

VeloVolt **AQUA**

Secure battery charging locker

- Product Specification -



Fietsparkeersystemen - Industriële Automatisering - Speciaal Producten

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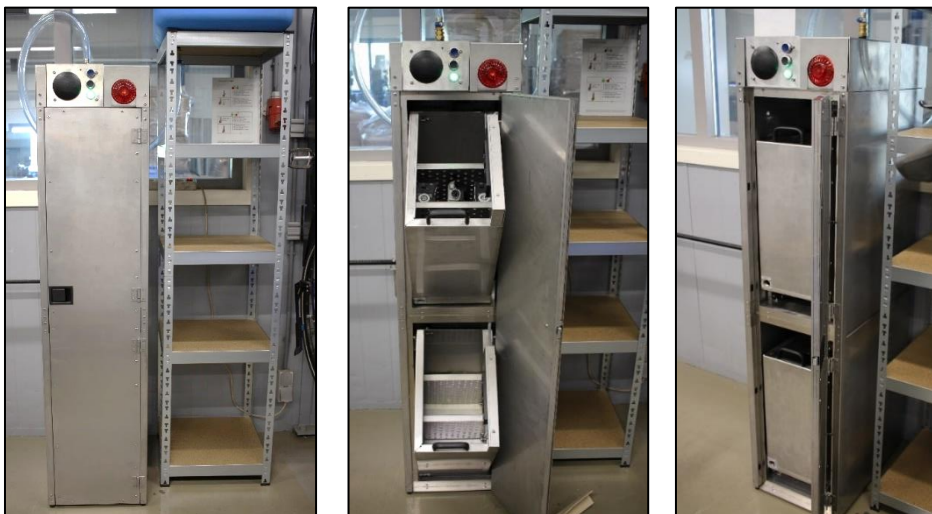
Op al onze offertes, op alle opdrachten aan ons en op alle met ons gesloten overeenkomsten zijn de Metaalunie-voorwaarden van toepassing, gedeponeerd ter Griffie van de Rechtbank te Rotterdam, volgens de laatste aldaar neergelegde tekst. Deze leveringsvoorwaarden worden u op verzoek toegezonden.

The ultimate battery charging and storage locker!

Lithium-ion cells used in bicycle batteries are not entirely without danger. Falling bicycles or external vibrations can cause a short circuit in the cells. This can cause the battery to become extremely hot, emit toxic flue gases and even catch fire. This is called a "thermal runaway". The chance of thermal runaway is highest during charging and discharging.

VeloVolt[®]AQUA contains two tilting drawers for bicycle battery charging and storage. After smoke detection these tilting drawers are fully filled with water within 2-4 minutes. An independent expert study) shows that the principle of *water immersion* is the most effective and reliable fire extinguisher to neutralize lithium-ion fires. The same studies show that *smoke detection* is the most effective method to signal potential lithium-ion fires in the initial stage.

VeloVolt[®]AQUA has been developed in close cooperation with the fire brigade and experts and includes both the principle of *water immersion* and *smoke detection*. VeloVolt[®]AQUA not just detects a battery fire at the very early stage, but also ensures that a fire is neutralized before it can become a fire. For that reason, it be considered as **thé ultimate battery charging and storage locker**.



Specification

- Dimensions (DxWxH): 565x380x1.695mm;
- Plug for 230V/16A power supply;
- 6x230V sockets (for battery charging);
- Material: stainless steel 304 (1.5mm).

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Safe battery charging ánd storage!

VeloVolt® AQUA contains 2 tilting drawers, each with capacity for 9 bicycle batteries, resulting in a total capacity for 18 bicycle batteries.

**Charging*

A tilting drawer contains 3 individual spaces, each with an electrical outlet for charging bicycle batteries. Maximum charging capacity: 3 bicycle batteries per tilt tray.

**Storage*

In addition, 6 bicycle batteries can be stored per tilt tray.

To prevent smoke and fire damage as a result of a "thermal runaway" as much as possible, **VeloVolt® AQUA** is equipped with the following functions:

- **Smoke detection;**
- **Automated water immersion system;**
- Optical and acoustic signalling;
- Electronic fire control panel;
- Thermal rock wool insulation;
- Spring closing door;
- Pyro strips and heat resistant seals to keep flue gases inside the cabinet;
- Automatic shutdown of charging current with relay;
- Emergency power supply; the fire control panel of **VeloVolt® AQUA** automatically switches to a battery pack when the power is cut. In this way, the fire panel remains operational at all times and an alarm is also issued in the event of a power failure.



Electronic fire panel

For the purpose of smoke detection, alarms and the water immersion fire system, each **VeloVolt® AQUA** is equipped with an electronic fire panel. The fire panel can be connected to an external alarm system by means of a potential-free contact. Once smoke is detected both an optical and acoustic signal are activated and the charging current is automatically cut off by a relay. At the same time, the tilting drawers are completely filled with water within 2-4 minutes.

Electricity

A common charger from a bicycle battery consumes a maximum of 350W (1.5A or less). If the 6 charging outlets are all used at full power at the same time, this means a maximum power of resp. 2100W. Preferably, **VeloVolt® AQUA** is connected to a separate group (230V/16A). If it is chosen to switch off the power group(s) to which **VeloVolt® AQUA** is connected (eg during night hours), a separate group for the fire panel must be created. This group must not be switched off, so that the fire panel is also operational during night hours.

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Optional:

**SMS-Alarm/Message-Alarm*

The SMS-module sends a text message to the owner when smoke is detected or when the power is cut. Based on the text message, immediate action can be taken to remove **VeloVolt®AQUA** or to check the power on site.

**Digital PIN code lock*

Optionally the door of **VeloVolt®AQUA** can be equipped with an autonomous digital pin code lock based on a battery supply. The lock can be programmed for private or public use.

Users have access without a key. Users can set their own code. A master code ensures that the administrator always has access. Mechanical opening by the administrator with a master key is also possible.



Digital PIN code lock specifications:

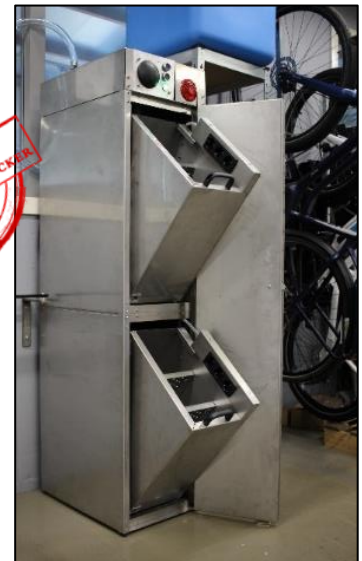
- 4-digit user code
- 6-digit master code (6-digit Sub Master Code, 6-digit Technical Code)
- Approx. 80,000 openings with 1 battery
- Low battery warning (LED flashes)
- Mechanical "emergency opening" with key
- Suitable for indoor locations
- Audible "beep" at key press (can be turned off)
- Optional automatic opening when time is exceeded
- LED indicator

Placement

VeloVolt®AQUA should be placed on a stable and preferably level surface. **VeloVolt®AQUA** can be levelled with the adjustable feet.

Guarantee

1 year manufacturer's warranty (from delivery date).



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