AQUAPAY CHARGEABLE WATER DELIVERY

Economical showering saves resources

KWC DVS. The new name of DVS & Franke Sissons

WASHROOM SYSTEMS

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THE AQUAPAY SYSTEM – ECONOMICAL AND FAIR

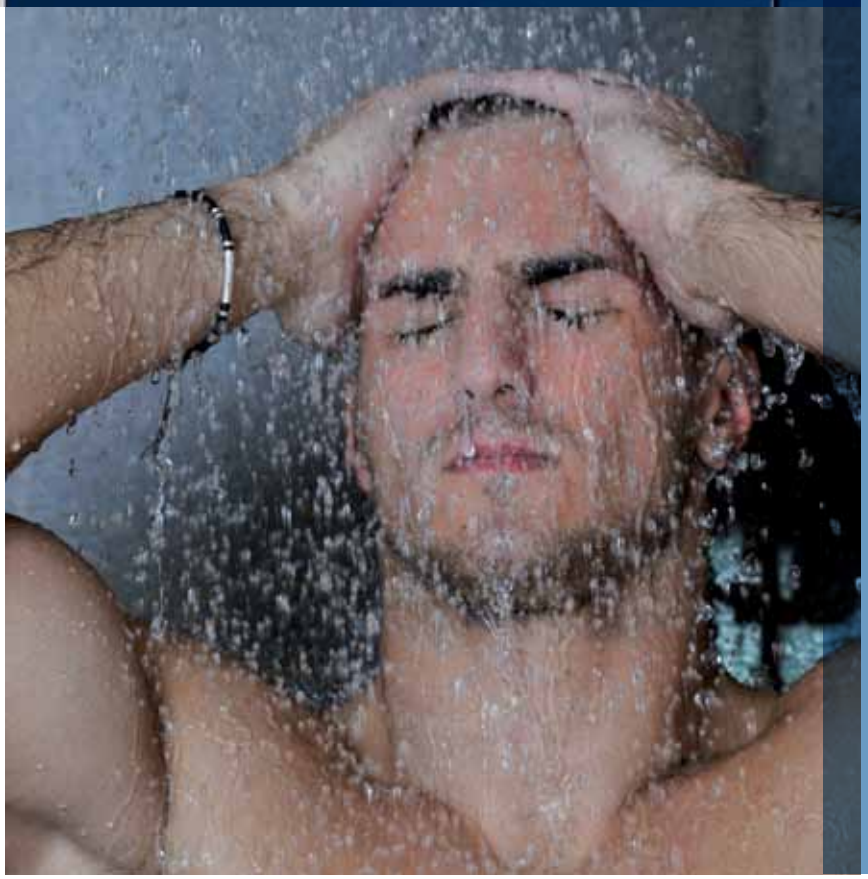
A high level of water consumption and the steady increase in operating costs are typical of public shower facilities. There are various reasons for this: the unlimited provision of free water, heavy usage and a constantly changing clientele. This is added to by the lack of user awareness of the costs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

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 customer-specific 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.

