



PERFORMANCE RESULTS

PPU Umwelttechnik GmbH Bernecker Str. 73, 95448 Bayreuth, Germany

EN 12566-3, Annex B Small wastewater treatment systems for up to 50 PT

Small wastewater treatment system ClearFox® quickONE+ Completely aerated SBR treatment process in a one-chamber tank Test report PIA2016-273B11 This certificate is valid until 31 July 2017.

Nominal organic daily load Nominal hydraulic daily load	0.23 kg I 0.75 m³/d		
Material	Polyethy	lene	
Treatment efficiency (nominal sequences)	COD BOD₅ NH₄-N* SS	Efficiency 93.7 % 98.1 % 99.4 % 95.8 %	Effluent 48 mg/l 6 mg/l 0.2 mg/l 17 mg/l
Electrical consumption	0.52 kWł	n/d	

*determined for temperatures ≥ 12°C in the bioreactor

Performance tested by:

PIA – Prüfinstitut für Abwassertechnik GmbH (PIA GmbH) Hergenrather Weg 30 52074 Aachen, Germany

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





July 2016 Martina Wermter

No.: 1739



DEC	LARATION OF MAN	NUFACTURER
Dokument-Nr./ Document No.:	DO_20170316_CF-QuickONE+_declara	ation of manufacturer
Hersteller / Inverkehrbringer Manufacturer / Distributor:	PPU Umwelttechnik GmbH	
Anschrift / Address:	Bernecker Str. 73, D-95448 Bayreuth, Germany	
Produktbezeichnung/ Product name:	Sewage water treatment plant Clearfox-QuickONE+	
Тур / Туре:	Single chamber- sequential batch rea	ctor (SBR) technology
Hiermit bestätigen wir gemäß d (Datenblatt der Baureihe: ZE-D Reinigungsleistung., gemäß DI	ler folgend aufgeführten Dokumente die A B_CF-SBR-QuickONE+_4-12p.e) hinsich N EN 12566-1- 3.	Ausführung der Baureihe tlich der Behälter/ Tanks sowie unter Berücksichtigung der
We hereby confirm the design of (data sheet series: ZE-DB_CF-	of the series according DIN EN 12566-1 - SBR-QuickONE+_4-12p.e) as well as the	3 with regard to the containers / tanks cleaning performance according to the following documents:
Test-report Nr. / No.	Anlage / Description	
PIA2016-273B11		istung - Performance result / Certificate of cleaning efficiency
PIA2016-ST-PIT-1609-1111	Prüfbericht der Standsicherheit (PIT) -	
PIA2007-BT-010	Prüfbericht der Standsicherheit (PIT) -	
PIA2007-WD001	Prüfbericht der Wasserdichtheit - Tes	st report of watertightness
PIA2007-HW002	Prüfbericht des hydraulischen Wirkung	sgrades - Test report of hydraulic efficiency
PIA2013-BV-1204 1023	Prüfbericht des Brandverhaltens - Tes	at report of fire behavior
Ort, Datum / E Place, date:	systems	Bayreuth, 16.03.2017
/Signature: Ber	welttechnik GmbH necker Straße 73 Bayreuth, Germany	
- i ibanha	1-150 63 990(Fax: 150 63 999 1; info@clearfox.com w.ppu-umwelttechnik.de	Wolfgang Pöhnl Geschäftsführer / Managing Director
Diese Erklärung bescheinigt die Übe genannten Richtlinien, beinhaltet jeo Eigenschaften. Die Sicherheitshinwe Produktdokumentationen sind zu be	loch keine Zusicherung von eise der mitgelieferten	This declaration certifies compliance with the above mentioned directives but does not include a property assurance. The safety notes given in the product documentations, which are must be observed.

PPU Umwelttechnik GmbH, Bernecker Str. 73, 95448 Bayreuth, Tel. 0921 / 150 63 990, Fax 0921 / 150 63 999, email: info@ppu-umwelttechnik.de

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CE KONFORMITÄTSERKLÄRUNG DECLARATION OF CONFORMITY

Dokument-Nr./ DO_20170316_CF-QuickONE+_CE-declaration of conformity Document No.:

Bernecker Str. 73,

Clearfox-QuickONE+

D-95448 Bayreuth, Germany

Sewage water treatment plant

Hersteller / Inverkehrbringer PPU Umwelttechnik GmbH Manufacturer / Distributor:

Anschrift / Address:

Produktbezeichnung/ Product name:

Typ / Type:

Das bezeichnete Produkt stimmt mit den Vorschriften folgender Europäischer Richtlinien überein, nachgewiesen durch die Einhaltung folgender Normen:

Single chamber- sequential batch reactor (SBR) technology

The above mentioned product has been manufactured according to the regulations of the following European directives and norms proven through compliance with the following standards:

