

MUST cubeClean | containerized wastewater treatment plant

January 2020

INTRODUCTION

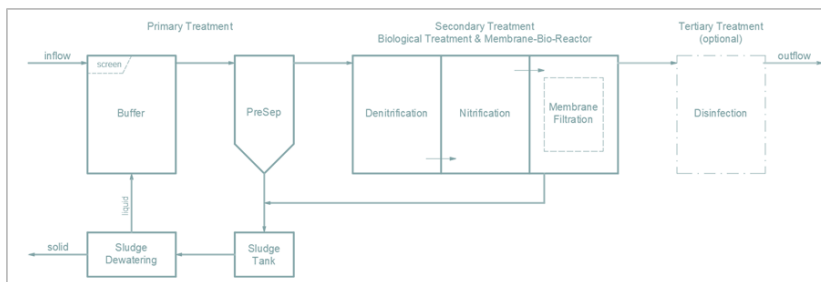
The **cubeClean system** from MUST offers a turn-key compact and mobile solution for the decentralized treatment of wastewater at remote locations.

A unique solution designed for remote municipality wastewater treatment plants as:

- small villages
- camp sites
- construction sites

TECHNOLOGY

The **cubeClean system** combines best suitable technology for your purification demand. The main setup is based on proven cleaning technologies which can be combined for pre-, secondary and tertiary treatment.



PERFORMANCE

Parameter	Unit	Range of typical inflow	Effluent requirements of EU 91/271/ECC			Minimal Degradation [%]	Effluent cubeClean 60 – 1'000 PE*
			< 2'000 PE	2'000 – 10'000 PE	> 10'000 PE		
Chemical Oxygen Demand (COD)	mg/l	400 - 800	125	125	125	75	< 50
Biological Oxygen Demand (BOD5)	mg/l	200 - 400	25	25	25	70 - 90	< 5
Total Suspended Solids (TSS)	mg/l	100 - 350		60	35	70 - 90	< 5
Total Nitrogen (1) (TN)	mg/l	15 - 60			15	70 - 80	< 10
Total Phosphorus (TP)	mg/l	3 - 12			2	80	< 2 (1) **

(1) Total Nitrogen = TKN (Norganic+NH3)+NO3-N+NO2-N | * Depending on local requirements and accordingly the performance of the system can be adjusted
 ** With additional flocculants for precipitation

TECHNICAL RANGE

Parameter	Unit	cubeClean System 12.5	cubeClean System 25	cubeClean System 60	cubeClean System 120
Wastewater treatment capacity	m ³ /day	12.5	25	60	120
Population equivalent	PE	60 - 100	125 - 200	300 - 500	600 - 1'000
Buffer tank capacity	m ³	2.1 - 4.2	4.2 - 8.4	10 - 20	20 - 40
Operation environmental temperature	°C	- 45°C to + 45°C			
Noise emission	dB (A)	inside / outside the container: max. 75 / 45 dB (A)			
Sludge Dry Solid (DS) content	in %	minimum 15 %			

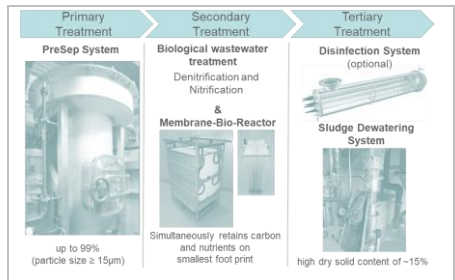
INVESTMENTS AND ROI

Due to customized systems ROI has to be calculated individually. Average ROI is below 4 years (depends on size and application).



FACTS

- **Primary treatment** with solid/liquid separation of **up to 99%**
- Simple and small treatment plant with **high efficiency**
- **Low** operation and maintenance **cost** (reduced OPEX)
- **Up to 90% space savings** to traditional treatment plants
- **Stable and reliable process**



KEY BENEFITS

- **Flexible system** for remote locations
- **Increase capacity** of existing wastewater treatment plants
- Modular and **scalable design**
- Flexibility for future growth / capacity increase
- **Short delivery time**, fast integration in existing facility and quick commissioning

CONTACT

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