

An aerial photograph of a rural landscape. In the foreground, there are large, brown, tilled agricultural fields. A road curves through the middle ground, separating the fields from a cluster of buildings. These buildings include several houses with red and grey roofs, a large white industrial-style building, and various smaller structures. There are many green trees scattered throughout the scene. In the background, a blue lake is visible under a clear blue sky. The overall scene depicts a typical rural setting with agricultural land and a small community.

uponor

WehoPuts 20–1200

Wastewater treatment plants

What is wastewater?

Wastewater systems are selected based on the standard of equipment of the property in question as well as the demands of the applicable legislation, including local regulations regarding urban planning and environmental protection. The system must be suitable for each respective property and site.

What does wastewater comprise?

- Greywater refers to wastewater generated from domestic activities, such as laundry, dishwashing and bathing. Greywater which consists only of wash water generates in holiday residences with an alternative toilet solution, such as a composting outhouse.
- Blackwater is wastewater generated in a water toilet.

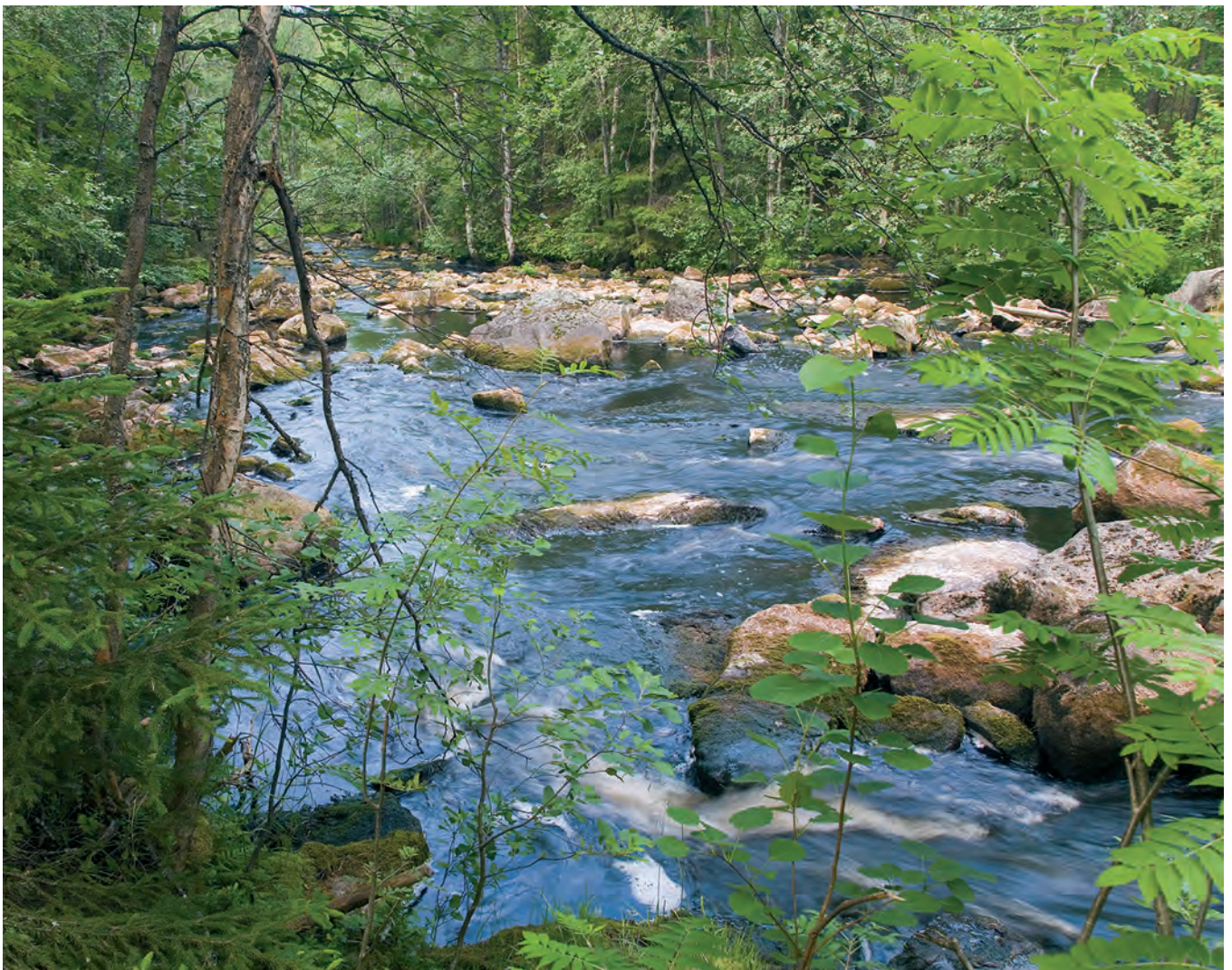
In the majority of buildings that are in year-round use, wastewater comprises both of the above.