Nr. / No.	Richtlinie / Directive
MRL 2006/42/EG	EG Machinery Directive
98/37/EC	EC Machinery Directive (last amended by 93/68/EEC)
73/23/EEC	EC Low Voltage Directive (last amended by 93/68/EEC)
89/336/EEC	EMC Directive (last amended by 93/68/EEC)
EN 12566-3	Norm for treatment plants up to 50p.e.
89/106/EWG	General building directive
ATV/DWA A 122,131, 122,135, M 210	Design criteria, guidelines for dimensioning in conjunction with DIN EN 12255, DIN EN 4261-101
DIN 1986-100:2008-05	Drainage systems for buildings and plots section 100: Regulations in conjunction with DIN EN 752 and DIN EN 12056
DIN 4261-1:2010-10	Systems-Part 1: Plants for waste water pretreatment
DIN EN 1610:1997-10	installation and inspection of sewers and- channels
VDE 0609 / EN 60999, 60355-1/2-55, 50082- 1,55014,61000-3-2/3	Electrical installation systems for electrical components

Ort, Datum / Place, date:

Unterschrift /Signature:

PPU Umwelttechnik GmbH

Bernecker Straße 73 95448 Bayretth Germany Tel.: +400921-150 63 990 Eax 450 63 999 eMail: info@clearfox.com web: www.ppu-umwelttechnik.de

Diese Erklärung bescheinigt die Übereinstimmung mit den genannten Richtlinien, beinhaltet jedoch keine Zusicherung von Eigenschaften. Die Sicherheitshinweise der mitgelieferten Produktdokumentationen sind zu beachten. Bayreuth, 16.03.2017

Wolfgang Pöhnl Geschäftsführer / Managing Director

This declaration certifies compliance with the above mentioned directives but does not include a property assurance. The safety notes given in the product documentations, which are must be observed.

PPU Umwelttechnik GmbH, Bernecker Str. 73, 95448 Bayreuth, Tel. 0921 / 150 63 990, Fax 0921 / 150 63 999, email: info@ppu-umwelttechnik.de

D0_20170316_CF-QuickONE+_CE-declaration of conformity.doc

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quickONE+ single chamber SBR KIT

