

**OXYFIX[®],
THE RELIABLE WASTEWATER TREATMENT BRAND.**



Oxyfix[®], obviously.





OXYFIX®, THE RELIABLE WASTE WATER TREATMENT BRAND

Eloy Water has designed Oxyfix®, a new generation of compact, reliable and low-cost waste treatment systems for homes and small multiple-occupancy buildings (residential buildings, housing developments, offices, hotels, and campsites) that cannot be connected to a Municipal sanitation network.

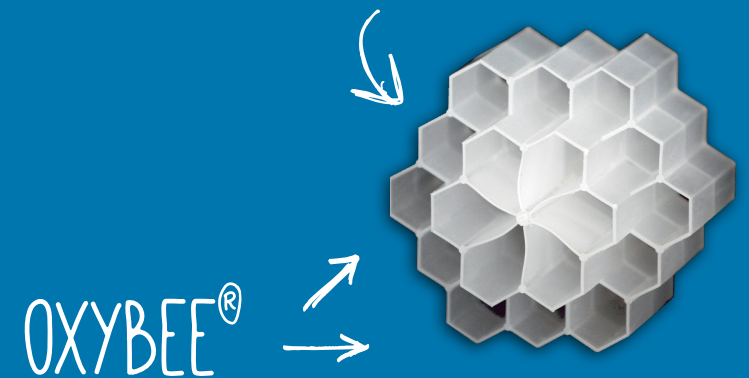
Oxyfix® insitu is particularly discreet (no odour, no noise, and minimal visual impact), and operates on the principle of treating waste through an immersed, aerated culture.

Lastly, Oxyfix® is extremely easy to install and costs very little to maintain. Eloy Water has installed over 15,000 Oxyfix® systems over a three-year period², and has acquired unquestionable expertise in this area, which means that it can guarantee a long service life, peace of mind and reliability to their users.

SPOTLIGHT ON OXYBEE®

The Oxyfix® waste water treatment system draws inspiration from a biological phenomena found in Nature and recreates this using Oxybee® (media) produced in the form of a honeycomb shape. Oxybee® is constructed from lightweight and durable recycled plastic (polypropylene and polyethylene) to create a platform to support the continual growth of bacteria. To further optimise the quality of bio-film without risk of clogging, Eloy Water engineers developed Oxybee® to provide a large surface area of 200m²/m³ with a specific 90% of open area. This unique and innovative design has produced a consistent and reliable platform that will never need to be replaced. In the unlikely event of a call-out, Oxybee® platforms are contained in 90 litre bags allowing easier access to all system components. Using Nature as a model also guarantees an environmentally responsible solution to waste water treatment.

- Large 200m² per m³ surface area
- Does not clog and keeps its shape
- Contained in randomly packed 90 litre bags



HOW IT WORKS

Once the wastewater enters the Oxyfix® system, the cleaning process takes place under gravity in three stages: the initial separation of solids, the biological reaction and clarification.

1. PRIMARY SEPARATOR

Wastewater is pre-treated as the solid matter is separated and partially digested by anaerobic bacteria [i.e. bacteria that survive without oxygen]. A layer of cellulose and grease forms on the surface, which is liquefied and digested. The ventilation system removes gas and/or odour developed during the process.

2. BIOLOGICAL REACTOR

The Oxybee® media inside the reactor promotes the rapid establishment of bacteria in order to create a «bio-film». Oxygen is introduced at the base of reactor by a blower and air diffusers to increase the activity of the aerobic bacteria [i.e. bacteria that feed on oxygen]. This second category of bacteria is essential for ammonium to be nitrified.

3. CLARIFIER

The third and last stage is to separate any residual suspended matter present in the treated effluent and to encourage denitrification. The suspended matter collects at the base of the Clarifier as sludge and is returned to the primary separator through a recirculation system (using a pump or airlift, depending on the model). Thanks to the sampling chamber inside the reactor, the quality of the clarified water is easy to control.



PRIMARY SEPARATOR

BIOLOGICAL REACTOR

CLARIFIER



OXYFIX®, A BRAND THAT GUARANTEES COST-SAVINGS AND RELIABILITY

Oxyfix® has the **lowest servicing frequency** on the market and can cost as low as **€5.00¹ of electricity** to operate per month. This makes Oxyfix® **one of the lowest-cost waste water treatment solutions**, by far.

Oxyfix® is constructed from **high strength materials** (concrete, polyethylene, etc.) and relies primarily on gravity for its internal operation making Oxyfix® **the most reliable solution on the market**.

¹ Calculation performed in Belgium for an Oxyfix® C-90 5PE model where the blower pump consumes 0.038 kWh at a cost of €0.17 per kWh.

THE TANK

The Oxyfix® tanks are designed and manufactured by Eloy Water to guarantee the strength and durability of your system. In addition to this, our engineers have considered the typical challenges encountered during installation and have made the Oxyfix® system easier to install, commission and maintain. The Oxyfix® tanks are designed to out perform and last longer than any other similar tank on the market.

ULTRA-RESISTANT
TANK IN CONCRETE REINFORCED WITH FIBRES



- Minimal earthworks
 - Rectangular shape
- Compact
 - Single tank to minimise land use of less than 4 m² for an individual house
- Discreet
 - Entirely buried
- High evacuation valve
 - +/- 2cm of height loss
- Easy insitu access to internal components

C-90 CONCRETE TANK

The compact rectangular Oxyfix C-90 concrete tank is made from **self-compacting concrete reinforced with fibres**. This revolutionary high performance material **guarantees unequalled durability, lightweight and ease of handling**. In fact, thanks to these attributes, the Oxyfix® C-90 system is **easy to transport, handle, and install in areas at risk of flooding**. It can also be driven over by light vehicles [B125 tank strength category].

POLYESTER TANK LG-90

For the **building sites, inaccessible for concrete tank**, the Oxyfix® tank also exist in **polyester**, lighter to handle during the installation step.



PERFORMANCES

✓ OXYFIX® PERFORMANCES

- DBO_5 : < 35 mg of O_2 per litre
- DCO : < 125 mg of O_2 per litre
- MES : < 30 mg per litre
- NH_4-N : 96%
- $P\{tot\}$: 30%

Source :
EC CERTIFICATION (EN-12566-3) CARRIED OUT ON THE CERTIPRO – MOL (NB 1476) PLATFORM

✓ THE LOWEST SERVICING FREQUENCY ON THE MARKET

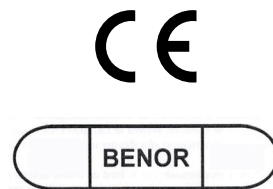
Thanks to a 3m³ decanter³, Oxyfix provides one of **the highest separation volumes** available for an individual water treatment system. Its **60-month⁴ servicing frequency** makes it **the best-performing system on the market**, well ahead of its competitors.

DESLUDGING EVERY 60 MONTHS



✓ CERTIFICATION AND ACCREDITATION

- AS/NZS: 1546 & 1547
- EC certification
- The C-90 tank and process are BENOR Certified
- French accreditation for Oxyfix® C-90 : 2015-001
- French accreditation for Oxyfix® LG-90 : 2015-001



✓ GUARANTEES

Our customers' peace of mind is one of our main concerns. This is why we guarantee them **reliable products**, and commit to offering them **the best guarantees** on the market :

- Tank guaranteed for 10 years
- Internal components guaranteed for 2 years

✓ REGISTERING YOUR OXYFIX® SYSTEM

Register your Oxyfix® system at www.elyowater.com/registration



³ Oxyfix® SPE

⁴ Please note that the desludging frequency is influenced by the occupancy rate of the dwelling and the daily water consumption per PE.

Product : Sewage treatment plant

Type : Oxyfix® FIXEUC90
 Model : C-90 MB 4 PE (1) - concrete baffle
 Process : Submerged Aerated Fixed Film (SAFF) Technology

PERFORMANCE

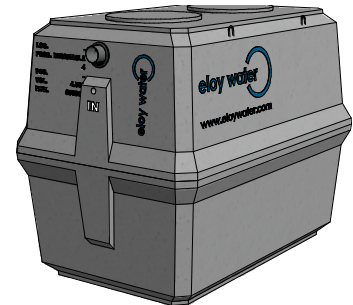
Assumed Influent Values

Application :	Wastewater Treatment*
Pollutant load BOD ₅ :	0.24 kg O ₂ /day
Pollutant load COD :	0.54 kg O ₂ /day
Pollutant load TSS :	0.36 kg/day
Hydraulic load :	0.60 m ³ /day

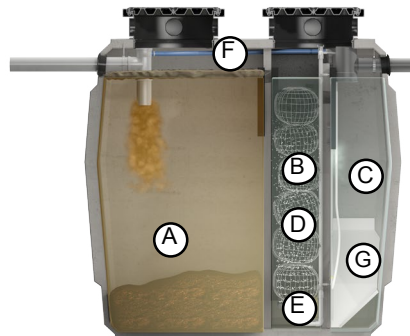
Purification performance

BOD ₅ :	< 25 mg O ₂ /liter
COD :	< 125 mg O ₂ /liter
TSS :	< 30 mg/liter

* We recommend placing a grease trap for treating waste water generated by a restaurant, kitchens used for commercial purposes, etc.



FEATURES



ELECTROMECHANICAL COMPONENTS

Blower

Quantity :	1 pc(s)
Type :	diaphragm blower
Installed power :	0.060 kW
Power consumption :	0.042 kW
SPL (Sound Performance Lab) :	43 dB(A)
On / Off :	60/00 min.
Voltage :	1x230V

Air Diffusers

Quantity :	2 pc(s)
Type :	fine bubbles

Sludge recirculation

Type :	airlift
Installed power :	- kW
Power consumption :	- kW
On / Off :	- min.

Control panel

Type :	(option)
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Legend

- A Primary settling compartment
- B Biological reactor
- C Secondary settling compartment
- D Bacterial support
- E Diffusers
- F Sludge recirculation
- G Settling cone
- H Ventilation

APPROVALS AND CERTIFICATES

CE : EN 12566-3 CPD 89/106/CEE

DIMENSIONS | VOLUMES | WEIGHTS

Measure	Unit	Tank 1
Total height* :	(cm)	185
Entry height* :	(cm)	160
Exit height* :	(cm)	158
Length :	(cm)	238
Width :	(cm)	158
Total volume :	(m ³)	4.74
Useful volume :	(m ³)	4.24
Weight :	(T)	3.11
Weight (w/o shipping cover):	(T)	3.06
Manhole(s) :	(cm)	2 x Ø60
Ø In / Out :	(mm)	110/110

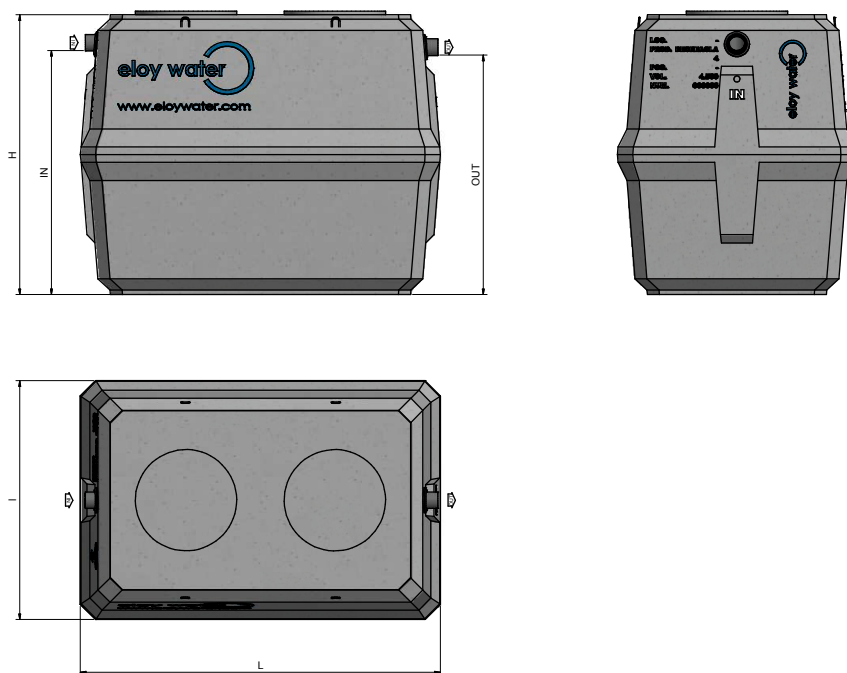
* tolerance ± 2 cm

Material

Tank(s):	High performance steel reinforced concrete
Biocarrier:	Recycled PP
Air feed pipes:	PVC PN16



TANK DIMENSIONS



OPERATION

Useful volumes/surfaces

Primary settling compartment:	2.32	m ³
Biological reactor:	0.87	m ³
Clarifier:	0.53	m ²

Operation

Sampling chamber:	integrated
Theoretical desludging frequency:	every 41 months
Approximate energy consumption:	369.20 kW
Maintenance frequency :	annually (recommended)
Admissible load :	80 cm of fill + pedestrian load

Consumables

Blower filter:	annually
Blower membranes:	every 2 years
Air diffusers:	every 8 years

OPTIONS

Wall support for blower	
PE/concrete tank cover riser	2 pcs
PE/steel tank cover	2 pcs

GUARANTEES

Electromechanical kit :	2 years
Tanks :	10 years
Resistance :	B125

Product : Sewage treatment plant

Type : Oxyfix® FIXEUC90
 Model : C-90 MB 5 PE (1) - concrete baffle
 Process : Submerged Aerated Fixed Film (SAFF) Technology

PERFORMANCE

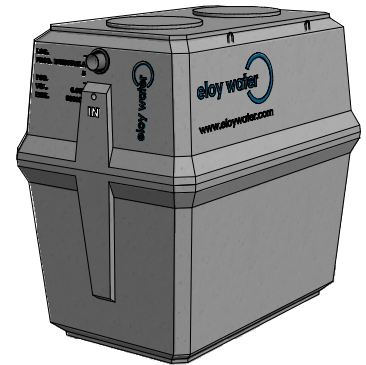
Assumed Influent Values

Application :	Wastewater Treatment*
Pollutant load BOD ₅ :	0.30 kg O ₂ /day
Pollutant load COD :	0.68 kg O ₂ /day
Pollutant load TSS :	0.45 kg/day
Hydraulic load :	0.75 m ³ /day

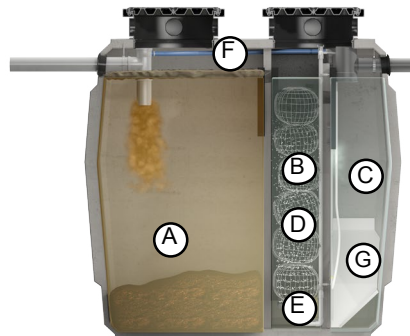
Purification performance

BOD ₅ :	< 25 mg O ₂ /liter
COD :	< 125 mg O ₂ /liter
TSS :	< 30 mg/liter

* We recommend placing a grease trap for treating waste water generated by a restaurant, kitchens used for commercial purposes, etc.



FEATURES



ELECTROMECHANICAL COMPONENTS

Blower

Quantity :	1 pc(s)
Type :	diaphragm blower
Installed power :	0.060 kW
Power consumption :	0.038 kW
SPL (Sound Performance Lab) :	43 dB(A)
On / Off :	60/00 min.
Voltage :	1x230V

Air Diffusers

Quantity :	2 pc(s)
Type :	fine bubbles

Sludge recirculation

Type :	airlift
Installed power :	- kW
Power consumption :	- kW
On / Off :	- min.



