



No capacity problem

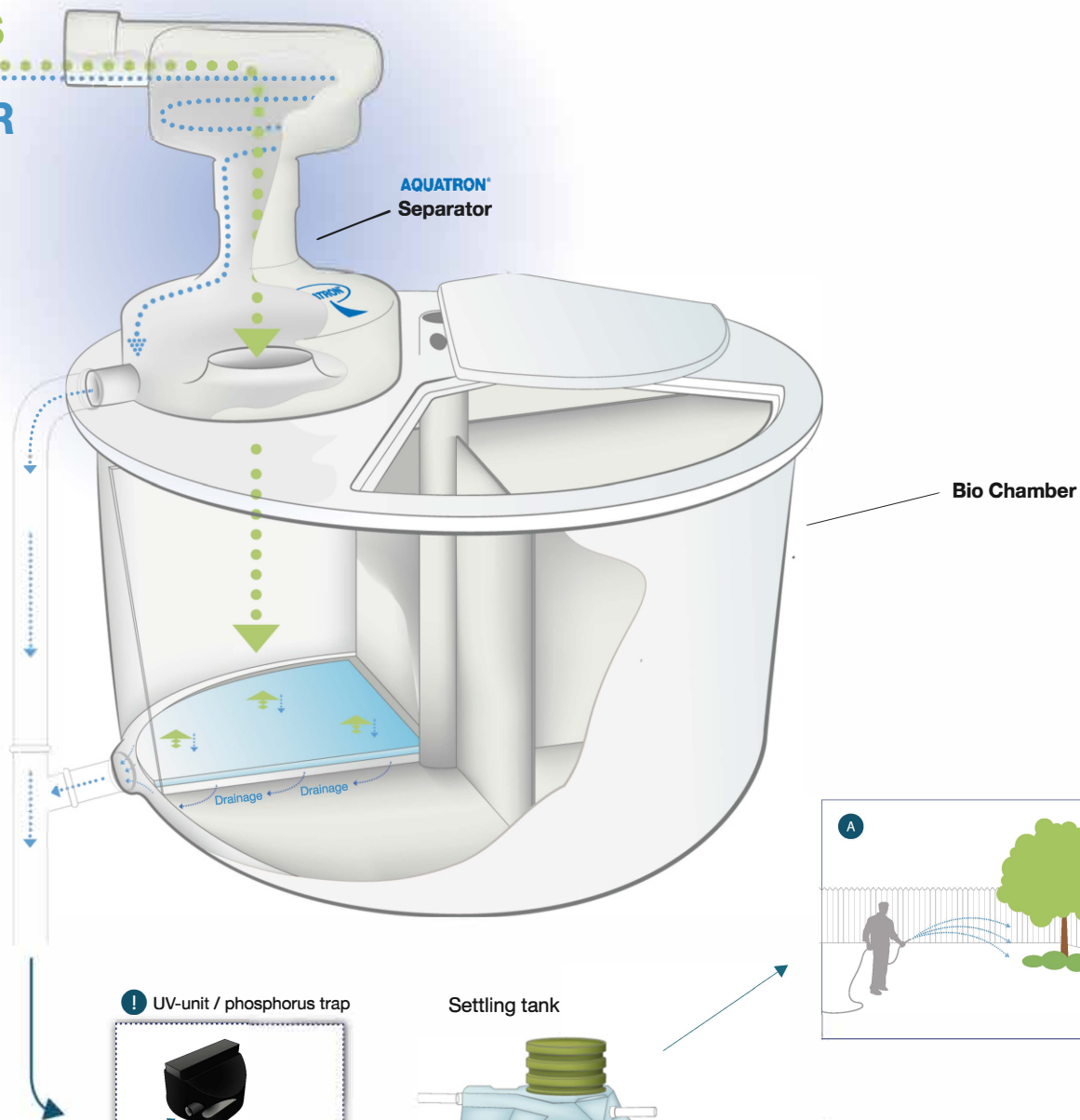


No black water tank sludge discharge

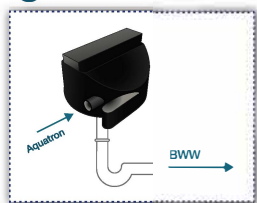


Economical to operate

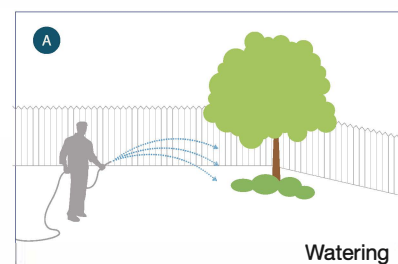
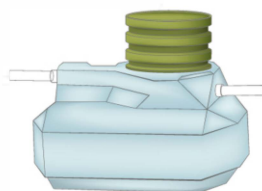
FECES
WATER



