

1.1 Checklist Submersible Mixers.

Activation, Nitrification, Denitrification, Anaerobic tank.

Project name: _____ **Project country:** _____

Project phase:

Idea phase Design phase Tendering phase



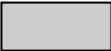
Design criteria


Energy optimised Invest optimised

Installation

New plant Rehabilitation

Basin data (please enclose a drawing)

<input type="checkbox"/> Round tank		<input type="checkbox"/> Annular tank		<input type="checkbox"/> Rectangular tank	
No. of tanks: _____ pcs		No. of tanks: _____ pcs		No. of tanks: _____ pcs	
Diameter: _____ m		Outer ø: _____ m		Length: _____ m	
Depth: _____ m		Inner ø: _____ m		Width: _____ m	
Volume: _____ m ³		Depth: _____ m		Tank depth: _____ m	
		Volume: _____ m ³		Volume: _____ m ³	

<input type="checkbox"/> Circulation channel		Constant water level?
No. of tanks: _____ pcs		<input type="checkbox"/> Yes
No. of channels: _____ pcs		<input type="checkbox"/> No
Straight Length: _____ m		Min. water depth: _____ m
Channel width: _____ m		Max. water depth: _____ m
Depth: _____ m		Calculation relevant filling level : _____ m
Volume: _____ m ³		

Inflows and outflows acc. to drawing/sketch + pls. add further details

Data and basic conditions

Dry solids content: _____ %	Density: _____ kg/m ³
Sludge volume index: _____ ml/g	Temperature: _____ °C

pH-value: _____

Mixer operation: _____ h/year

Tank material concrete
 steel

Energy costs: _____ €/kWh

Aeration

Yes, simultaneous Yes, but discontinuous No

If „yes“

Gyroscopic aeration

Rated power: _____ kW

No. of aerators: _____ pcs

Brush aeration

Rated power: _____ kW

No. of aerators: _____ pcs

Ground aeration

Type: _____

Air quantity per tank: _____ Nm³/h

Surface covered by aeration: _____ m²

Distance tank ground
to top edge of aerators: _____ m

No. of aeration fields at distances
between the fields > 2 m: _____ pcs

Number of elements: _____ pcs

Technical data

Voltage _____ V

Frequency 50 Hz
 60 Hz

Ex-Approval Yes No

Type of starting Direct
 Frequency transformer
 Soft starting
 Star delta

Temperature control

Bimetal sensor
 Cold type thermistors (PTC)

Leakage control _____

Length of power cable _____ m

Corrosion protection Standard
 Ceram C0

Additional comments

Please send the completely filled checklist to:

WILO SE, Werk Hof

Group Competence Team Waste Water Treatment

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