aerated cabinet

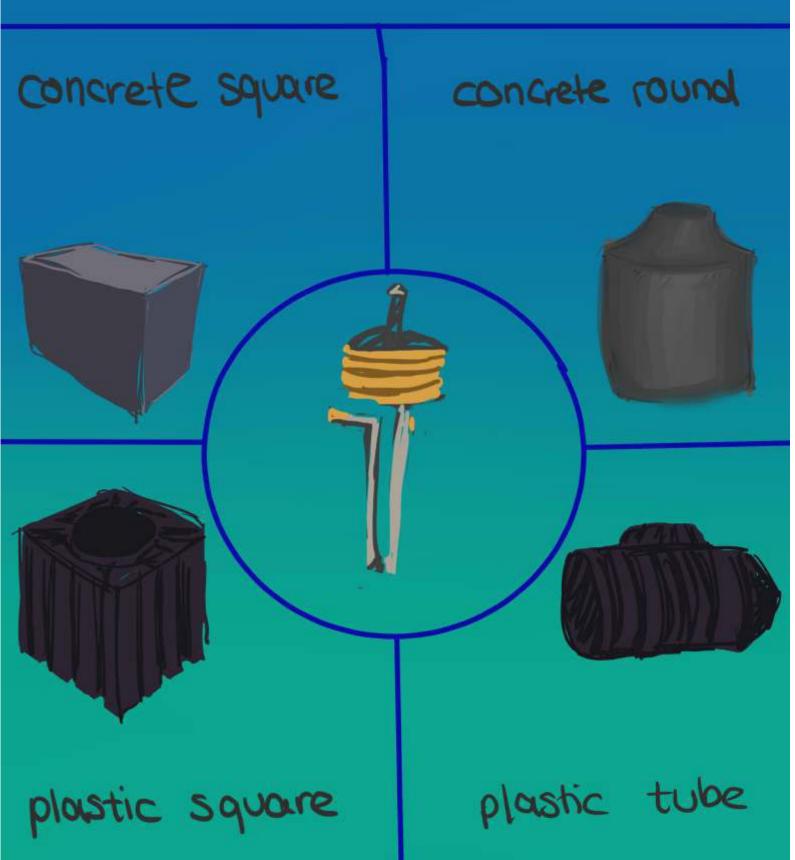
clearwater sampling

backflush

HQ membranes



one KIT for ALL ONE TANKS with or without baffle wall







delivery









sludge treatment

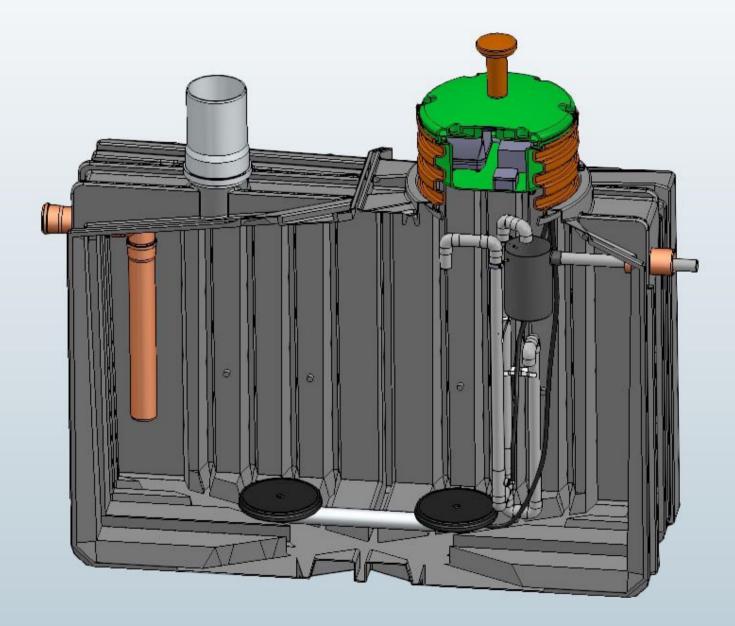
EN 12566-3	3:2005+A2:2	013, Anhai	ng B
Vorgefertigte Anlage zur B	ehandlung vo	on häuslich	em Schmutzwasser
Name des Produkttyps:	ClearFox quickONE+		
Werkstoff:	Polyethyl	en	
Reinigungsverfahren:	Volibelüft	ete Einkam	mer SBR-Verfahren
Prüfstelle:	PIA GmbH, NB 1739		
Wirksamkeit der Behandlung:			
Reinigungsleistung (bei einer geprüften organischen Tagesschmutzfracht	CSB: BSB ₅ :	93,7 % 98,1 %	Dest
BSB ₅ = 0,23 kg/d)	N _{gcs} ;	67,6 %	effluent
	NH ₄ -N:	94,2 %	quality
1907 - 100	SS:	95,8 %	
Hydraulische Last in den Nominalphasen (100 %)	0,75 m³/d		
Häufigkeit der Schlammentfernung	0	2 2	low
Energieverbrauch	0,52 kWh	/d	energy
Reinigungskapazität (nominale Bemessung)	5 EW		consumptio

