



# AQUAPAY CHARGEABLE WATER DELIVERY

Economical showering saves resources



WASHROOM SYSTEMS



# THE AQUAPAY SYSTEM – ECONOMICAL AND FAIR

A high level of water consumption and the steady increase in operating costs are typical of public shower facilities. There are various reasons for this: the unlimited provision of free water, heavy usage and a constantly changing clientele. This is added to by the lack of user awareness of the costs and the responsible use of drinking water.

In response to this issue, the AQUAPAY system for chargeable water delivery provides operators of public shower facilities with an efficient solution. This system makes operating shower facilities more economical, it saves valuable water and energy resources and enables the cost of the facilities to be easily calculated.

The AQUAPAY coin-activated controllers are connected to the AQUA 3000 open water management system.

When interacting with the intelligent control technology of AQUATIMER and PROTRONIC - A3000 open shower fittings, this system enables an individual and fair method of payment for actual water consumption. The resulting reduction in operating expenses goes hand in hand with state-of-the-art electronic fittings that offer comfort and hygiene to the user.

Three different models of these coin-operated controllers provide different solutions for different applications: in single shower facilities for controlling a single AQUA 3000 open shower fitting, multiple shower facilities for controlling a maximum of 31 shower fittings of this type, and for volume-dependent water delivery, for example in filling stations in yacht harbours for filling up drinking-water tanks.



#### System advantages

- Economical operation of shower facilities
- Responsible use of valuable water and energy resources
- Only the actually used water-time is paid for
- Water-delivery time per coin/token is adjustable
- Residual time can be deleted after a programmed time of non-use
- Can be switched to unpaid water delivery

#### Application areas

- Camping sites
- Shower rooms in sports facilities used by schools and clubs
- Swimming baths
- Leisure centres
- Car-wash facilities
- Filling stations
- Yacht harbours



#### Features

- For single shower facilities
- For multiple shower facilities with maximum 31 AQUA 3000 open fittings
- For volume-dependent water delivery
- Optionally for coin (0.50 EUR) or token operation
- Sturdy stainless-steel casing with safety lock
- With display for operating condition and special functions, such as for performing a thermal disinfection

#### Customised parameter definition

With the help of a web server which is integrated in the ECC2 function controller and the visualisation via a web browser, the user is provided with the following configuration options:

- Adjustment of water-delivery duration per coin/token in steps of one second up to a total of 8 minutes
- Setting the time window until the shower facility becomes available after paying
- Time until the credited amount is deleted when not used

# THE COIN-OPERATED CONTROLLER – LOGICAL AND WITH MANY FEATURES

The easy to operate AQUAPAY coin-operated controllers feature a logical user guide that is second to none. When several showers are connected, the shower unit can be simply selected by pushing a button on the coin-operated controller. After up to 30 coins or tokens have been inserted, the display shows the time account and the selected shower is by default enabled 10 seconds later.

The person using the shower pays only for the time that water is in use. He or she can interrupt the flow of water with the fitting as often as required, without this having any effect on the effective usage time that was paid for in advance. In the basic configuration, the water-flow time per coin is 3 minutes. To ensure problem-free shower operation, any residual credit is deleted after a factory-set default time of 5 minutes of nonuseage.

Operation with tokens offers maximum theft protection for the operator. When operated with coins, an intelligent coin tester facility ensures that no invalid coins can be used.

Of course, the new AQUAPAY system has a switch with which the system can be turned to unpaid water delivery, for example when the shower facilities are being used by schools.



#### Overview of shower fittings

- Fittings with Piezo-button or withinfrared sensor
- Thermostat fittings with convenient temperature selection
- Concealed in-wall installation models with sturdy stainless steel cover plate
- Shower panels made of stainless steel, mineral material MIRANIT or with glass front.
   For easy on-wall installation without structural interventions

# THE SHOWER FITTINGS – INTELLIGENT AND EASY TO USE

AQUAPAY coin-operated controllers are being provided in combination with the new shower fittings generation that is part of the AQUA 3000 open water management system. With AQUATIMER showers, the user triggers water flow by lightly touching the Piezo-button. An integrated start/stop function makes it possible to interrupt water flow, for example to allow the user to soap hands or wash hair. During this activity the timer for delivering the prepaid water is stopped and continues only when the fitting is actuated again. PROTRONIC shower fittings have an infrared sensor that triggers water flow without any contact.

The shower fittings are available for connection to pre-mixed warm water or as a comfort version equipped with a thermostat.

