Weitz biobird® Aqua-Vitalisierer

Physical inline water conditioning – made in Germany, EU-patented

No chemicals. No electricity. No consumables. Zero OPEX.

Türkiye & Middle East distributor: Kinsiz Mühendislik · UAE partner: PINNACLE ONE

Keep scale, sludge and corrosion products moving – out of your pipes, heat exchangers and pools.



The Aqua-Vitalisierer is installed inline on any water line, from ¾" to 4" threaded and flanged industrial sizes. It conditions water *physically*: a patented double-vortex geometry (Schauberger principle) plus a permanent-magnet field changes how dissolved minerals crystallise, so lime and iron oxides stay as a soft suspension that is flushed out instead of hardening on surfaces; existing deposits are gradually loosened.

Nothing to power, dose, replace or service; sized to the pipe diameter with no pressure loss; installed upstream of filters and existing dosing equipment.

Closed heating / chilled-water loops · **Swimming pools & water parks** · **Laundries & boilers** · **TSE / well-water irrigation** · **Aquaculture & fountains**

HOW IT WORKS

1 Double vortex
Controlled turbulence breaks up large water clusters and lowers surface tension, so water wets, rinses and dissolves better.

2 Magnetic field
A homogeneous permanent-magnet field alters the crystal structure of dissolved lime; crystals form in the water, not on the wall.

3 Soft suspension
Scale and rust stay a fine, soft suspension carried to drains, strainers or the DBR-BW separator – no biocides or inhibitors.

DOCUMENTED RESULTS

600 kW closed heating loop – CNRS research centre, Montpellier (France)

Two Type A units on flow and return (2007). Independent lab (Bouisson Bertrand) before vs. after:

1,260 → 16	46 → 0.04	7.2 → 0.78
Iron, mg/L	Copper, mg/L	Manganese, mg/L

Loop water changed from turbid and malodorous to clear and odourless.

Source: CNRS / Ingenio test summary, Weitz Wasserwelt (full report on request).

Closed heating system, aged piping – Québec (Canada)

DBR-BW40 separator fitted to remove sludge without chemicals. Eurofins EnvironeX certified analyses (2021–2024):

−80%	0	0
Suspended solids	Biocide & inhibitor dosing	Bag filters needed

Lower maintenance and energy costs; improved heat transfer; extended plant life.

Source: Aqua Swiss Canada project file “Bain Morgan”, Eurofins certificates (on request).

WHERE IT PAYS OFF

- **District cooling & chiller plants** – closed-loop sludge control; cleaner heat exchangers
- **Food & beverage plants** – boilers, CIP, hot water; 1 mm scale ≈ +10% energy
- **Hotels & resorts** – pools, calorifiers, laundries; mfr. data: up to 50% less chlorine
- **Water parks & aquaria** – large recirculation volumes; Type B for ponds & fountains
- **Commercial laundries** – mfr. data: 20–30% less detergent; longer textile life
- **Facilities management** – energy & chemical saving with no maintenance obligation
- **Golf, landscape, agriculture** – TSE / well-water irrigation: fewer clogged emitters
- **Car-wash & aquaculture** – spot-free rinsing; chemical-free recirculation

TECHNICAL SUMMARY

Models	Type A (mains & circulation), Type B (ponds, pools, aquaria), DBR-BW (closed-loop separator)
Sizes	¾" – 4" threaded; flanged industrial units sized to DN and design flow
Energy / media	None – no power supply, chemicals, salt, filters or moving parts
Installation	Any orientation; upstream of filters/dosing; ≥ 60 cm from electrical treatment devices
Pressure loss	None when sized to the line
Origin	Weitz Wasserwelt, Germany · EU patent · Europe sales: Unipond Swiss AG

OUR OFFER: MEASURE IT ON YOUR SITE

60–90 day pilot with independent before/after analysis

One unit on a loop, pool or line of your choice; parameters sampled by an independent UAE laboratory; success criteria agreed together, with your current chemical and energy consumption as baseline. No running cost; the unit is removed if targets are not met.

We will be in **Dubai on 14–16 October 2026** with a cut-away sample unit and the full laboratory documentation.

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“Mfr. data” figures come from the manufacturer’s European installations and vary with water chemistry and system design; CNRS and Québec results refer to the installations cited. The device is a physical conditioner, does not remove dissolved substances and does not replace required disinfection or filtration. biobird® and Weitz are trademarks of their owners.