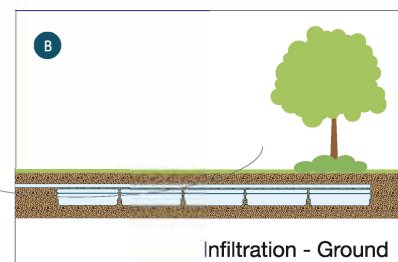
! UV-unit / phosphorus trap



Settling tank



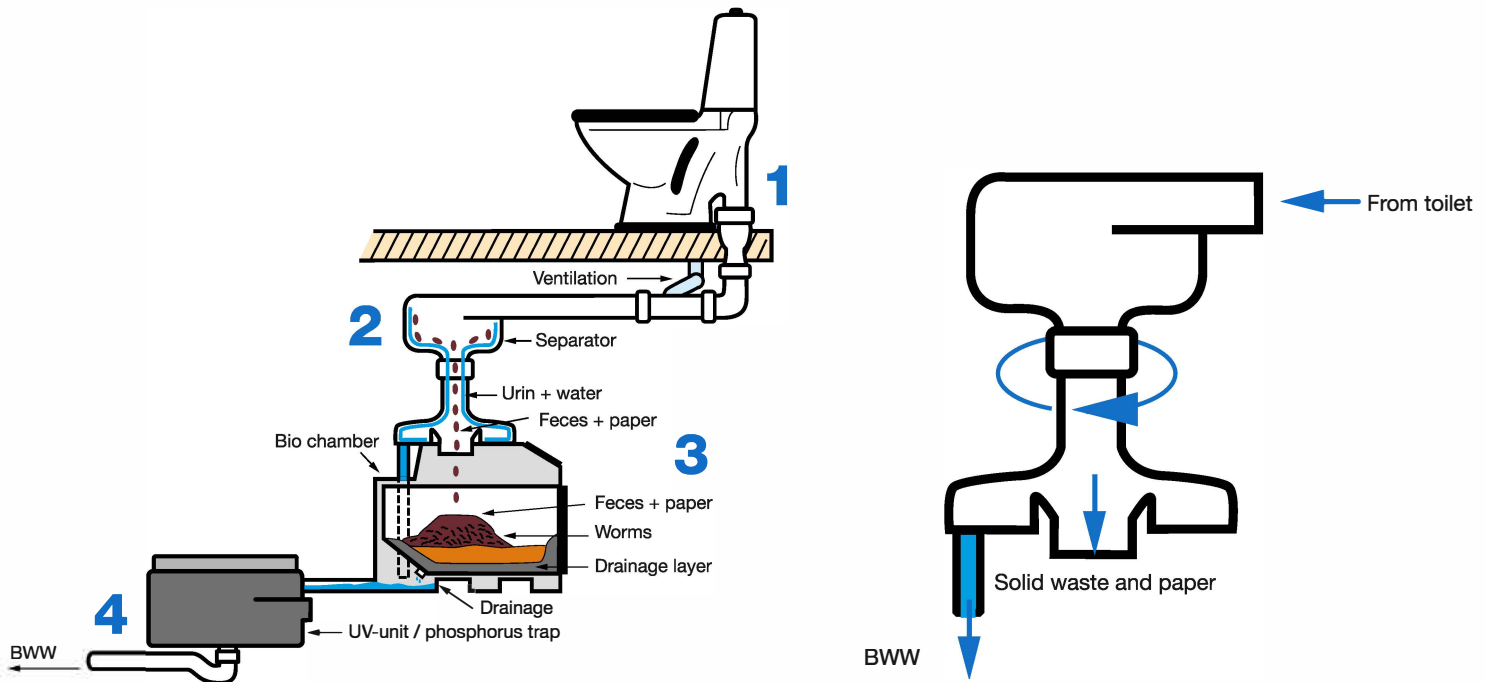
Watering



Infiltration - Ground

This is how it works!

