

SBR wastewater treatment system



Klaro Easy
Inclusive power
failure recognition



The SBR wastewater treatment system Klaro Easy works according to the principle of SBR lifting technology. No live parts need to be installed in the tank. All movement processes are performed by three air lift pumps, which are operated using a compressor. The compressor also provides the plate ventilator on the bottom of the SBR reservoir with air. The compressor and all other technical components are low maintenance and stored in a switch cabinet, which can be installed in the plant room of the house.



System control
Klaro Easy

No live technology in the reservoir

The SBR wastewater treatment system Klaro Easy does not need consistent integration of live technology in the tank. All movement processes are performed by an air compressor, which is built into the Klaro system control. The distribution of air in the individual pump processes is realised via the control. The air compressor is very durable and whisper-quiet.

Low maintenance

The compact switch cabinet for system control with air compressor and valve unit is installed in the plant room of the house and requires little maintenance. The LCD display shows the operating hours

of the individual devices. Any power failure is indicated with a visual and audio alarm. All components installed in the switch cabinet are arranged in such a way that they can be exchanged very easily. This modular design saves a lot of time and, therefore, money on any maintenance or repair work.

Simple installation

The air pressure hoses of the reservoir and the corresponding connections to the system control are colour-coded. This avoids installation errors. Already fitted to the carrier system at the factory, so the whole system just needs to be fitted to the baffle of the reservoir. Thanks to the Klaro Easy carrier system,

the purifying technology is extremely fast to install.

Flexible, as expandable

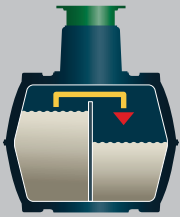
The SBR wastewater treatment system Klaro Easy can be flexibly adjusted to changing conditions by altering the cycle times. The system can also be switched to holiday mode. The aeration automatically adjusts to the load with the convenience package.

SBR wastewater treatment system



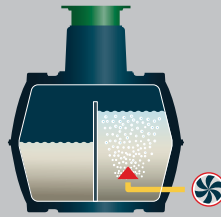
Cleaning process SBR system

With the SBR technology (sequencing batch reactor) there is separate primary treatment to retain the coarse material and a combined sludge activation and final treatment reservoir, the so-called SBR reservoir. This system comprises 2 chambers.



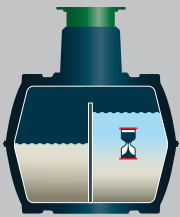
1 Charging phase

The wastewater first goes into primary treatment (1st chamber), where the solid substances are retained. From there, the wastewater is fed into the SBR reservoir (2nd chamber)



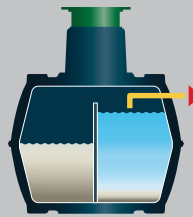
2 Aeration phase

The actual biological cleaning by microorganisms now occurs in the SBR reservoir. Short aeration and rest phases interchange in a controlled cleaning process. The so-called activated sludge can now develop with millions of microorganisms and clean the water thoroughly.



3 Rest phase

A rest phase now follows, during which the live sludge sinks to the bottom of the system. This allows a clarified water zone to form at the top of the SBR reservoir.



4 Sewage water draw-off

The purified wastewater is now fed into a discharge system (stream, river, sea) or into a infiltration system. Afterwards, the sludge is fed back from the SBR reservoir into the first chamber.

Klaro Easy one-reservoir system



Inhabitants [max.]	Total volume [ltrs]	Capacity [ltrs]	Length [mm]	Width [mm]	Height [mm]	Weight [kg]
2-4	3750	3750	2280	1755	2200	175
4-6	4800	4800	2280	1985	2430	220
6-8	6500	6500	2390	2190	2710	265

One complete system consists of: 1 Carat S underground tank with baffle, 1 telescopic dome shaft, system pack Klaro Easy for one-reservoir system

Klaro Easy two-reservoir system



Inhabitants [max.]	Total volume [ltrs]	Capacity [ltrs]	Length [mm]	Width [mm]	Height [mm]	Weight [kg]
2-4	5400	2x2700	2080	1565	2010	120
			2080	1565	2010	120
4-8	5400	2x2700	2080	1565	2010	120
			2080	1565	2010	120
8-10	7500	2x3750	2280	1755	2200	150
			2280	1755	2200	150
10-12	9600	2x4800	2280	1985	2430	185
			2280	1985	2430	185
12-18	13000	2x6500	2390	2190	2710	220
			2390	2190	2710	220

One complete system consists of: 2 Carat S underground tanks, 2 telescopic dome shafts, system pack Klaro Easy for two-reservoir system