

# PRODUCT SHEET M20



## ON-SITE ENVIRONMENTALLY FRIENDLY DISINFECTION

Anolytech's system offers environmentally friendly and efficient disinfection for a wide range of applications. The system is based on our unique disinfection solution AnoDes (a pH-optimized hypochlorous acid), produced on site at the user's facility, which is rented from Anolytech and connected directly to the user's water system.

AnoDes effectively kills microorganisms in all types of drinking water systems and is also used in industries to disinfect, for example, process water and greywater. The manufacturing process uses only water, salt and electricity, which makes Anolytech's system a much more sustainable disinfection method than most others.

It is the carefully controlled pH level that is the basis for the effective disinfectant ability of AnoDes. Anolytech's system enables a unique and precise control of the pH level, which means that Anolytech can guarantee efficient water disinfection.

## THE TECHNOLOGY BEHIND

With Anolytech's unique technology, the pH level is controlled for optimal production of AnoDes. The system uses an electrolytic cell to electrochemically activate the saline solution. A porous ceramic membrane (diaphragm) separates the reactor into two chambers, but conducts current between the anode and cathode which are located in each chamber. When the machine is in operation, there is a direct voltage (12 V) across the anode and cathode. In the chamber with anode, so-called AnoDes is formed and in the chamber with cathode, so-called catholyte is formed.

The catholyte has a constant composition and contains sodium hydroxide, hydrogen and sodium chloride. This solution is alkaline with about pH 12. AnoDes contains the active substance hypochlorous acid (subchloric acid) and maintains a pH of 6.5.

## EASY INSTALLATION

Anolytech's system consists of a wall-mounted control unit, a salt container and a mixing module that is placed in a suitable place on the premise. All that is required is access to electricity, water and sewage (see Prerequisite for Installation).

If the primary purpose of Anolytech's system is to guarantee a bacteria-free water and water system, the installation takes place in two simple steps. First, Anolytech delivers a water line (see Installation of Water Line) which is adapted to the company's water system and which the customer installs at an agreed location based on consultation with Anolytech's technicians.

When this is done, Anolytech's technician installs and calibrates the system that will produce AnoDes. The rental subscription includes a service plan that includes installation, service and spare parts.

When installing Anolytech's system in a water treatment plant, or as a disinfecting stage in major industrial processes, the installation is tailored to the needs and circumstances on site.

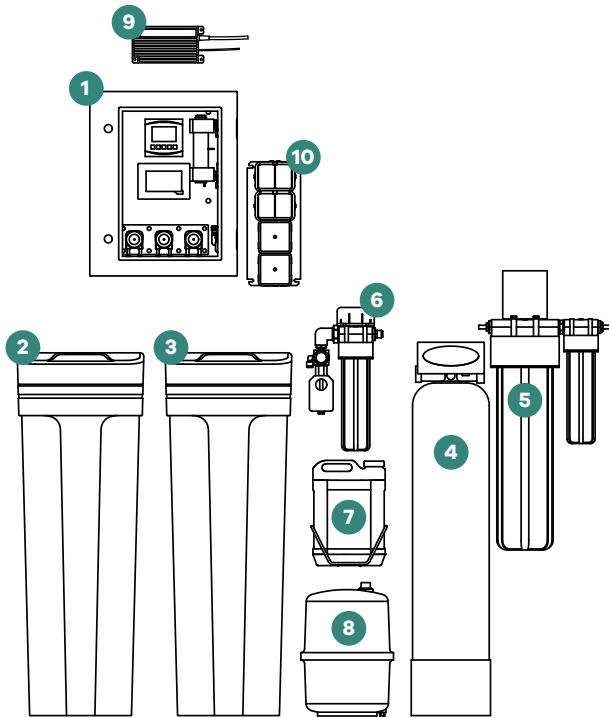
During operation, the system needs to be replenished with salt tablets, acid and filters replaced, everything else is automated. The system's design and easy handling guarantee reliable and stable production - around the clock, all year round.

## SELECT FACILITY AS NEEDED

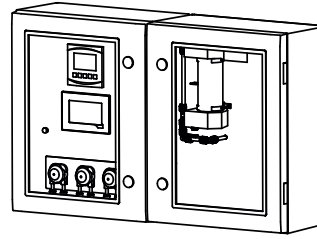
Different businesses have different needs for disinfection. The choice of system depends on the type of business in question and how much capacity the installation needs.

Therefore, Anolytech's disinfection systems are available in several versions (M20-20, M20-40 and M20-2x40) that produce different amounts of AnoDes and can treat different amounts of water. The rental cost for the system is based on the business water consumption.

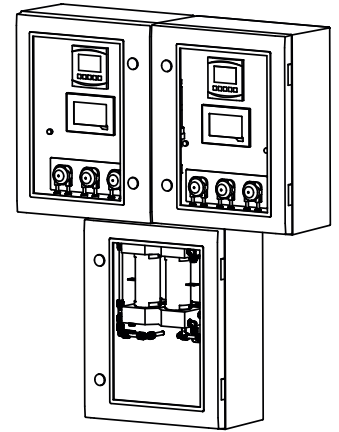
# M20-20



# M20-40



# M20-2X40



- 1 Controlunit
- 2 AnoDes tank
- 3 Salt tank
- 4 Softener
- 5 Pre-filter
- 6 Afterfilter
- 7 Mars 2PC
- 8 Hydropress
- 9 Power Supply
- 10 Control box

## CONTROLUNIT 1

Measurement per cabinet 1-3	
Length	500 mm
Width	400 mm
Depth	220 mm

Powersupply	
12 V (Powersupply)	

## TANKS 2 3

Measurement - 70 tank	
Hight	890 mm
Width	340 mm
Depth	340 mm

Measurement - 200 tank	
Hight	1020 mm
Diameter top	600 mm
Diameter bottom	500 mm

## SOFTENER 4

Measurement	
Hight	1030 mm
Width	210 mm
Depth	210 mm

## SYSTEM

Electricity supply	230VAC 10A
Effect	150 – 300 W
Powercord length	1,5 meter
Hose length (standard)	5 meter
Min. water pressure	2 bar
Max. water pressure	7 bar (option 10 bar)
Max. diviation waterpressure	1 bar/60 seconds
Min. waterflow	15 liter / minute
Max. flow production	30/60/120 liter / h
Min. flow production AnoDes	13,2 liter / h
Max. flow production AnoDes	20/40/80 liter / h
pH AnoDes production	6,5 ±0,4
Total salt production	1,5 – 6 gram / liter
Salt per produced AnoDes	1 – 4 gram / liter
Salt for descaling water	2-6 kg / week
Max water hardness. Over 15, salt consumption increases	15° dH
Temperature (min./max.)	room temperature 5 – 25 °C
Weight (without water)	<40 kg
Watermeter	1 puls / liter
Salt tank, max volume	50kg
AnoDes tank 70/200 (200 option)	70/200 liter
Pre-filter	10"20µ / 20"10µ
Softener	15 l Cationic mass
Control filter	10"01µ
Decalcification fluid Mars 2PC	Oxal/Phosphorus acid