These electronically controlled fittings provide the operator with the additional benefit that thermal disinfections can be performed easily as a measure to ensure drinking-water hygiene.

Last but not least, each new-generation AQUA 3000 open shower fitting provides the option to incorporate customerspecific payment systems.

If there is already an AQUA 3000 open installation and it should be extended with AQUAPAY then this can be done very simply. The installation can be checked whether your system is "Aquapay-ready", or whether hardware or software upgrades are necessary – all of which can be done through the Franke customer service.

# **INSTALLATION PROCESS – EASY AND FAST**

With the help of a mounting frame, the coin-operated controller is mounted on a wall outside of the splash area.

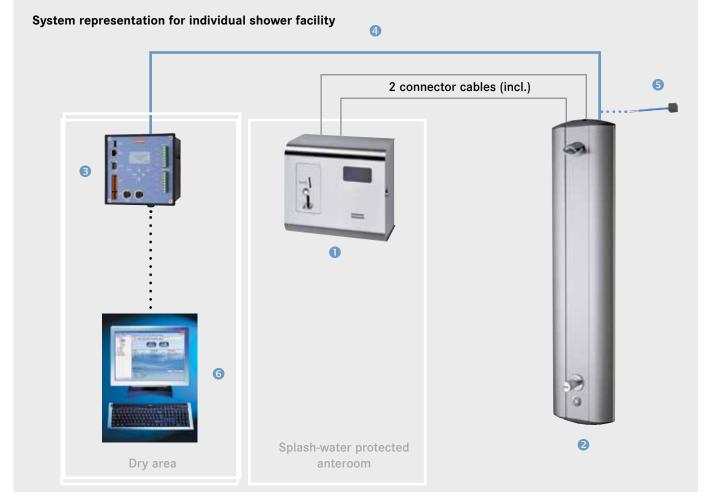
With individual shower facilities, the AQUATIMER or PROTRONIC A3000 open shower fitting is connected to the coin-operated controller via two connector cables, while multiple shower units are connected via the system cable. The maximum cable length in multiple shower facilities is 200 m.

The overall system is electrically powered via an ECC2 function controller from the AQUA 3000 open range of accessories. It can power up to 31 shower fittings and the coin-operated controller.

#### Installation components at a glance

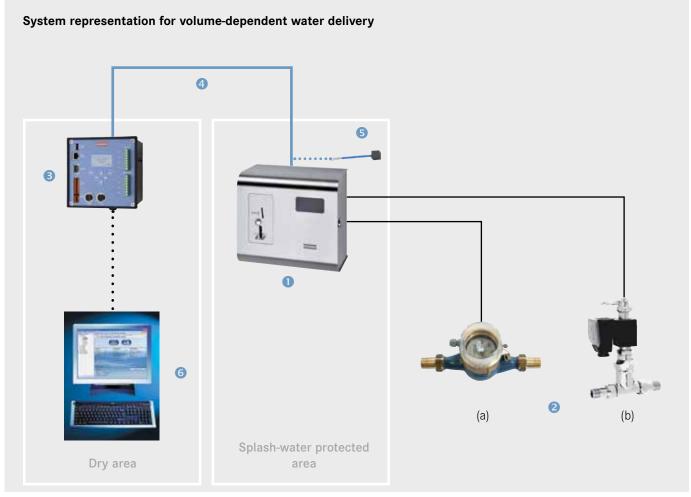
To completely equip your shower room facility with the AQUAPAY system you will need just 6 components:

- AQUAPAY coin-operated controller
- AQUATIMER or PROTRONIC A3000 open shower fitting. A contact water meter (a) and a self-closing solenoid valve (b) for volume-dependent water delivery
- ECC2 function controller with integrated power supply and Ethernet connection
- System cable for power supply and communication
- 5 Terminating resistor
- 6 Web browser (recommendation: Internet Explorer (from version 8), Firefox (from version 9)) for building-specific configuration options



#### System representation for multiple shower facility





VIEW



TYPE / MODEL

#### **Coin-operated controller for single shower**

AQUAPAY coin-operated controller for paid water delivery for controlling an A3000 open shower fitting. Shower duration for one coin is selectable in steps of one second up to a total of 8 minutes, preset to 3 minutes, maximum number of coins 30. Automatic interruption of shower-duration when water is not being withdrawn, display for residual time. Residual time is deleted after 1-30 minutes of non-use, preset to 5 minutes. Can be switched over to unpaid water delivery. Mechanical coin tester with opto-coupler for coins or tokens. Rugged stainless steel housing for on-wall mounting, with safety lock. 24 V DC

