

# MISCEA AQUALIBUR

Innovative Water Hygiene Technology

Prevention of water stagnation, recontamination, biofilm formation





*Biofilm may form on surfaces and can be prevalent in natural, industrial and hospital settings.*

#### EXPERTISE IN WATER QUALITY AND HYGIENE

miscea aqualibur water hygiene technology is the result of the successful collaboration between miscea GmbH and Waterhouse ATT – two companies, both with over 20 years' experience in the sanitary industry on water quality and hygiene.

Together, miscea aqualibur was developed to efficiently keep the internal components of sanitary fittings clean, hygienic, and prevent waterborne contaminations caused by various factors.

The core components of the miscea aqualibur system enables safe and automatic internal flush cycles, and when required, also chemical disinfection of the waterline without disturbing the immediate surroundings.

***Enjoy completely automatic internal flush cycles for contamination free water.***

#### Problems you can encounter

- Corrosion
- Biofilm
- Unsafe water temperatures
- Water stagnation
- Bacterial contamination
- Chemical contamination
- other issues that can threaten the health of staff and everyone in your facility

These issues can be prevented by using miscea aqualibur technologies



*“Regular flushes are the best protection against bacterial contaminations in premise networks”*

*- Dr. Walter Dormagen, TÜV Rheinland*

Dr. Dormagen recommends a weekly flush at 70°C. The disadvantage, however, is the increased risk of scalding at the points of use. As a result, special measures must be taken to prevent injuries (Dormagen, 2012).

### safer water quality management

During thermal disinfection, fittings with miscea aqualibur can be blocked from usage or switch to a safe water temperature and release for use only when the water reaches a safe temperature.

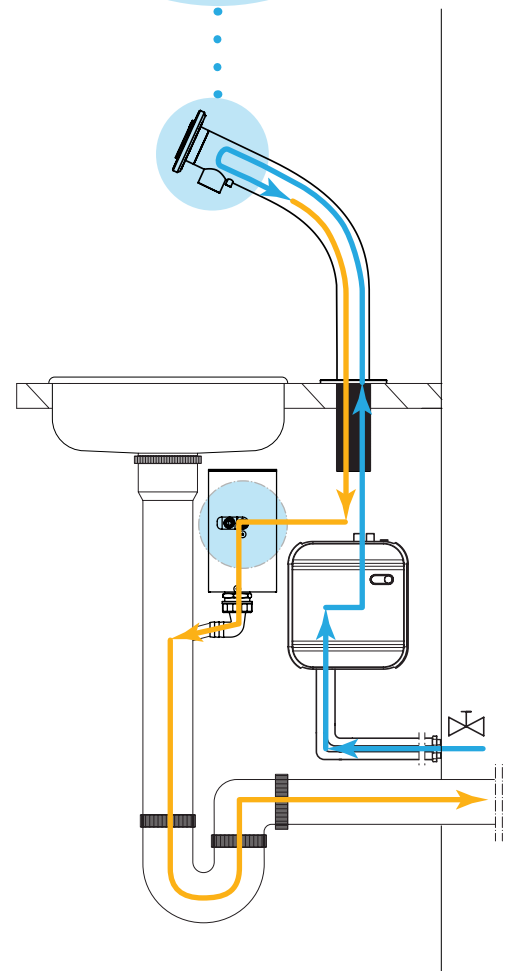
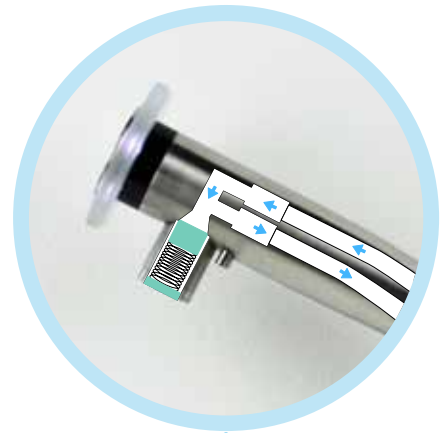
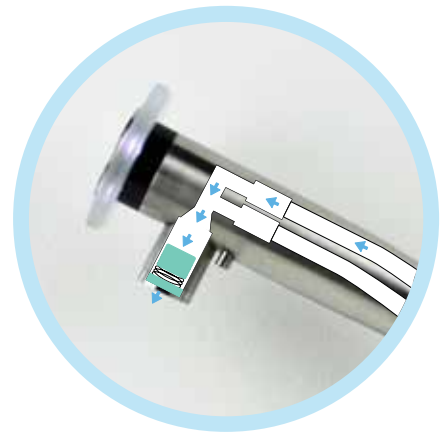
During chemical disinfection, fittings are blocked from use.