Control panel

Type :	(option)
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Legend

- A Primary settling compartment
- B Biological reactor
- C Secondary settling compartment
- D Bacterial support
- E Diffusers
- F Sludge recirculation
- G Settling cone
- H Ventilation

APPROVALS AND CERTIFICATES

 : 2012/04/132/A
 : EN 12566-3 CPD 89/106/CEE

DIMENSIONS | VOLUMES | WEIGHTS

Measure	Unit	Tank 1
Total height* :	(cm)	225
Entry height* :	(cm)	200
Exit height* :	(cm)	198
Length :	(cm)	238
Width :	(cm)	158
Total volume :	(m ³)	6.00
Useful volume :	(m ³)	5.20
Weight :	(T)	3.26
Weight (w/o shipping cover):	(T)	3.21
Manhole(s) :	(cm)	2 x Ø60
Ø In / Out :	(mm)	110/110

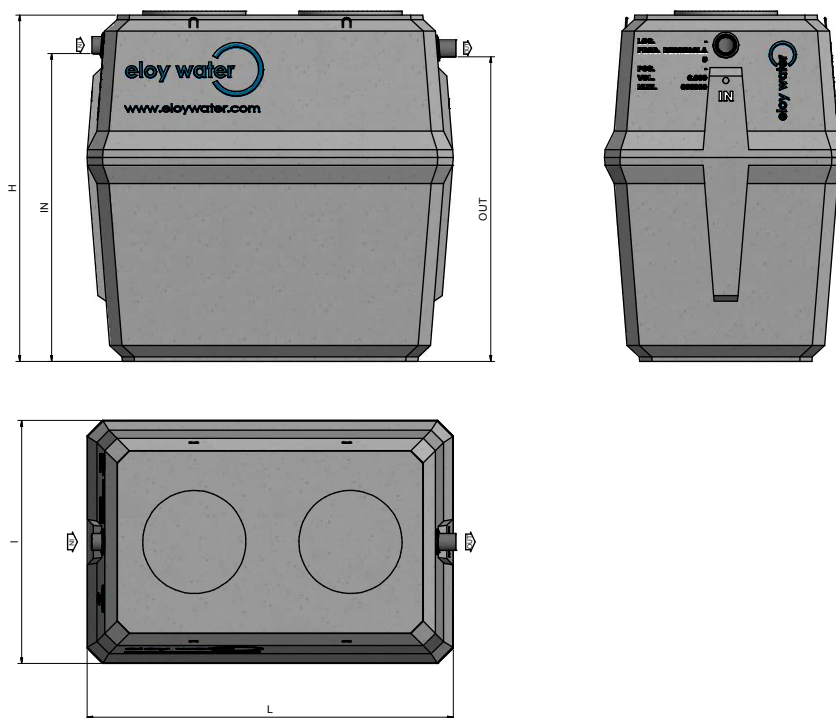
* tolerance ± 2 cm



Material

Tank(s): High performance steel reinforced concrete
 Biocarrier: Recycled PP
 Air feed pipes: PVC PN16

TANK DIMENSIONS



OPERATION

Useful volumes/surfaces

Primary settling compartment:	3.00	m ³
Biological reactor:	1.02	m ³
Clarifier:	0.48	m ²

Operation

Sampling chamber: integrated
 Theoretical desludging frequency: every 42 months
 Approximate energy consumption: 330.80 kW
 Maintenance frequency : annually (recommended)
 Admissible load : 80 cm of fill + pedestrian load

Consumables

Blower filter: annually
 Blower membranes: every 2 years
 Air diffusers: every 8 years

OPTIONS

Wall support for blower
 PE/concrete tank cover riser 2 pcs
 PE/steel tank cover 2 pcs

GUARANTEES

Electromechanical kit : 2 years
 Tanks : 10 years
 Resistance : B125

Product : Sewage treatment plant

Type : Oxyfix® FIXEUC90
 Model : C-90 MB 7 PE (2)
 Process : Submerged Aerated Fixed Film (SAFF) Technology

PERFORMANCE

Assumed Influent Values

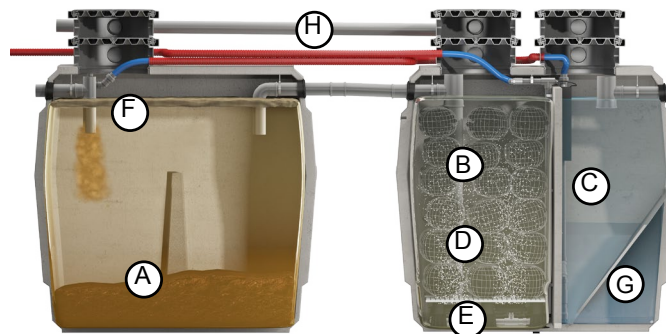
Application :	Wastewater Treatment*
Pollutant load BOD ₅ :	0.42 kg O ₂ /day
Pollutant load COD :	0.95 kg O ₂ /day
Pollutant load TSS :	0.63 kg/day
Hydraulic load :	1.05 m ³ /day

Purification performance

BOD ₅ :	< 25 mg O ₂ /liter
COD :	< 125 mg O ₂ /liter
TSS :	< 30 mg/liter

* We recommend placing a grease trap for treating waste water generated by a restaurant, kitchens used for commercial purposes, etc.

FEATURES



ELECTROMECHANICAL COMPONENTS

Blower

Quantity :	1 pc(s)
Type :	diaphragm blower
Installed power :	0.07-0.75 kW
Power consumption :	0.072 kW
SPL (Sound Performance Lab) :	≤ 42 dB(A)
On / Off :	60/00 min.
Voltage :	1x230V

Air Diffusers

Quantity :	4 pc(s)
Type :	fine bubbles

Sludge recirculation

Type :	airlift
Installed power :	- kW
Power consumption :	- kW
On / Off :	- min.

Control panel

Type :	(option)
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Legend

- A Primary settling compartment
- B Biological reactor
- C Secondary settling compartment
- D Bacterial support
- E Diffusers
- F Sludge recirculation
- G Settling cone
- H Ventilation

APPROVALS AND CERTIFICATES

CE : EN 12566-3 CPD 89/106/CEE

DIMENSIONS | VOLUMES | WEIGHTS

Measure	Unit	Tank 1	Tank 2
Total height* :	(cm)	185	185
Entry height* :	(cm)	160	160
Exit height* :	(cm)	158	158
Length :	(cm)	238	238
Width :	(cm)	158	158
Total volume :	(m ³)	4.74	4.74
Useful volume :	(m ³)	4.24	4.24
Weight :	(T)	2.50	2.95
Weight (w/o shipping cover):	(T)	2.48	2.90
Manhole(s) :	(cm)	1 x Ø60	2 x Ø60
Ø In / Out :	(mm)	110/110	110/110

* tolerance ± 2 cm

Material

Tank(s):	High performance steel reinforced concrete
Biocarrier:	Recycled PP
Air feed pipes:	PVC PN16



TANK DIMENSIONS

OPERATION

Useful volumes/surfaces

Primary settling compartment:	4.23	m ³
Biological reactor:	2.34	m ³
Clarifier:	1.08	m ²

Operation

Sampling chamber:	integrated
Theoretical desludging frequency:	every 42 months
Approximate energy consumption:	630.80 kW
Maintenance frequency :	annually (recommended)
Admissible load :	80 cm of fill + pedestrian load

Consumables

Blower filter:	annually
Blower membranes:	every 2 years
Air diffusers:	every 8 years

OPTIONS

Wall support for blower	
PE/concrete tank cover riser	3 pces
PE/steel tank cover	3 pces

GUARANTEES

Electromechanical kit :	2 years
Tanks :	10 years
Resistance :	B125

Product : Sewage treatment plant

Type : Oxyfix® FIXEUC90
 Model : C-90 MB 9 PE (2)
 Process : Submerged Aerated Fixed Film (SAFF) Technology

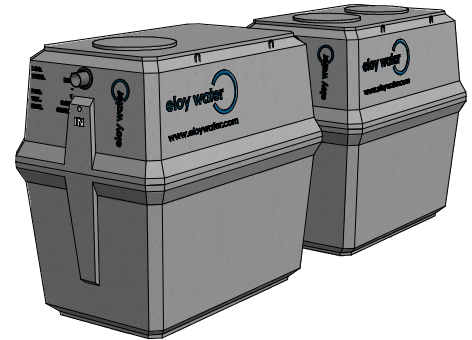
PERFORMANCE

Assumed Influent Values

Application :	Wastewater Treatment*
Pollutant load BOD ₅ :	0.54 kg O ₂ /day
Pollutant load COD :	1.22 kg O ₂ /day
Pollutant load TSS :	0.81 kg/day
Hydraulic load :	1.35 m ³ /day

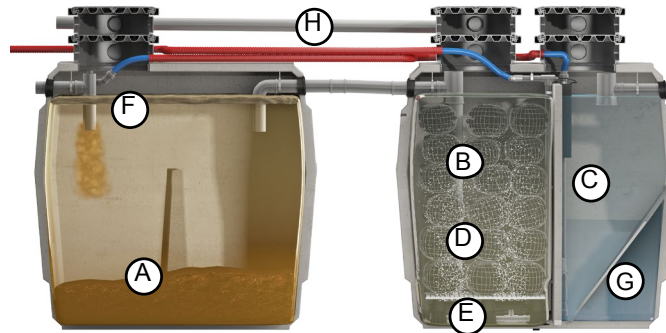
Purification performance

BOD ₅ :	< 25 mg O ₂ /liter
COD :	< 125 mg O ₂ /liter
TSS :	< 30 mg/liter



* We recommend placing a grease trap for treating waste water generated by a restaurant, kitchens used for commercial purposes, etc.

FEATURES



ELECTROMECHANICAL COMPONENTS

Blower

Quantity :	1 pc(s)
Type :	diaphragm blower
Installed power :	0.09 - 0.10 kW
Power consumption :	0.072 kW
SPL (Sound Performance Lab) :	≤ 42 dB(A)
On / Off :	60/00 min.
Voltage :	1x230V

Air Diffusers

Quantity :	4 pc(s)
Type :	fine bubbles

Sludge recirculation

Type :	airlift
Installed power :	- kW
Power consumption :	- kW
On / Off :	- min.



Control panel

Type :	(option)
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Legend

- A Primary settling compartment
- B Biological reactor
- C Secondary settling compartment
- D Bacterial support
- E Diffusers
- F Sludge recirculation
- G Settling cone
- H Ventilation

APPROVALS AND CERTIFICATES

 : 2014/04/136/A
 : EN 12566-3 CPD 89/106/CEE

DIMENSIONS | VOLUMES | WEIGHTS

Measure	Unit	Tank 1	Tank 2
Total height* :	(cm)	225	225
Entry height* :	(cm)	200	200
Exit height* :	(cm)	198	198
Length :	(cm)	238	238
Width :	(cm)	158	158
Total volume :	(m ³)	6.00	6.00
Useful volume :	(m ³)	5.20	5.20
Weight :	(T)	2.75	3.33
Weight (w/o shipping cover):	(T)	2.73	3.28
Manhole(s) :	(cm)	1 x Ø60	2 x Ø60
Ø In / Out :	(mm)	110/110	110/110

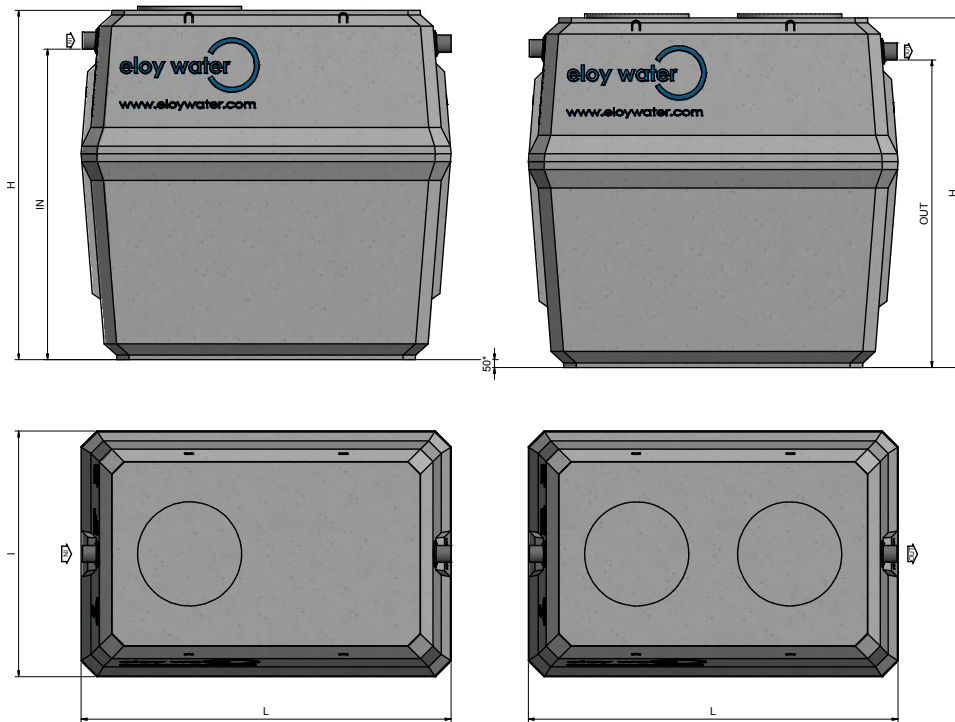
* tolerance ± 2 cm



Material

Tank(s): High performance steel reinforced concrete
 Biocarrier: Recycled PP
 Air feed pipes: PVC PN16

TANK DIMENSIONS



OPERATION

Useful volumes/surfaces

Primary settling compartment:	5.20	m ³
Biological reactor:	2.92	m ³
Clarifier:	1.08	m ²

Operation

Sampling chamber: integrated
 Theoretical desludging frequency: every 40 months
 Approximate energy consumption: 832.20 kW
 Maintenance frequency : annually (recommended)
 Admissible load : 80 cm of fill + pedestrian load

Consumables

Blower filter: annually
 Blower membranes: every 2 years
 Air diffusers: every 8 years

OPTIONS

Wall support for blower	
PE/concrete tank cover riser	3 pcs
PE/steel tank cover	3 pcs

GUARANTEES

Electromechanical kit :	2 years
Tanks :	10 years
Resistance :	B125

Product : Sewage treatment plant

Type : Oxyfix® FIXEUC90
 Model : C-90 MB 12 PE (2)
 Process : Submerged Aerated Fixed Film (SAFF) Technology

PERFORMANCE

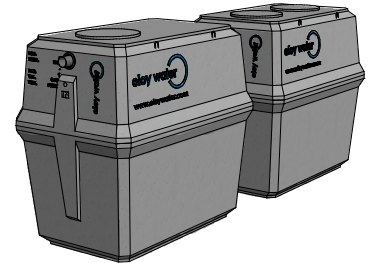
Assumed Influent Values

Application :	Wastewater Treatment*
Pollutant load BOD ₅ :	0.72 kg O ₂ /day
Pollutant load COD :	1.62 kg O ₂ /day
Pollutant load TSS :	1.08 kg/day
Hydraulic load :	1.80 m ³ /day

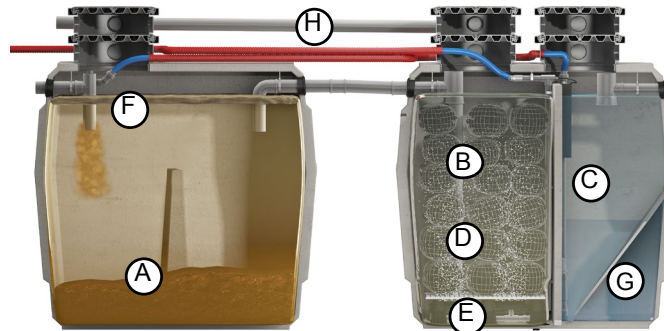
Purification performance

BOD ₅ :	< 25 mg O ₂ /liter
COD :	< 125 mg O ₂ /liter
TSS :	< 30 mg/liter

* We recommend placing a grease trap for treating waste water generated by a restaurant, kitchens used for commercial purposes, etc.