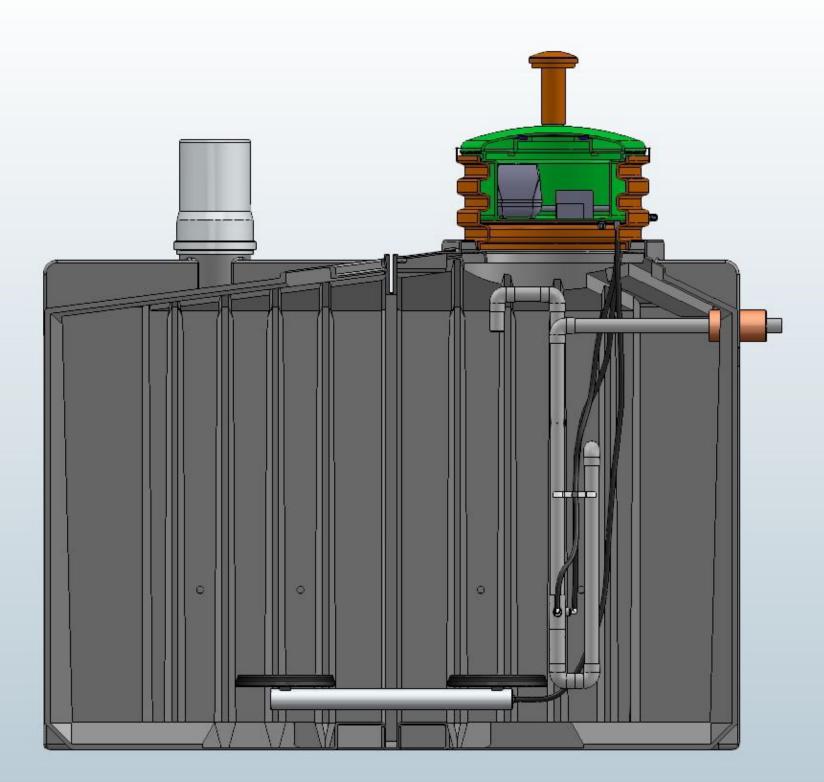


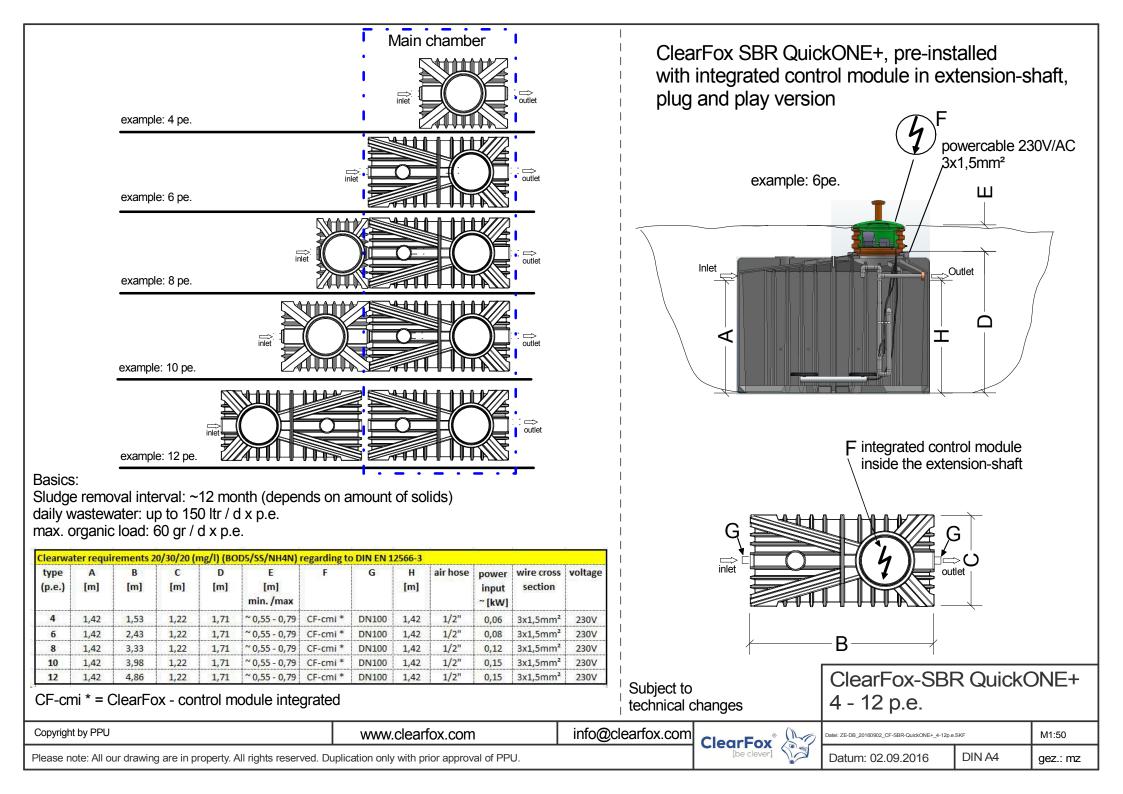
quickONE+ single chamber SBR KIT

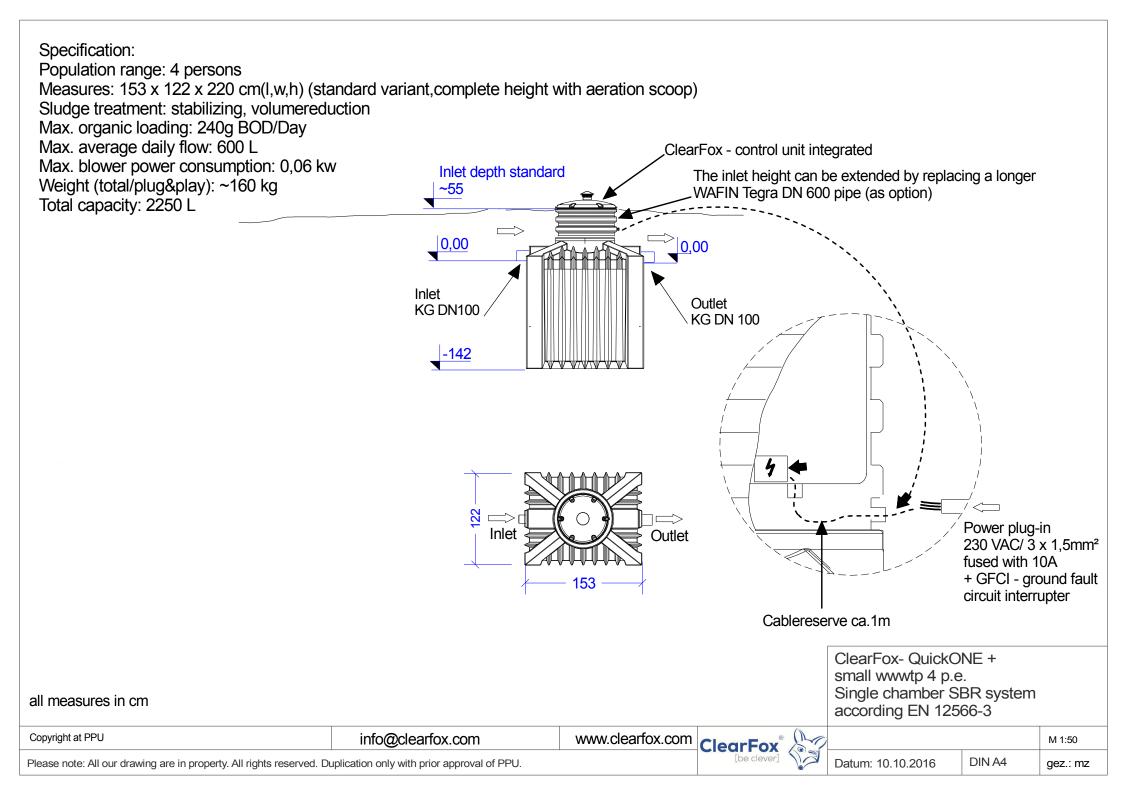
technical details:

