

## PURE WATER. PURE BENEFITS. PURE DECISION.

### THE CONCEPT.

The ZONS®eco air technology makes the use of movable or electric parts in the clarification tank superfluous. The actual technological components are accommodated in a switch cabinet for outdoor mounting. With excellent clarification results, this leads to considerable advantages in terms of assembly, longevity, maintenance and operating costs.

### SIMPLE BUILD-UP.

All pumping is effected in a simple way and free from wear using plastic air pressure lifters based on the air slug principle. By means of special construction a minimal water level in the plants is ensured without having to revert to float switches or other sensors which are fault-prone. Ventilation of the plant is achieved by microbubble air using membrane diffusers on the bottom of the tank. Therefore a fault-free and more efficient stirring is achieved than with surface ventilation systems. There is no propeller which can be entwined by hair.

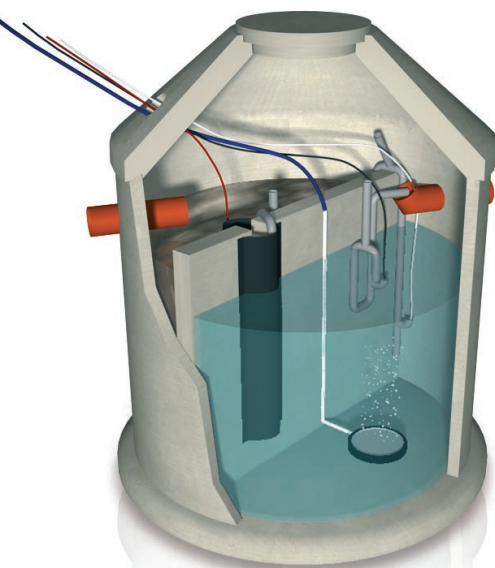
Robust stainless steel parts are used for air supply. You can also use the ZONS®eco air for retrofitting existing plants and tanks. Using the Quick retrofit kit is the fastest way to retrofit your existing plant. All constructive parts are already fixed on a bracket and only have to be placed onto the separation wall of the prepared clarification tank.

### MODULAR BUILD-UP FOR FLEXIBLE USE.

**Denitrification** (discharge classes N and D) - is intended for a comprehensive elimination of the nitrogen contained in the sewage water.

**Phosphate reduction** (discharge class +P) - By reducing the phosphate concentration in the sewage water, the ZONS®eco air is also suitable for use in sensitive areas.

**Hygienisation** (discharge class +H) - By post-treatment of the discharged water with UV light, the remaining bacteria and germs are almost completely killed off. As a consequence ZONS®eco air can also be used in most sensitive areas (e.g. water protection areas).



TANK WITH DISC-INSTALLATION

PURELY BIOLOGICAL SMALL  
SBR WASTEWATER TREATMENT  
SYSTEMS FOR NEW INSTALLA-  
TION AND RETROFITTING

# YOUR BENEFITS AT A GLANCE.

## SECURE OPERATION

## EFFECTIVE OPERATION

## NO ELECTRICAL OR MOVING PARTS AT WATER

- no float gauge or sensors

## COMPACT CONSTRUCTION

## STURDY

- Insensitively to hydraulic shock loadings

## LOW MAINTENANCE AND EASY INSTALLATION

## COST SAVING

- aeration is raised by economically air compressor and membrane aerator
- underload detection in connection with the control box ZK-Plus
- this results in less current consumption
- only semiannual maintenance required thanks to power interruption detector
- cost-efficient purchasing

## DENTRIFICATION OPTIONAL

## LONG LASTING

- warranty 2 years + 1 year on all electrical and machine parts following registration

## FUNCTIONAL AND PRACTICAL

- simplified operational management of the controller
- suitable for any functionally sound tank
- need only two chambers and few tank volume
- several tanks geometries and materials possible
- as complete plant or retrofit part
- reliable aeration equipment

## EXCELLENT DISCHARGE VALUES/ CLEANING CAPACITY

- discharge values significantly lower than the regulatory requirements

## MULTIFUNCTIONAL

- special solutions for restaurants and dairy product processing facilities
- variable applicable 4-500 PE

## ESTABLISHED TECHNOLOGY

## CERTIFIED

- general technical approval (DIBT)

## CERTIFIED TO EN 12566-3



Control box ZK



Quick - Installation Kit



Switch cabinet with control box ZK-Plus