FEATURES



ELECTROMECHANICAL COMPONENTS

Blower

Quantity :	1 pc(s)
Type :	diaphragm blower
Installed power :	0.09-0.10 kW
Power consumption :	0.08 kW
SPL (Sound Performance Lab) :	≤ 45 dB(A)
On / Off :	60/00 min.
Voltage :	1x230V

Air Diffusers

Quantity :	4 pc(s)
Type :	fine bubbles

Sludge recirculation

Type :	airlift
Installed power :	- kW
Power consumption :	- kW
On / Off :	- min.



Control panel

Type :	(option)
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Legend

A	Primary settling compartment
B	Biological reactor
C	Secondary settling compartment
D	Bacterial support
E	Diffusers
F	Sludge recirculation
G	Settling cone
H	Ventilation

APPROVALS AND CERTIFICATES

	: EN 12566-3 CPD 89/106/CEE
	: CRT-009-KW

DIMENSIONS | VOLUMES | WEIGHTS

Measure	Unit	Tank 1	Tank 2
Total height* :	(cm)	225	225
Entry height* :	(cm)	200	200
Exit height* :	(cm)	198	198
Length :	(cm)	238	238
Width :	(cm)	158	158
Total volume :	(m ³)	6.00	6.00
Useful volume :	(m ³)	5.20	5.20
Weight :	(T)	2.75	3.34
Weight (w/o shipping cover):	(T)	2.73	3.29
Manhole(s) :	(cm)	1 x Ø60	2 x Ø60
Ø In / Out :	(mm)	110/110	110/110

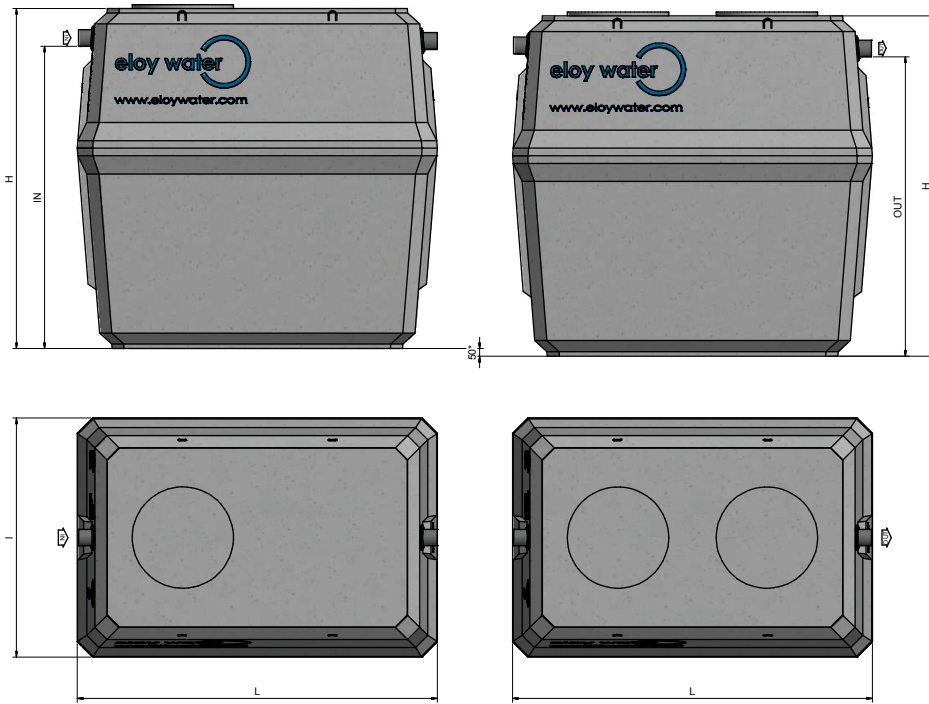
* tolerance ± 2 cm



Material

Tank(s): High performance steel reinforced concrete
 Biocarrier: Recycled PP
 Air feed pipes: PVC PN16

TANK DIMENSIONS



OPERATION

Useful volumes/surfaces

Primary settling compartment:	5.20	m ³
Biological reactor:	2.92	m ³
Clarifier:	1.08	m ²

Operation

Sampling chamber: integrated
 Theoretical desludging frequency: every 33 months
 Approximate energy consumption: 700 kW
 Maintenance frequency : annually (recommended)
 Admissible load : 80 cm of fill + pedestrian load

Consumables

Blower filter: annually
 Blower membranes: every 2 years
 Air diffusers: every 8 years

OPTIONS

Wall support for blower
 PE/concrete tank cover riser 3 pcs
 PE/steel tank cover 3 pcs

GUARANTEES

Electromechanical kit : 2 years
 Tanks : 10 years
 Resistance : B125

Product : Sewage treatment plant

Type : Oxyfix® FIXEUC90
 Model : C-90 MB 14 PE (2)
 Process : Submerged Aerated Fixed Film (SAFF) Technology

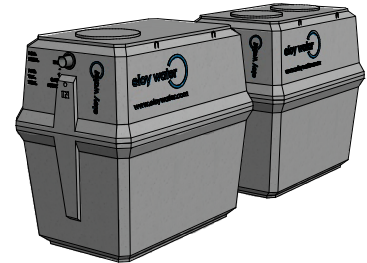
PERFORMANCE

Assumed Influent Values

Application :	Wastewater Treatment*
Pollutant load BOD ₅ :	0.84 kg O ₂ /day
Pollutant load COD :	1.89 kg O ₂ /day
Pollutant load TSS :	1.26 kg/day
Hydraulic load :	2.10 m ³ /day

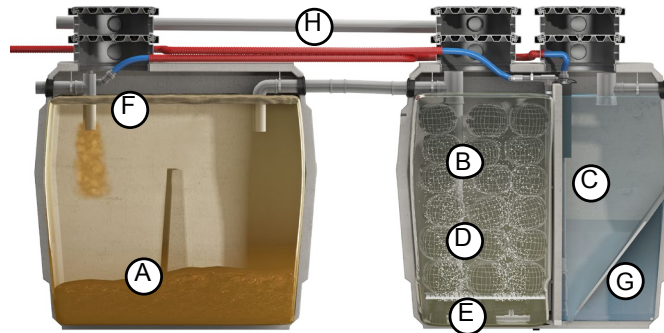
Purification performance

BOD ₅ :	< 25 mg O ₂ /liter
COD :	< 125 mg O ₂ /liter
TSS :	< 30 mg/liter



* We recommend placing a grease trap for treating waste water generated by a restaurant, kitchens used for commercial purposes, etc.

FEATURES



ELECTROMECHANICAL COMPONENTS

Blower

Quantity :	1 pc(s)
Type :	diaphragm blower
Installed power :	0.11-0.12 kW
Power consumption :	0.093 kW
SPL (Sound Performance Lab) :	44 dB(A)
On / Off :	60/00 min.
Voltage :	1x230V

Air Diffusers

Quantity :	4 pc(s)
Type :	fine bubbles

Sludge recirculation

Type :	airlift
Installed power :	- kW
Power consumption :	- kW
On / Off :	- min.

Control panel

Type :	(option)
--------	----------

Legend

A	Primary settling compartment
B	Biological reactor
C	Secondary settling compartment
D	Bacterial support
E	Diffusers
F	Sludge recirculation
G	Settling cone
H	Ventilation

APPROVALS AND CERTIFICATES

CE : EN 12566-3 CPD 89/106/CEE

DIMENSIONS | VOLUMES | WEIGHTS

Measure	Unit	Tank 1	Tank 2
Total height* :	(cm)	225	225
Entry height* :	(cm)	200	200
Exit height* :	(cm)	198	198
Length :	(cm)	238	238
Width :	(cm)	158	158
Total volume :	(m ³)	6.00	6.00
Useful volume :	(m ³)	5.20	5.20
Weight :	(T)	2.75	3.35
Weight (w/o shipping cover):	(T)	2.73	3.30
Manhole(s) :	(cm)	1 x Ø60	2 x Ø60
Ø In / Out :	(mm)	110/110	110/110

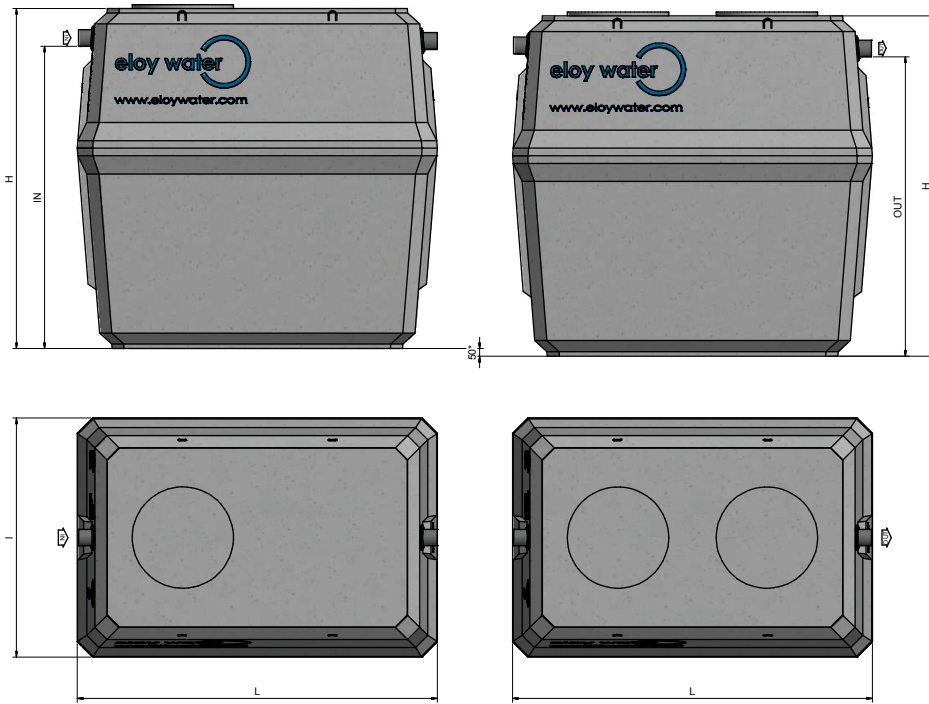
* tolerance ± 2 cm



Material

Tank(s): High performance steel reinforced concrete
 Biocarrier: Recycled PP
 Air feed pipes: PVC PN16

TANK DIMENSIONS



OPERATION

Useful volumes/surfaces

Primary settling compartment:	5.20	m ³
Biological reactor:	2.92	m ³
Clarifier:	1.08	m ²

Operation

Sampling chamber: integrated
 Theoretical desludging frequency: every 26 months
 Approximate energy consumption: 815.40 kW
 Maintenance frequency : annually (recommended)
 Admissible load : 80 cm of fill + pedestrian load

Consumables

Blower filter: annually
 Blower membranes: every 2 years
 Air diffusers: every 8 years

OPTIONS

Wall support for blower	
PE/concrete tank cover riser	3 pcs
PE/steel tank cover	3 pcs

GUARANTEES

Electromechanical kit :	2 years
Tanks :	10 years
Resistance :	B125

Product : Sewage treatment plant

Type : Oxyfix® FIXEUC90
 Model : C-90 MB 17 PE (2)
 Process : Submerged Aerated Fixed Film (SAFF) Technology

PERFORMANCE

Assumed Influent Values

Application :	Wastewater Treatment*
Pollutant load BOD ₅ :	1.02 kg O ₂ /day
Pollutant load COD :	2.30 kg O ₂ /day
Pollutant load TSS :	1.53 kg/day
Hydraulic load :	2.55 m ³ /day

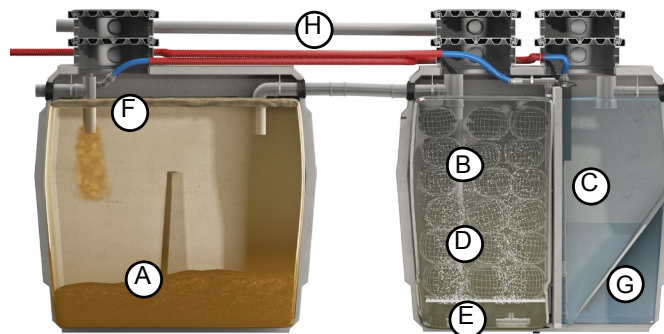
Purification performance

BOD ₅ :	< 25 mg O ₂ /liter
COD :	< 125 mg O ₂ /liter
TSS :	< 30 mg/liter



* We recommend placing a grease trap for treating waste water generated by a restaurant, kitchens used for commercial purposes, etc.

FEATURES



ELECTROMECHANICAL COMPONENTS

Blower

Quantity :	1 pc(s)
Type :	diaphragm blower
Installed power :	0.11-0.12 kW
Power consumption :	0.08 kW
SPL (Sound Performance Lab) :	44 dB(A)
On / Off :	60/00 min.
Voltage :	1x230V

Air Diffusers

Quantity :	4 pc(s)
Type :	fine bubbles

Sludge recirculation

Type :	airlift
Installed power :	- kW
Power consumption :	- kW
On / Off :	- min.