#### WHAT IS MISCEA AQUALIBUR TECHNOLOGY?

miscea aqualibur technology is the internationally patented water hygiene technology that prevents water stagnation, recontamination, and the formation of biofilm in sanitary fittings. The technology consists of the following components.

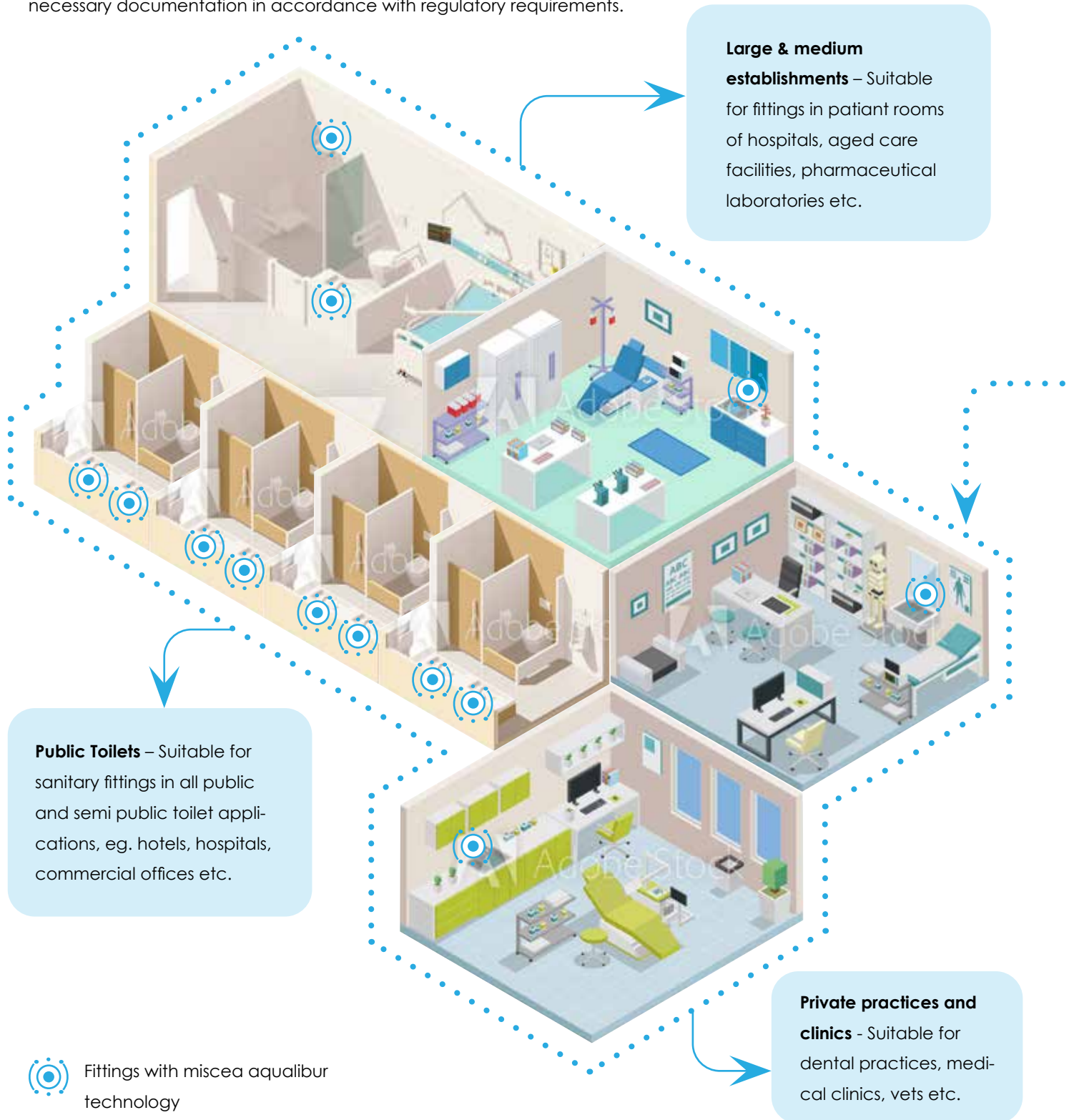
- **Inline Circle System (ICS)** – a special valve built into the sanitary fitting and allows scheduled water purges, cleaning, and disinfecting the fitting to occur internally and without any fluids flowing out of the fitting outlet itself.
- **aqualibur hygienic drain (HyDrain)** – an unobstructed free outlet developed according to DIN EN 1717 and features overflow sensors. The HyDrain prevents regressive contamination of the system and automatically blocks the system from use if the overflow sensor comes in contact with water.

