h	AQ 500
920 l/h	AQ 1000
<b>SCALESTOP-COMMERCIAL</b>	
2 300 l/h	AQ 2500
2 700 l/h	AQ 3000
3 600 l/h	AQ 3500
4 600 l/h	AQ 4500
6 840 l/h	AQ 7000
11 340 l/h	AQ 11500
16 440 l/h	AQ 16500
22 680 l/h	AQ 25000
34 080 l/h	AQ 35000
51 120 l/h	AQ 50000
56 760 l/h	AQ 60000
68 160 l/h	AQ 70000
85 140 l/h	AQ 85000
102 180 l/h	AQ 100000



### **Warranty period and service life:**

The supplier guarantees a warranty period for the **AQUACALK** equipment of two years. The service life of the equipment during the operation on common water is minimally two years without the necessity to replace any active substance.

### **Hygiene requirements:**

The approval certificate was issued by the State Health Institute Czech Republic for **AQUACALK** equipment stating that the equipment fulfils the hygiene requirements required for permanent contact with drinking water, ref. **no. CHŽP: 93/08 EX 080256.**

### **Operating conditions:**

**AQUACALK** equipment is connected to water distribution lines in the manner according to the drawing provided in the User Manual. **AQUACALK equipment must not be allowed to freeze!**

### **Safety of operation:**

The maximum permitted pressure for **AQUACALK** equipment is 1Mpa. **Do not use the equipment for the treatment of water in distribution lines with a pressure higher than the permitted pressure!**

### **Liquidation of product:**

After termination of the service life, the components are to be liquidated in a standard manner in accordance with valid regulations and the Act on Waste. This concerns material of the plastic, metal and harmless waste types.

**Produced by:** 2.5.2008

**Revision:** 31.5.2019

### **AQUACALK equipment supplier:**

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