240 × 220 × 130 mm (W × H × D)

 AQUA800
 for tokens

 AQUA801
 for 0.50 €

2000100340 2000100342

ITEM-NUMBER



#### Coin-operated controller for max. 31 showers

AQUAPAY coin-operated controller for paid water delivery for controlling 2 - 31 A3000 open shower fittings. Display for user guide and display showing free shower units, key selectable. Shower duration for one coin is selectable in steps of one second up to a total of 8 minutes, preset to 3 minutes, maximum number of coins 30. Shower duration is interrupted when water is not withdrawn; residual time is deleted after 1-30 minutes of non-use, preset to 5 minutes. Can be switched over to unpaid water delivery. Mechanical coin tester with opto-coupler for coins or tokens. Rugged stainless steel housing for on-wall mounting, with safety lock. 24 V DC

 $240 \times 220 \times 130$  mm (W × H × D)

AQUA802 for AQUA803 for

for tokens for 0.50 € 2000100418 2000100419

Optional accessories:

Numbering plate for shower units from 0 to 9. From shower number 10, each shower unit requires two plates. Please indicate numbers and quantity when placing the order.  $85 \times 125 \text{ mm} (W \times H)$ 

#### VIEW

#### TYPE / MODEL

#### ITEM-NUMBER



Coin-operated controller for max. 31 showers for in-wall mounting

AQUAPAY coin-operated controller for paid water delivery for controlling 2 - 31 A3000 open shower fittings. Display for user guide and display showing free shower units, key selectable. Shower duration for one coin is selectable in steps of one second up to a total of 8 minutes, preset to 3 minutes, maximum number of coins 30. Shower duration is interrupted when water is not withdrawn; residual time is deleted after 1-30 minutes of non-use, preset to 5 minutes. Can be switched over to unpaid water delivery. Mechanical coin tester with opto-coupler for coins or tokens. Rugged stainless steel housing for in-wall mounting, with safety lock. 24 V DC

300 × 300 × 155 mm (W × H × D)

AQUA806 for t AQUA807 for 0

for tokens for 0.50 € 2000101494 2000101495

#### Optional accessories:

Numbering plate for shower units from 0 to 9. From shower number 10, each shower unit requires two plates. Please indicate numbers and quantity when placing the order.  $85 \times 125 \text{ mm} (W \times H)$ 



#### Coin-operated controller for volume-dependent water delivery

AQUAPAY coin-operated controller for volume-dependent, paid water delivery. Volume per coin can be set in steps of one litre from 1 – 500 litres, preset to 20 litres, maximum number of coins 30. Display for residual volume. Residual volume is deleted after 1-30 minutes of non-use, preset to 5 minutes. Can be switched over to unpaid water delivery. Mechanical coin tester with opto-coupler for coins or tokens. Rugged stainless steel housing for on-wall mounting, with safety lock and connector for contact water meter and solenoid valve. 24 V DC

 $240 \times 220 \times 130 \text{ mm} (W \times H \times D)$ 

AQUA804 AQUA805

for tokens for 0.50 € 2000100422 2000100423

Necessary accessory for coin-operated controllers with tokens:
 Tokens for AQUAPAY coin-operated controller, package unit of 50 pcs.
 Z-AQRP001

VIEW



#### TYPE / MODEL

ITEM-NUMBER

#### **AQUATIMER - A3000 open shower fitting**

AQUATIMER – A3000 open, electronically time-controlled shower fitting DN 15 for in-wall installation, with a facility for paid water delivery via AQUAPAY coin-operated controller, and a feature for externally controlling functions such as fitting settings and communication via ECC function controller. 24 V DC. For connecting to pre-mixed warm or cold water supply. With flush mounting cabinet, watertight electronic T-junction as well as electronic module, solenoid valve, stainless steel cover plate with Piezo-button with start/stop function.

Integrated control functions: Flow duration 30 sec., hygiene flushing.

Additional functions with ECC function controller (Ethernet): Automatic thermal disinfection, safety switch-off, cleaning switch-off.

