



Certificate

349.02C02

KLARO GmbH

Spitzwegstraße 63, 95447 Bayreuth, Germany

Small wastewater treatment system KLARO and KLARO Easy

SBR process

Advanced nutrient elimination test*

Consisting of the following sequences:

(1) 20 weeks program "D" (2) 26 weeks program "D+" (3) 6 weeks program "D" and carbon dosing 37.5 ml/PE*d

* for details see test report PIA 349B15.A03

Nominal organic load: 0.18 kg/d
Nominal hydraulic load: 0.6 m³/d
Material: Polypropylen
Treatment efficiency:

Parameter		Program "D"	Program "D+"	Carbon dosing 37.5 ml/PE*d
COD	efficiency	96.1 %	97.0 %	95.5 %
	effluent	31 mg/l	25 mg/l	35 mg/l
BOD ₅	efficiency	98.8 %	n/a	97.8 %
	effluent	4 mg/l	n/a	6 mg/l
SS	efficiency	97.1%	n/a	97.2 %
	effluent	10 mg/l	n/a	10 mg/l
NH ₄ -N	efficiency	96.9 %	96.0 %	97.7 %
	effluent	1.1 mg/l	1.7 mg/l	0.9 mg/l
TN _b	efficiency	71.5 %	86.5 %	94.0 %
	effluent	17 mg/l	9 mg/l	4 mg/l
P _{tot}	efficiency	50.4 %	38.4 %	84.3 %
	effluent	4.2 mg/l	5.2 mg/l	1.3 mg/l

Power consumption	0.5 kWh/d	0.5 kWh/d	0.4 kWh/d
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Tested by:

PIA – Prüfinstitut für Abwassertechnik GmbH

(PIA GmbH)

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52074 Aachen, Germany

This document replaces neither the declaration of performance nor the CE marking.

PIA – Sustainable Certification
D. Schmitz
geprüft – tested – testé

Daniela Schmitz

June 2023



Notified Body
No.: 1739