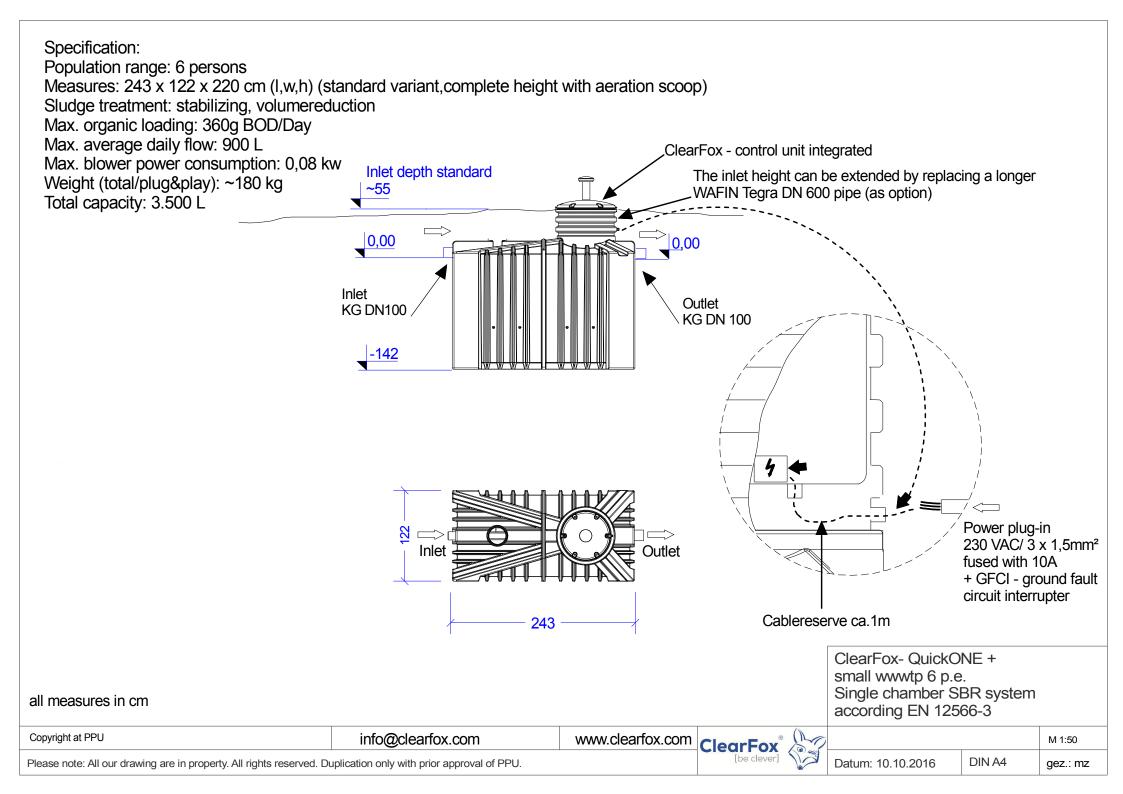
quickONE+ works according to an SBR process.One cyclus per day cleans the waste water and treats the sludge for minimizing the waste disposal cost. All the treatment is in one tank, the specific volume for 1x people equivalent is around 600 ltr.(i.e. 5p.e=3.000l) The plug&play-KIT is including all installationmaterial. The system cannot block due to a patented backflush. In order to get a low maintenance cost system all components are without moving parts, the controlunit is installed in an areated cabinet on top of the tank. There is no addtional sludge storage necessary ! The effluent quality is highest class in europe, the approved control unit can handle underload, overload, sludge stabilizing and holiday mode. The Kit - designed for the clients tank- can be installed onsite. The system is for domestic waste water from 1 p.e up to 50 p.e. according EN 12566-3 tested and approved.