Before making your decision

Before selecting the system, determine the possibility of a sewer connection:

- to an existing or planned sewer network in the area (future expansions of sewer networks are set forth in municipal development plans).
- to a shared wastewater system with your neighbours.

If these options are not feasible or possible, obtain a building-specific wastewater system suitable for your property.



WehoPuts treatment plants

WehoPuts batch treatment plants

The WehoPuts treatment plants are of high quality and designed to meet even the strictest requirements. The plants are bio-chemical batch treatment plants intended for year-round use, and they process all domestic wastewater.

A wide selection of models is available ranging from solutions for single buildings to high-capacity systems for entire villages or small communities. In addition to households, the miniature treatment plants are well suited to locations such as small rural schools and holiday residences.

The number to go with the WehoPuts name refers to the plant dimensioning. Dimensioning is based on the population equivalent (PE) (PE 150l/pc/d).

Ready to install and use

WehoPuts treatment plants, which come out of the factory ready to install and use, can also be effortlessly installed in small sites. In addition, they do not require the soil to have any particular characteristics and they are suitable for new and renovated buildings.

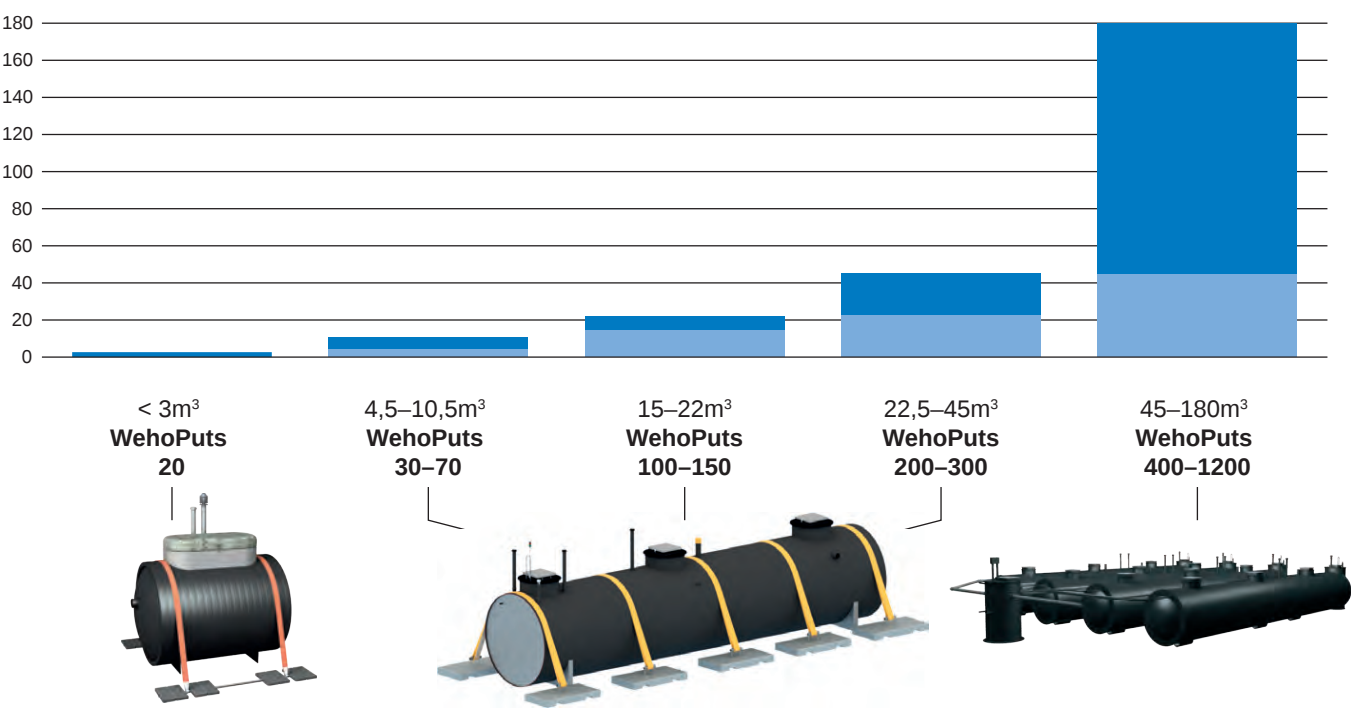
Pioneering technology and reliability

WehoPuts miniature treatment plants represent the pinnacle of wastewater treatment technology. Thanks to their automated operation, the plants are easy to use and highly user-friendly. The treatment process is reliably conducted under the supervision of a logic controller, and monitoring the operation could not be easier. For example, a signal light indicates a need to add chemicals. Shared treatment plants can be conveniently monitored and controlled with the GSM remote monitoring system.

Ensure the operability of your plant with a maintenance agreement

Regular monitoring and maintenance guarantee a long and reliable service life for your miniature treatment plant. By making a WehoPuts maintenance agreement, you can ensure your plant will remain in top condition for years to come.

Daily water volume m³/d



Treatment plants for multiple households

WehoPuts 20-150

The WehoPuts 20-150 treatment plants have been designed to process the wastewater of multiple households or buildings. The systems are also well suited to row houses and small rural schools, for example. Professional designers will dimension and plan the shared solutions to suit each individual purpose.