Control panel

Type :	(option)
--------	----------

Legend

A	Primary settling compartment
B	Biological reactor
C	Secondary settling compartment
D	Bacterial support
E	Diffusers
F	Sludge recirculation
G	Settling cone
H	Ventilation

APPROVALS AND CERTIFICATES

 : 2014/04/137/A
 : EN 12566-3 CPD 89/106/CEE

DIMENSIONS | VOLUMES | WEIGHTS

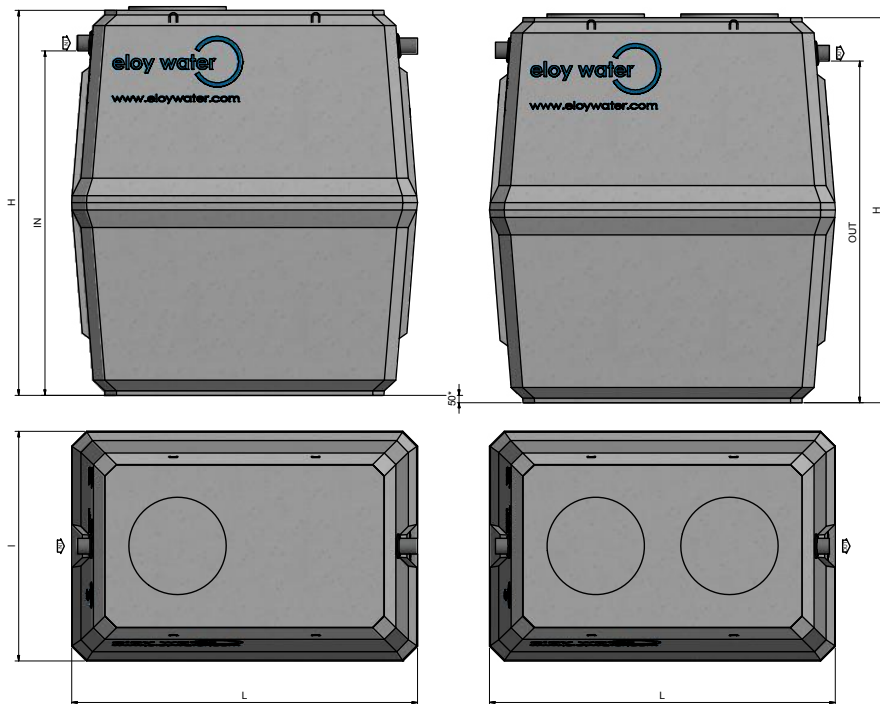
Measure	Unit	Tank 1	Tank 2
Total height* :	(cm)	265	265
Entry height* :	(cm)	237	237
Exit height* :	(cm)	235	235
Length :	(cm)	238	238
Width :	(cm)	158	158
Total volume :	(m ³)	7.50	7.50
Useful volume :	(m ³)	6.10	5.96
Weight :	(T)	3.20	3.95
Weight (w/o shipping cover):	(T)	3.18	3.90
Manhole(s) :	(cm)	1 x Ø60	2 x Ø60
Ø In / Out :	(mm)	110/110	110/110

* tolerance ± 2 cm

**Material**

Tank(s):	High performance steel reinforced concrete
Biocarrier:	Recycled PP
Air feed pipes:	PVC PN16

TANK DIMENSIONS



OPERATION

Useful volumes/surfaces

Primary settling compartment:	6.10	m ³
Biological reactor:	3.40	m ³
Clarifier:	1.00	m ²

Operation

Sampling chamber:	integrated
Theoretical desludging frequency:	every 16 months
Approximate energy consumption:	700 kW
Maintenance frequency :	annually (recommended)
Admissible load :	80 cm of fill + pedestrian load

Consumables

Blower filter:	annually
Blower membranes:	every 2 years
Air diffusers:	every 8 years

OPTIONS

Wall support for blower	
PE/concrete tank cover riser	3 pcs
PE/steel tank cover	3 pcs

GUARANTEES

Electromechanical kit :	2 years
Tanks :	10 years
Resistance :	B125

Product : Sewage treatment plant

Type : Oxyfix® FIXEUC90
 Model : C-90 MB 20 PE (2)
 Process : Submerged Aerated Fixed Film (SAFF) Technology

PERFORMANCE

Assumed Influent Values

Application :	Wastewater Treatment*
Pollutant load BOD ₅ :	1.20 kg O ₂ /day
Pollutant load COD :	2.70 kg O ₂ /day
Pollutant load TSS :	1.80 kg/day
Hydraulic load :	3.00 m ³ /day

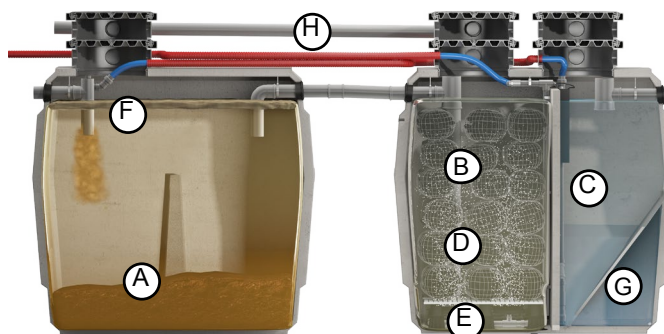
Purification performance

BOD ₅ :	< 25 mg O ₂ /liter
COD :	< 125 mg O ₂ /liter
TSS :	< 30 mg/liter



* We recommend placing a grease trap for treating waste water generated by a restaurant, kitchens used for commercial purposes, etc.

FEATURES



ELECTROMECHANICAL COMPONENTS

Blower

Quantity :	1 pc(s)
Type :	diaphragm blower
Installed power :	0.17-0.19 kW
Power consumption :	0.156 kW
SPL (Sound Performance Lab) :	46 dB(A)
On / Off :	60/00 min.
Voltage :	1x230V

Air Diffusers

Quantity :	4 pc(s)
Type :	fine bubbles

Sludge recirculation

Type :	airlift
Installed power :	- kW
Power consumption :	- kW
On / Off :	- min.

Control panel

Type :	(option)
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Legend

A	Primary settling compartment
B	Biological reactor
C	Secondary settling compartment
D	Bacterial support
E	Diffusers
F	Sludge recirculation
G	Settling cone
H	Ventilation

APPROVALS AND CERTIFICATES

CE : EN 12566-3 CPD 89/106/CEE

DIMENSIONS | VOLUMES | WEIGHTS

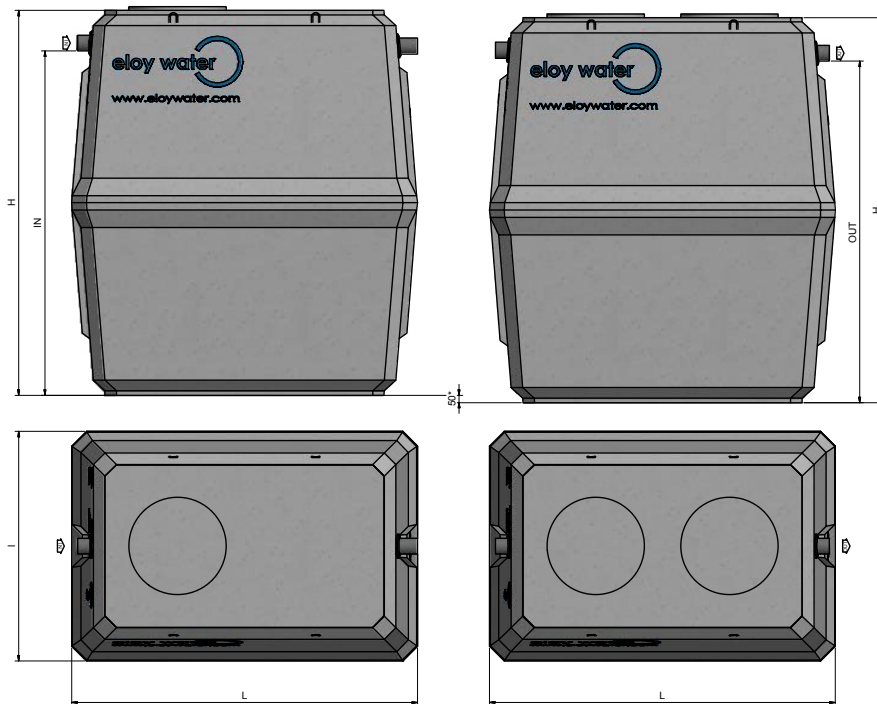
Measure	Unit	Tank 1	Tank 2
Total height* :	(cm)	265	265
Entry height* :	(cm)	237	237
Exit height* :	(cm)	235	235
Length :	(cm)	238	238
Width :	(cm)	158	158
Total volume :	(m ³)	7.50	7.50
Useful volume :	(m ³)	6.10	5.96
Weight :	(T)	3.20	3.98
Weight (w/o shipping cover):	(T)	3.18	3.93
Manhole(s) :	(cm)	1 x Ø60	2 x Ø60
Ø In / Out :	(mm)	110/110	110/110

* tolerance ± 2 cm

**Material**

Tank(s):	High performance steel reinforced concrete
Biocarrier:	Recycled PP
Air feed pipes:	PVC PN16

TANK DIMENSIONS



OPERATION

Useful volumes/surfaces

Primary settling compartment:	6.10	m ³
Biological reactor:	3.40	m ³
Clarifier:	1.00	m ²

Operation

Sampling chamber:	integrated
Theoretical desludging frequency:	every 21 months
Approximate energy consumption:	1,366.6 kW
Maintenance frequency :	annually (recommended)
Admissible load :	80 cm of fill + pedestrian load

Consumables

Blower filter:	annually
Blower membranes:	every 2 years
Air diffusers:	every 8 years

OPTIONS

Wall support for blower	
PE/concrete tank cover riser	3 pcs
PE/steel tank cover	3 pcs

GUARANTEES

Electromechanical kit :	2 years
Tanks :	10 years
Resistance :	B125

Product : Sewage treatment plant

Type : Oxyfix® FIXEUC90
 Model : C-90 MB 27 PE (2)
 Process : Submerged Aerated Fixed Film (SAFF) Technology

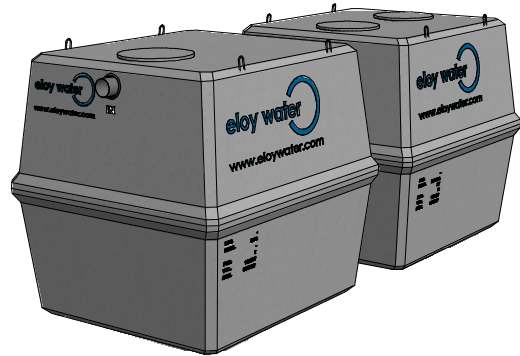
PERFORMANCE

Assumed Influent Values

Application :	Wastewater Treatment*
Pollutant load BOD ₅ :	1.62 kg O ₂ /day
Pollutant load COD :	3.65 kg O ₂ /day
Pollutant load TSS :	2.43 kg/day
Hydraulic load :	4.05 m ³ /day

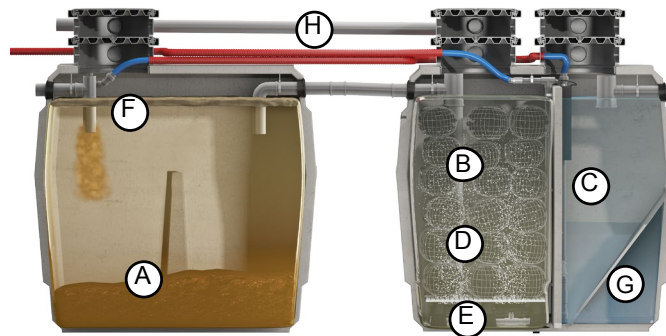
Purification performance

BOD ₅ :	< 25 mg O ₂ /liter
COD :	< 125 mg O ₂ /liter
TSS :	< 30 mg/liter



* We recommend placing a grease trap for treating waste water generated by a restaurant, kitchens used for commercial purposes, etc.

FEATURES



ELECTROMECHANICAL COMPONENTS

Blower

Quantity :	1 pc(s)
Type :	diaphragm blower
Installed power :	0.29 kW
Power consumption :	0.24 kW
SPL (Sound Performance Lab) :	55 dB(A)
On / Off :	60/00 min.
Voltage :	1x230V

Air Diffusers

Quantity :	6 pc(s)
Type :	fine bubbles

Sludge recirculation

Type :	submerged pump
Installed power :	0.60 kW
Power consumption :	0.60 kW
On / Off :	1/59 min.



Control panel

Type :	inside
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Legend

- A Primary settling compartment
- B Biological reactor
- C Secondary settling compartment
- D Bacterial support
- E Diffusers
- F Sludge recirculation
- G Settling cone

APPROVALS AND CERTIFICATES

 : 2014/04/138/A
 : EN 12566-3 CPD 89/106/CEE

DIMENSIONS | VOLUMES | WEIGHTS

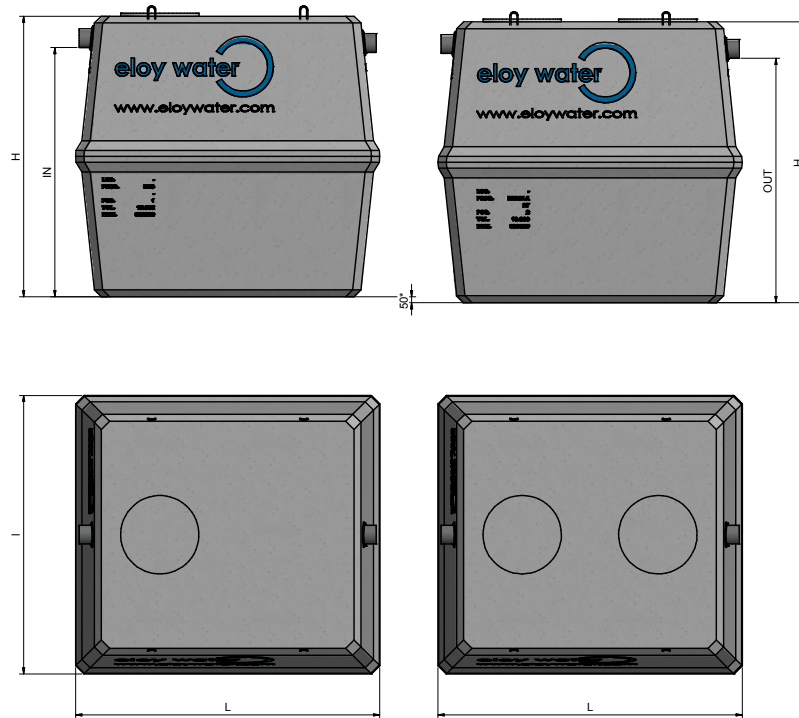
Measure	Unit	Tank 1	Tank 2
Total height* :	(cm)	240	240
Entry height* :	(cm)	213	213
Exit height* :	(cm)	209	209
Length :	(cm)	260	260
Width :	(cm)	238	238
Total volume :	(m ³)	10.00	10.00
Useful volume :	(m ³)	9.19	9.00
Weight :	(T)	5.75	6.73
Weight (w/o shipping cover):	(T)	-	-
Manhole(s) :	(cm)	1 x Ø60	2 x Ø60
Ø In / Out :	(mm)	160/160	160/160

* tolerance ± 2 cm

**Material**

Tank(s):	High performance steel reinforced concrete
Biocarrier:	Recycled PP
Air feed pipes:	PVC PN16

TANK DIMENSIONS



OPERATION

Useful volumes/surfaces

Primary settling compartment:	9.19	m ³
Biological reactor:	6.80	m ³
Clarifier:	1.00	m ²

Operation

Sampling chamber:	integrated
Theoretical desludging frequency:	every 24 months
Approximate energy consumption:	2,372.50 kW
Maintenance frequency :	annually (recommended)
Admissible load :	80 cm of fill + pedestrian load

Consumables

Blower filter:	annually
Blower membranes:	every 2 years
Air diffusers:	every 8 years

OPTIONS

Wall support for blower	
PE/concrete tank cover riser	3 pcs
PE/steel tank cover	3 pcs

GUARANTEES

Electromechanical kit :	2 years
Tanks :	10 years
Resistance :	B125

Product : Sewage treatment plant

Type : Oxyfix® FIXEUC90
 Model : C-90 CB 38 PE (3) Mono 1x230V
 Process : Submerged Aerated Fixed Film (SAFF) Technology

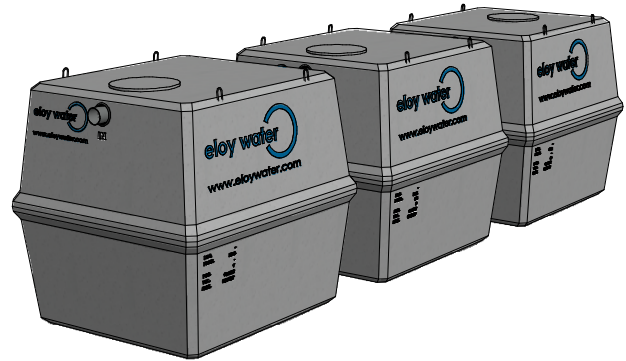
PERFORMANCE

Assumed Influent Values

Application :	Wastewater Treatment*
Pollutant load BOD ₅ :	2.28 kg O ₂ /day
Pollutant load COD :	5.13 kg O ₂ /day
Pollutant load TSS :	3.42 kg/day
Hydraulic load :	5.70 m ³ /day

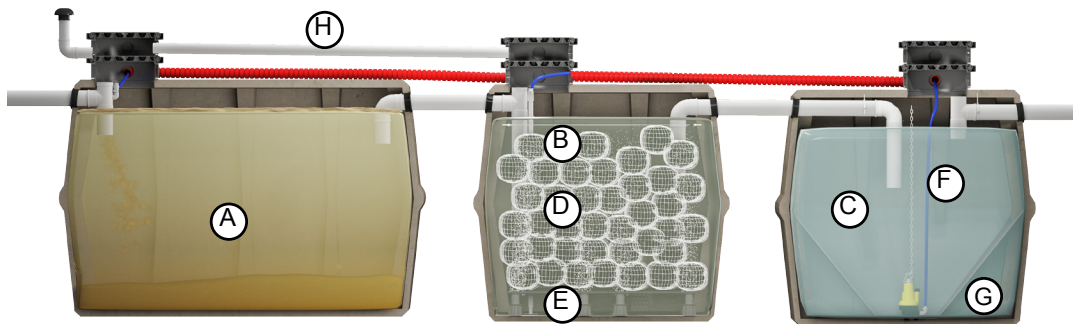
Purification performance

BOD ₅ :	< 25 mg O ₂ /liter
COD :	< 125 mg O ₂ /liter
TSS :	< 30 mg/liter



* We recommend placing a grease trap for treating waste water generated by a restaurant, kitchens used for commercial purposes, etc.