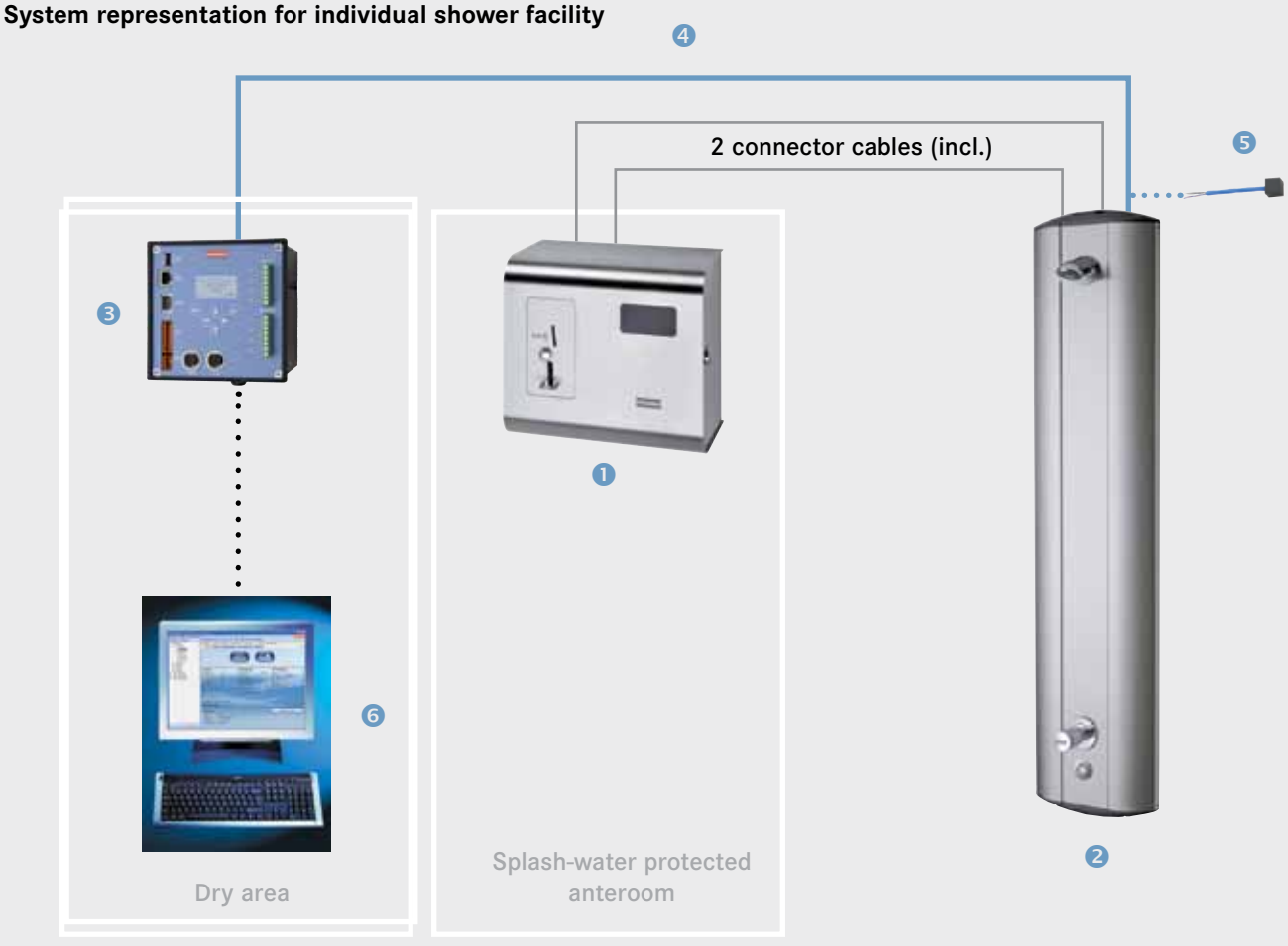
The overall system is electrically powered via an ECC2 function controller from the AQUA 3000 open range of accessories. It can power up to 31 shower fittings and the coin-operated controller.

