

TECHNICAL DATA SHEET

DESCRIPTION

The compact water purification plant BioGreen™ P meets all conditions to comply with legal requirements for the removal of pesticides, **Chlorothalonil** in particular, using active coal for the purification process. Certified laboratories confirmed the cleaning capacity of 17-times exceedance of the limit value of the contaminants to a reduction of one fourth of the limit value.

Built into a dense 10, 20 or 40ft container with in inflow and a drain, this system accomplishes the removal of >97% of the contaminants. There is no accumulation of concentrate. Compared to other, not equally efficient techniques, the power requirements are significantly low.

The maintenance is being carried out by the supplier, subject to an according Service Agreement. Due to the "Plug-n-Play" approach the unit is easy to install, it can be delivered and put into operation in a very short time. At the initial installation the Agreement enters into force upon the availability of positive laboratory tests.

CHARACTERISTICS

Cleaning of drinking water; Removal of pesticides (including Chlorothalonil)

Service execution once per year (according to the Service Agreement)

Cleaning Capacity Version 100 (BioGreen™ P 100) bis zu 100 m³ per day

Version 300 (BioGreen™ P 300) bis zu 300 m³ per day

Version 600, Version 1200 und Version 2500

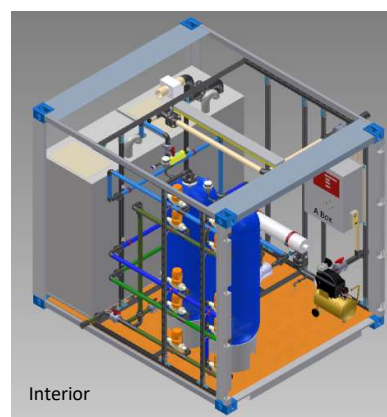
→ In specific cases the systems can be combined or larger flow rate performance can be offered.

Secured access with alert feature via SMS; Alarm in case of disfunction via SMS;

Regulation of flow rate through a frequency-controlled pump with an overcharge – termination function;

User friendly display of the inflow, disfunctions and pressure, via mobile device;

EXAMPLE DIMENSIONS & INTERIOR 10ft CONTAINER



TECHNICAL DATA 10ft/20ft/40ft

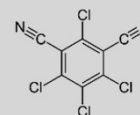
Container:	isolated outside walls out of stainless-steel composite panels
Dimensions:	L: 3.05/6.10/12.19m W: 2.44m H: 2.59m
Entry/Exit:	connection with a welded sleeve
Drain:	draining of the tanks in case of service
Weight:	10/24/30 tons max.
Electrical power:	
- BioGreen™ P 300:	3.0 kW, max. 7.5 Amp., 0.24 kW/m ³
- BioGreen™ P 100:	1.1 kW, max. 2.75 Amp., 0.26 kW/m ³
Pressure:	Standard Supply-pressure 2 bar., max. 5bar
Filtermaterial:	PestiClean™ (Aktive cole)
Cleaning capacity:	Possible Flow rates 100 - 2500 m3/day
UV Desinfection:	<i>optional</i>
Heating:	3kW, <i>optional</i>
Video surveillance:	with alarm system, <i>optional</i>

TEST RESULTS SPRING WATER

CHLOROTHALONIL

-METABOLITE²

	Untreated	Limit	Treated	Reduction
Chlorothalonil R417888	0.334 µg/l	0.01 µg/l	<0.01 µg/l	>99%
Chlorothalonil R419492	0.337 µg/l	0.01 µg/l	<0.05 µg/l	>85%
Chlorothalonil R471811	1.030 µg/l	0.01 µg/l	<0.025 µg/l	>97%



OTHER SUBSTANCES WHICH CAN BE REDUCED

Pesticides:

Atrazine, Bentazone, Hexazinone, Isoproturon, Metazachlor, Metolachlor, Monuron, Simazine, Smeton, Terbumeton + Prometon, Tritosulfuron

Pesticides-Metabolite:

Atrazine-2-Hydroxy, Atrazine-Desethyl, Atrazine-dosethyl-2-hydroxy, Atrazine-Doslsopropyl, Chlordazon-desphenyl, Chlordazon-methyl-desphenyl, Chlorothalonil (R182281, R611965, R611968, SYN 507900, SYN 548581), Metazachlor (ESA, OXA), Prometon, Simazine, Terbutylazine

Pharmaceutic Contaminants:

Carbamazepin, Phenazon (Anipyrin), Sulfamethoxazol

Pharmaceutic Metabolite

Diuron

*Testergebnisse 13.10.2020 – 20.10.2020 von Labor Veritas AG bei UWI Anlage in der Schweiz