FEATURES



ELECTROMECHANICAL COMPONENTS

Blower

Quantity :	1 pc(s)
Type :	side channel air blower
Installed power :	1.50 kW
Power consumption :	0.68 kW
SPL (Sound Performance Lab) :	68 dB(A)
On / Off :	30/30 min.
Voltage :	1x230V

Air Diffusers

Quantity :	8 pc(s)
Type :	fine bubbles

Sludge recirculation

Type :	submerged pump
Installed power :	0.85 kW
Power consumption :	0.85 kW
On / Off :	1/59 min.



Control panel

Type :	inside
--------	--------

Legend

- A Primary settling compartment
- B Biological reactor
- C Secondary settling compartment
- D Bacterial support
- E Diffusers
- F Sludge recirculation
- G Settling cone

APPROVALS AND CERTIFICATES

 : 2014/04/139/A
 : EN 12566-3 CPD 89/106/CEE

DIMENSIONS | VOLUMES | WEIGHTS

Measure	Unit	Tank 1	Tank 2	Tank 3
Total height* :	(cm)	240	240	240
Entry height* :	(cm)	213	213	213
Exit height* :	(cm)	209	209	209
Length :	(cm)	260	260	260
Width :	(cm)	238	238	238
Total volume :	(m ³)	10.00	10.00	10.00
Useful volume :	(m ³)	9.19	9.19	9.19
Weight :	(T)	5.75	6.12	5.82
Weight (w/o shipping cover):	(T)	-	-	-
Manhole(s) :	(cm)	1 x Ø60	1 x Ø60	1 x Ø60
Ø In / Out :	(mm)	160/160	160/160	160/160

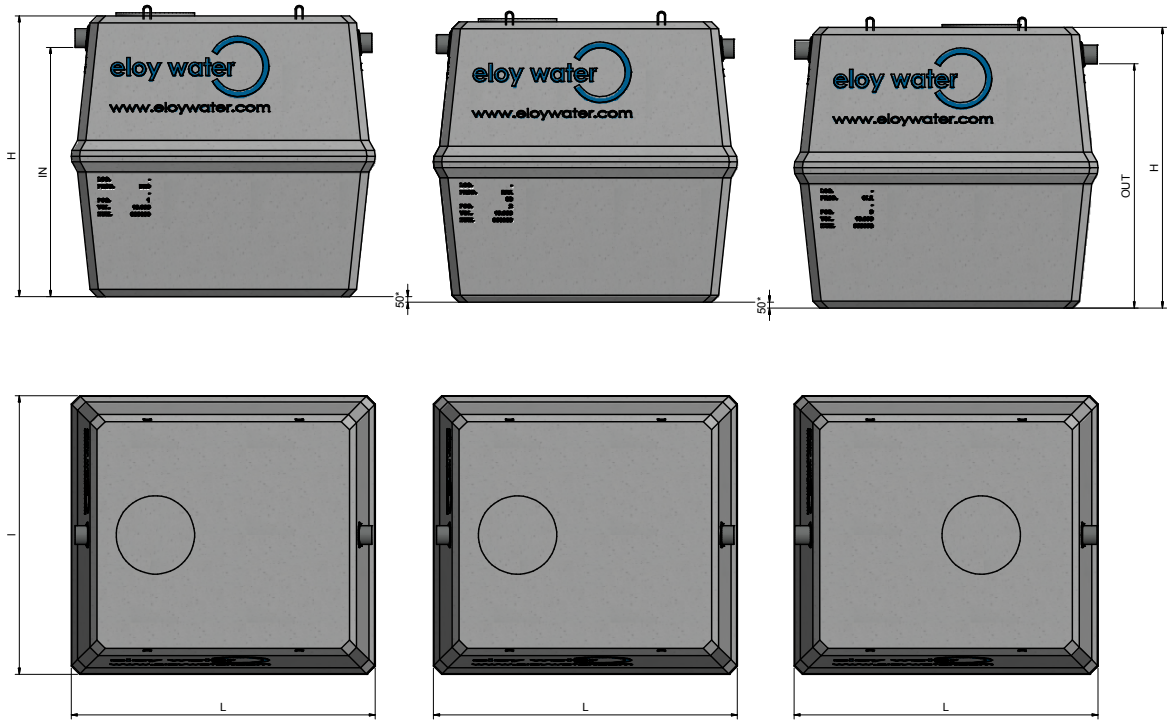
* tolerance ± 2 cm



Material

Tank(s): High performance steel reinforced concrete
 Biocarrier: Recycled PP
 Air feed pipes: PVC PN16

TANK DIMENSIONS



OPERATION

Useful volumes/surfaces

Primary settling compartment:	9.19	m ³
Biological reactor:	9.19	m ³
Clarifier:	4.41	m ²

Operation

Sampling chamber: integrated
 Theoretical desludging frequency: every 17 months
 Approximate energy consumption: 3,598.60 kW
 Maintenance frequency : annually (recommended)
 Admissible load : 80 cm of fill + pedestrian load

Consumables

Blower filter: annually
 Blower membranes: every 2 years
 Air diffusers: every 8 years

OPTIONS

Wall support for blower
 PE/concrete tank cover riser 3 pcs
 PE/steel tank cover 3 pcs

GUARANTEES

Electromechanical kit : 2 years
 Tanks : 10 years
 Resistance : B125

Product : Sewage treatment plant

Type : Oxyfix® FIXEUC90
 Model : C-90 CB 38 PE (3) Tri 3x230V
 Process : Submerged Aerated Fixed Film (SAFF) Technology

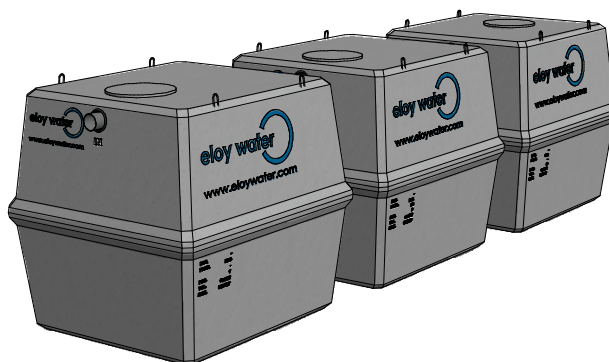
PERFORMANCE

Assumed Influent Values

Application :	Wastewater Treatment*
Pollutant load BOD ₅ :	2.28 kg O ₂ /day
Pollutant load COD :	5.13 kg O ₂ /day
Pollutant load TSS :	3.42 kg/day
Hydraulic load :	5.70 m ³ /day

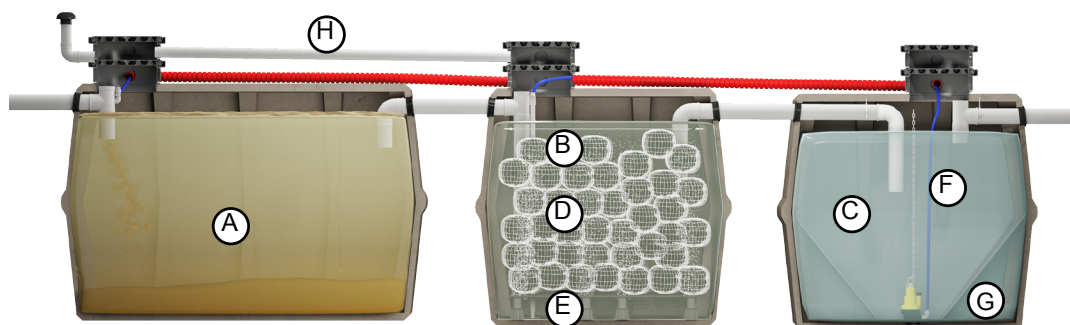
Purification performance

BOD ₅ :	< 25 mg O ₂ /liter
COD :	< 125 mg O ₂ /liter
TSS :	< 30 mg/liter



* We recommend placing a grease trap for treating waste water generated by a restaurant, kitchens used for commercial purposes, etc.

FEATURES



ELECTROMECHANICAL COMPONENTS

Blower

Quantity :	1 pc(s)
Type :	side channel air blower
Installed power :	0.81 kW
Power consumption :	0.68 kW
SPL (Sound Performance Lab) :	58 dB(A)
On / Off :	30/30 min.
Voltage :	3x230V

Air Diffusers

Quantity :	8 pc(s)
Type :	fine bubbles

Sludge recirculation

Type :	submerged pump
Installed power :	0.85 kW
Power consumption :	0.85 kW
On / Off :	1/59 min.


Control panel

Type :	inside
--------	--------

Legend

- A Primary settling compartment
- B Biological reactor
- C Secondary settling compartment
- D Bacterial support
- E Diffusers
- F Sludge recirculation
- G Settling cone

APPROVALS AND CERTIFICATES

 : 2014/04/139/A
 CE : EN 12566-3 CPD 89/106/CEE

DIMENSIONS | VOLUMES | WEIGHTS

Measure	Unit	Tank 1	Tank 2	Tank 3
Total height* :	(cm)	240	240	240
Entry height* :	(cm)	213	213	213
Exit height* :	(cm)	209	209	209
Length :	(cm)	260	260	260
Width :	(cm)	238	238	238
Total volume :	(m ³)	10.00	10.00	10.00
Useful volume :	(m ³)	9.19	9.19	9.19
Weight :	(T)	5.75	6.12	5.82
Weight (w/o shipping cover):	(T)	-	-	-
Manhole(s) :	(cm)	1 x Ø60	1 x Ø60	1 x Ø60
Ø In / Out :	(mm)	160/160	160/160	160/160

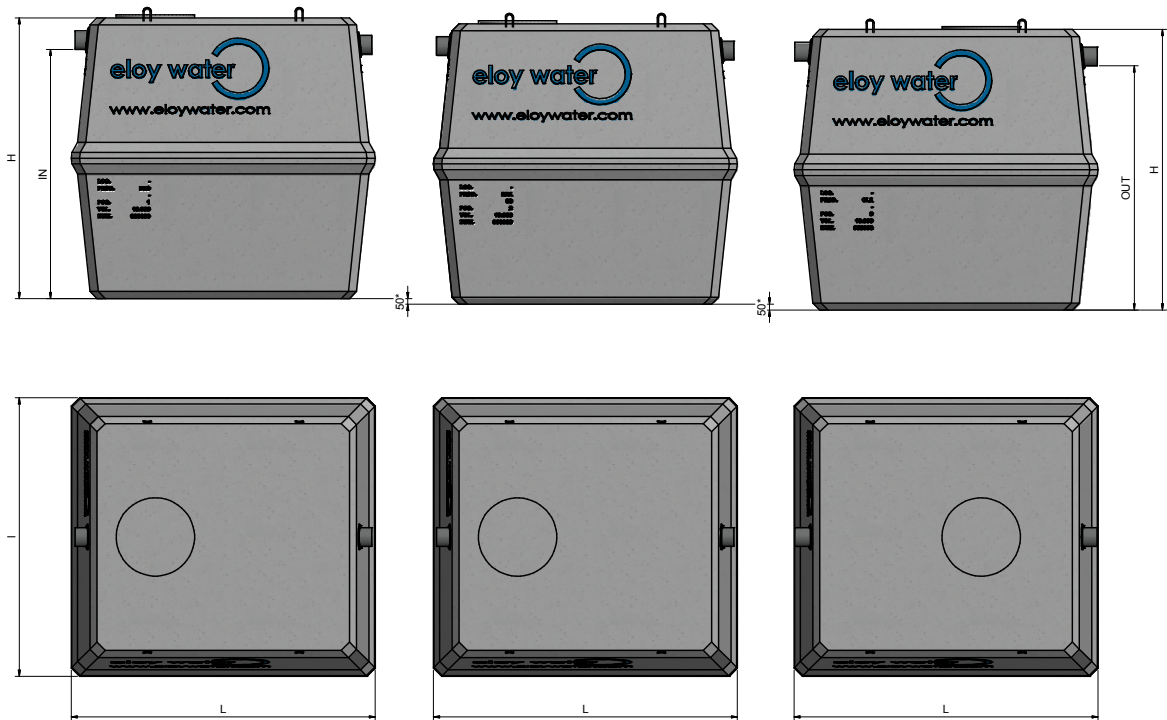
* tolerance ± 2 cm



Material

Tank(s): High performance steel reinforced concrete
 Biocarrier: Recycled PP
 Air feed pipes: PVC PN16

TANK DIMENSIONS



OPERATION

Useful volumes/surfaces

Primary settling compartment:	9.19	m ³
Biological reactor:	9.19	m ³
Clarifier:	4.41	m ²

Operation

Sampling chamber: integrated
 Theoretical desludging frequency: every 17 months
 Approximate energy consumption: 3,598.60 kW
 Maintenance frequency : annually (recommended)
 Admissible load : 80 cm of fill + pedestrian load

Consumables

Blower filter: annually
 Blower membranes: -
 Air diffusers: every 8 years

OPTIONS

Wall support for blower
 PE/concrete tank cover riser 3 pcs
 PE/steel tank cover 3 pcs

GUARANTEES

Electromechanical kit : 2 years
 Tanks : 10 years
 Resistance : B125

Product : Sewage treatment plant

Type : Oxyfix® FIXEUC90
 Model : C-90 CB 58 PE (3) Mono 1x230V
 Process : Submerged Aerated Fixed Film (SAFF) Technology

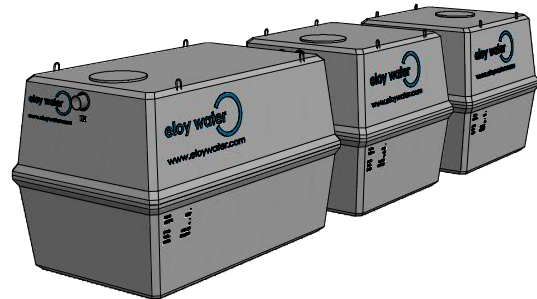
PERFORMANCE

Assumed Influent Values

Application :	Wastewater Treatment*
Pollutant load BOD ₅ :	3.48 kg O ₂ /day
Pollutant load COD :	7.83 kg O ₂ /day
Pollutant load TSS :	5.22 kg/day
Hydraulic load :	8.70 m ³ /day

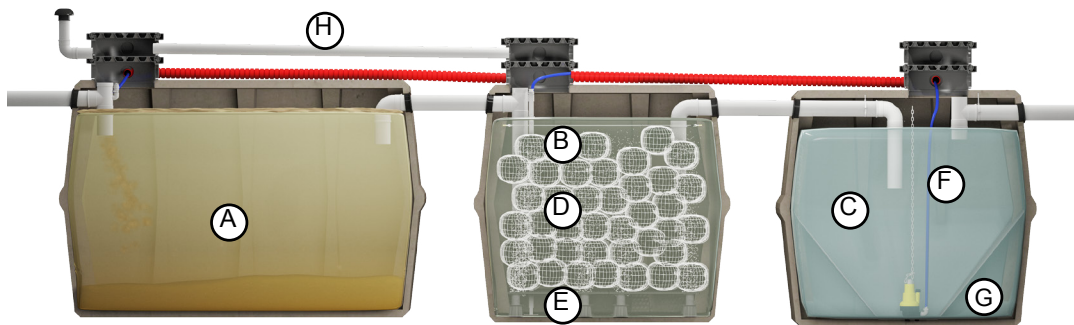
Purification performance

BOD ₅ :	< 25 mg O ₂ /liter
COD :	< 125 mg O ₂ /liter
TSS :	< 30 mg/liter



* We recommend placing a grease trap for treating waste water generated by a restaurant, kitchens used for commercial purposes, etc.

