

# AQUAWELL EXTRA

CONTINUOUS DISINFECTION  
OF WATER IN WELLS.



**AQUA PLUS Ltd.**

## **USING WATER FROM YOUR WELL CAN BE SAFE AGAIN!**

There are many wells in the Czech Republic serving as the only water source for those people using dwellings for a permanent or time limited stay.

Water in wells is of varying chemical, sensoric or microbial quality. Despite often unsuitable chemical characteristics of water in wells, not complying the requirements of drinking water standards (hardness, iron, manganese, nitrites, nitrates, phosphates, ammonium ions, organic substances, etc.) the consumption of such water, due to slightly exceeded levels, cannot lead to serious health hazards.



Contrary to above, using water of microbial quality outside standard limits, containing coliform, fecal bacteria and enterococci as well as the elevated number of mesophilic and psychrophilic microorganisms, requires an immediate intervention. Any harmful effect on users is eliminated.

The well has to be treated first to prevent external contamination (covering an open well, cleaning the well, elimination of penetration of surface water to maximum extent, etc.).

If the contamination is caused by unsuitable underground water (in the vicinity of sewage dumps, drains, fertilizers used on fields, etc.), prevention of continuous contamination of the well is difficult and without elimination of the contaminating source almost impossible.

The only solution is either not to use the water source or to treat it properly. If we disregard a very expensive and not practical boiling of water, either commercially available liquid chlorinating agents (e.g. SAVO) or proportional dosing of disinfecting agents can be used (the agent is dosed based on the treated volume of water).

Adding chlorine-based solutions results in unpleasant sensoric properties, influencing the treated water, as residues of unreacted chlorine cause an unpleasant taste and/or odour of the final water. The proportional dosing devices for chlorine have to be equipped with technical means enabling a time delay. Chlorine should have enough time to react and affect the micro-organisms. Furthermore a dechlorination filter is used, eliminating the unreacted chlorine in the treated water. The costs of such equipment range in tens of thousands CZK. This is very often too high for an investment, especially with seasonally used houses.

### **MANUFACTURER OF KITS:**

AQUA PLUS Ltd., Papírenská 1136/8, 160 00 Prague 6, Czech Republic



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**AQUA PLUS Ltd.**, among other things is developing means for improving the quality of water in smaller residential areas, has introduced a simple, inexpensive and effective product to the market in 2000. It can continuously secure water disinfection in the majority of water wells. The brand name of the product is **AQUAWELL EXTRA**, principally employing a ceramic cartridge. A **disinfecting agent** (chlorine-based) is brought into the cartridge, and into a perforated cylindrical casing. When suitably fixed under the water level, the active disinfecting substance is released by the water, and a sufficient concentration is reached. The whole volume of water (including the walls of the well) is constantly disinfected and the germs are eliminated.



As every water well uses a different scheme of water change, it cannot be fully disregarded that more sensitive consumers might spot some traces of unreacted chlorine in the treated water. For this reason a vitamin-based **dechlorinating agent**, which is a part of the kit, can be added to the water to immediately eliminate all the chlorine present. A dispenser contains the dechlorinating agent for approximately 10,000 litres of water.

The ceramic cartridge can serve for a number of years and **one single dose of disinfecting agent can suffice at least for 4 weeks; in most cases for 2 to 3 months**. By checking the cartridge content and possible replenishing of the disinfecting agent, **AQUAWELL EXTRA** can be kept in operation for the whole year, or the cartridge can be removed from the well and stored for the period of not using it and ready for further resuming the use of the well.

**AQUAWELL EXTRA** kit is supplied in a box, along with the **Instructions for Use** and the **Certificate of Warranty**, describing the conditions of money back

to user who would decide to return the goods within a period of one month.

Spare doses of disinfectant can be purchased from the manufacturer directly, or can be sent via postal order and paid on receipt of consignment.

## WARNING!

**AQUAWELL EXTRA  
IS NOT  
SUITABLE  
FOR  
DRILLED WELS!**



Experiences gained from the test runs and customer's use show that the simple and inexpensive **AQUAWELL EXTRA** equipment meets the demands of potential users and represents further possible means in the improvement of water quality in wells.

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