The water is flushed into a separator (no mechanical parts and zero energy usage) where urine and water is separated from feces and paper. The urine and grey water (Bath, Dish, Wash) are transported as grey water for infiltration into the soil (If necessary you can use a UV device or phosphorus trap to meet the highest discharge requirements). The solid waste is composted in a Bio Composting Chamber.

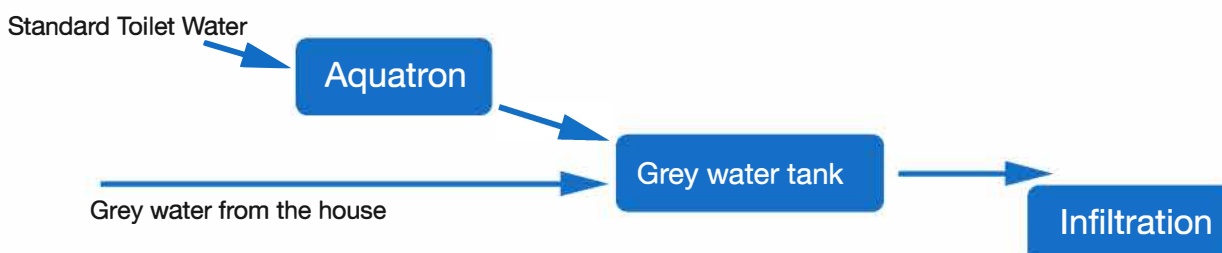


1. Aquatron uses standard toilet fixtures.

2. When the toilet is flushed, the contents of the bowl are transported to the Aquatron Separator where approximately 98% of the liquid is separated by using the momentum of the flushing water (centrifugal force and gravity). The Aquatron Separator needs no mechanical parts.

3. The solid waste (paper and feces) falls down into the Bio Composting Chamber where it is composted by bacteria and, if desired, by worms. If using worms, the volume of the solid waste will be reduced by approximately 95%. The need for emptying and handling the compost is therefore reduced to a minimum. Optimal temperature for the composting is (54-77 degrees Fahrenheit), a temperature level recommended for year-round inhabited homes. The composting process is free from odor and insects because the Bio-Composting Chamber is ventilated and the small amount of liquid following the paper down into the Bio-Composting Chamber is removed by a drain at the base of the Bio-Composting Chamber. When the Aquatron 50, 2x50 and 90 models are emptied, the waste must be composted to soil in the garden together with the normal garden and kitchen waste. However, the models 4x100, 4x200 or 4x300 require no further composting.

