

EXPERIENCE THE MISCEA AQUALIBUR SYSTEM

EXPERTISE IN WATER QUALITY AND HYGIENE

Maintaining a safe water quality level within a building's plumbing network is an ongoing challenge for owners and facility managers. If not managed properly, especially if the water has been stagnant for prolonged periods, the water can become unsafe to drink or use and can pose a risk to public health.

With over 18 years in the industry, specialist expertise, in-house design, engineering and production, miscea GmbH delivers innovative solutions for your water safety and hand hygiene related needs.

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

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

PROBLEMS YOU CAN ENCOUNTER

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

PROBLEMS WITH CURRENT METHODS

- Labour intensive
- Risk of accidents or exposure to unsafe chemicals and aerosols
- Cost intensive
- Inefficient
- Disruptive to daily operations

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



Image: Inside a regular water tube

“Regular flushes are the best protection against bacterial contaminations in premise networks” ~ Dr. Walter Dormagen, TÜV Rheinland

Dr. Dormagen recommends a weekly flushes 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

In contrast to regular taps, miscea aqualibur fittings enable water flushes to occur discreetly inside the fitting, without exposing occupants to potentially harmful aerosols, chemicals or hot water. The flushes reach all the way to the aerator in the tap outlet.

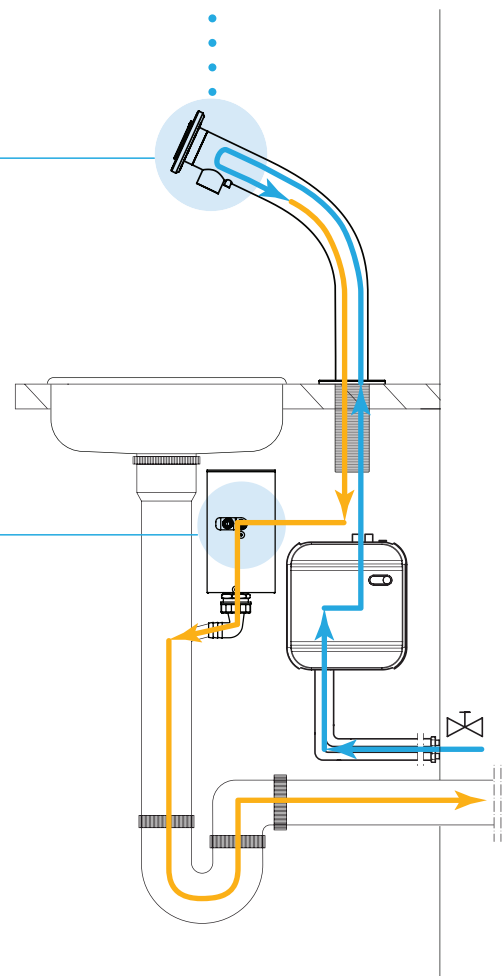
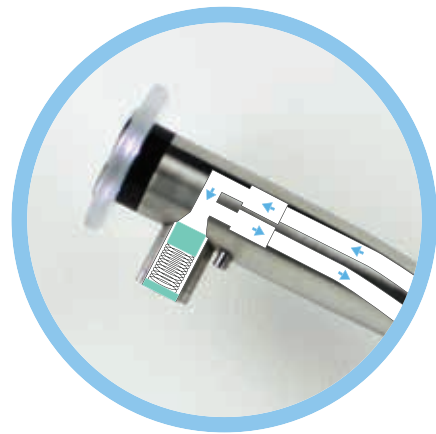
WHAT IS MISCEA AQUALIBUR TECHNOLOGY?

miscea aqualibur technology is the internationally patented water hygiene technology that prevents water stagnation, regressive contamination, 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 that allows scheduled flushes, cleaning, and disinfecting the fitting to occur internally. The purged water flows directly into the aqualibur HyDrain. During thermal disinfection, fittings 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.

aqualibur Hygienic Drain (HyDrain) – has 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.



