

Our system

Our innovative purifying system

ICA one

2

Connectors
drink water
compression
coupling

3

Controle unit
State of the
Art ionisation
control unit, LCD
touchscreen and
monitoring

5

Valve
Special 3-way
bypass valves

1

Chamber head
easy electrode
chamber access

4

Electrode chamber
Copper and silver
electrode pairs

6

Flowmeter
Exact water flow
measurement



ATECA's smallest system, the ICA One, comes with a built-in bypass. It's also been specially developed for smaller locations, it requires less maintenance and is practically plug-and-play.

The ICA One is a custom designed copper-silver ionisation solution that provides 100% Legionella-safe drinking water. This system uses a flowmeter to determine the exact amount of water being used and then precisely handles the ionisation process, releasing copper and silver ions as required. ICA One is connected to the ICA ServiceLink, a web portal which can be accessed at any time, from anywhere and on any device - via Ethernet. This service delivers readouts, settings management and data logs of the device providing users with useful information. It also has a USB connector and is Bluetooth ready for those locations without Ethernet.

Application Field

Villas Bed & Breakfast Small hotels (up to 20 rooms)	Smaller nursery / elderly homes Special care homes Small wellness spa pool	Yachts Small marina's Fire Tanks
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Features

Power connections:

Power supply 33-48V, 1.25A via adapter

Control loop:

Copper anode output 0-30V 0-1000mA
Silver anode output 0-10V 0-250mA
Flowmeter sensor input,
pulse 0.5-1000Hz

Network:

UTP CAT5 10BASE-T/100BASE-TX, Auto-MDIX
Customisable behaviour via settings

USB:

FAT16/FAT32 Mass storage
Firmware upgrade
Configuration

Interface:

Two RGB LEDs for user feedback
Interface soft button

BMS import

Two potential free contact for alarm purposes

Specifications

Electrode chamber: double layout Dimensions: 55 x 20 x 12 cm Weight: 4,5 kg Operating temperature: 5 to 60 degrees Celsius	Connection type: compression coupling Connection measurements: 22, 28 or 35 mm Materials: ATA approved and NSF compliance Built-in bypass Valves: 3-way by-pass valves Material: PVC	Control unit: ICA ionisation controls Power consumption: 60 watt at max. operating RTC battery backup USB interface UTP interface Flow meter: k-factor controlled
Working pressure: up to max. 6 bar Test pressure: 12 bar Max ionisation flow: 35 ltr/min		

Ionisation Range

Copper 99,9%, pair arrangement
Silver 99,99%, pair arrangement

Approvals

ECHA approved ART. 95 substance supplier
KIWA certified including approved materials
Dutch Board for the Authorisation of Plant Protection Products and Biocides (CTGB)
World Health Organisation
According UK L8 Approved Code of Practice
NSF compliance

Firmware

Firmware updates are handled by the firmware via online updates. However, the firmware can be updated via USB in case there's a problem with the network connection.