

1.1 Checklist.

Activation, Nitrification, Denitrification, Anaerobic Tank.

Data and basic conditions

Dry solids content	_____ %	Calculation relevant tank volume	_____ m ³
Sludge volume index	_____ ml/g	Tank geometry, inflows and outflows	acc. to drawing/sketch
Density	_____ kg/m ³	Tank material	<input type="checkbox"/> Concrete <input type="checkbox"/> Steel
Temperature	_____ °C	Mixer operation	_____ h/year
pH value	_____	Energy costs	_____ €/kWh
Number of tanks	_____ pcs	Selection procedure	<input type="checkbox"/> Energy optimised <input type="checkbox"/> Investment optimised
Calculation relevant filling level	_____ m		

Aeration

<input type="checkbox"/> Yes-simultaneous	if „Yes“	<input type="checkbox"/> Ground aeration	Distance tank ground to top edge of aerators	_____ m
<input type="checkbox"/> Yes-but discontinuous		<input type="checkbox"/> Brush aeration	Number of aeration fields at distances	
<input type="checkbox"/> No		<input type="checkbox"/> Surface aeration	between the fields > 2m	_____ pcs
Air quantity on standard conditions	_____ m ³ /s		Rated power only for surface a. brush aerators	_____ kW
Surface covered by aeration	_____ m ²		Number of surface a. brush aerators	_____ pcs
Height of the aerators	_____ m			

Technical Data

Voltage	_____ V	Temperature control	<input type="checkbox"/> Bimetal sensors <input type="checkbox"/> Cold type thermistors (PTC)
Frequency	<input type="checkbox"/> 50 Hz <input type="checkbox"/> 60 Hz	Leakage control	_____
Ex protection	<input type="checkbox"/> No <input type="checkbox"/> Yes	Length of the power cable	_____ m
Type of starting	<input type="checkbox"/> Direct <input type="checkbox"/> Frequency transformer <input type="checkbox"/> Soft starting <input type="checkbox"/> Star delta	Corrosion protection	<input type="checkbox"/> 2 component polymer coating (Ceram C0) <input type="checkbox"/> 2-component high solid coating

Checklist Activation, Nitrification, Denitrification, Anaerobic Tank.

Project-/Request number

Company

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1.2 Checklist.

Sludge Tank.

Data and basic conditions

Kind of sludge	_____	Number of tanks	_____ pcs
Dry solids content	_____ %	Maximum filling level	_____ m
Density	_____ kg/m ³	Calculation relevant filling level	_____ m
Dynamic viscosity	_____ Pa s	Calculation relevant tank volume	_____ m ³
Addition of conditioning agent	<input type="checkbox"/> polymeres <input type="checkbox"/> iron <input type="checkbox"/> calcium carbonate <input type="checkbox"/> no	Tank geometry, inflows and outflows	acc. to drawing/sketch
Type of thickening	<input type="checkbox"/> static <input type="checkbox"/> mechanical	Tank material	<input type="checkbox"/> Concrete <input type="checkbox"/> Steel
pH value	_____	Mixer operation	_____ h/year
		Energy costs	_____ €/kWh

Technical Data

Voltage	_____ V	Temperature control	<input type="checkbox"/> Bimetal sensors <input type="checkbox"/> Cold type thermistors (PTC)
Frequency	<input type="checkbox"/> 50 Hz <input type="checkbox"/> 60 Hz	Leakage control	_____
Ex protection	<input type="checkbox"/> No <input type="checkbox"/> Yes	Length of the power cable	_____ m
Type of starting	<input type="checkbox"/> Direct <input type="checkbox"/> Frequency transformer <input type="checkbox"/> Soft starting <input type="checkbox"/> Star delta	Corrosion protection	<input type="checkbox"/> 2 component polymer coating (Ceram C0) <input type="checkbox"/> 2-component high solid coating

Checklist Sludge Tank.

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1.3 Checklist.

Stormwater Retention Tank.

Data and basic conditions

Number of tanks _____ pcs
Calculation relevant filling level _____ m
Calculation relevant tank volume _____ m³
Tank geometry, inflows, outflows acc. to drawing/sketch
Tank material Concrete
 Steel
Mixer operation _____ h/year
Energy costs _____ €/kWh

Technical Data

Voltage _____ V	Temperature control	<input type="checkbox"/> Bimetal sensors
Frequency <input type="checkbox"/> 50 Hz <input type="checkbox"/> 60 Hz	Leakage control _____	<input type="checkbox"/> Cold type thermistors (PTC)
Ex protection <input type="checkbox"/> No <input type="checkbox"/> Yes	Length of the power cable _____ m	
Type of starting <input type="checkbox"/> Direct <input type="checkbox"/> Frequency transformer <input type="checkbox"/> Soft starting <input type="checkbox"/> Star delta	Corrosion protection	<input type="checkbox"/> 2 component polymer coating (Ceram C0) <input type="checkbox"/> 2-component high solid coating

Checklist Stormwater Retention Tank.

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1.4 Checklist.

Pump pit, different mixing tasks in waste water treatment plants.

Data and basic conditions

Application	_____	Maximum filling level	_____ m
Kind of liquid	_____	Calculation relevant filling level	_____ m
Dry solids content	_____ %	Calculation relevant tank volume	_____ m ³
Density	_____ kg/m ³	Pumping station/Tank geometry, inflows and outflows	acc. to drawing/sketch
Dynamic viscosity	_____ Pa s	Pumping station/Tank material	<input type="checkbox"/> Concrete <input type="checkbox"/> Steel
pH value	_____	Mixer operation	_____ h/year
Number of Pumping stations/Tanks	_____ pcs	Energy costs	_____ €/kWh

Technical Data

Voltage	_____ V	Temperature control	<input type="checkbox"/> Bimetal sensors <input type="checkbox"/> Cold type thermistors (PTC)
Frequency	<input type="checkbox"/> 50 Hz <input type="checkbox"/> 60 Hz	Leakage control	_____
Ex protection	<input type="checkbox"/> No <input type="checkbox"/> Yes	Length of the power cable	_____ m
Type of starting	<input type="checkbox"/> Direct <input type="checkbox"/> Frequency transformer <input type="checkbox"/> Soft starting <input type="checkbox"/> Star delta	Corrosion protection	<input type="checkbox"/> 2 component polymer coating (Ceram C0) <input type="checkbox"/> 2-component high solid coating

Checklist Pump pit, different mixing tasks in waste water treatment plants.

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