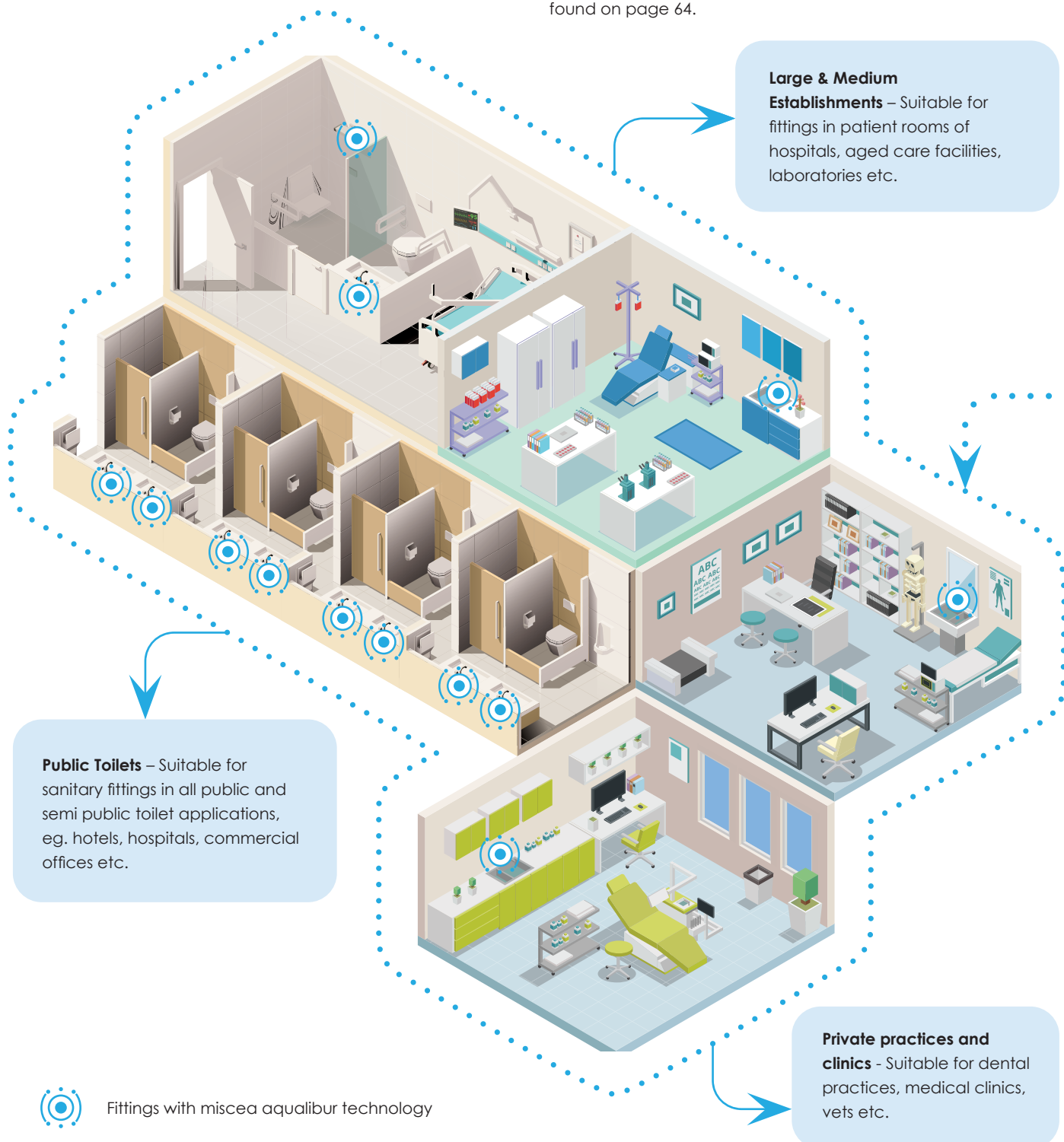
PRODUCT INFORMATION: MISCEA AQUALIBUR SYSTEM

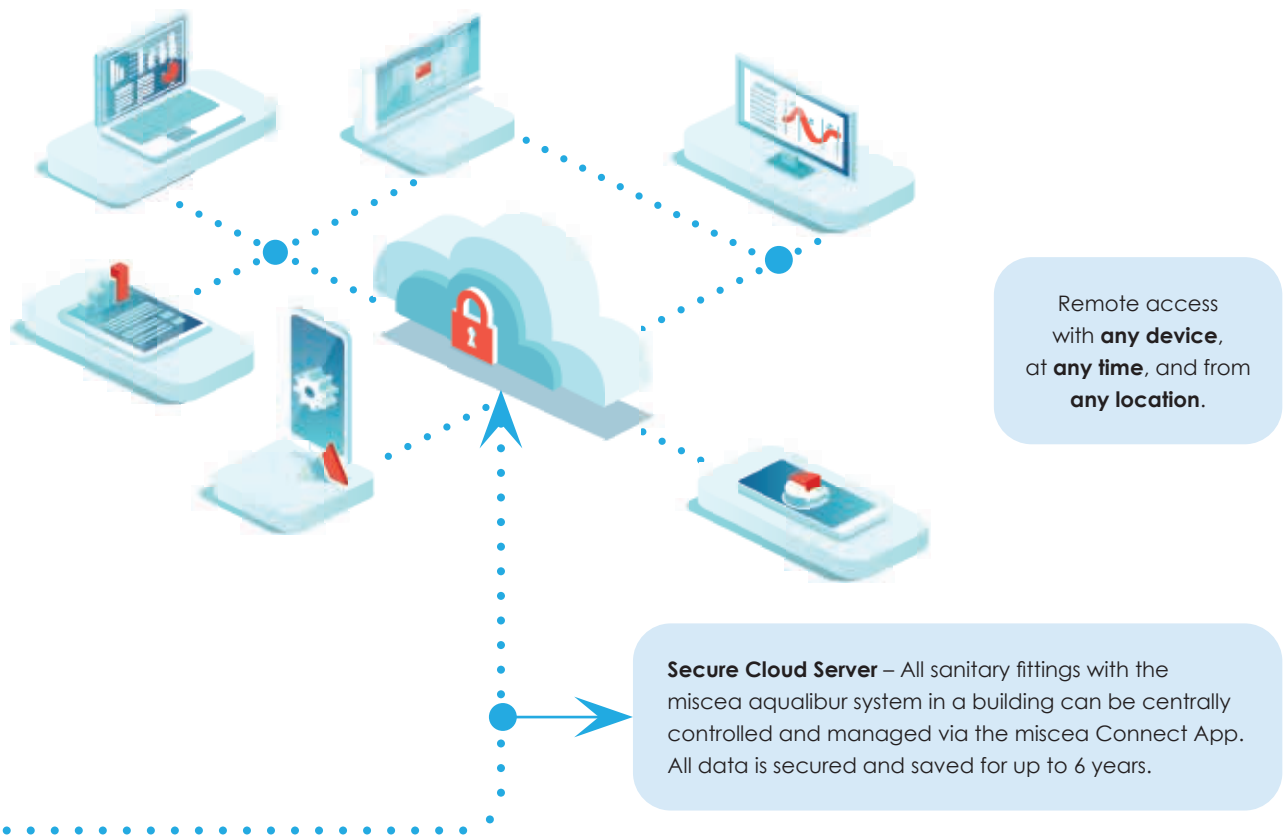
MISCEA AQUALIBUR SANITARY FITTINGS NETWORK

Sanitary fittings with the miscea aqualibur system 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.

More information about the miscea Connect App can be found on page 64.





By using miscea aqualibur systems 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.

Benefit from many advantages with the miscea aqualibur system.

REDUCE MAINTENANCE COSTS

- Reduction in time-, labour-, and cost-intensive manual flushing procedures
- Reduction in payroll expenses
- Reduction in water costs

REDUCE RISK AND COMPLY WITH LEGAL REQUIREMENTS

- Reduce organisational risk
- Compliance to applicable regulations

PROACTIVE APPROACH VS. REACTIVE APPROACH

- More efficient implementation of water safety plan even in low use periods
- Continuous and cost effective water quality monitoring
