

DANIEL-LM s.r.o. | AquaTech
North Bohemia

ACDeC Home

Advanced nanotechnology for combined chlorine reduction and
microbial control — engineered for luxury residential pools and private
wellness.



Why Choose ACDeC Home?

Truly clean water — without chlorine odour or irritated eyes and skin.

Combined chlorine and odour removal

Catalytic decomposition of combined chlorine into harmless nitrogen and salts, with no chemical by-products.

No more unpleasant chlorine smell in indoor or outdoor pool halls.

Passive microbial protection

Effective suppression of bacteria and microorganisms without increasing the chemical load.

Crystal-clear, microbiologically stable water — gentle on sensitive children's skin.

Exceptional water and energy savings

Operating costs up to 80 % lower than conventional UV lamps.

Dramatically reduced need for fresh dilution water top-ups.





Compact system with remote-control capability

ACDeC Home is designed for clean aesthetics and minimal footprint in residential plant rooms.

Key design features:

Ultra-compact design

Easy integration into new and existing pool circuits.

Bypass connection

Installed downstream of sand filtration, with its own booster pump and protective microfilter.

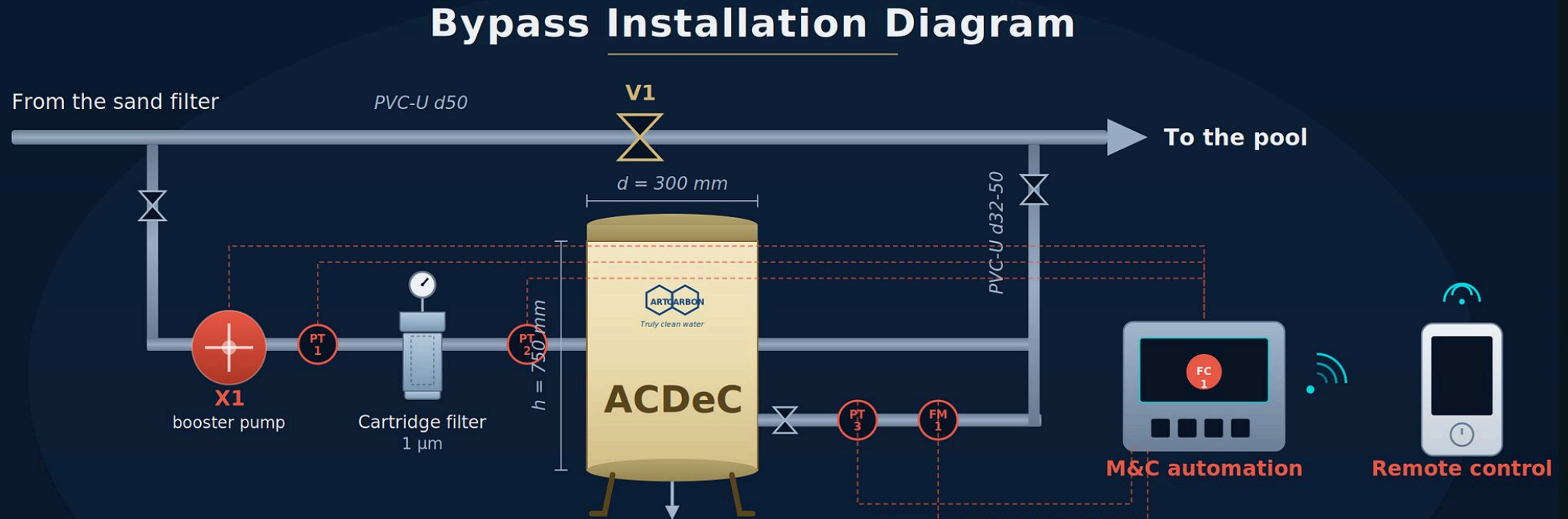
Smart Home Readiness

Optional integration with automated control systems and a mobile app for remote management.

Fully unattended operation

Requires only a minimal annual service inspection.

Bypass Installation Diagram



- **Version ACDeC Standard**

Only the ACDeC reactor with prefilter — flow through the reactor is regulated manually via valve V1.

- **Version ACDeC M&C**

ACDeC Standard plus an auxiliary booster pump ($P = 0.55 \text{ kW}$), pressure and flow-rate monitoring, and remote control via mobile phone. Optional upgrade.

Technological Advantage Over UV Lamps

Parameter	ACDeC Home	UV Lamp
Formation of toxic by-products (THMs, chloroform)	NONE	High risk
Electricity consumption	Extremely low — booster pump only	High — continuous 1 kW+ draw
Impact on free chlorine demand	No effect	Increases chlorine consumption
Servicing requirements	Once a year — simple media replacement	Regular replacement of expensive UV bulbs

Real Operating Cost Savings

Model comparison for a private family pool (35 m³, 250 operating days per year)

Parameter	ACDeC Home	UV Lamp
Electricity consumption	≈ €46/year	€1,135/year
Annual servicing and consumables	€1,030/year	€620/year
Total annual operating cost	€1,075/year	€1,755/year

✓ **ANNUAL OPERATING COST SAVING: ≈ €680/year — while delivering incomparably higher water quality and safety.**

Engineering Tailored to Your Project

"Bespoke development — you're not buying a compromise. Based on our proven experience, we configure the ideal ratio and density of the nanofibres."

- Custom configuration of the filtration media based on the specification and volume of your residential pool.
- Full technical support for architects, designers, and pool technology installers.
- Certified warranty and post-warranty service provided by AquaTech North Bohemia specialists.



We'll Design the Ideal Solution for Your Facility

Contact our specialists for a consultation and a tailored quotation.

DANIEL-LM s.r.o.

division AquaTech North
Bohemia

Get in Touch

Export / International Dept.:
+420 730 330 353

Sales Department: +420 773 992
321

Technical Support: +420 777 919
877

Management: +420 777 321 846

Online

E-mail: info@aquananotech.eu

Web: www.aquananotech.eu

