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GRAF Wastewater Treatment

The KLARO E Professional

With SBR lifting technology, the GRAF KLARO E Professional Wastewater Treatment System requires no live parts 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.





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No Live Technology in the Reservoir

No consistent integration of live technology is needed in the tank. All movement processes are performed by an air compressor, built into the KLARO system control. The distribution of air in the individual pump processes is realized via the control. The air compressor is very durable and whisper-quiet.

Simple Installation

The air pressure hoses of the reservoir and the corresponding connections to the system control are colour-coded to avoid installation errors. Already fitted to the carrier system at the factory, the whole system just needs to be fitted to the baffle of the reservoir. Thanks to the KLARO E Professional carrier system, the purifying technology is extremely fast to install (one-reservoir system).

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 easily.

Flexible

The KLARO 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.





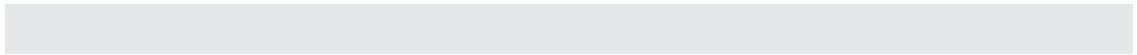
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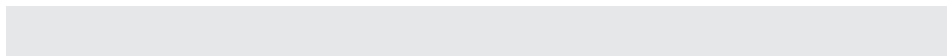
Annual Power Consumption of Wastewater Treatment Systems

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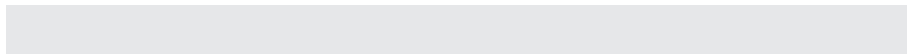
Sludge
activation
systems



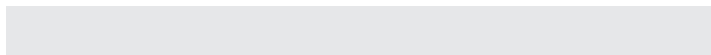
Fixed bed
system



Fluid bed
systems



Standard
SBR
Systems



Energy-
saving
lightbulb





The KLARO E Systems

Choose from one- and two-reservoir systems

One-Reservoir System

Max Inhabitants	USG	IG	LTR	Daily Flow (LPD)	Length (in)	Height (in)	Weight (lbs)
5	713	594	2700	750	82	79	309
8	990	820	3750	1200	90	87	385
10	1270	1050	4800	1500	90	96	485
14	1720	1430	6500	2100	94	107	585

Two-Reservoir System

Max Inhabitants	USG	IG	LTR	Daily Flow (LPD)	Length (in)	Height (in)	Weight (lbs)
10	1420	1190	5400	1500	90 (x2)	79 (x2)	430
16	1980	1650	7500	2400	90 (x2)	87 (x2)	660
22	2540	2100	9600	3300	90 (x2)	96 (x2)	820
28	3430	2860	13000	4200	94 (x2)	107 (x2)	970

Cleaning Performance Values

Wastewater Parameter	Cleaning performance	Efficiency Factor
Chemical Oxygen Demand	48 mg/l	92.30%
Biochemical Oxygen Demand	6 mg/l	97.50%
Ammonium Nitrogen	8.3 mg/l	75.80%
Total Suspended Solids	7 mg/l	96.70%