- Minimal downtime and disruptions to daily operations

SAFER SURROUNDING ENVIRONMENT

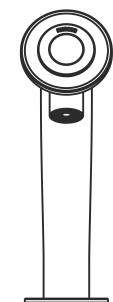
- Thermal- and chemical disinfection procedures safer to perform
- No risk of exposure to contaminated water droplets or aerosols created during flushing procedures
- Ensures high quality water is always available at all points of use, even in low use locations

SUSTAINABLE SOLUTION

- Paperless documentation
- Reduction in water wastage

PRODUCT INFORMATION: MISCEA AQUALIBUR

MAIN SYSTEM COMPONENTS:



MISCEA
AQUALIBUR
FAUCET

+

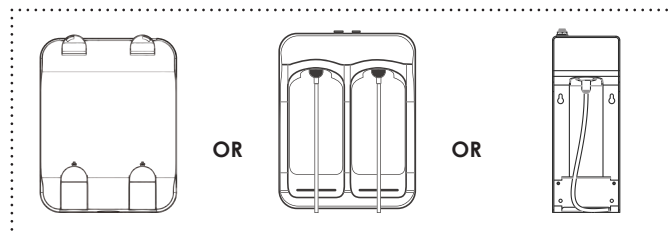


HYDRAIN

+

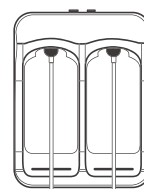


WATERBOX + WIFI



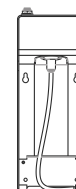
FOR POUCHES

OR



FOR BOTTLES

OR



FOR BOTTLE 1x1L

DESCRIPTION

miscea sensor faucet with touch free water temperature controls, fitted with miscea aqualibur water hygiene system. Options for integrated soap and disinfectant dispensers available.