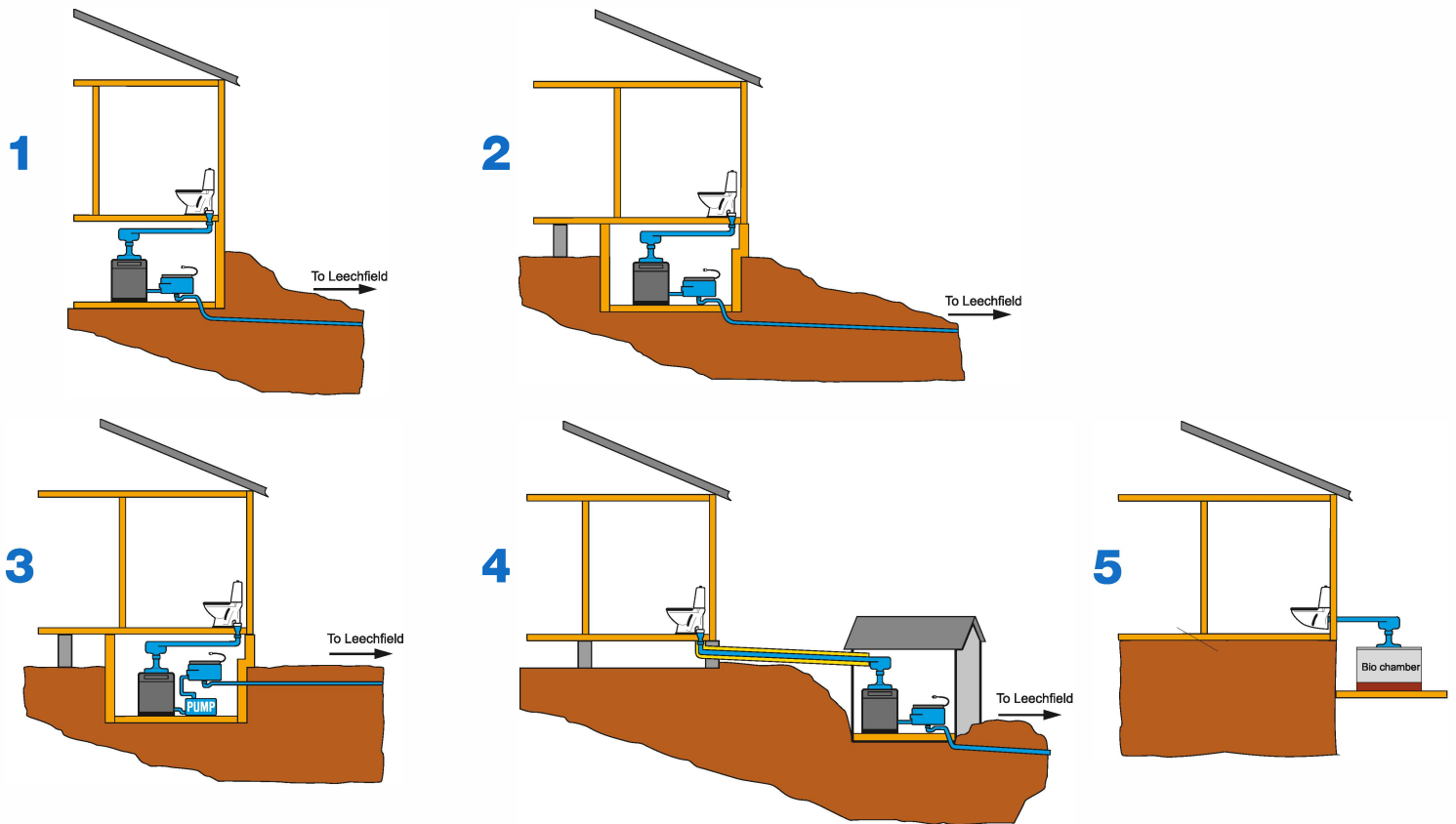
4. With high treatment requirements flowing liquid waste to a UV unit where it is exposed to ultraviolet light which kills bacteria or phosphorus trap to the highest environmental discharge standards. The liquid is then equivalent to the grey water (Bathing, Washing, Wash) and can be discharged as per grey water standards. The system can also be installed without the UV-unit/phosphorus trap. Since the liquid has separated the Aquatron System has no capacity problems at peak loads.



Easy to install!

The unique design of the Aquatron system uses a standard toilet fixture's discharge to enable the Aquatron system to be positioned.

When flushing is used for transportation of waste can Aquatron system be positioned at any distance from the toilet fixture reaching up to 60 meters.



Flexible as it offers opportunities to adjust an installation to individual needs!

- 1. Installation in a basement.**
- 2. Install in a crawlspace.**
- 3. With a pump** for the separated fluid, if the installation site is located below the level of the Grey Water sewer, the pump may be installed in order to pump the fluid to the Grey Water outlet.
- 4. Separate house,** pipe length can be long as long as you stick to the standard of a 3" gradient per yard. Existing Aquatron systems have reached up to 60 meters.
- 5. Outdoor Installation.**

The minimum size of space that the Aquatron system should stand on depends on the model. Expect at least 1-2 m² and the height 1-1.5 meters

Aquatron models

Aquatron system is available in different models from the small vacation home to large apartment buildings. The size of the composting chamber is determined by usage. One to two buckets of compost is emptied normally after 1-2 years. (There are many users who have not emptied anything in 5 years). The speed of decomposition is controlled by the temperature and if you use vermiculture.

Aquatron 50 is suitable for vacation homes. Bio Chamber volume is 90 Liters.

- After emptying, you add to compost. If two bio chambers are used you can use the other extra box for additional composting directly in the filled box.
- Height is approximately 95 cm (separator and Bio Chamber).
Bio Chamber size: 60x60x40 cm.

