Monitoring systems
for filling mineral waters and beverages

Laboratory microbiological analysis of water in the process of filling beverages takes 18 to 72 hours.
In case of a positive result, it is necessary to waste the production from the last negative analysis. Due to the long time of laboratory analysis, it is difficult and time-consuming to identify the source of contamination.

The ColiMinder analyzer delivers results in as little as 15 minutes. Unlike standardized laboratory analysis, which is based on visual counting of propagated columns after incubation under a microscope, ColiMinder uses direct measurement of metabolic activity on the enzymatic principle with fluorescence analysis. The measurement is fully automatic and allows both online analysis on several switched channels and manual sample insertion.

Measurements of the overall activity of the ColiMinder instrument are very sensitive and it cannot happen that the instrument shows a negative result, while laboratory analysis of HPC would be positive.
In addition to microbiological activity, the device also measures the transparency of water. Transparency is a suitable additional indicator for monitoring the production process.

Filling of mineral waters

Mineral water is not treated natural water. In some cases, there is a filtration step inserted before the water is filled in bottles. Every single filter is a potential source of microbiological contamination.
The ColiMinder is installed to measure both supply lines of mineral water as they enter the production facility. In case of any elevated measurement result the ColiMinder is sending an alarm and the ColiMinder Addon-Module is filling sample into a sterile bottle for in-depth evaluation of the sample in the lab.

Another possible application is to monitor the final rinsing water of the bottle washing machine.

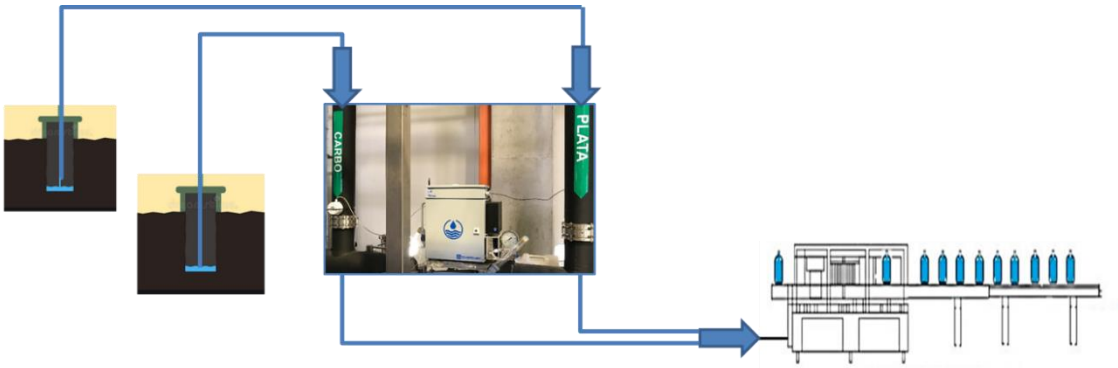
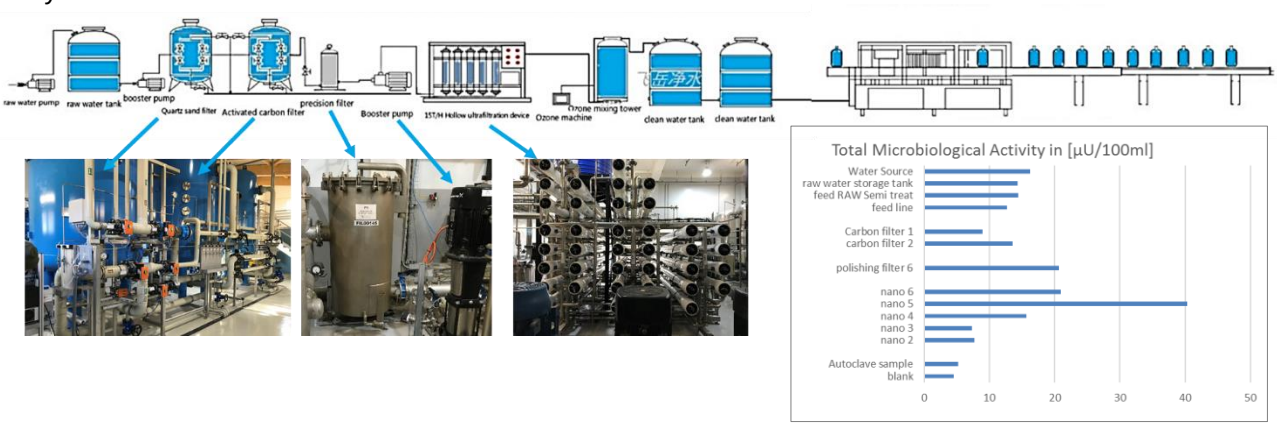


Table water / soda and soft drinks

Bottled water/soda production processes contain several treatment steps. There are different types of filters involved. Every single filter is a potential source of microbiological contamination.
The ColiMinder is used to measure microbiological activity in different points of a soft drink producers bottling plant, as the plant had recurring contamination problems.
With 15 min time to result it only took 1 day to locate the contamination hotspots within the process. In addition the ColiMinder's total activity measurements are much more sensitive than the HPC tests used by the quality-lab to determine CFU/ml.



The ColiMinder device opens up the possibility of significantly increasing the economy and safety of the beverage filling process.

In addition to microbiological analysis, a wide range of on-line analysis of chemical and physical components is available, as well as drinking water toxicity, treatment processes, filter integrity, product leakage and organic and inorganic wastewater pollution.

For detailed information on solutions of your interest we are gladly available:

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