



Waste Water Treatment Plants

MEMBRANE WASTE WATER TREATMENT

A membrane bioreactor (MBR) WWTP is the most modern way how to treat waste water. The solution combines conventional biological wastewater treatment with membrane technologies. A wastewater treatment system receives, stores, treats and disposes of waste water from toilets, sinks, washing machines, baths and all other domestic water-using appliances.

The MBR technology by ENVI-PUR ensures high efficiency of removing organic pollution, nitrogenous substances as well as bacteria and viruses (including SARS-CoV-2 causing COVID-19) from wastewater, therefore the treated water can be reused / recycled for the watering plants, flushing the toilets, car washing, etc.

WWTP BC biocleaner MBR



High quality purified water suitable for recycling



Fast and easy maintenance and operation



Clear water given back to the nature



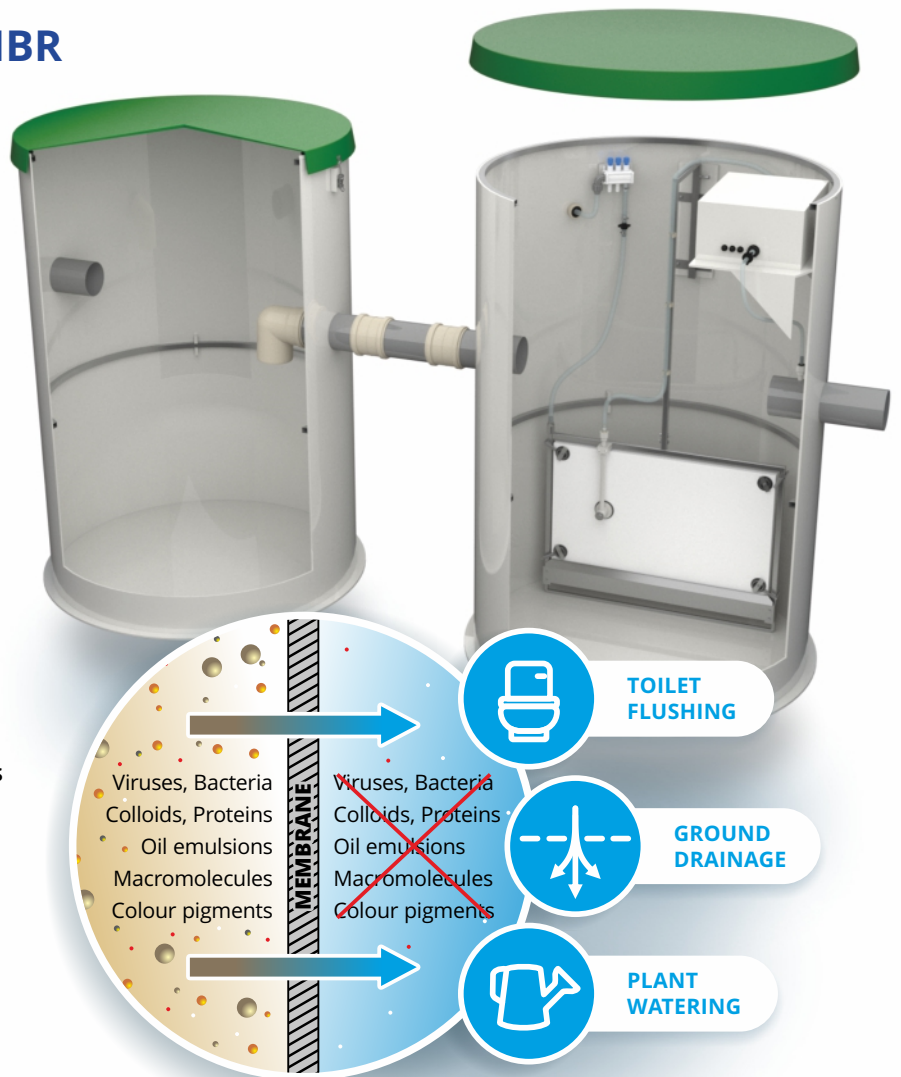
Suitable for family houses, guest houses and small businesses



Prevent potential diseases with 99,99% elimination of bacteria and viruses



Minimum odour emission



Why choose the ENVI-PUR membrane treatment plant

- Low cost and easy maintenance.
- A perfect solution for limited land area, water and energy resources for higher cost savings.
- Automatic alarm message about the need to regenerate membranes via Wi-Fi or GSM.
- Equipment for increased removal of phosphorus or special bacteria in case of insufficient load of the treatment plant.
- Dozens of installed membrane treatment plants – very high customer's satisfaction rate.
- The best solution for territories with high legislative requirements for the treated water.
- Remote monitoring from one place for multiple plants installed in one place.
- Possibility of above ground installation.
- Walkable covers with locking devices – three options of covers – stone, lens and flat.
- An easy solution for increasing of existing WWTP with no necessity of building adaptation.
- Ecological self-sufficient water recirculation system for more savings.
- Possibility of expansion with another tank with activated carbon. It turns waste water to drinking water.

Parameters of BC BioCleaner 6 – 50 MBR treatment plants

Type	$Q_{d, max}^*$ [m ³ /day]	Load BOD ₅ [g/day]	Tank dimension [m]	Tank height [m]
BC 6 MBR	1.4	360	2 tanks × Ø1.4	2.06
BC 12 MBR	2.7	720	2 tanks × Ø 1.7	2.36
BC 16 MBR	3.6	960	2 tanks × Ø 1.7	2.51
BC 20 MBR	4.5	1 200	2 tanks × Ø 1.9	2.71
BC 35 MBR	7.9	2 100	2 tanks × Ø 2.4	2.81
BC 40 MBR	9.0	2 400	2 tanks 2.0 × 3.0	2.90
BC 50 MBR	11.3	3 000	2 tanks 2.0 × 3.5	2.90

* Max. daily water consumption is considered 225L / person / day

ENVI-PUR also offers a solution for 50 - 1100 EP, which is offered in a rectangular container.
For more information see our website <https://www.envi-pur.com/>

Parameters of treated wastewater

Parameter	Removal efficiency
BOD ₅	97%
COD _{Cr}	99%
SS	99%
Bacteria/Viruses	99.99 %

Installation overview

- (A)** Technical house (electroinstallation)
- (B)** BC biocleaner MBR treatment plant
- (C)** WWTP extension (for deeper installation)
- (D)** WWTP walkable cover (up to 250 kg/m²)



Our dealer will take care of you in your region.

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rethinking water

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