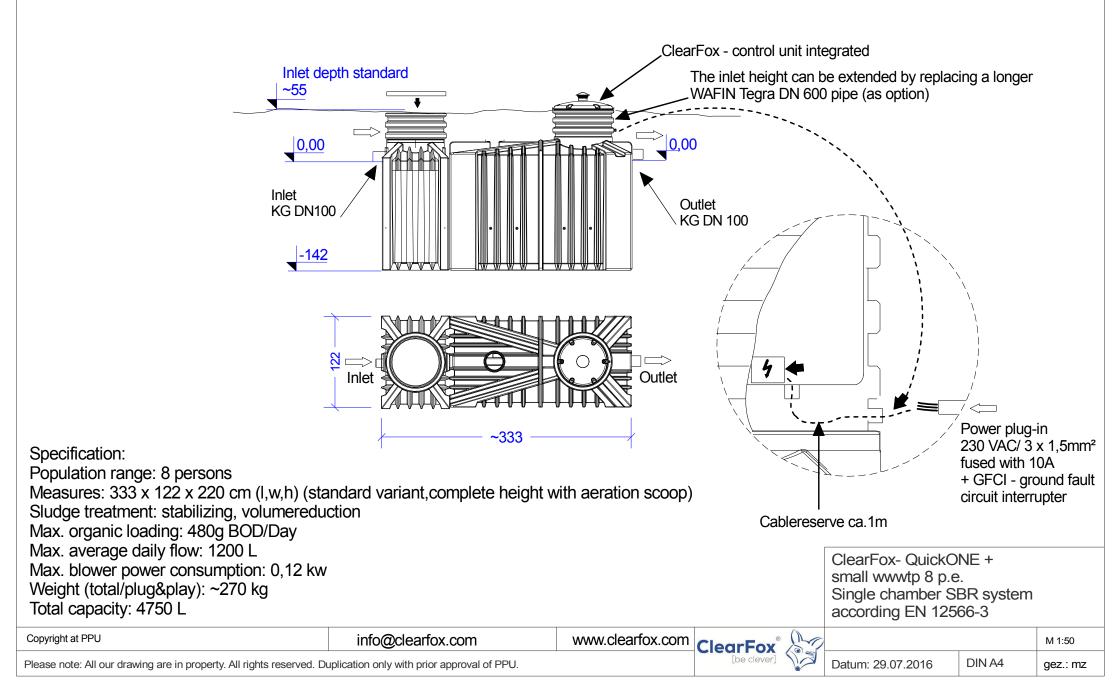


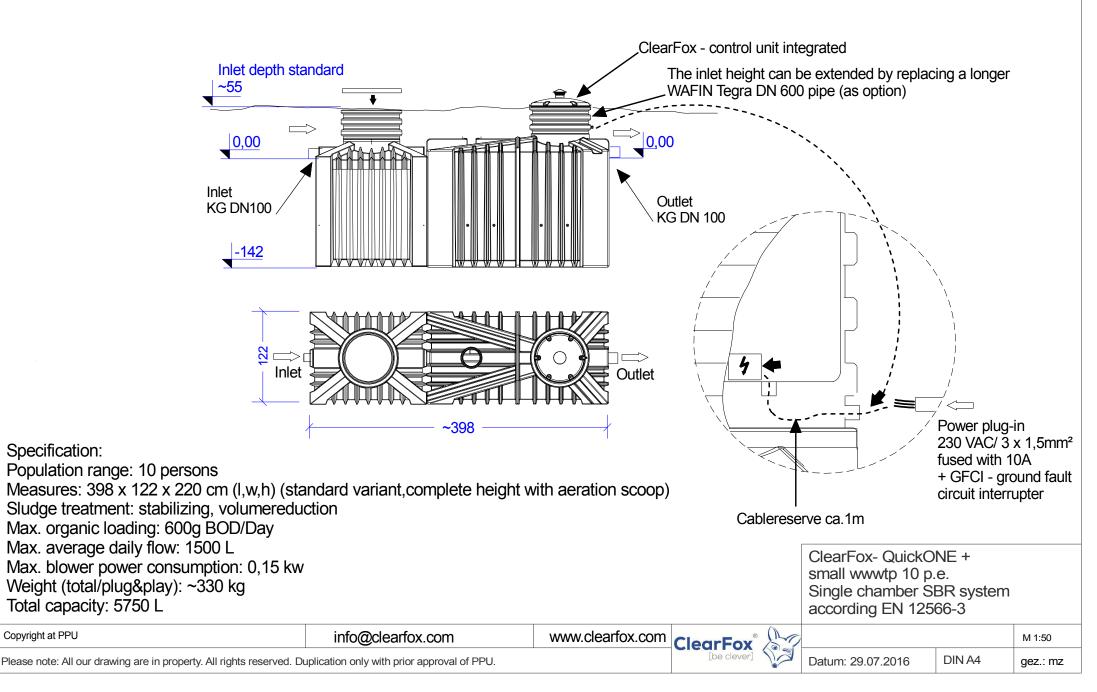


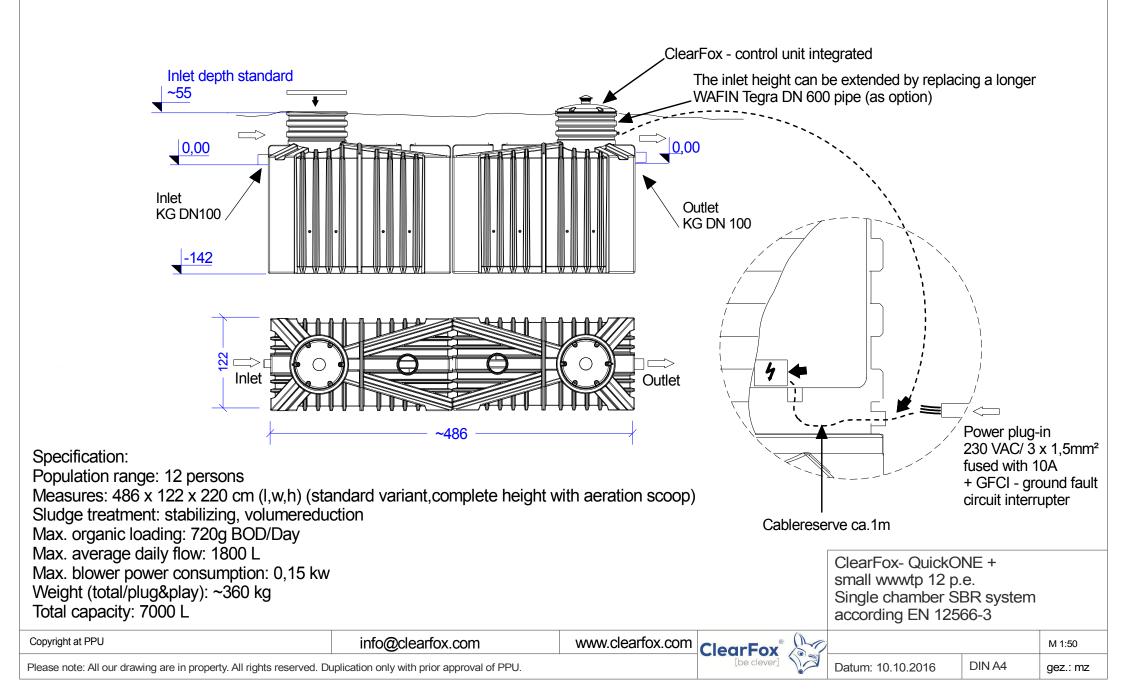




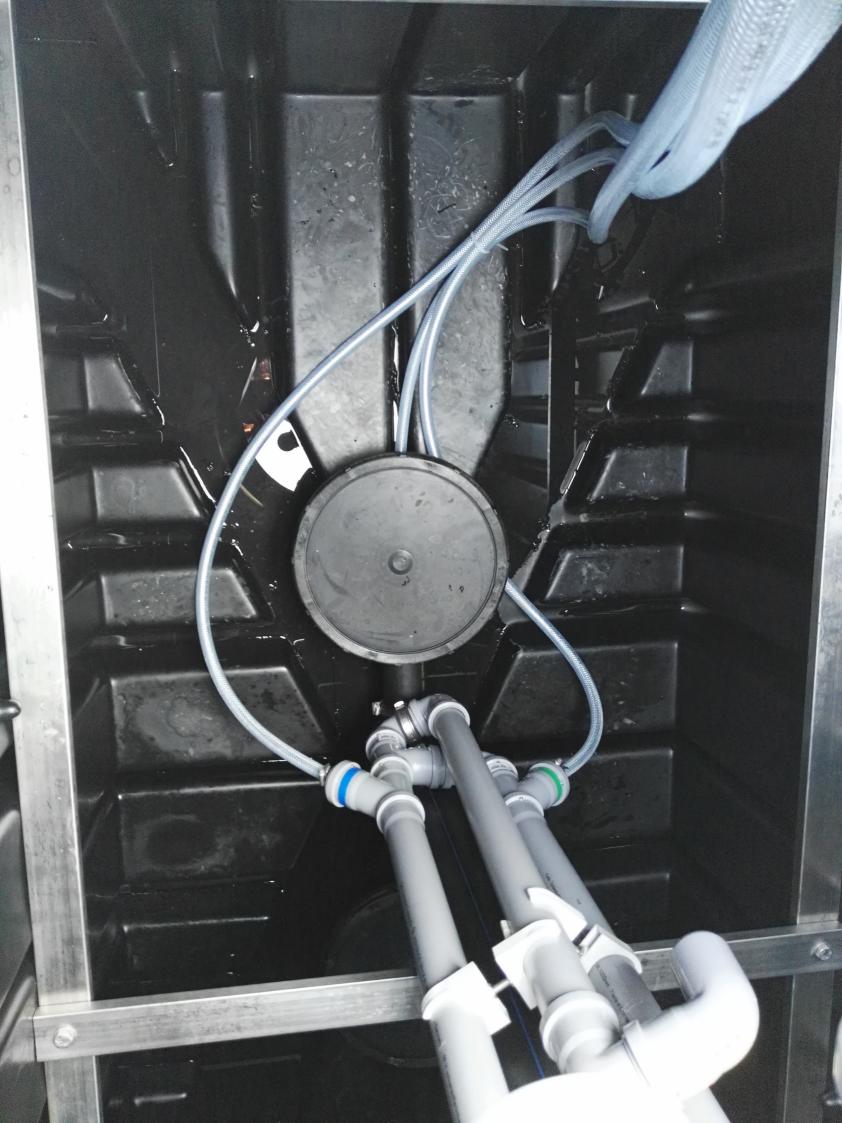








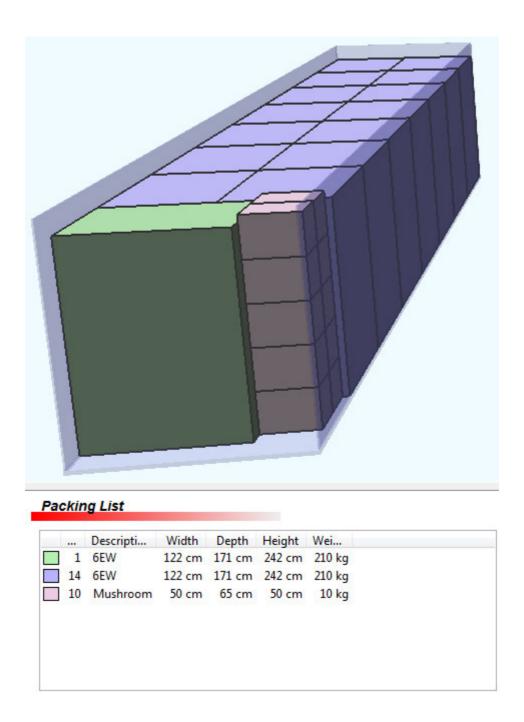


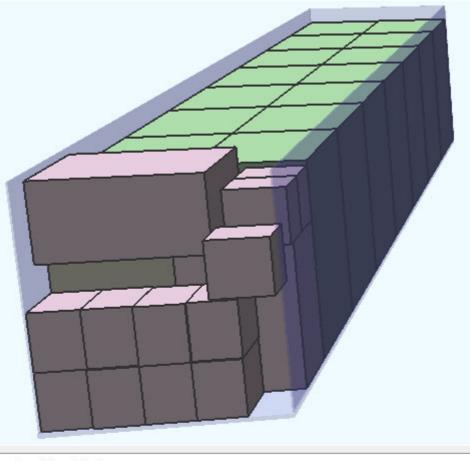




Important information for export companies:

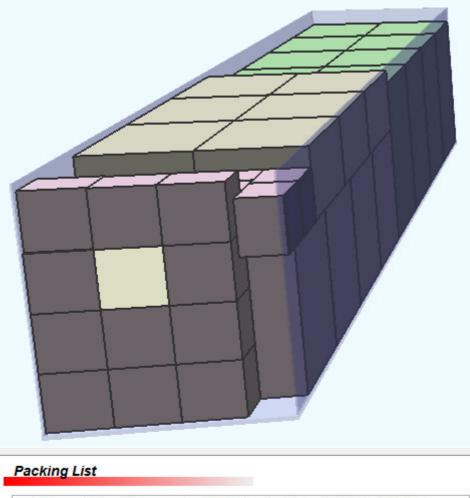