The miscea aqualibur system is a comprehensive solution for water quality control within a premise plumbing network. The system works to firstly prevent bacterial outbreaks in water systems within a facility and to secondly enable effortless disinfection of the system in case of bacterial outbreaks.



## MISCEA AQUALIBUR SANITARY FITTINGS NETWORK

Sanitary fittings with miscea aqualibur technology are equipped with a Wi-Fi module that can be controlled via the miscea Connect App - the web-based application from miscea that is connected to a secure cloud server. The miscea Connect App enables centralized control and management of sanitary fittings within a facility, while also providing necessary documentation in accordance with regulatory requirements.





**Secure Cloud Server** – All sanitary fittings with miscea aqualibur technology in a facility can be centrally controlled and managed via the miscea Connect App. All data is secured and saved for up to 6 years.

#### MISCEA CONNECT WEB APP

By installing miscea aqualibur products within a facility, a network of smart fittings is created and the foundation for a centralized management and control system is established. Once this network of smart fittings is connected to the miscea Connect App, the water quality within the facility can be more efficiently managed.

With the miscea Connect App, sanitary fittings can be set to perform automatic flushes based on conditions defined by the user, such as:

- at specific time intervals
- after a period of time the fitting has not been in use
- when the water reaches a certain temperature

Stagnation prevention requirements can vary from one facility to another, and even from one point of use to another. With the miscea aqualibur system and through the miscea Connect App, flushing can be programmed according to individual Water Management Plans. Flush programs can be set:

- for defined groups (e.g. by floor, department, room)
- for all faucets within a facility
- if required, specifically for each individual fitting

The miscea Connect App can easily generate hygiene flush protocols in PDF format with detailed information on date, time, rinsing duration, rinsing quantity and water temperature.

# THE BENEFITS

## Advantages of using miscea aqualibur

### REDUCE MAINTENANCE COSTS

- reduction in time-, labour-, and cost-intensive manual flushing procedures
- reduction in payroll expenses
- POU filters not required
- reduction in water costs

### PROACTIVE APPROACH VS. REACTIVE APPROACH

- more efficient implementation of water management plan even in low use periods
- continuous and cost effective water quality monitoring

### SAFER SURROUNDING ENVIRONMENT FOR PATIENTS AND STAFF

- Thermal- and chemical disinfection procedures safer to perform.
- Reduction in downtime, disruptive repairs, and disruptions to daily operations
- No risk of exposure to water droplets or aerosols created during flushing procedures
- Ensures high quality water is always available at all points of use, even in low use locations
- Reduce organisational risk
- Compliance to applicable regulations
- High quality water from production to consumption

### REAL TIME DATA LOGGING OF IMPORTANT PARAMETERS

- Automatic, instant, accurate, detailed insight
- Prevents human error associated with manual flush implementations
- Flush logs documented according to legal requirements
- On demand reporting
- All measurement data available at a glance and easy to use

### SUSTAINABLE SOLUTION

- Paperless documentation
- Reduction in water wastage



*Use miscea sensor faucet systems combined with miscea aqualibur technology can help to improve hand hygiene and reduce healthcare associated infections.*



**Tierklinik Hoffheim**  
Hoffheim, Germany

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**Dental Practice**  
Amsterdam, The Netherlands

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**Hospital**  
Warsaw, Poland

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# MISCEA AQUALIBUR

Prevention of water stagnation, regressive contamination, and biofilm formation

## YOUR BENEFITS

By choosing miscea aqualibur technology, you benefit from:

- High quality and safe water from production to consumption for staff, patients and guests
- Compliance to applicable regulations
- Minimal downtime and disruptions to daily operations
- Efficient implementation of water management plan
- Reduction in maintenance costs
- Safer surrounding environment for occupants
- Remote access and control of sanitary fitting network
- Real time automatic logging of various usage data, flushing, and disinfection values
- Continuous 24/7 monitoring of water parameters
- On demand reporting and paperless documentation
- Secure cloud server with SSL encryption
- All measurement data available at a glance

## MISCEA GMBH IN A NUTSHELL

- Focus on quality, innovations and service
- In-house engineering, 3D CAD design, R&D department
- Fully equipped workshop
- All disciplines and facilities under one roof
- Short delivery times
- ISO 9001:2015 certified company
- over 20 years industry experience

- ✓ WRAS certified products
- ✓ DGVW certified products
- ✓ UL certified products
- ✓ CE certified products

## MISCEA GMBH

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