Installation components at a glance

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

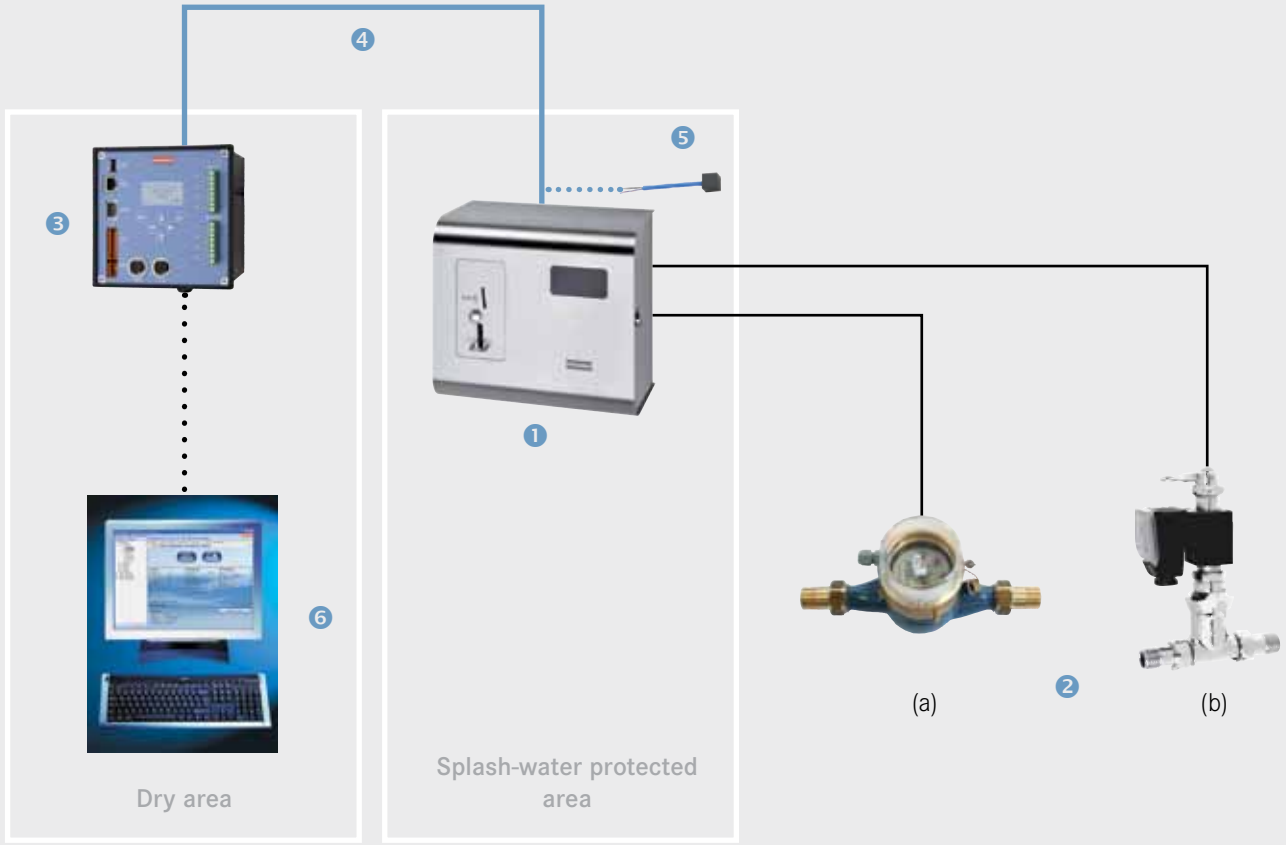
1. AQUAPAY coin-operated controller
2. AQUATIMER or PROTRONIC A3000 open shower fitting. A contact water meter (a) and a self-closing solenoid valve (b) for volume-dependent water delivery
3. ECC2 function controller with integrated power supply and Ethernet connection
4. System cable for power supply 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 individual shower facility



System representation for multiple shower facility

System representation for volume-dependent water delivery



AQUAPAY Coin-operated controller

VIEW	TYPE / MODEL	ITEM-NUMBER

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	**2000100340**
AQUA801	for 0.50 €	**2000100342**

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 × 220 × 130 mm (W × H × D)

AQUA802	for tokens	**2000100418**
AQUA803	for 0.50 €	**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 × 125 mm (W × H)

AQUAPAY Coin-operated controller

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 tokens	**2000101494**
AQUA807	for 0.50 €	**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 × 125 mm (W × 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 × 220 × 130 mm (W × H × D)

AQUA804	for tokens	**2000100422**
AQUA805	for 0.50 €	**2000100423**

Necessary accessory for coin-operated controllers with tokens:

Tokens for AQUAPAY coin-operated controller, package unit of 50 pcs.