We can load 15 systems in small sea container for a very economic transport to all places in the world, see in the following the different loading plan

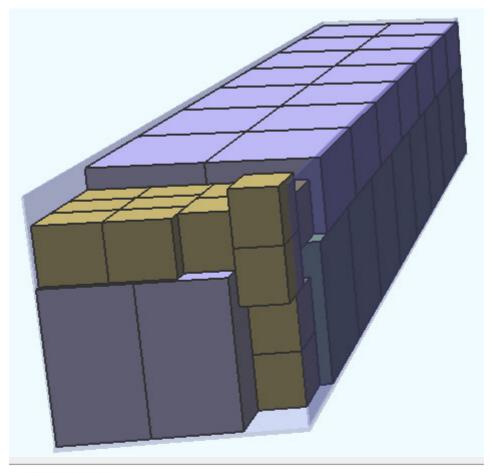




Packing List

1	Quan	Description	Width	Depth	Height	Weight
	14	6EW	122 cm	171 cm	242 cm	210 kg
	2	1250L-2	171 cm	122 cm	90 cm	100 kg
	6	Mushroom	65 cm	65 cm	50 cm	10 kg
	1	1250L	122 cm	90 cm	171 cm	100 kg
	5	Mushroom	65 cm	65 cm	50 cm	10 kg





Packing List

(Quan	Description	Width	Depth	Height	Weight
	16	2250L	122 cm	154 cm	171 cm	210 kg
	16	1250L	122 cm	90 cm	171 cm	100 kg
	13	Mushroom	65 cm	65 cm	50 cm	10 kg

45"HCPW		
		efficiency
Volume	84,191 m ³	94,7 %
max.	88,937 m³	
Weight	5090 kg	15,0 %
max.	34000 kg	
Loading Length	1354 cm	99,9 %
max.	1355 cm	