onCyt

sysmex | Lighting the way with diagnostics

Microbial On-Line Monitoring

Continuous and automated analysis of water in industrial processes

Sysmex / onCyt's complete On-Line solution

The Sysmex / onCyt On-Line-Monitoring solution enables the laboratory independent, continuous real-time analysis of the microbial status of many different liquid matrices. The complete solution consisting of the CyFlow™ Cube 6 V2m analyser and the onCyt™ OC-300 automation unit, ensures utmost flexibility paired with unexcelled ease of use. The CyStain™ BacCount reagents complete our solution for the routine quality control of water samples.

CyFlow™ Cube 6 V2m with onCyt™ OC-300 automation unit and the CyStain™ BacCount kit

1

INSTRUMENT: CyFlow™ Cube 6 V2m

Analysing samples manually or from online unit

2

SAMPLING STATION: OC-300

Complete sample preparation (staining, mixing, incubation, dilution)

3

REAGENTS: CyStain™ BacCount

BacCount Total: Detection of all bacteria
BacCount Viable: Detection of viable bacteria

4

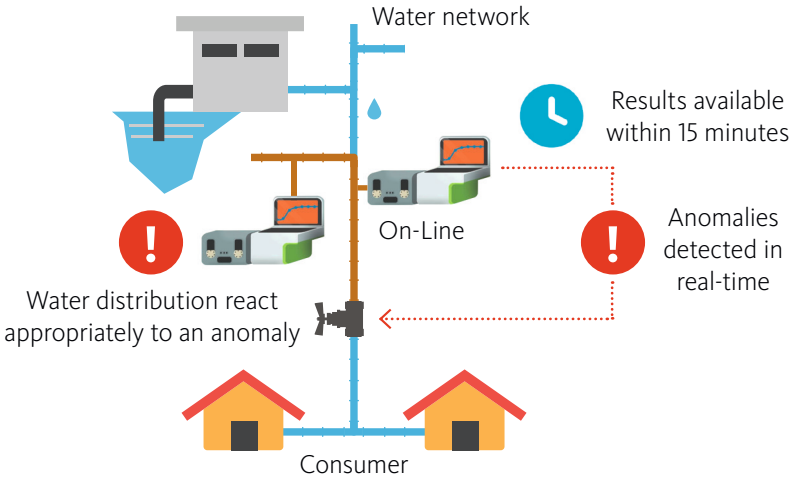
DATA ANALYSIS

Meaningful results and reports in real-time 24/7

Monitoring options – Always know your water quality

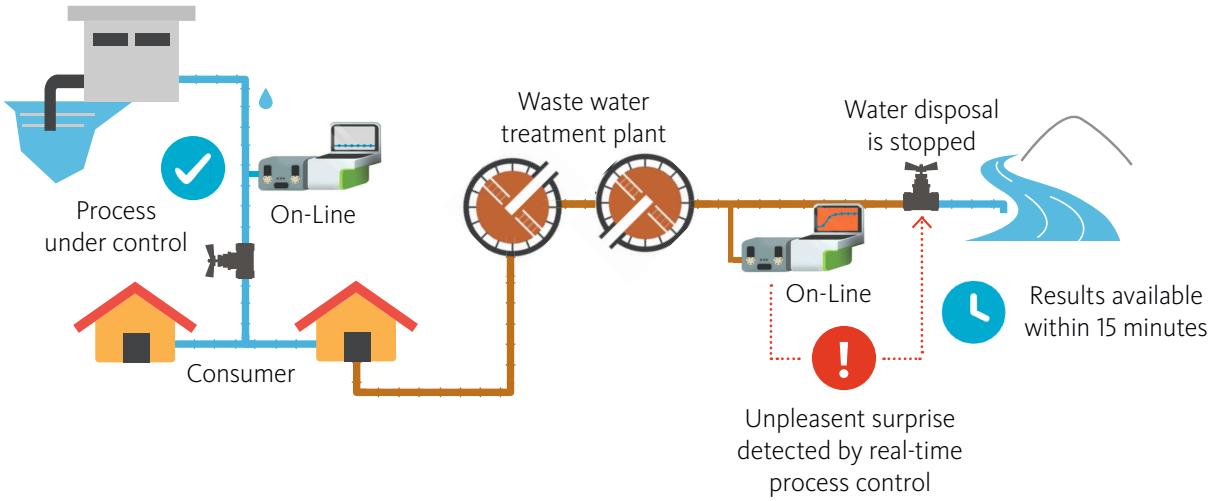
The continuous detection in real-time of the count, composition, and viability of microbes opens a new era of quality monitoring for various application areas. (1) Synchronized surveillance at different points in a network to detect the origin of a complication, (2) Process Control to provide an early warning, which allows to react fast and appropriate and contain possible issues and (3) Process Optimisation to improve various processes like cleaning and disinfection in water treatment.

1. Network Surveillance



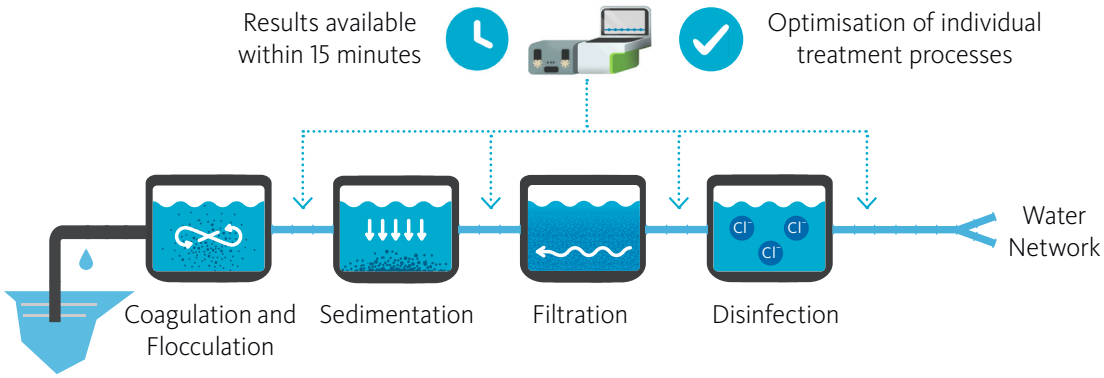
- Continuous surveillance of water quality at different stations in real-time
- Identifying the origin of a “complication” in a network by synchronizing multiple online monitoring sites
- Ability to react fast enough to contain the problem and keep it local

2. Process Control



- Avoiding unpleasant surprises by maintaining continuous process control
  - » Membrane integrity control, immediate detection of a disruption allows immediate and appropriate actions (containment)
  - » Prevent biofouling by checking the bacterial community of influent and effluent and/or water used for cleaning (act in advance to prevent problems)

3. Process Optimisation



- Optimisation of individual treatment processes
  - » Effectiveness of Cleaning / Clearing, ratio of bacterial count in influent and effluent
  - » Effectiveness of disinfection processes. Minimal dose, prolonged effect (e.g. residual chlorine)

Key benefits

- Real-time microbial On-Line monitoring
- 24/7 automated sample acquisition and measurement
- Early detection of malfunctions, defects or external influences allowing prompt actions
- Objective clear-cut decisions
- Fully customisable automation modes for On-Line sampling, sample processing, and measurements at high temporal resolution
- Reproducible and meaningful results, laboratory-independent and everywhere

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