Extra box with lid available as accessory.



Aquatron 2x50 is suitable for vacation homes ..

- Bio Chamber volume is 2x50 Liters , has two pull-out bio chambers of the waste, which facilitates emptying. The boxes are used alternately.

- Height is approximately 95 cm. (separator and bio chamber)
Bio chamber size: 104x60x40 cm

Extra box with lid available as accessory.



Residential Buildings to Apartment Buildings

Aquatron 90 is suitable for vacation homes.
Bio Chamber volume is 24 Gallons.

After emptying, you add to compost.
If two bio chambers are used you can use
the other extra box for additional composting
directly in the filled box.

Height is approximately 110 cm
(separator and Bio Chamber).
Bio Chamber size: 60x70x60 cm

Extra box with lid available as accessory.



Aquatron vagn is suitable for vacation homes or
full-time residents.

A simple solution, when you have the
opportunity, is a rolling wagon for switching
to a new system or at discharge.

Bio Chamber volume is approximately 200 Liters.
Height is approximately 117 cm
Bio Chamber size: 62x82x65 cm

Optional wagon with lid available as accessory.

Aquatron 4x100 4x200 och 4x300
Suitable for vacation homes and full-year residents.

Has internal compost bins which are divided into
four sections. The single sectioned container rotates
like a carousel. The inner chamber should be
turned 90 degrees clockwise approximately
every 3-4 months. Hence, a full rotation cycle will
take approximately 12-16 months. The actual
turning/emptying frequency depends on usage,
temperature in the compartment where the
Bio Chamber is installed, and if vermiculture is
used for composting or not.

Turning the inner chamber 90 degrees clockwise
means that the filled section will get no more fresh
solid waste, and will therefore compost the waste
completely into soil which will make it easier and
more pleasant to handle. When the first used chamber
comes up for emptying, the waste has been fully c
omposted and has become transformed into
approximately 6 Gallons of soil- perfect for the garden.
Optionally, instead of emptying the chamber, it may
be used once more before emptying.

The main advantage of the rotating Aquatron is fully
composted which provides convenient handling.

Height approximately 115-140 cm (separator and Bio
Chamber)
Bio Chamber size: 116x61, 128x64, 160x80 cm

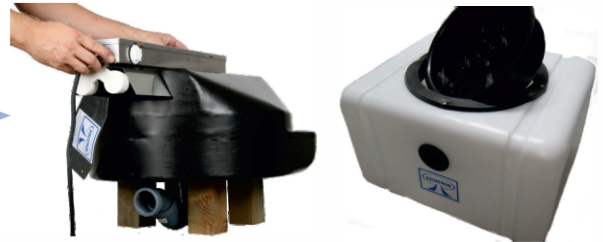


Treatment of Discharge

Adding the Aquatron system to your sewer system enables you to meet various discharge requirements. Because the facility is simple and sturdy you can manage everything easily yourself. The Aquatron system replaces the need for a grey water tank to be emptied by grey water-tank maintenance trucks by composting naturally. Flush water to an approved multi-chamber tank where it is mixed with other grey water and then purified in an approved infiltration leechfield. Sewer system maintenance is drastically reduced allowing the home owner to practice a natural composting cycle.

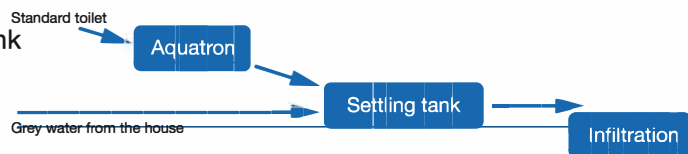
We advise and sell grey water solutions suitable for all types of land and environmental requirements.

To increase the treatment efficiency and get totally free from dangerous bacteria use a UV unit.

