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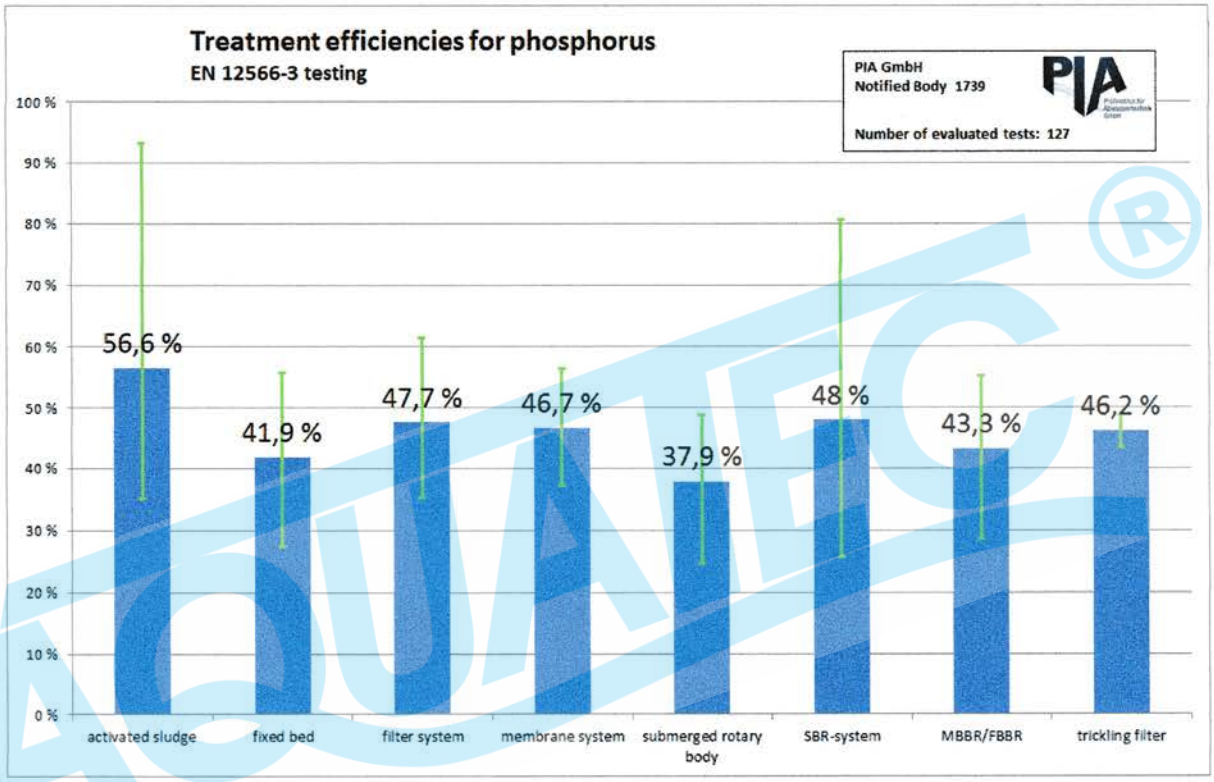
Treatment efficiency of phosphorus (EN 12566-3), Attestation No. 215B38-332B23.A01

To whom it may concern

We hereby confirm that the small wastewater treatment plant AT of the company Aquatec VFL s.r.o was tested twice according to the European standard EN 12566-3 on the testing field of PIA GmbH in Aachen, Germany with two different hydraulic loads. During the 38-week test of the small wastewater treatment plant AT8 (Report No PIA2014-215B38), from 11 November 2013 until 3 August 2014 with 0.9 m³/d, an average treatment efficiency of 93.3 % was evaluated regarding the parameter P_{tot}. The small wastewater treatment plant AT8 (Report No PIA2018-332B23), tested from 9 October 2017 until 1 June 2018 with 0.75 m³/d, achieved an average treatment efficiency of 87.6 % for the parameter P_{tot} during the 38-week test. Both plants are continuous-flow systems which work with a suspended growth and activated sludge process. They were tested without an active phosphorus removal.

PIA GmbH has a certified quality management system according to EN ISO 9001:2008 for the field "testing of wastewater equipment" and is approved by the European Commission as a testing authority "Notified Body" (NB 1739) according to the Construction Products Regulation (CPR) for small wastewater treatment systems for up to 50 PT according to EN 12566 Part 1, 3, 4, 6 and 7. Furthermore, PIA GmbH is accredited as testing laboratory based on EN ISO/IEC 17025:2005.

To compare the achieved treatment efficiencies with other systems without chemical or electro-chemical precipitation of phosphorus, the results of 127 completed EN 12566-3 tests at PIA GmbH were evaluated of different techniques and are shown below.



Treatment efficiencies showing maximum, mean and minimum values

To consider the average treatment efficiency regarding the phosphorus parameter, it was calculated from the mean influent concentration and the mean effluent concentration of the nominal phases.

Kind regards

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