Ease of use and savings with a shared treatment plant

A shared wastewater treatment plant for multiple households lends itself perfectly to a diverse range of environments, from densely built-up areas to villages comprising a mere handful of houses.

As these systems are often monitored and maintained by professionals, their ease of use is comparable to that of a municipal sewer system. In addition, acquisition, usage and maintenance costs per household are lower in shared solutions.

A complete system that is ready to install and use

The treatment plants are assembled at the factory to be completely ready for installation and use. Only sewer and electrical connections are made on site. A pre-dimensioned and designed anchoring package that further facilitates the installation process is also available for the plants. (Standard for WehoPuts 20).

Benefits

- Large safety volume
- Ready to install
- GSM remote monitoring
- Prompt installation
- Does not require external structures
- Costs shared evenly by multiple households



WehoPuts 20

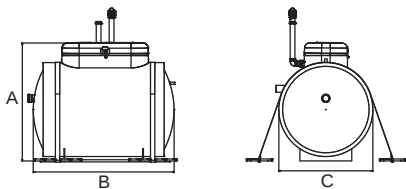


WehoPuts 150

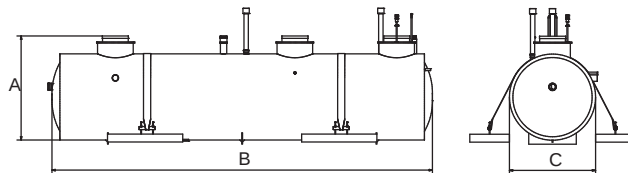


Technical data for WehoPuts 20-70

	WehoPuts 20	WehoPuts 30	WehoPuts 50	WehoPuts 70
Capacity m ³ /day	3	4,5	7,5	10,5
Weight kg	1100	1450	1800	2300
Dimensions mm				
- height (A)	2700	2680	2680	2680
- length(B)	3200	6000	8600	10200
- width(C)	2175	2175	2175	2175
Connections mm				
- inlet, or according to order	160	160	160	160
- outlet	50	50	50	50
- overflow	160	160	160	160
Electricity	230 V	230 V	230 V	230 V
Distribution board main fuse	1x10 A	1x16 A	1x16 A	1x16 A
Chemical tank l	50	500	500	500
Chemical consumption l/m ³	0,225	0,225	0,225	0,225
GSM remote monitoring	Standard	Standard	Standard	Standard
Anchoring package, pcs	Incl.in delivery	2	2	2



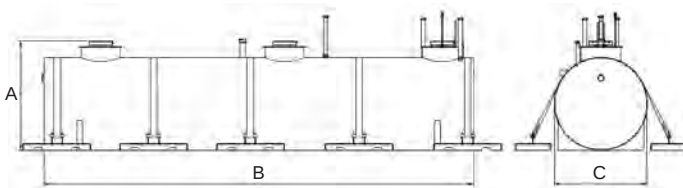
WehoPuts 20



WehoPuts 30-70

Technical data for WehoPuts 100-150

	WehoPuts 100	WehoPuts 120	WehoPuts 150
Capacity m ³ /day	15	18	22,5
Weight kg	3 200	3500	3 900
Dimensions mm			
- height (A)	3 075	3075	3 075
- length (B)	9 000	10500	12 700
- width (C)	2 600	2600	2 600
Connections mm			
- inlet	160	160	160
- outlet	50	50	50
- overflow	160	160	160
Electricity	230/400 VAC	230/400 VAC	230/400 VAC
Distribution board main fuse	3 x 16 A	3x16 A	3 x 16 A
Chemical tank l	1 000	1000	1 000
Chemical consumption l/m ³	0,225	0,225	0,225
GSM remote monitoring	Standard	Standard	Standard
Anchoring package, pcs	3	4	5