FEATURES

- Electronic faucet with touch free water temperature controls
- Automatic internal flushing for prevention of waterborne bacteria. Cycles adjustable with the miscea remote control or miscea Connect App (sold separately).
- miscea HyDrain - prevents retrograde contamination of the system and overflow.

INCLUDED

- miscea faucet fitted with miscea aqualibur technology. Select between the following miscea faucet models: **CLASSIC / CLASSIC Pure S / CLASSIC Pure W / KITCHEN** Compatible with the miscea Connect App (available separately. See page. 65)
- Waterbox with WiFi Module
- miscea HyDrain
- *Soapbox
- *miscea Liquids
- Stainless steel braided hoses for hot and cold water connections (850 mm)
- Power plug (Cable length 1800 mm)
- 1 x Installation kit, 1 x Instruction manual

FINISH OPTIONS:



Stainless steel



Polished chrome

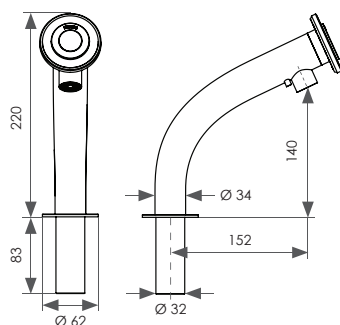
SPECIFICATIONS

Voltage	24 V _{DC}
Input voltage	100 ~ 240 V _{AC} / 50 - 60 Hz
Operating pressure	0,5 - 8 bar
Max. water temp	70 °C
IP rating of PCB	IP 55

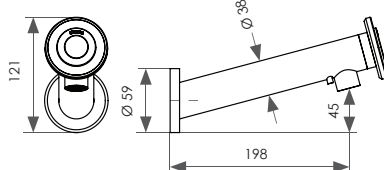
All measurements are in mm. *Available only with selected models.

MODEL / DIMENSIONS:

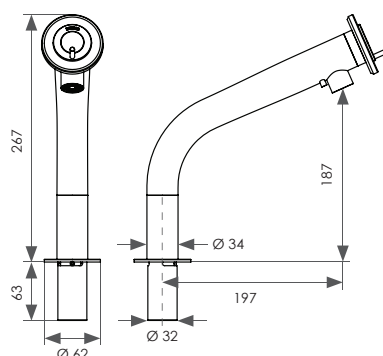
For wall models, you can purchase a separate concealed mounting element with item number S02043001 for €49.95. See page 88 for more information.



