

BioCompact®

BioCompact® P Series

The affordable small wastewater treatment system



Description

The BioCompact® P units are double wall plastic wastewater treatment systems designed to handle sewage from populations of up to 12 people, depending on the model (models P4-P12). They apply fixed-bed treatment system in combination with the activated sludge process used by state-of-the-art large municipal wastewater treatment plants. The BioCompact® P series models are cylindrical tanks designed for in-ground installation. The main body of the tank is below ground, and has a hinged lid with an access manhole at ground level. The installed and leveled unit is supported and surrounded by backfill sand or soil. As an in-ground installation, the BioCompact® P units typically do not require insulation against heat or cold, depending on climate conditions. The wastewater flow is by gravity, but certain topography conditions may require external pumps.

The BioCompact® P units are simple, easily transportable and relatively maintenance-free. These systems were developed by German engineers of the German companies Inno-Tec and BlueVita, and comply with the strict German wastewater treatment standards.

Unique Features

- The ControLogic™ system provides automated monitoring of the operation.
- The aeration requirement is electronically controlled.
- Durable plastic construction.
- Light weight.
- Easy transportation and installation.
- Low maintenance expenses: the blower is the only moving part.
- Superior treatment quality.
- Optional automatic effluent disinfection.

Applications

The BioCompact® P Series is the affordable, small wastewater treatment system of choice for a single house, cottage, lakeshore properties, and new developments.

BioCompact® P Series

Dimensions

Type	D (m)	H (m)	V (m ³)	W (kg)
P04	2.20	2.35	4.4	365
	2.50	2.40	5.8	435
P06	2.20	2.35	4.4	370
	2.50	2.40	5.8	440
P08	2.20	2.85	6.0	395
	2.50	2.40	6.8	445
P10	2.50	2.65	6.9	420
P12	2.50	2.90	8.0	485

Ordering Information

B	C	P	<<ORDER NUMBER>>	
		P		P Series
		0	4	4 person capacity
		0	6	6 person capacity
		1	0	10 person capacity
		1	2	12 person capacity
			0	no effluent disinfection
			1	effluent UV disinfection
			2	hypochlorite disinfection
			3	chlorine dioxide disinfection



PLEASE NOTE: Small wastewater treatment plants often discharge into natural wetlands, i.e. into an environment that regularly has a much higher bacteria concentration than the treated effluent. In these cases, the "routine disinfection" is often unnecessary expense, and actually harms the natural wetland into which the effluent is discharged.



Performance

The quality of the treated effluent is comparable to other state-of-the-art, municipal wastewater treatment plants, including nitrification and denitrification.

Installation

The unit is placed on the bottom of the excavated hole and then backfilled with a sand or soil. After connecting the BioCompact® to the influent and effluent pipes, and to electrical power, the system is ready for operation.

The aeration blower should be located in very close proximity to the unit, and installed in a small protective box, or an adjacent building. The control box should also be located in a place which is easily accessible.

Lifetime

The BioCompact® P units are exceptionally well designed and built, allowing a lifetime expectancy of more than 20 years.

Maintenance

Ordinary maintenance includes a regular check of the concentration of activated sludge. Non-degradable items, such as fibrous materials, plastic, rubber items, etc., sand, and the digested excess sludge accumulate over time and must be removed from time to time. The frequency of discarding this waste depends largely on the influent wastewater quality, and thus on the habits of the population connected to the treatment system.



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