

CENTRAL WATER TREATMENT · PROPOSAL FOR DEVELOPERS

Who else but you?

Treated water from every cold-water tap in the building. A comfort only the one who builds the house can give its buyers.

Comfort can't be added later. It can only be built in.

DANIEL-LM s.r.o., AquaTech North Bohemia Division · aquananotech.eu



Today, people carry their water home.

1.4 t

of water a year

The bottled water two people drink in a year. Into the car, into the lift, up the stairs.

930+

bottles a year

Per household. Buy, store, take out or return to the store.

27 kg

every week

Carried home by hand, week after week, year after year.

A building that carries the water for you.

One central treatment unit at the base of the building, installed in parallel with a bypass on the cold-water branch downstream of the main meter.

Treated cold water then flows from every tap in every apartment.
No work inside the apartments; for new and completed buildings.



In the kitchen

Drinking, coffee, tea, cooking, rinsing food.

In the bathroom

Brushing teeth and every cold-water tap.

Throughout the building

The same water for every apartment.

What residents no longer have to deal with.

No carrying water

1.4 t of water a year no longer rides in the car or goes up the stairs.

No storing

No bottle packs in the pantry, the hallway or on the balcony.

No plastic to take out

Over 900 bottles per household a year disappear, deposit returns included.

No watching supplies

Water for drinking, coffee and cooking flows from every tap.

No filter changes

Service, analyses and reports are handled by a specialist company.

Who else but you?

Anyone can buy an under-sink filter. Treated cold water throughout the building, at every tap, can only come from the one who builds it.

Why it makes sense for a developer.

Comfort on display

A glass of tap water in the show apartment says more than a price list.

Everyday feature

Buyers notice it every morning, not once at handover.

Built into the building

Buyers can't retrofit it into their apartment themselves.

Clear investment

≈ €1,440 per apartment in the model building. Year one free for buyers.

No long commitment

From month 13 we propose handing operation to the owners' association (WEG).

Documented, not promised

Lab reports and service history for the owners.

From the meter to the tap.

The unit is installed in parallel with a bypass on the cold-water branch, downstream of the main meter and of the take-off to the water heaters. Hot water is heated from the untreated branch.

01

Inlet

Mains drinking water downstream of the main meter.

02

Pre-filtration

Five cartridge filters, 10 and 1 µm.

03

ART CARBON®

Adsorption and catalytic decomposition of combined chlorine.

04

Outlet filter

Mechanical protection, 1 µm.

05

Disinfection

Optional, chlorine-free agent, at the investor's choice.

06

Cold-water supply

Treated cold water to every apartment.

What the base assembly treats.

Treats

- Free and combined chlorine (chloramines)
- Pesticides and pharmaceutical residues, incl. hormones and narcotics
- Long-chain PFAS (PFOA, PFOS)
- Selected heavy metals, assessed from the water analysis
- Coliform bacteria, E. coli and viruses, passively and without chemicals

Only with an added stage

- Hardness (calcium, magnesium)
- Nitrates
- Short-chain PFAS, incl. TFA

If the analysis shows them, we extend the system.

PFAS: ART CARBON adsorbs long-chain PFAS (PFOA, PFOS). We have point data, not breakthrough curves. For short- and ultra-short-chain PFAS, including TFA, adsorption on carbon media is inherently limited; for this group we propose ART CARBON combined with a targeted ion exchanger. Breakthrough curves and design parameters for a specific water are determined in a paid pilot.

Data and limits, not promises.

> 91%

naproxen in 30 s

TU Liberec, batch test, pre-treated water from the Lužnice river.

> 90%

4 compounds in 5 min

Naproxen, carbamazepine, metoprolol, simazine. New and regenerated media.

0

adverse findings since 2021

Regular sampling and analysis of all installed systems.

Lab results describe specific tests. Performance for a given building's water is set by its analysis, the system design and follow-up checks. Test reports are presented at the technical meeting.

Run by measurement, not by the calendar.



Volume drawn

Remote reading of the system's water meter.



Pressure after the prefilters

Shows how loaded the particle filters are and when to change them.



Pressure and flow after ART CARBON®

Detects clogging or lost capacity. Then a sample and, based on it, regeneration.

Regeneration at least every 6 months, always with a lab report.

Sized with headroom for heavier loads in the water.

Extra prefilter changes after a mains failure are covered by service.

One investment. Year one included.

≈ €1,440

per apartment for the first 12 months

Technology plus first-year service. Buyers get treated water free for the first year.

Item	Excl. VAT
Technology incl. tank, installation, transport and first media fill	€115,380
Service regeneration in year 1	€14,470
Total, months 1–12	€129,850



Operation for the building's owners.

€28,940

annual service, excl. VAT

4 inspections with analyses, 2
regenerations with reports.

€3.71/m³

≈ €0.004 per liter

At the model consumption of
7,800 m³ a year.

≈ €27

per apartment per month

Split by apartment water meter, no
flat fee.

After about 10 years: adsorbent replacement

After 20 regeneration cycles the adsorbent is replaced completely: at 2026 prices ≈ €37,500 excl. VAT, incl. installation and separation of spent media (final price set at the time). We recommend an owners' reserve of ≈ €3,750 a year, about €40 per apartment.

What a liter costs.

Two people drink about 1,400 liters a year. Treating all the cold water in their apartment costs about €265 a year. **Anyone who buys bottled water at €0.19 per liter or more covers the treatment with what they no longer spend on bottles.**

In year one the developer covers the treatment: the household pays €0 for it.

2 people, 60 m ³ a year	Per year
Water and wastewater, Berlin 2026: 60 × €3.97	€238
Whole-apartment treatment: 60 × €4.41 incl. 19% VAT	€265
Total for tap water (€8.38/m ³)	€503
Treatment cost per liter of tap water	€0.0044
Break-even price of bottled water (1,400 l a year)	€0.19/l

Model calculation, not a guaranteed saving. Berlin volume charges: water €1.81/m³ incl. 7% VAT, wastewater €2.16/m³; standing charges excluded.

Water quality is in focus.

100 ng/l

PFAS-20 limit since 2026

TrinkwV sum limit since 12 Jan 2026; PFAS-4 at 20 ng/l from 12 Jan 2028.

€0.25

deposit on each single-use bottle

In place since 2003: every bottle still goes back to the store.

30%

recycled PET in bottles by 2030

25% since 2025. Food-grade rPET is scarce and often dearer than virgin plastic.

Model building with 90 apartments: over 80,000 fewer plastic bottles a year.

If households replace bottled water with tap water (4 l a day, 1.5 l bottles).

Comfort can't be added later. It can only be built in.

For a first proposal we need

- Number of apartments, floor areas and occupancy
- Floor plan and height of the plant room
- Meter location, drainage and power supply
- Water analysis, if available

We suggest a 15-minute online meeting.

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