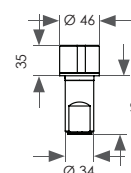
Standard



Wall



KITCHEN Standard



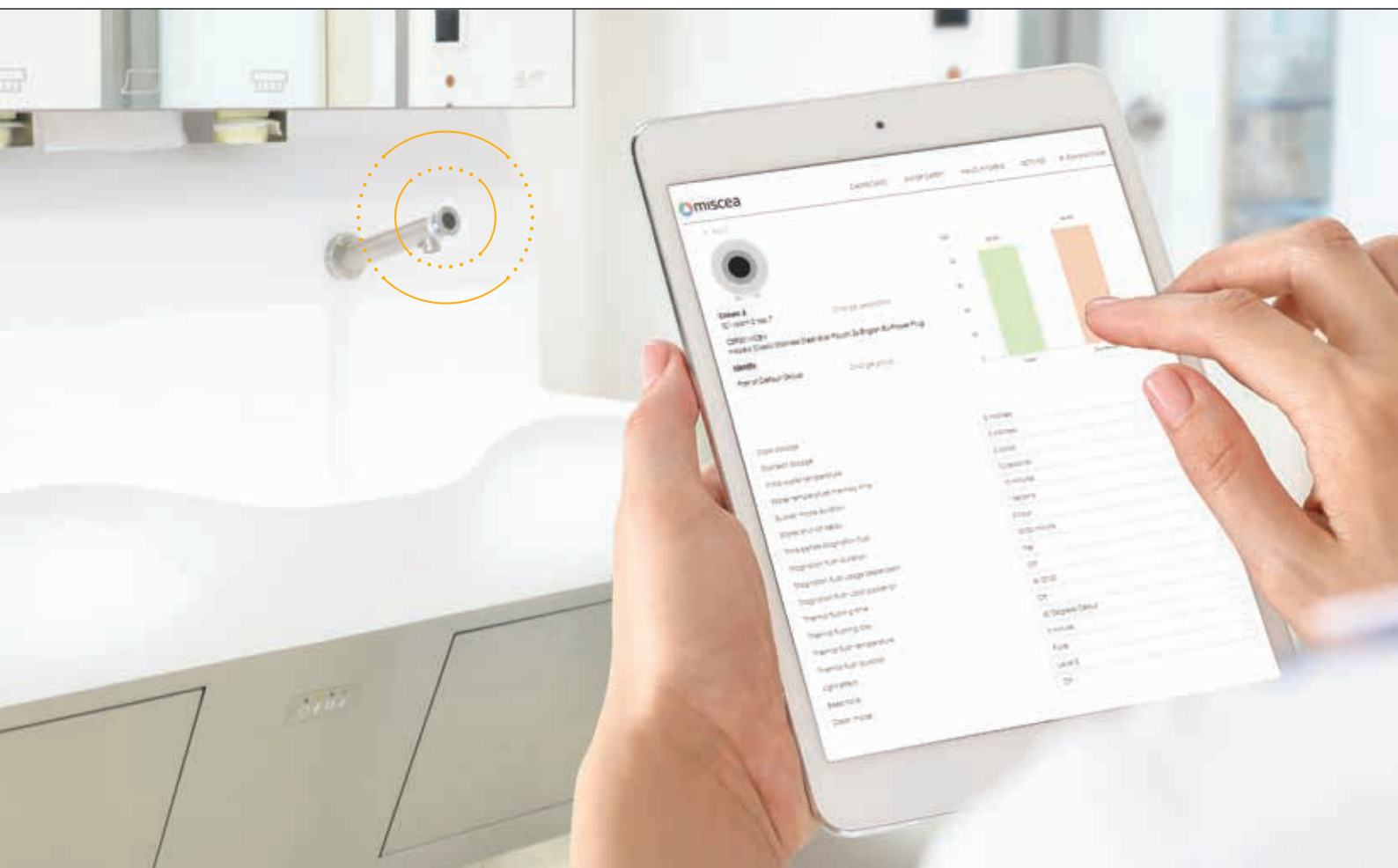
Water flow regulator

PRODUCT INFORMATION: MISCEA AQUALIBUR

MODEL / DISPLAY	ART. NR.	FINISH OPTIONS		MODEL			SOAPBOX TYPE			ACCESSORIES		FUNCTIONS					PRICE €
		Stainless Steel	Polished chrome	Standard	Wall	Kitchen Standard	None	Pouch	Bottle	Water flow regulator		Water temperature control	Integrated Soap	Integrated Disinfectant	aqualibur Technology	Rotatable faucet body	
CLASSIC 	*CAER1S1NCDE	✓		✓				✓				✓	✓	✓	✓		1.395,00
	*CAER1S2NCDE	✓		✓					✓			✓	✓	✓	✓		1.495,00
	*CAER3S1NCDE	✓			✓			✓				✓	✓	✓	✓		1.395,00
	*CAER3S2NCDE	✓			✓				✓			✓	✓	✓	✓		1.495,00
	*CACR1S1NCDE		✓	✓				✓				✓	✓	✓	✓		1.395,00
	*CACR1S2NCDE		✓	✓					✓			✓	✓	✓	✓		1.495,00
	*CACR3S1NCDE		✓		✓			✓				✓	✓	✓	✓		1.395,00
	*CACR3S2NCDE		✓		✓				✓			✓	✓	✓	✓		1.495,00
	*CAER1S1NCDETO	✓		✓				✓					✓	✓	✓		1.295,00
	*CAER1S2NCDETO	✓		✓					✓				✓	✓	✓		1.395,00
	*CAER3S1NCDETO	✓			✓			✓					✓	✓	✓		1.295,00
	*CAER3S2NCDETO	✓			✓				✓				✓	✓	✓		1.395,00
	*CACR1S1NCDETO		✓	✓				✓					✓	✓	✓		1.295,00
	*CACR1S2NCDETO		✓	✓					✓				✓	✓	✓		1.395,00
	*CACR3S1NCDETO		✓		✓			✓					✓	✓	✓		1.295,00
	*CACR3S2NCDETO		✓		✓				✓				✓	✓	✓		1.395,00
CLASSIC PURE W 	CAER1NC	✓		✓			✓					✓			✓		1095,00
	CAER3NC	✓			✓		✓					✓			✓		1095,00
	CACR1NC		✓	✓			✓					✓			✓		1095,00
	CACR3NC		✓		✓		✓					✓			✓		1095,00
CLASSIC PURE S 	CAER1S1NC	✓		✓				✓				✓	✓		✓		1.195,00
	CAER1S2NC	✓		✓					✓			✓	✓		✓		1.245,00
	CAER3S1NC	✓			✓			✓				✓	✓		✓		1.195,00
	CAER3S2NC	✓			✓				✓			✓	✓		✓		1.245,00
	CACR1S1NC		✓	✓				✓				✓	✓		✓		1.195,00
	CACR1S2NC		✓	✓					✓			✓	✓		✓		1.245,00
	CACR3S1NC		✓		✓			✓				✓	✓		✓		1.195,00
	CACR3S2NC		✓		✓				✓			✓	✓		✓		1.245,00
KITCHEN 	KACR4S1NC		✓			✓		✓		✓		✓	✓	✓	✓	✓	1.595,00
	KACR4S2NC		✓			✓			✓	✓		✓	✓	✓	✓	✓	1.695,00
	KACR4S1NC0		✓			✓		✓				✓	✓	✓	✓	✓	1.495,00
	KACR4S2NC0		✓			✓			✓			✓	✓	✓	✓	✓	1.595,00
	KAER4S1NC	✓				✓		✓		✓		✓	✓	✓	✓	✓	1.595,00