Z-AQRP001	**2000100751**

AQUATIMER – A3000 open shower fittings

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 adhesive flange	**2000103270**
AQUA602	Basic installation kit without adhesive flange	**2000065986**
AQUA622	Finished installation kit	**2000100700**

AQUATIMER – 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		**2000100800**

AQUATIMER – A3000 open shower fittings

VIEW	TYPE / MODEL	ITEM-NUMBER

Model with integrated tray for shower gel

AQUATIMER – A3000 open stainless steel shower panel

AQUATIMER - A3000 open shower panel made of stainless steel, for on-wall installation, with electronic time-control, 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 water or cold water supply. 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). Housing made of profiled stainless steel with plastic profile cover caps, 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.

AQUA623 **2000100799**

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 **2000101035**

Model with integrated tray for shower gel

AQUATIMER – A3000 open stainless steel shower panel with thermostat

AQUATIMER – A3000 open shower panel made of stainless steel, for on-wall installation, with electronic time-control, thermostatic mixer and a facility for paid water distribution 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 l/s) with plastic jet plate and enclosed flow-rate regulator (0.15 l/s). Housing made of profiled stainless steel with plastic profile cover caps, 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.

AQUA612 **2000100706**

With InoxPlus surface finishing – easy to clean
AQUA616 **2000101036**

Model with integrated tray for shower gel

AQUA614 **2000101337**

With InoxPlus surface finishing – easy to clean
AQUA618 **2000101338**

AQUATIMER – A3000 open shower panel with glass front and thermostat

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 l/s) with plastic jet plate and enclosed flow-rate regulator (0.15 l/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 **2000100743**

AQUATIMER – A3000 open shower fittings

VIEW	TYPE / MODEL	ITEM-NUMBER

Model with integrated tray for shower gel

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

AQUATIMER - A3000 open shower panel made of mineral material MIRANIT-S, for on-wall installation, with electronic time-control, 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 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 **2000103163**

Model with integrated tray for shower gel

AQUA648 **2000103165**

Model with integrated tray for shower gel

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, 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.

AQUA653 **2000103167**

Model with integrated tray for shower gel

AQUA654 **2000103169**

PROTRONIC – A3000 open shower fittings

VIEW | 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, solenoid valve cartridge, thermostat with metal handle and integrated overtwist protection, infrared sensor and AQUAJET-Slimline shower head (0.2 l/s) with plastic jet plate and enclosed flow-rate regulator (0.15 l/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 **with** adhesive flange	**2000103270**
AQUA602	Basic installation kit **without** adhesive flange	**2000065986**
AQUA640	Finished installation kit	**2000101474**

Accessories

VIEW	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**

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/electronic system modules. For providing power and communication. To be laid in empty tubes.

Z-AQUA078	25 m/ring	**2000100852**
Z-AQUA077	100 m/ring	**2000100801**

Terminating resistor

Terminating resistor – A3000 open for bilaterally terminating the system cable to ensure proper data communication.

Z-AQUA014	**2000100847**

Solenoid self-closing valve

Solenoid self-closing valve DN 20 for electronically controlled water delivery in conjunction with control units, with selector lever for switching to manual operation, uncoated brass. 24 V AC

Z-AQUA047	**2000100934**

Contact water meter

Contact water meter M-NRK, series 423, for horizontal installation, for cold water 30°C, DN 20 including screw connections, without certification. One impulse corresponds to 1 liter of flow capacity.

Z-AQUA074	**2000101522**

AQUAJET-Slimline

Shower head AQUAJET-Slimline DN 15 with plastic jet plate and calcification protection system and plugable connection spigot. Shower-head housing with a device for optional anti-twist feature. Polished chromium-plated brass.

AQUA751	0.15 l/s	**2000065932**
AQUA752	0.20 l/s	**2000065938**

AQUAJET-Comfort

Shower head AQUAJET-Comfort DN 15 with angle-adjustable plastic jet plate 11° or 21° and calcification protection system. For wall-mounting. Suitable also for shower trays. Polished chromium-plated brass.

AQRM960	0.15 l/s	**2000101326**
AQRM961	0.20 l/s	**2000101327**

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

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