

LOW ENERGY MODULE  
for fish farming



Professional competence  
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CONSULTING – PLANNING – IMPLEMENTATION – SERVICE



# Energy is more expensive...

## Low energy modules for fish farming

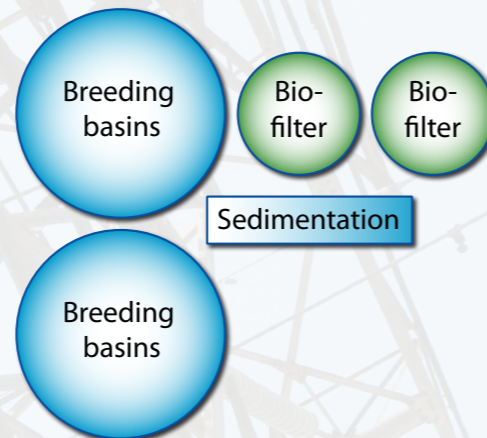
Developing our low energy modules, we go back to the 30-year-old experience of the Müritz fish farming as an operator of circuit structures with different technik- and energy-costly systems.

Our purpose is to reduce to a minimum the technical expenditure and the consumed electric power, using only one power-train (circuit pump) and at the same time to organise the necessary sequence of processes optimally and reliably.

Modules are suitable for warm and cold water delivery and can be also used with salt – or brackish water. The special construction method allows uncomplicated installation in already available buildings. They are suited especially for the breeding of challenging kinds of fish, and also for individual and regional solutions of fish farming.

### The advantages of the RZW module:

- Low energy and place need
- Uncomplicated technology, only one single power-train
- Favourable relation between the productive to unproductive volume
- Ideal distribution of water by percolating filter technology
- Short pipe ways
- Insignificant production costs and service
- Separate circulating systems
- High functional security by the most modern control / alarm



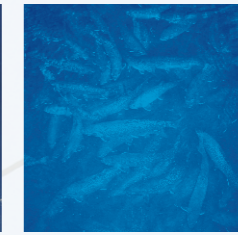
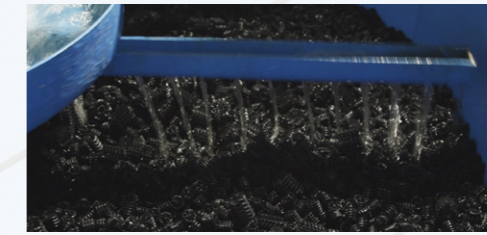
## Service and technical care of your circuit structures

WiedeLandtechnik offers you low energy modules, they are extendable and are under the constant control during the operation.

Experienced employees guarantee reliable work also after commissioning.



# Fish is shorter in supply...



## Description of the module RZW

### Equipment

2 GRP-round basins with 12 m<sup>3</sup> prod. volumes, 1 mechanical filter, 1 compact biofilter with sump pit, 2 pumps, an oxygen feed system and an electronic control and alarm.

### Pump

There are 2 pumps with the productivity of approx. 1.300 l / h, equipped with ceramic bearing, soft start, long run.

### GRP-round basins

The reservoirs have 3.20 m of diameter, are self-cleaning and are 2-divided. They can be installed on the spot. Thereby it is possible to install modules also in buildings without big gates.

### Oxygen feed system

The control system guarantees effective oxygen feed and the control of the set oxygen level at the different density of fish.

### Mechanical filter

The three-piece filter functions on the base of the sedimentation by extreme reduction of the stream speed.

### Control system and alarm

It supervises the important tasks (water temperature, pH value, level of oxygen), regulates the oxygen feed and enables distant data query and data storage for a longer time. Informs the owner in case of breakdown.

### Biofilter

Consists of 2 basins with percolating filter. Water is steadily distributed above the whole surface. It guarantees a very high utilisation of the percolating filter and at the same time biological water treating. Fumigation and degassing occur by the crosscurrent procedure.

### Structural requirements:

- Free approach to the object
- Availability of supply and waste recycling lines
- Electric power provision
- Installation term: as a rule, 7 working days