AQUA605	Basic installation kit with adhesive flange	2000100734
AQUA603	Basic installation kit without adhesive flange	2000066041
AQUA627	Finished installation kit	2000100704



#### AQUATIMER – A3000 open thermostatic mixer

AQUATIMER – A3000 open, electronically time-controlled thermostatic mixer DN 15 for in-wall installation, with a facility for paid water delivery via AQUAPAY coin-operated controller, and a feature for externally controlling functions such as fitting settings and communication via ECC function controller. 24 V DC. For connection to the hot and cold water supply. With flush mounting cabinet, watertight electronic T-junction as well as electronic module, solenoid valve cartridge, thermostat with metal handle with integrated overtwist protection, stainless steel cover plate with Piezo-button with start/ stop function.

Integrated control functions: Flow duration 30 sec., hygiene flushing.

Additional functions with ECC function controller (Ethernet): Automatic thermal disinfection, safety switch-off, cleaning switch-off.

AQUA604	Basic installation kit with	2000103270
	adhesive flange	
AQUA602	Basic installation kit without	2000065986
	adhesive flange	
AQUA622	Finished installation kit	2000100700
AUUA022	FINISHEU INSLANALION KIL	2000100700



# $\ensuremath{\mathsf{AQUATIMER}}$ – $\ensuremath{\mathsf{A3000}}$ open shower fitting with combined controller and solenoid valve

AQUATIMER - A3000 open electronically time-controlled shower fitting DN 15 with combined controller and solenoid valve for in-wall installation, with a facility for paid water delivery via AQUAPAY coin-operated controller and a feature for externally controlling functions such as fitting settings and communication via ECC function controller. 24 V DC. For connecting to pre-mixed warm or cold water supply. With watertight electronic T-junction as well as electronic module, solenoid valve fittings group and stainless steel cover plate with Piezo-button with start/stop function.

Integrated control functions: Flow duration 30 sec., hygiene flushing.

Additional functions with ECC function controller (Ethernet): Automatic thermal disinfection, safety switch-off, cleaning switch-off.

#### AQUA629

### **AQUATIMER – A3000 open shower fittings**

V		TYPE / MODEL	ITEM-NUMBER
	-	AQUATIMER – A3000 open stainless steel shower pan	el
with electronic time-control, facilit controller and a feature for extern communication via ECC function of warm water or cold water supply. Piezo-button with start/stop funct plastic jet plate and enclosed flow stainless steel with plastic profile plated. Integrated control function		AQUATIMER - A3000 open shower panel made of stainless s with electronic time-control, facility for paid water delivery v controller and a feature for externally controlling functions s communication via ECC function controller. 24 V DC. For co warm water or cold water supply. With waterproof electronic Piezo-button with start/stop function and AQUAJET-Slimline plastic jet plate and enclosed flow-rate regulator (0.15 l/s). stainless steel with plastic profile cover caps, visible fitting p plated. Integrated control functions: Flow duration 30 sec., I functions with ECC function controller (Ethernet): Automatic switch-off, cleaning switch-off.	ia AQUAPAY coin-operated uch as fitting settings and nnecting to pre-mixed module, solenoid valve, shower head (0.2 l/s) with Housing made of profiled parts polished chromium- nygiene flushing. Additional
	Model with	AQUA623	2000100799
0	integrated tray for shower gel	With InoxPlus surface finishing - easy to clean AQUA619	2000101033
		Model with integrated tray for shower gel	
		AQUA621	2000101034
		With InoxPlus surface finishing – easy to clean AQUA625	200010103
		AQUATIMER – A3000 open stainless steel shower pan	el with thermostat
		AQUATIMER – A3000 open shower panel made of stainless with electronic time-control, thermostatic mixer and a facilit via AQUAPAY coin-operated controller and a feature for exte such as fitting settings and communication via ECC function connection to hot and cold water supply. With waterproof el- valve cartridge, thermostat with metal handle with integrated Piezo-button with start/stop function and AQUAJET-Slimline plastic jet plate and enclosed flow-rate regulator (0.15 l/s). stainless steel with plastic profile cover caps, visible fitting p plated. Integrated control functions: Flow duration 30 sec., I functions with ECC function controller (Ethernet): Automatic switch-off, cleaning switch-off.	y for paid water distribution rnally controlling functions controller. 24 V DC. For ectronic module, solenoid d overtwist protection, shower head (0.2 l/s) with Housing made of profiled parts polished chromium- nygiene flushing. Additional
	Model with integrated tray	AQUA612	2000100706
	for shower gel	With InoxPlus surface finishing – easy to clean AQUA616	2000101036
		Model with integrated tray for shower gel	
0		AQUA614	2000101337
		With InoxPlus surface finishing – easy to clean AQUA618	2000101338



