

# BacTerminator® CombiTech – the most effective inline disinfection method on the market

## **A log 5 reduction** in bacteria, viruses and protozoa **can be guaranteed**

– All without adding chemicals to the water

**BacTerminator® CombiTech is a new way to think *ultra disinfected and clean water*. By combining several unique water treatment solutions, it is now possible to produce the most effective inline disinfection system on the market.**

Using a combination of media filtration, water softening, carbon filters, a patented electrochemical disinfection and a unique BioReactionZone technology, a minimum log 5 reduction of all kinds of bacteria, viruses and protozoa can be guaranteed.

Besides the extremely effective primary disinfection, the BacTerminator® CombiTech also performs a secondary disinfection downstream.

By using naturally occurring chloride ions in the water, the electrochemical disinfection chamber makes a small amount of free chlorine in the water (0.2–1 ppm), most of it as highly efficient hypochlorous acid, the most effective form of free chlorine.

All this is done without adding any chemicals to the water.

The system is totally automated, built with a plug and play configuration that allows it to be connected to any city water source.



**Fig. 1:** BacTerminator® CombiTech

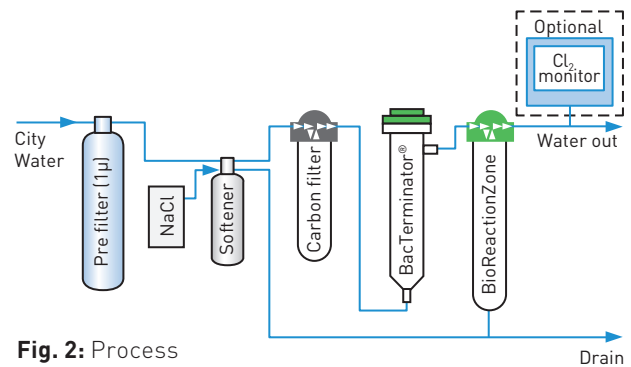
### **Applications:**

- Drinking water
- Healthcare (hospitals, dental clinics)
- Food industry
- Hotels
- Residential buildings (apartments, sports facilities, schools)

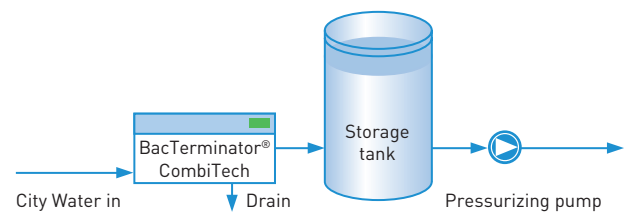
## Technology

The BacTerminator® CombiTech technology has several benefits, including:

- Extremely effective disinfection because of the high level of HOCl (hypochlorous acid) and BioReactionZone technology
- No need to add chemicals to the disinfection process
- Particle, colour, old chlorine and taste removal
- Removal of lime scale
- Low operating cost
- Low maintenance



**Fig. 2: Process**



**Fig. 3: Installation**

## Data:

BacTerminator® CombiTech	Peak flow m <sup>3</sup> /h	Daily production m <sup>3</sup> /day	W x H x L mm	Inlet/Outlet/Drain	Power connection kW
6	0.4	6	120 x 120 x 80	½" ½" ½"	0.5
14	0.8	14	120 x 120 x 80	½" ½" ½"	1
32	2	32	140 x 120 x 80	¾" ¾" ¾"	1.5
80	5	80	160 x 120 x 80	1" 1" 1"	3

Max. water temperature	40°C
Max. pressure	6 bar
Min. pressure	2 bar
Electrical specifications	110 V/230 VAC/380 VAC, PE
Material flow system	Plastic – drinking water approved
Material frame	Painted steel

Energy consumption	Conductivity 400 µS/cm and chloride level 40 mg/l = 75 Wh to produce 0,5 ppm free chlorine
Salt consumption	at dH° 10 = 0.4 kg/m <sup>3</sup> of water
Included	PLC operation, alarm for malfunction, brine sensor
Optional	Inline free chlorine measurement, O <sub>2</sub> , H <sub>2</sub> and Cl <sub>2</sub> removal