	KAER4S2NC	✓				✓			✓	✓		✓	✓	✓	✓	✓	1.695,00
	KAER4S1NC0	✓				✓		✓				✓	✓	✓	✓	✓	1.495,00
	KAER4S2NC0	✓				✓			✓			✓	✓	✓	✓	✓	1.595,00

Prices are exclusive of VAT, and shipping costs. *Alternative display language in German and French available upon request.

PRODUCT INFORMATION: MISCEA CONNECT APP



EXPERIENCE THE MISCEA CONNECT APP

MISCEA CONNECT WEB APP

With the miscea Connect App, 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

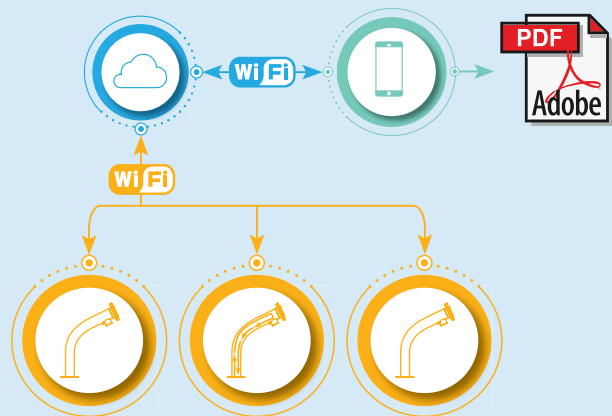
Stagnation prevention requirements can vary from one facility to another, and even from one point of use to another. However, with the miscea Connect App, flushing can be programmed according to individual Water Safety Plans. Flush programs can be set:

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



miscea Connect App

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



miscea aqualibur network of sensor faucets

miscea sensor faucets with aqualibur technology are equipped with a Wi-Fi module to form a network that can be controlled via the web-based application, miscea Connect App.

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

CENTRALIZED MANAGEMENT AND CONTROL

- Remote access and control of sanitary fitting network
- Real time automatic logging of various usage data, flushes, and disinfection values
- Continuous 24/7 monitoring of water parameters
- Secure cloud server with SSL encryption

A one time payment of 50€ enables access to the miscea Connect technology and unrestricted use of the miscea Connect App.

It can be ordered as an option when purchasing a miscea system from the CLASSIC, CLASSIC Pure or KITCHEN series. Simply add the letter "C" to the end of the article number when ordering.

For example, if you order the CER3S2NCDE system, you cannot use the faucet with the miscea Connect App.

If you order CER3S2NCDEC instead, you can use miscea Connect technology together with the miscea Connect App free of charge.