

# QUESTIONNAIRE



## RUDOLF MESSNER UMWELTTECHNIK

### Contact details

Company / Municipality: \_\_\_\_\_  
 Name / Department: \_\_\_\_\_  
 Zip Code / City: \_\_\_\_\_ Street: \_\_\_\_\_  
 Telephone: \_\_\_\_\_ Mobile: \_\_\_\_\_  
 E-Mail: \_\_\_\_\_ Fax: \_\_\_\_\_

### Important details for aerator design

Name of WWTP: \_\_\_\_\_  
 Plant capacity (design/current): \_\_\_\_\_ / \_\_\_\_\_ PE (Population equivalent)  
 Plant capacity (design/current): \_\_\_\_\_ / \_\_\_\_\_ m<sup>3</sup>/d (Inlet flow)  
 Height above sea level \_\_\_\_\_ m

#### Kind of wastewater:

- municipal waste water  
 industrial waste water (industry type: \_\_\_\_\_)

#### Oxygen requirements:

Actual Oxygen Requirement (AOR)		kgO <sub>2</sub> /h
Standard Oxygen Transfer Rate (SOTR)		kgO <sub>2</sub> /h
Alpha Value (α)		

If the direct oxygen data are available, please fill this table. Otherwise, we need the current loads of the wastewater (following tables)

#### Current loads for the biology inlet:

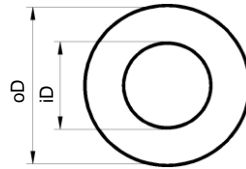
Measurements	Influent values for biology	
COD		mg/l
BOD <sub>5</sub>		mg/l
TSS		mg/l
TKN		mg/l
PO <sub>4</sub>		mg/l
MLSS		g/l
Wastewater temperature		°C

#### Requirements for the outlet of the biology tank:

COD		mg/l
BOD <sub>5</sub>		mg/l
NH <sub>4</sub>		mg/l
NO <sub>3</sub>		mg/l

**Number and Dimensions of Aeration Tanks**

Circular tank  
Number: \_\_\_\_\_



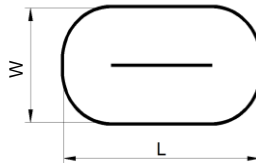
outer Diameter oD: \_\_\_\_\_ m  
inner Diameter iD: \_\_\_\_\_ m  
Water depth WD: \_\_\_\_\_ m  
Volume V: \_\_\_\_\_ m<sup>3</sup>

Rectangular tank  
Number: \_\_\_\_\_



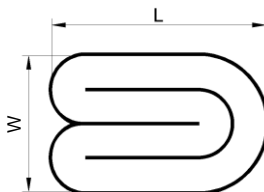
Length L: \_\_\_\_\_ m  
Width W: \_\_\_\_\_ m  
Water depth WD: \_\_\_\_\_ m  
Volume V: \_\_\_\_\_ m<sup>3</sup>

Oxidation ditch  
Number: \_\_\_\_\_



Length L: \_\_\_\_\_ m  
Width W: \_\_\_\_\_ m  
Water depth WD: \_\_\_\_\_ m  
Volume V: \_\_\_\_\_ m<sup>3</sup>

Carrousel tank  
Number: \_\_\_\_\_



Length L: \_\_\_\_\_ m  
Width W: \_\_\_\_\_ m  
Water depth WD: \_\_\_\_\_ m  
Volume V: \_\_\_\_\_ m<sup>3</sup>

**Available airflow / Blower configuration**

Total available airflow (all blowers): \_\_\_\_\_ Nm<sup>3</sup>/h

Brand	Type	Airflow Nm <sup>3</sup> /h	Pressure mbar	Motor Power kW

**Added Information:**