FEATURES



ELECTROMECHANICAL COMPONENTS

Blower

Quantity :	1 pc(s)
Type :	side channel air blower
Installed power :	1.5 kW
Power consumption :	0.82 kW
SPL (Sound Performance Lab) :	59 dB(A)
On / Off :	30/30 min.
Voltage :	1x230V

Air Diffusers

Quantity :	9 pc(s)
Type :	fine bubbles

Sludge recirculation

Type :	submerged pump
Installed power :	0.85 kW
Power consumption :	0.85 kW
On / Off :	8/52 min.

Control panel

Type :	inside
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Legend

- A Primary settling compartment
- B Biological reactor
- C Secondary settling compartment
- D Bacterial support
- E Diffusers
- F Sludge recirculation
- G Settling cone

APPROVALS AND CERTIFICATES

 : 2014/04/140/A

DIMENSIONS | VOLUMES | WEIGHTS

Measure	Unit	Tank 1	Tank 2	Tank 3
Total height* :	(cm)	240	240	240
Entry height* :	(cm)	213	213	213
Exit height* :	(cm)	209	209	209
Length :	(cm)	370	260	260
Width :	(cm)	238	238	238
Total volume :	(m ³)	15.00	10.00	10.00
Useful volume :	(m ³)	13.68	9.19	9.19
Weight :	(T)	7.50	6.23	5.82
Weight (w/o shipping cover):	(T)	-	-	-
Manhole(s) :	(cm)	1 x Ø60	1 x Ø60	1 x Ø60
Ø In / Out :	(mm)	160/160	160/160	160/160

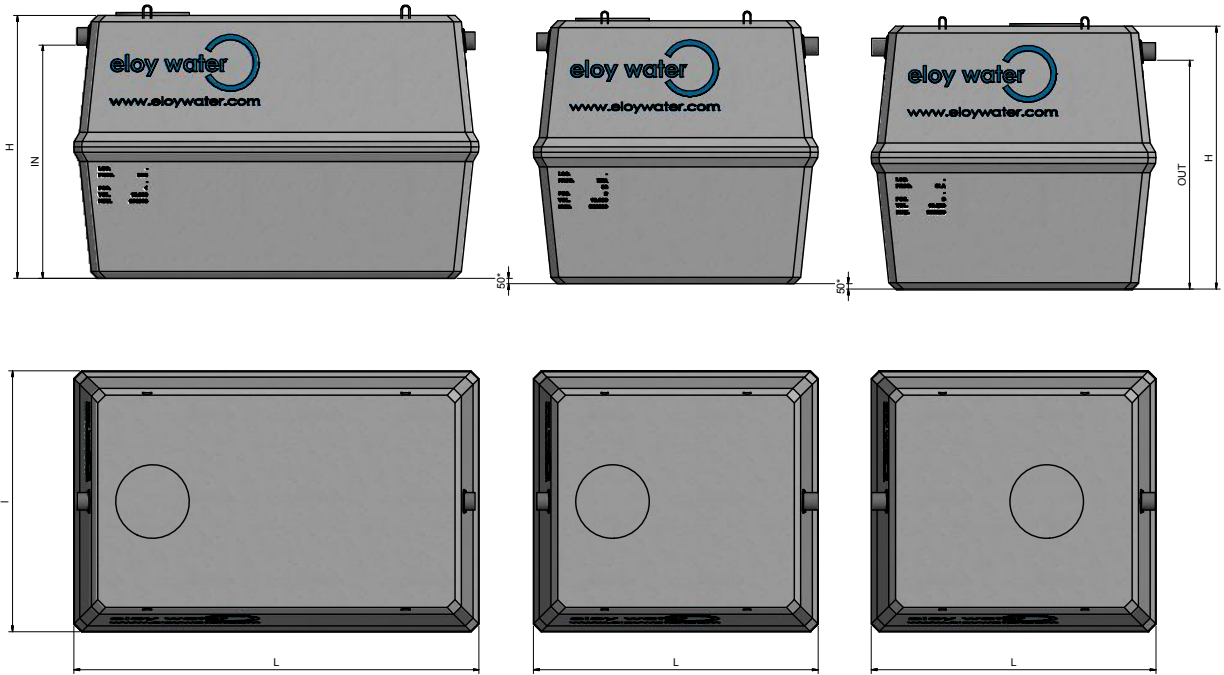
* tolerance ± 2 cm



Material

Tank(s): High performance steel reinforced concrete
 Biocarrier: Recycled PP
 Air feed pipes: PVC PN16

TANK DIMENSIONS



OPERATION

Useful volumes/surfaces

Primary settling compartment:	13.68	m ³
Biological reactor:	9.19	m ³
Clarifier:	4.41	m ²

Operation

Sampling chamber: integrated
 Theoretical desludging frequency: every 11 months
 Approximate energy consumption: 4,584.40 kW
 Maintenance frequency : annually (recommended)
 Admissible load : 80 cm of fill + pedestrian load

Consumables

Blower filter: annually
 Blower membranes: -
 Air diffusers: every 8 years

OPTIONS

Wall support for blower
 PE/concrete tank cover riser 3 pcs
 PE/steel tank cover 3 pcs

GUARANTEES

Electromechanical kit : 2 years
 Tanks : 10 years
 Resistance : B125

Product : Sewage treatment plant

Type : Oxyfix® FIXEUC90
 Model : C-90 CB 58 PE (3) Tri 3x230V
 Process : Submerged Aerated Fixed Film (SAFF) Technology

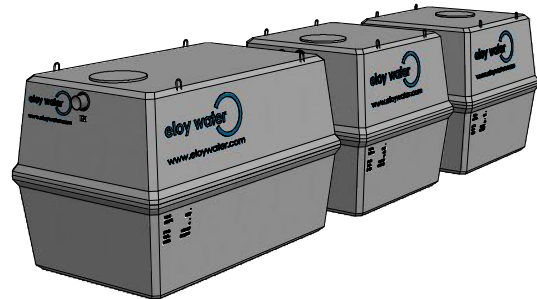
PERFORMANCE

Assumed Influent Values

Application :	Wastewater Treatment*
Pollutant load BOD ₅ :	3.48 kg O ₂ /day
Pollutant load COD :	7.83 kg O ₂ /day
Pollutant load TSS :	5.22 kg/day
Hydraulic load :	8.70 m ³ /day

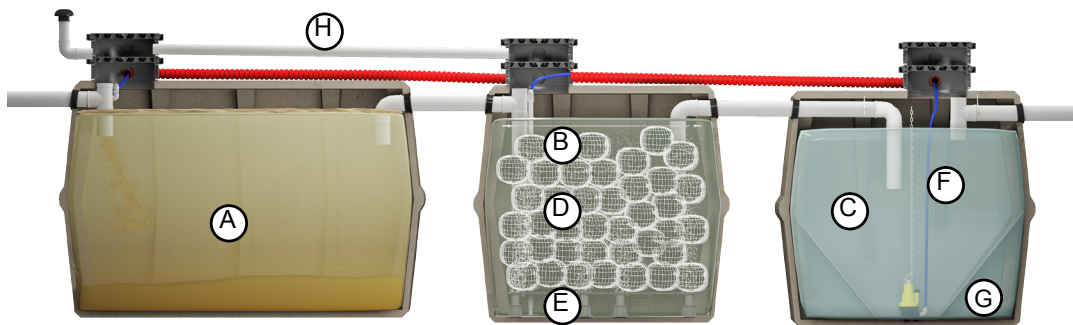
Purification performance

BOD ₅ :	< 25 mg O ₂ /liter
COD :	< 125 mg O ₂ /liter
TSS :	< 30 mg/liter



* We recommend placing a grease trap for treating waste water generated by a restaurant, kitchens used for commercial purposes, etc.

FEATURES



ELECTROMECHANICAL COMPONENTS

Blower

Quantity :	1 pc(s)
Type :	side channel air blower
Installed power :	1.10 kW
Power consumption :	0.82 kW
SPL (Sound Performance Lab) :	59 dB(A)
On / Off :	30/30 min.
Voltage :	3x230V

Air Diffusers

Quantity :	9 pc(s)
Type :	fine bubbles

Sludge recirculation

Type :	submerged pump
Installed power :	0.85 kW
Power consumption :	0.85 kW
On / Off :	8/52 min.

Control panel

Type :	inside
--------	--------

Legend

- A Primary settling compartment
- B Biological reactor
- C Secondary settling compartment
- D Bacterial support
- E Diffusers
- F Sludge recirculation
- G Settling cone

APPROVALS AND CERTIFICATES

 : 2014/04/140/A

DIMENSIONS | VOLUMES | WEIGHTS

Measure	Unit	Tank 1	Tank 2	Tank 3
Total height* :	(cm)	240	240	240
Entry height* :	(cm)	213	213	213
Exit height* :	(cm)	209	209	209
Length :	(cm)	370	260	260
Width :	(cm)	238	238	238
Total volume :	(m ³)	15.00	10.00	10.00
Useful volume :	(m ³)	13.68	9.19	9.19
Weight :	(T)	7.50	6.23	5.82
Weight (w/o shipping cover):	(T)	-	-	-
Manhole(s) :	(cm)	1 x Ø60	1 x Ø60	1 x Ø60
Ø In / Out :	(mm)	160/160	160/160	160/160

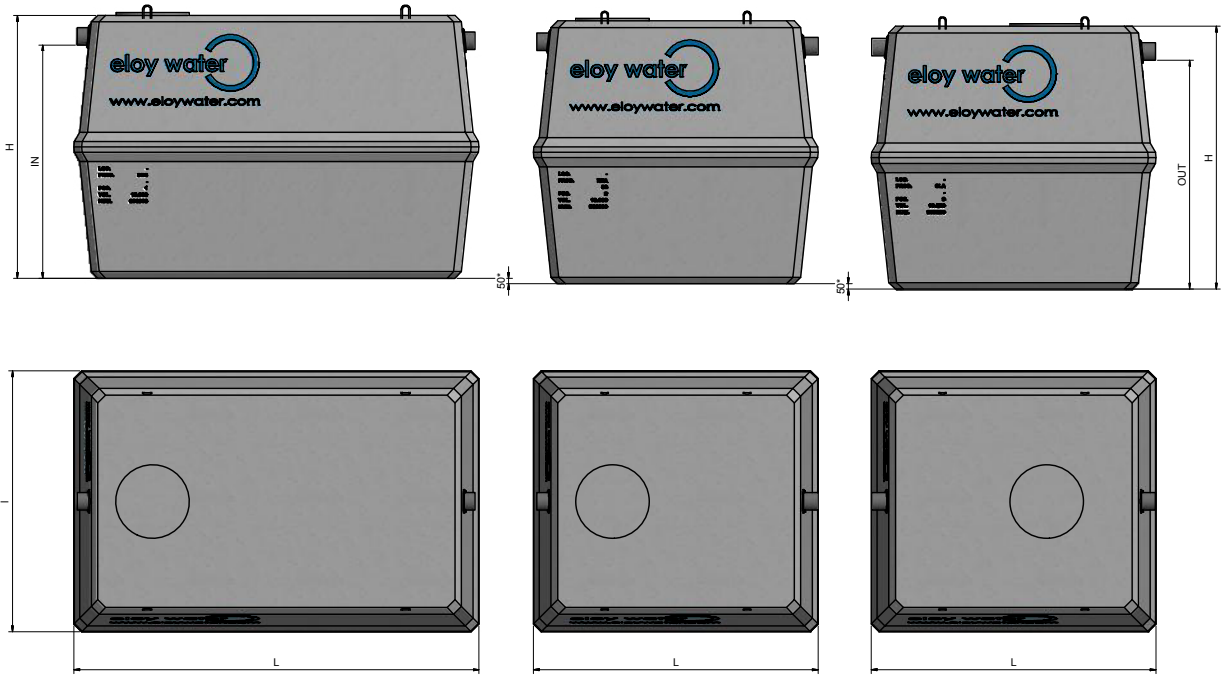
* tolerance ± 2 cm



Material

Tank(s): High performance steel reinforced concrete
 Biocarrier: Recycled PP
 Air feed pipes: PVC PN16

TANK DIMENSIONS



OPERATION

Useful volumes/surfaces

Primary settling compartment:	13.68	m ³
Biological reactor:	9.19	m ³
Clarifier:	4.41	m ²

Operation

Sampling chamber: integrated
 Theoretical desludging frequency: every 11 months
 Approximate energy consumption: 4,584.40 kW
 Maintenance frequency : annually (recommended)
 Admissible load : 80 cm of fill + pedestrian load

Consumables

Blower filter: annually
 Blower membranes: -
 Air diffusers: every 8 years

OPTIONS

Wall support for blower
 PE/concrete tank cover riser 3 pcs
 PE/steel tank cover 3 pcs

GUARANTEES

Electromechanical kit : 2 years
 Tanks : 10 years
 Resistance : B125

Product : Sewage treatment plant

Type : Oxyfix® FIXEUC90
 Model : C-90 CB 75 PE (3) Tri 3x230V
 Process : Submerged Aerated Fixed Film (SAFF) Technology

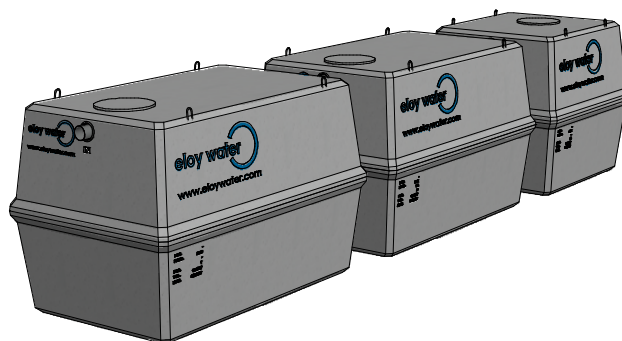
PERFORMANCE

Assumed Influent Values

Application :	Wastewater Treatment*
Pollutant load BOD ₅ :	4.50 kg O ₂ /day
Pollutant load COD :	10.13 kg O ₂ /day
Pollutant load TSS :	6.75 kg/day
Hydraulic load :	11.25 m ³ /day

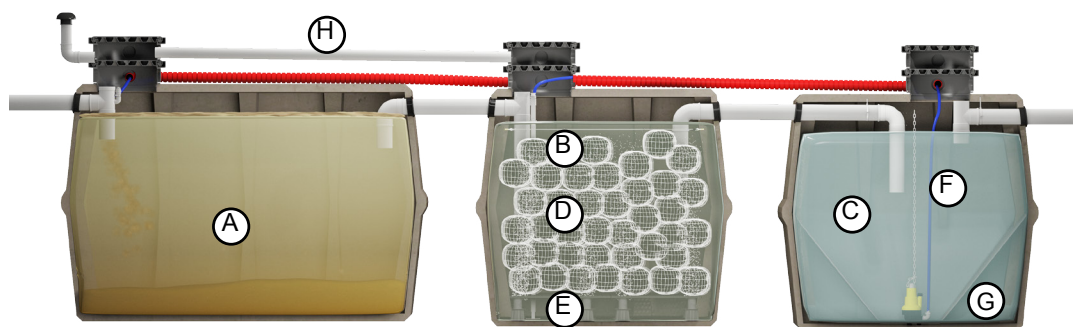
Purification performance

BOD ₅ :	< 25 mg O ₂ /liter
COD :	< 125 mg O ₂ /liter
TSS :	< 30 mg/liter



* We recommend placing a grease trap for treating waste water generated by a restaurant, kitchens used for commercial purposes, etc.