Treatment plants for small communities, WehoPuts 200–1200

The WehoPuts 200-1200 treatment plants have been designed to process the wastewater of villages and small communities. The treatment plants can be customized to suit any location, and the treatment process can be adjusted according to the load. Professional designers will dimension and plan the solutions to suit each individual purpose.

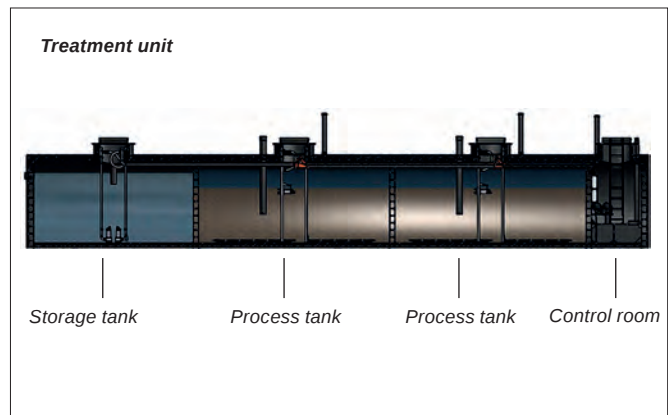
Out of sight underground

The WehoPuts system for villages and small communities comprises one or more laying tanks, which are placed underground, and the required process equipment. The treatment units are delivered from the factory ready to install in order to facilitate the inground installation at the worksite. Only the ventilation pipes and maintenance hatches will be left visible above ground.

The WehoPuts plants are delivered ready to install. The predesigned and dimensioned anchoring package further facilitates installation.

Savings in all expenses

The WehoPuts treatment plant for small communities reduces the acquisition costs of wastewater treatment as long sewer lines to the municipal treatment plant are not needed. In addition, acquisition, usage and maintenance costs per household and building are lower.



Benefits

- Large safety volume dampens load variations.
- Rigid and compact structure.
- Ready to install from factory.
- GSM remote control enables supervision and control of the treatment plant operation.
- Prompt installation.
- Placement in the ground does not require any reinforcements.
- Investment, use and maintenance costs per household are shared evenly.

Technical data for WehoPuts 200-1200

	WehoPuts 200	WehoPuts 300	WehoPuts 400–1200
Capacity m ³ /day	30	45	60–180
Number of households (5 pers./household)	40	60	80–240
Units, qty	1	1	According to project
Weight/unit kg	6000	6600	According to project
Dimensions mm:			
A (height)	3100	3100	3100 or according to project
B (length)	15760	19350	According to project
C (diameter)	2600	2600	According to project
Connections:			
Inlet/height from ground level (mm)	160/according to project	160/according to project	According to project
Outlet/height from ground level (mm)	2x50/according to project	2x50/according to project	According to project
Overflow/height from ground level (mm)	200/according to project	200/according to project	According to project
Electricity	230/400 VAC	230/400 VAC	According to project
Distribution board main fuse	3x25 A	3x25 A	According to project
Control centre fuse/unit	3x16 A	3x16 A	According to project
Chemical tank/unit	1000	1000	According to project
Chemical consumption l/m ³	0,225	0,225	0,225 or according to project
Anchoring package*	5 pcs	7 pcs	According to project
GSM remote monitoring	Standard/on a project basis	Standard/on a project basis	Standard/on a project basis

* Accessory

Larger plants are project specifically designed and are easily extendable. This makes them particularly suitable for areas developing over a longer period of time, enabling a cost effective treatment of a slowly increasing waste water flow. The plant can be built in stages, and the capacity increased as needed. In the initial phase the maximum design capacity of the plant is estimated and the storage tank and controls are dimensioned properly to enable easy future build stages. The capacity is then increased by adding process tanks and equipment to the system according to the need. The extensions can be built without disrupting the function of the plant.





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