AQUATIMER – A3000 open shower panel with glass front, for on-wall installation, with electronic time-control, thermostatic mixer and a facility for paid water delivery via AQUAPAY coin-operated controller and a feature for externally controlling functions such as fitting settings and communication via ECC function controller. 24 V DC. For connection to hot and cold water supply. With waterproof electronic module, solenoid valve cartridge, thermostat with metal handle with integrated overtwist protection, Piezo-button with start/stop function and AQUAJET-Slimline shower head (0.2 I/s) with plastic jet plate and enclosed flow-rate regulator (0.15 I/s). Stainless steel housing with full-surface connected glass front, visible fitting parts polished chromium-plated.

Integrated control functions: Flow duration 30 sec., hygiene flushing.

Additional functions with ECC function controller (Ethernet): Automatic thermal disinfection, safety switch-off, cleaning switch-off.

AQUA620



### AQUATIMER – A3000 open shower fittings

VIEW		TYPE / MODEL	ITEM-NUMBER
Ś	۲	AQUATIMER – A3000 open shower panel AQUATIMER - A3000 open shower panel mad wall installation, with electronic time-control, coin-operated controller and a feature for ext settings and communication via ECC function	le of mineral material MIRANIT-S, for on- facility for paid water delivery via AQUAPAY ernally controlling functions such as fitting

g pre-mixed warm water or cold water. With waterproof electronic module, solenoid valve, Piezo-button with start/stop function and AQUAJET-Slimline shower head (0.2 l/s) with plastic jet plate and enclosed flow-rate regulator (0.15 l/s). Inspection-capable housing made of polyester resin-bonded mineral material MIRANIT-S (temperature-resistant up to 80°C) with smooth, pore-free surface, satin finished, solid-white colour, visible fitting parts polished chromium-plated.

Integrated control functions: Flow duration 30 sec., hygiene flushing.

Additional functions with ECC function controller (Ethernet): Automatic thermal disinfection, safety switch-off, cleaning switch-off.

#### AQUA647

Model with integrated tray for shower gel AQUA648

2000103163

#### 2000103165

#### AQUATIMER – A3000 open shower panel made of mineral material MIRANIT-S with thermostat

AQUATIMER - A3000 open shower panel made of mineral material MIRANIT-S, for on-wall installation, with electronic time-control, thermostatic mixer and facility for paid water delivery via AQUAPAY coin-operated controller and a feature for externally controlling functions such as fitting settings and communication via ECC function controller. 24 V DC. For connection to the hot and cold water supply. With waterproof electronic module, solenoid valve cartridge, thermostat with metal handle and integrated over-twist protection, Piezo-button with start/stop function and AQUAJET-Slimline shower head (0.2 l/s) with plastic jet plate and enclosed flow-rate regulator (0.15 l/s). Inspection-capable housing made of polyester resin-bonded mineral material MIRANIT-S (temperature-resistant up to 80°C) with smooth, pore-free surface, satin finished, solidwhite colour, visible fitting parts polished chromium-plated.

Integrated control functions: Flow duration 30 sec., hygiene flushing.

Additional functions with ECC function controller (Ethernet): Automatic thermal disinfection, safety switch-off, cleaning switch-off.

#### AQUA653

2000103167

Model with integrated tray for shower gel AQUA654

2000103169



Model with integrated tray for shower gel

Model with integrated tray for shower gel

VIEW

## **PROTRONIC – A3000 open shower fittings**

TYPE / MODEL

ITEM-NUMBER





Model with integrated tray for shower gel

#### PROTRONIC – A3000 open stainless steel shower panel with thermostat

PROTRONIC - A3000 open shower panel made of stainless steel, for on-wall installation, with opto-electronic control, thermostatic mixer and facility for paid water delivery via AQUAPAY coin-operated controller and a feature for externally controlling functions such as fitting settings and communication via ECC function controller. 24 V DC. For connection to the hot and cold water supply. With waterproof electronic module, soleno-id valve cartridge, thermostat with metal handle and integrated overtwist protection, infrared sensor and AQUAJET-Slimline shower head (0.2 I/s) with plastic jet plate and enclosed flow-rate regulator (0.15 I/s). Housing made of profiled stainless steel with plastic profile cover caps, visible fitting parts polished chromium-plated.

Integrated control functions: Hygiene flushing, safety switch-off by permanent reflection.