FEATURES



ELECTROMECHANICAL COMPONENTS

Blower

Quantity :	1 pc(s)
Type :	side channel air blower
Installed power :	1.10 kW
Power consumption :	0.82 kW
SPL (Sound Performance Lab) :	59 dB(A)
On / Off :	36/24 min.
Voltage :	3x230V

Air Diffusers

Quantity :	12 pc(s)
Type :	fine bubbles

Sludge recirculation

Type :	submerged pump
Installed power :	0.85 kW
Power consumption :	0.85 kW
On / Off :	11/49 min.

Control panel

Type :	inside
--------	--------

Legend

- A Primary settling compartment
- B Biological reactor
- C Secondary settling compartment
- D Bacterial support
- E Diffusers
- F Sludge recirculation
- G Settling cone

APPROVALS AND CERTIFICATES

 : 2014/04/141/A

DIMENSIONS | VOLUMES | WEIGHTS

Measure	Unit	Tank 1	Tank 2	Tank 3
Total height* :	(cm)	240	240	240
Entry height* :	(cm)	213	213	213
Exit height* :	(cm)	209	209	209
Length :	(cm)	370	370	260
Width :	(cm)	238	238	238
Total volume :	(m ³)	15.00	15.00	10.00
Useful volume :	(m ³)	13.68	13.68	9.19
Weight :	(T)	7.50	8.36	5.82
Weight (w/o shipping cover):	(T)	-	-	-
Manhole(s) :	(cm)	1 x Ø60	1 x Ø60	1 x Ø60
Ø In / Out :	(mm)	160/160	160/160	160/160

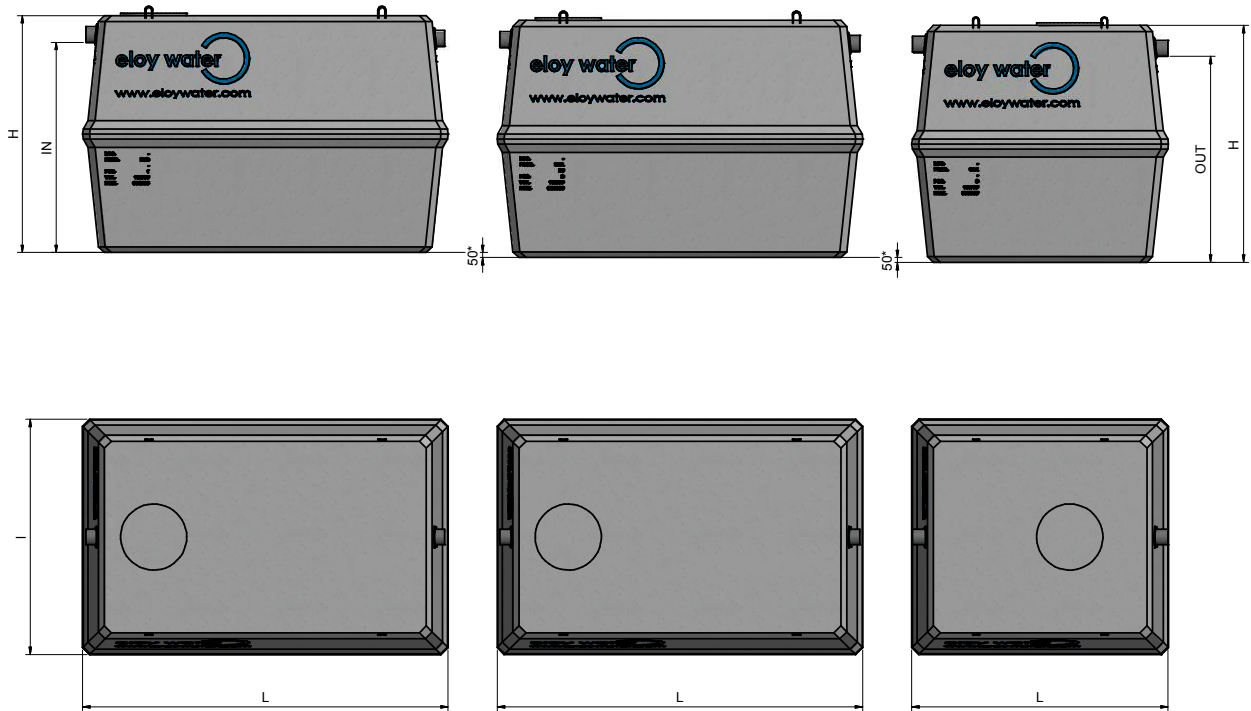
* tolerance ± 2 cm



Material

Tank(s): High performance steel reinforced concrete
 Biocarrier: Recycled PP
 Air feed pipes: PVC PN16

TANK DIMENSIONS



OPERATION

Useful volumes/surfaces

Primary settling compartment:	13.68	m ³
Biological reactor:	13.68	m ³
Clarifier:	4.41	m ²

Operation

Sampling chamber: integrated
 Theoretical desludging frequency: every 13 months
 Approximate energy consumption: 5,675 kW
 Maintenance frequency : annually (recommended)
 Admissible load : 80 cm of fill + pedestrian load

Consumables

Blower filter:	annually
Blower membranes:	-
Air diffusers:	every 8 years

OPTIONS

Wall support for blower	
PE/concrete tank cover riser	3 pcs
PE/steel tank cover	2 pcs

GUARANTEES

Electromechanical kit :	2 years
Tanks :	10 years
Resistance :	B125

Product : Sewage treatment plant

Type : Oxyfix® FIXEUC90
 Model : C-90 CB 75 PE (3) Tri 3x400V + N
 Process : Submerged Aerated Fixed Film (SAFF) Technology

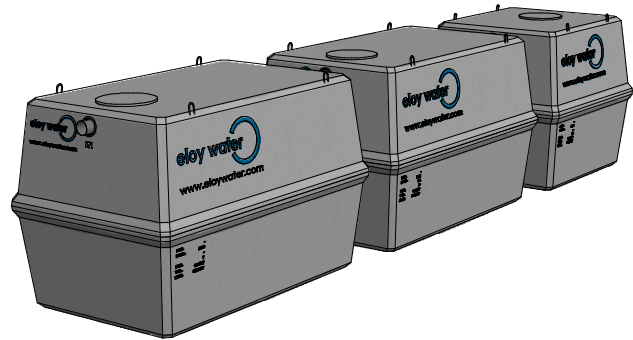
PERFORMANCE

Assumed Influent Values

Application :	Wastewater Treatment*
Pollutant load BOD ₅ :	4.50 kg O ₂ /day
Pollutant load COD :	10.13 kg O ₂ /day
Pollutant load TSS :	6.75 kg/day
Hydraulic load :	11.25 m ³ /day

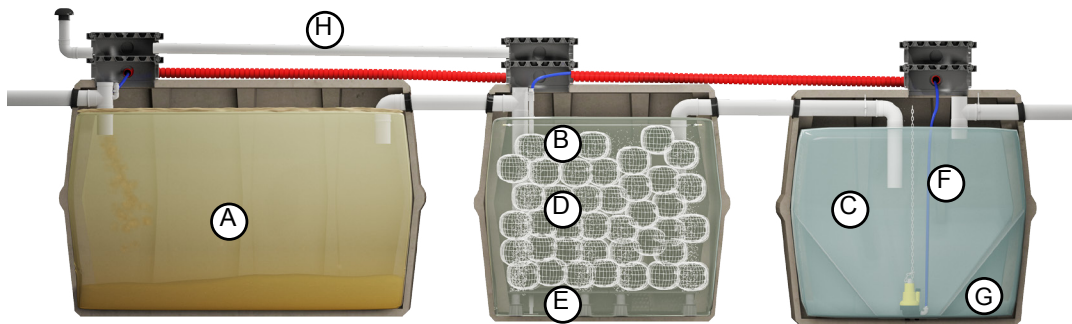
Purification performance

BOD ₅ :	< 25 mg O ₂ /liter
COD :	< 125 mg O ₂ /liter
TSS :	< 30 mg/liter



* We recommend placing a grease trap for treating waste water generated by a restaurant, kitchens used for commercial purposes, etc.

FEATURES



ELECTROMECHANICAL COMPONENTS

Blower

Quantity :	1 pc(s)
Type :	side channel air blower
Installed power :	1.10 kW
Power consumption :	0.82 kW
SPL (Sound Performance Lab) :	59 dB(A)
On / Off :	36/24 min.
Voltage :	3x400V

Air Diffusers

Quantity :	12 pc(s)
Type :	fine bubbles

Sludge recirculation

Type :	submerged pump
Installed power :	0.85 kW
Power consumption :	0.85 kW
On / Off :	11/49 min.

Control panel

Type :	inside
--------	--------

Legend

- A Primary settling compartment
- B Biological reactor
- C Secondary settling compartment
- D Bacterial support
- E Diffusers
- F Sludge recirculation
- G Settling cone

APPROVALS AND CERTIFICATES

 : 2014/04/141/A

DIMENSIONS | VOLUMES | WEIGHTS

Measure	Unit	Tank 1	Tank 2	Tank 3
Total height* :	(cm)	240	240	240
Entry height* :	(cm)	213	213	213
Exit height* :	(cm)	209	209	209
Length :	(cm)	370	370	260
Width :	(cm)	238	238	238
Total volume :	(m ³)	15.00	15.00	10.00
Useful volume :	(m ³)	13.68	13.68	9.19
Weight :	(T)	7.50	8.36	5.82
Weight (w/o shipping cover):	(T)	-	-	-
Manhole(s) :	(cm)	1 x Ø60	1 x Ø60	1 x Ø60
Ø In / Out :	(mm)	160/160	160/160	160/160

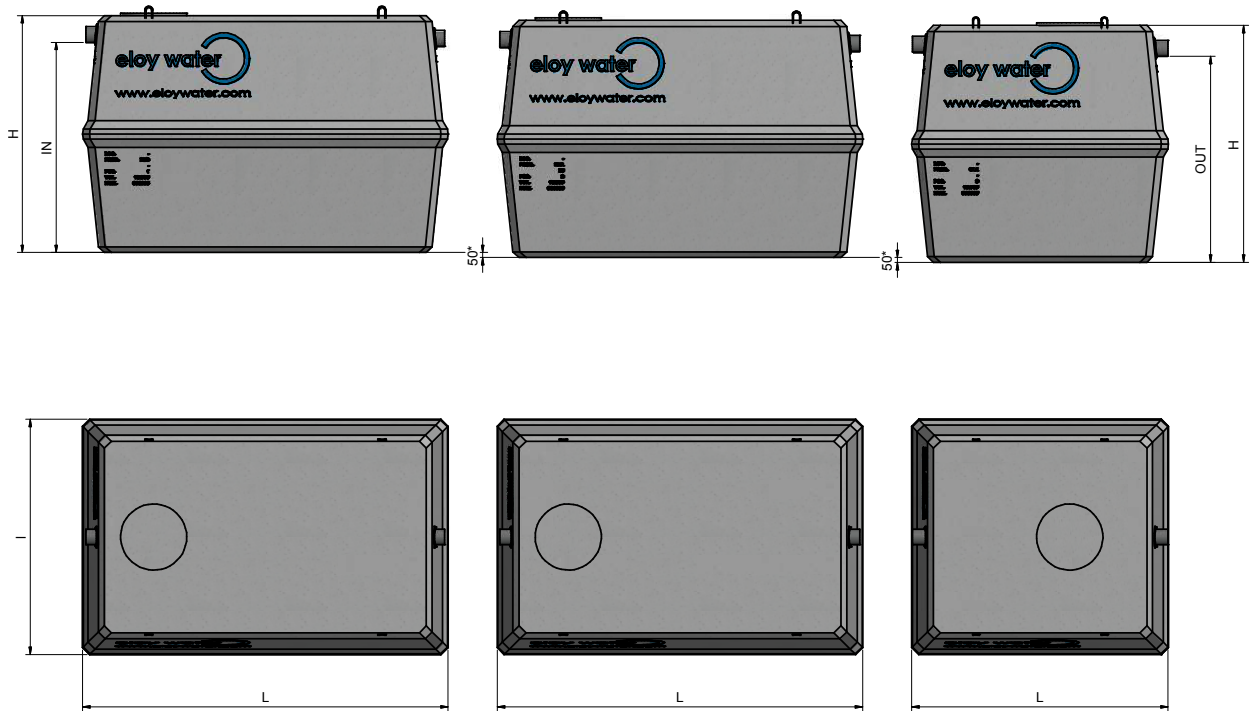
* tolerance ± 2 cm



Material

Tank(s): High performance steel reinforced concrete
 Biocarrier: Recycled PP
 Air feed pipes: PVC PN16

TANK DIMENSIONS



OPERATION

Useful volumes/surfaces

Primary settling compartment:	13.68	m ³
Biological reactor:	13.68	m ³
Clarifier:	4.41	m ²

Operation

Sampling chamber: integrated
 Theoretical desludging frequency: every 13 months
 Approximate energy consumption: 5,675 kW
 Maintenance frequency : annually (recommended)
 Admissible load : 80 cm of fill + pedestrian load

Consumables

Blower filter: annually
 Blower membranes: -
 Air diffusers: every 8 years

OPTIONS

Wall support for blower
 PE/concrete tank cover riser 3 pcs
 PE/steel tank cover 2 pcs

GUARANTEES

Electromechanical kit : 2 years
 Tanks : 10 years
 Resistance : B125

Product : Sewage treatment plant

Type : Oxyfix® FIXEUC90
 Model : C-90 CB 99 PE (3) Tri 2x230V
 Process : Submerged Aerated Fixed Film (SAFF) Technology

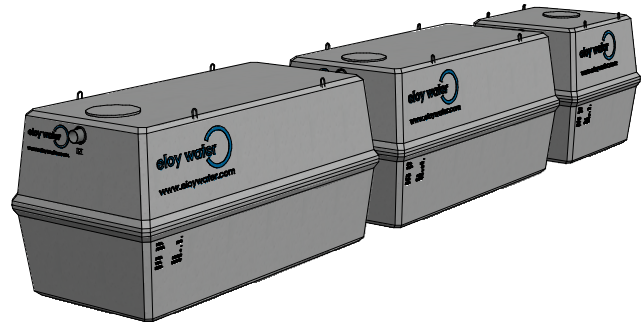
PERFORMANCE

Assumed Influent Values

Application :	Wastewater Treatment*
Pollutant load BOD ₅ :	5.94 kg O ₂ /day
Pollutant load COD :	13.37 kg O ₂ /day
Pollutant load TSS :	8.91 kg/day
Hydraulic load :	14.85 m ³ /day

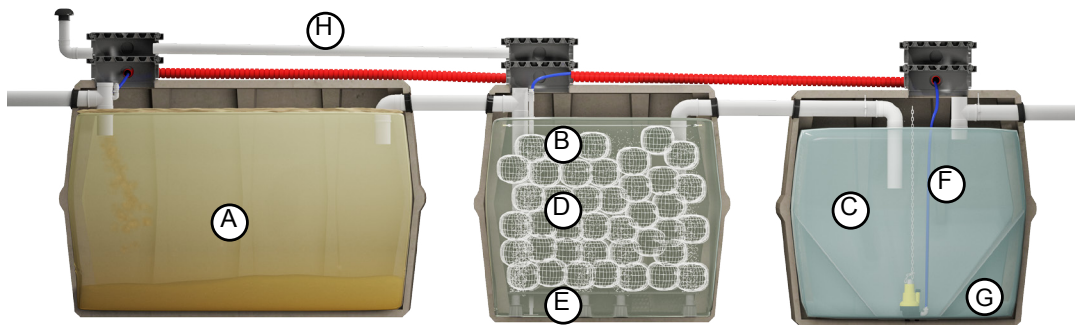
Purification performance

BOD ₅ :	< 25 mg O ₂ /liter
COD :	< 125 mg O ₂ /liter
TSS :	< 30 mg/liter



* We recommend placing a grease trap for treating waste water generated by a restaurant, kitchens used for commercial purposes, etc.