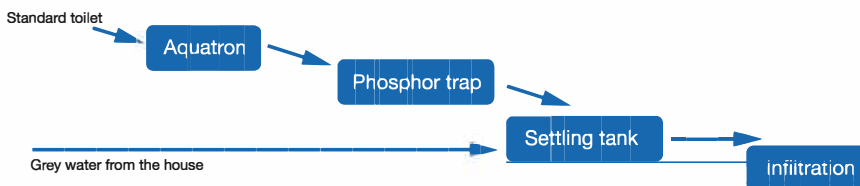


Normal demands (BOD 90%, Phosphorus 70%)

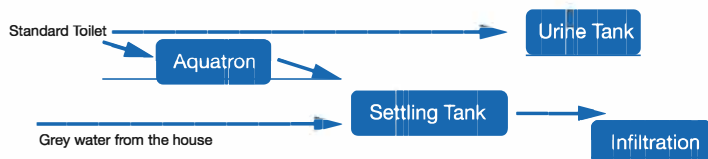
When you connect Aquatron to a 2-grey water tank and an approved infiltration as can be normal treatment requirements under Environmental Protection Agency guidelines. If you want to increase the treatment efficiency and get totally free from dangerous bacteria use a UV unit.



High demands (BOD 90%, Phosphorus 90%, and Nitrogen 50%)



High environmental requirements can be met by using
- **Aquatron Phosphorus Trap.**



- Urine Separation
Best for the environment with absolutely no running costs.

Technical Specifications

TOILETS

Optional Standard toilet or urine separating toilets. When using a normal flush, three toilets can be connected to the same Aquatron system and eight of the larger Aquatron 4x300.

PLUMBING

Pipe length: Toilet to the separator, is at least 80 cm and maximum is 60 meters.

Pipe Slope (cases): the tube 1 meters closest to the separator is usually about 5% and the additional length of 1%, according to plumbing standards.

Pipe Dimensions: toilet pipes standard DIA. 110 mm, pipe out 50 mm, ventilation 50-110 mm.

INFILTRATION OR IRRIGATION (LEECHFIELD)

Aquatron connected to an approved grey water (Bathing, Washing, Wash)- infiltration.

Requirements: 2- grey water tank + infiltration. We give advice and sell grey water solutions that suit all types of land and environmental requirements.

MATERIAL

Aquatron is made from recyclable polyethylene plastic and glass-reinforced polyester.

LIFESPAN

Since everything is made of plastic; the estimated life span of at least 50 years.

MAINTENANCE

When the Aquatron system is installed requires minimal maintenance, keep in mind, however, that you take a look on a monthly or quarterly basis depending on the model.

Multiple users have a history of trouble free operation and excellent composting using the 4x200 systems. Calculate the time between emptying:

Aquatron 50, 2x50 90 and 6-15 months

Aquatron Wagon 12-24 months

Aquatron 4x100, 4x200 and 4x300 (section) 12-72 months.

Replacing the UV lamp after 4-5 years if it is switched on all the time.

Replacing Polonite R in phosphorus trap after approximately 1 year.

POWER CONSUMPTION

None; unless using a UV unit.

UV-ENHET

Two UV tubes. If one of the tubes fails, it activates an alarm signal. Power consumption: 30W

PHOSPHORUS TRAP

Inlet and outlet 50 mm diameter. Height of inlet/outlet center: 23 cm.

Included in delivery: Polonite 60 liters. phosphorus binding clay, scoop.

See next page for dimensions 

Technical Specifications

Approximately Dimensions in inches (see below table for exact dimensions in cm)

Model	Height with separator	Length (Bio Chamber)	Width (Bio Chamber)	Height (Bio Chamber)	Height inlet top of the pipe	Height outlet top of the pipe
50	37	23	24	16	37	3
2x50	37	41	24	16	37	3
90	43	28	24	24	43	3
Wagon	46	62	32	26	46	6
4x100	45	46	46	24	45	3
4x200	46	50	50	25	46	3
4x300	55	63	63	31	55	3
UV-unit		20	20	17	10	4
Phosphor trap		24	20	15	10	10

Dimensions in centimeters (cm)

Model	Height with separator	Length (Bio Chamber)	Width (Bio Chamber)	Height (Bio Chamber)	Height inlet top of the pipe	Height outlet top of the pipe
50	95	59	60	40	95	8
2x50	95	104	60	40	95	8
90	110	70	60	60	110	7
Wagon	117	62	82	65	117	14
4x100	115	116	116	61	115	7
4x200	118	128	128	64	118	7
4x300	140	160	160	80	140	7
UV-unit		50	50	43	26	11
Phosphor trap		60	50	37	26	26

Interested in learning more?
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