Additional functions with ECC function controller (Ethernet): Automatic thermal disinfection, safety switch-off, cleaning switch-off.

AQUA641	2000101475
With InoxPlus surface finishing – easy to clean AQUA643	2000101476
Model with integrated tray for shower gel	
AQUA642	2000101480
With InoxPlus surface finishing – easy to clean AQUA644	2000101487

#### **PROTRONIC - A3000 open thermostatic mixer**

PROTRONIC – A3000 open, non-touch opto-electronically controlled thermostatic mixer DN 15 for in-wall installation, with a facility for paid water delivery via AQUAPAY coin-operated controller, and a feature for externally controlling functions such as fitting settings and communication via ECC function controller. 24 V DC. For connection to the hot and cold water supply. With flush mounting cabinet, watertight electronic T-junction as well as electronic module, solenoid valve cartridge, thermostat with metal handle with integrated overtwist protection, stainless steel cover plate with infrared sensor.

Integrated control functions: Hygiene flushing, safety switch-off by permanent reflection.

Additional functions with ECC function controller (Ethernet): Automatic thermal disinfection, safety switch-off, cleaning switch-off.

AQUA604	Basic installation kit <b>with</b> adhesive flange	2000103270
AQUA602	Basic installation kit <b>without</b> adhesive flange	2000065986
AQUA640	Finished installation kit	2000101474



## Accessories

#### TYPE / MODEL

ITEM-NUMBER

#### **ECC2 function controller**

ECC2 function controller - A3000 open with Ethernet and CAN bus connection for the fittings level and with integrated power supply, real-time clock with calendar function and WEB server. For connecting 32 AQUA 3000 open fittings/electronic system modules or up to 200 m cable length for the purpose of supplying power and external control, e.g. for adjusting fittings and for communication. 230 V AC / 24 V DC.

#### Z-A3OP0011

2000108123

#### Expansion module I/O

Expansion module (I/O) each with 8 freely programmable digital inputs and floating outputs. For fixed connection to ECC2 function controller (maximum 2 I/O modules per ECC2), with connection cable.

Z-A3OP0012

2000108124





#### **Radio module GSM**

Radio module (GSM) with antenna connection for mobile remote maintenance of the AQUA 3000 open fittings network and communication by SMS. For fixed connection to the ECC2 function controller, with connection cable.

#### Z-A3OP0013

2000108125

II Necessary accessories (alternatively):

Rod antenna for radio module (GSM), can be used with a field strength of 4 to 5 bars in the UMTS-3G network on site Z-A3OP0015

#### 2000110895

Wall-mounted antenna, can be used with a field strength of 2 to 3 bars in the UMTS-3G network on site Z-A3OP0016

#### 2000110896

Antenna with amplifier, can be used with a field strength of 0 to 1 bars in the UMTS-3G network on site Z-A3OP0017 2000110897

# Accessories

VIEW	TYPE / MODEL	ITEM-NUMBER
	System cable	
	System cable – A3000 open for connecting AQUA 3000 open fittings/electron modules. For providing power and communication. To be laid in empty tubes.	
	<b>Z-AQUA078</b> 25 m/ring <b>Z-AQUA077</b> 100 m/ring	2000 100852 2000 10080 1
	Terminating resistor	
	Terminating resistor - A3000 open for bilaterally t proper data communication.	erminating the system cable to ensure
	Z-AQUA014	2000100847
-Û	Solenoid self-closing valve Solenoid self-closing valve DN 20 for electronical	
	tion with control units, with selector lever for swite brass. 24 V AC	ching to manual operation, uncoated
	Z-AQUA047	2000100934
	Contact water meter	
	Contact water meter M-NRK, series 423, for horiz DN 20 including screw connections, without certi 1 liter of flow capacity.	
	Z-AQUA074	2000101522
	AQUAJET-Slimline	
	Shower head AQUAJET-Slimline DN 15 with plastic system and plugable connection spigot. Shower-h anti-twist feature. Polished chromium-plated brass	ead housing with a device for optional
all and a second	AQUA751 0.15 l/s AQUA752 0.20 l/s	2000065932 2000065938
	AQUAJET-Comfort	
	Shower head AQUAJET-Comfort DN 15 with angle 21° and calcification protection system. For wall- trays. Polished chromium-plated brass.	
and the second second	AQRM9600.15 l/sAQRM9610.20 l/s	2000101326 2000101327

Franke Washroom Systems ws-info.int@franke.com www.franke.com



WASHROOM SYSTEMS