FEATURES



ELECTROMECHANICAL COMPONENTS

Blower

Quantity :	1 pc(s)
Type :	side channel air blower
Installed power :	1.50 kW
Power consumption :	1.05 kW
SPL (Sound Performance Lab) :	61 dB(A)
On / Off :	32/28 min.
Voltage :	3x230V

Air Diffusers

Quantity :	15 pc(s)
Type :	fine bubbles

Sludge recirculation

Type :	submerged pump
Installed power :	0.85 kW
Power consumption :	0.85 kW
On / Off :	14/46 min.

Control panel

Type :	inside
--------	--------

Legend

- A Primary settling compartment
- B Biological reactor
- C Secondary settling compartment
- D Bacterial support
- E Diffusers
- F Sludge recirculation
- G Settling cone

APPROVALS AND CERTIFICATES

 : 2014/04/142/A

DIMENSIONS | VOLUMES | WEIGHTS

Measure	Unit	Tank 1	Tank 2	Tank 3
Total height* :	(cm)	240	240	240
Entry height* :	(cm)	213	213	213
Exit height* :	(cm)	209	209	209
Length :	(cm)	480	480	260
Width :	(cm)	238	238	238
Total volume :	(m ³)	20.00	20.00	10.00
Useful volume :	(m ³)	18.16	18.16	9.19
Weight :	(T)	9.10	9.95	5.82
Weight (w/o shipping cover):	(T)	-	-	-
Manhole(s) :	(cm)	1 x Ø60	1 x Ø60	1 x Ø60
Ø In / Out :	(mm)	160/160	160/160	160/160

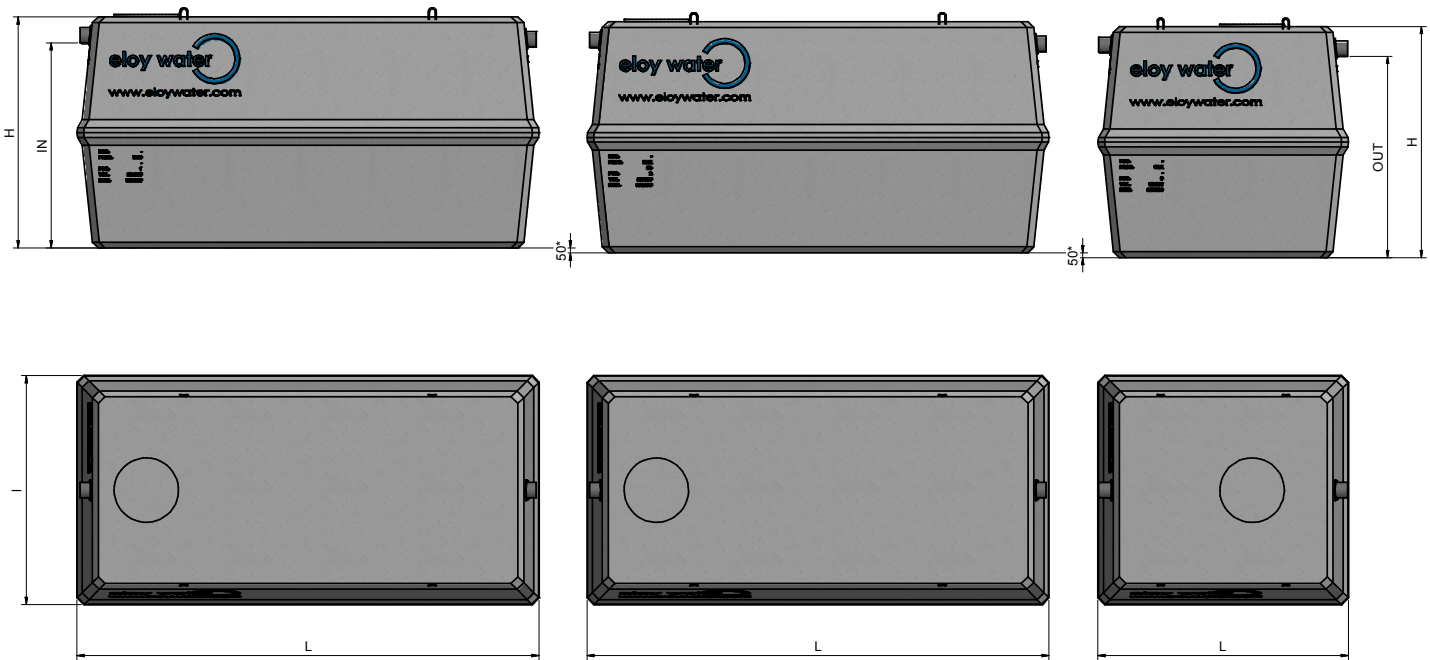
* tolerance ± 2 cm



Material

Tank(s): High performance steel reinforced concrete
 Biocarrier: Recycled PP
 Air feed pipes: PVC PN16

TANK DIMENSIONS



OPERATION

Useful volumes/surfaces

Primary settling compartment:	18.16	m ³
Biological reactor:	18.16	m ³
Clarifier:	4.41	m ²

Operation

Sampling chamber: integrated
 Theoretical desludging frequency: every 13 months
 Approximate energy consumption: 6,643 kW
 Maintenance frequency : annually (recommended)
 Admissible load : 80 cm of fill + pedestrian load

Consumables

Blower filter: annually
 Blower membranes: -
 Air diffusers: every 8 years

OPTIONS

Wall support for blower	
PE/concrete tank cover riser	3 pcs
PE/steel tank cover	3 pcs

GUARANTEES

Electromechanical kit :	2 years
Tanks :	10 years
Resistance :	B125

Product : Sewage treatment plant

Type : Oxyfix® FIXEUC90
 Model : C-90 CB 99 PE (3) Tri 3x400V + N
 Process : Submerged Aerated Fixed Film (SAFF) Technology

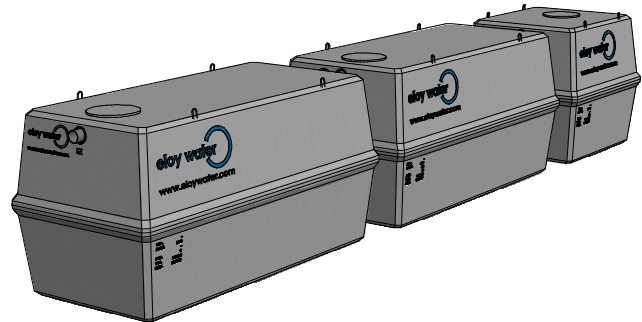
PERFORMANCE

Assumed Influent Values

Application :	Wastewater Treatment*
Pollutant load BOD ₅ :	5.94 kg O ₂ /day
Pollutant load COD :	13.37 kg O ₂ /day
Pollutant load TSS :	8.91 kg/day
Hydraulic load :	14.85 m ³ /day

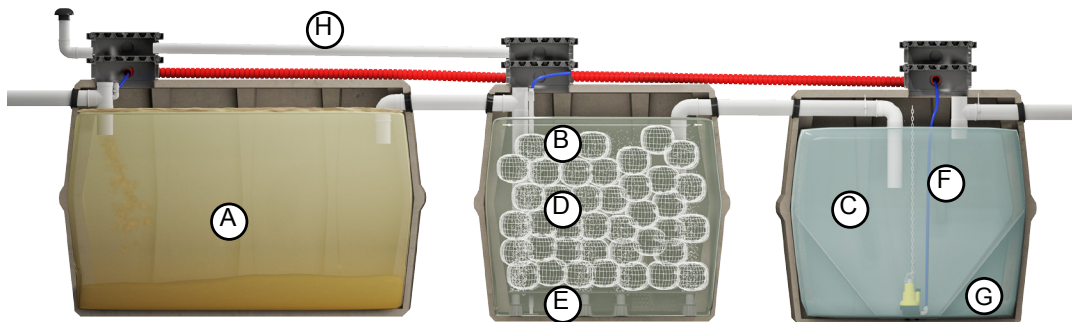
Purification performance

BOD ₅ :	< 25 mg O ₂ /liter
COD :	< 125 mg O ₂ /liter
TSS :	< 30 mg/liter



* We recommend placing a grease trap for treating waste water generated by a restaurant, kitchens used for commercial purposes, etc.

FEATURES



ELECTROMECHANICAL COMPONENTS

Blower

Quantity :	1 pc(s)
Type :	side channel air blower
Installed power :	1.50 kW
Power consumption :	1.05 kW
SPL (Sound Performance Lab) :	61 dB(A)
On / Off :	32/28 min.
Voltage :	3x400V

Air Diffusers

Quantity :	15 pc(s)
Type :	fine bubbles

Sludge recirculation

Type :	submerged pump
Installed power :	0.85 kW
Power consumption :	0.85 kW
On / Off :	14/46 min.

Control panel

Type :	inside
--------	--------

Legend

- A Primary settling compartment
- B Biological reactor
- C Secondary settling compartment
- D Bacterial support
- E Diffusers
- F Sludge recirculation
- G Settling cone

APPROVALS AND CERTIFICATES

 : 2014/04/142/A

DIMENSIONS | VOLUMES | WEIGHTS

Measure	Unit	Tank 1	Tank 2	Tank 3
Total height* :	(cm)	240	240	240
Entry height* :	(cm)	213	213	213
Exit height* :	(cm)	209	209	209
Length :	(cm)	480	480	260
Width :	(cm)	238	238	238
Total volume :	(m ³)	20.00	20.00	10.00
Useful volume :	(m ³)	18.16	18.16	9.19
Weight :	(T)	9.10	9.95	5.82
Weight (w/o shipping cover):	(T)	-	-	-
Manhole(s) :	(cm)	1 x Ø60	1 x Ø60	1 x Ø60
Ø In / Out :	(mm)	160/160	160/160	160/160

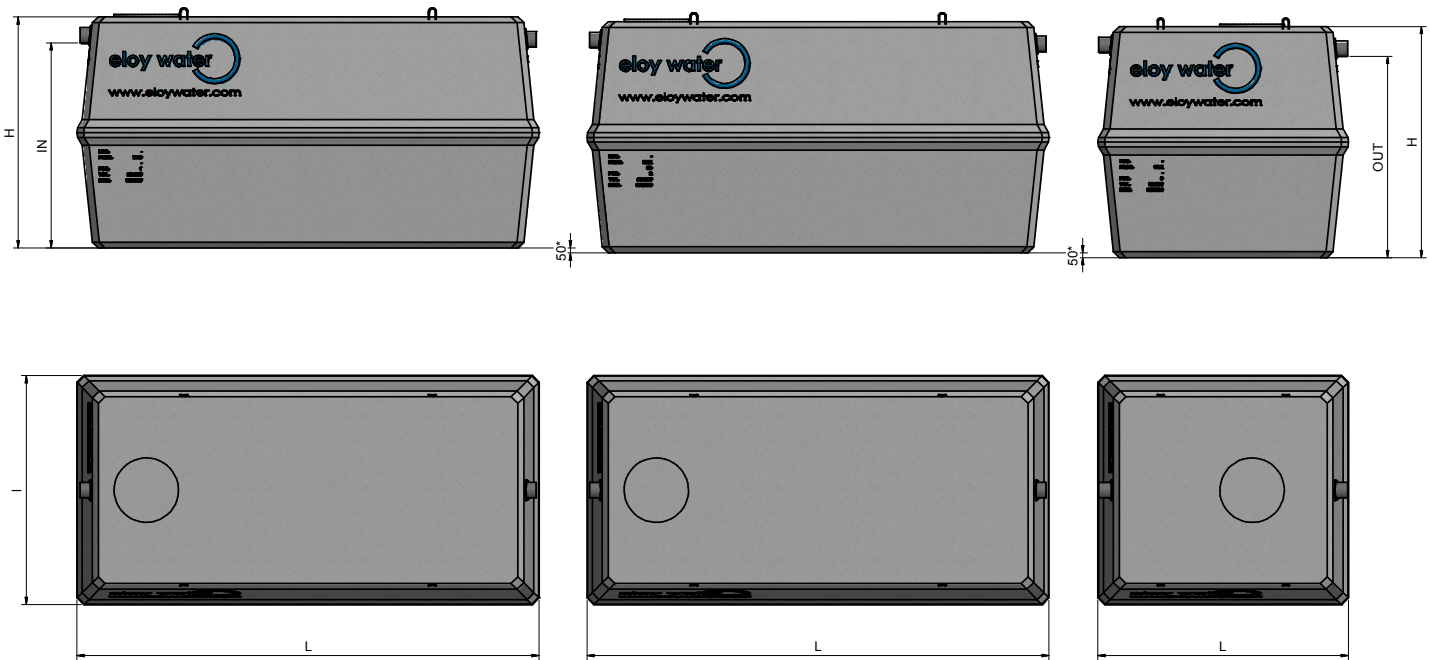
* tolerance ± 2 cm



Material

Tank(s): High performance steel reinforced concrete
 Biocarrier: Recycled PP
 Air feed pipes: PVC PN16

TANK DIMENSIONS



OPERATION

Useful volumes/surfaces

Primary settling compartment:	18.16	m ³
Biological reactor:	18.16	m ³
Clarifier:	4.41	m ²

Operation

Sampling chamber: integrated
 Theoretical desludging frequency: every 13 months
 Approximate energy consumption: 6,643 kW
 Maintenance frequency : annually (recommended)
 Admissible load : 80 cm of fill + pedestrian load

Consumables

Blower filter: annually
 Blower membranes: -
 Air diffusers: every 8 years

OPTIONS

Wall support for blower
 PE/concrete tank cover riser 3 pcs
 PE/steel tank cover 3 pcs

GUARANTEES

Electromechanical kit : 2 years
 Tanks : 10 years
 Resistance : B125