

one2clean installation instructions

one2clean

Item no. 106850

Set-up kit 3 inhabitants

106851 Set-up kit

5 inhabitants

106852 Set-up kit

7 inhabitants

106853 Set-up kit

9 inhabitants



It is essential that you observe the points described in these instructions. Failure to do so will invalidate all warranty claims. For all additional items ordered from GRAF, separate installation instructions will be provided in the transport packaging.

It is essential that you check the components for possible damage before installation.

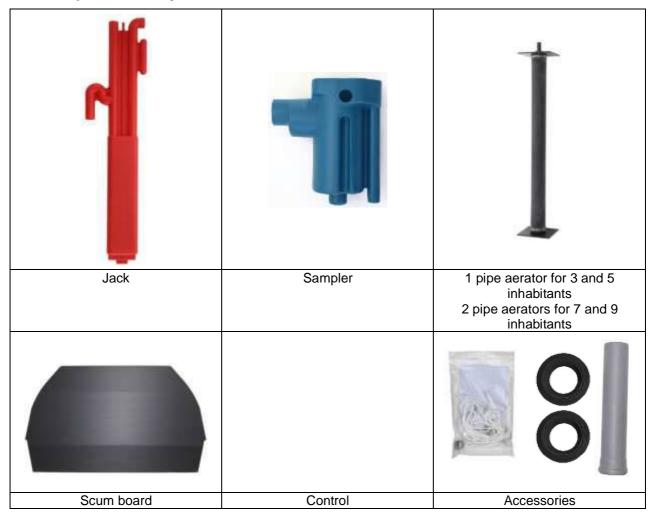
You will receive separate instructions for assembling the system.

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1. Scope of delivery

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The following is not included in the scope of delivery:

 Hoses to supply air from the control cabinet to the septic tanks. One 13 mm air hose and one 19 mm air hose are required.

They can be ordered under the following item numbers:

Hose package, 5 metres	107685
Hose package, 10 metres	107686
Hose package, 15 metres	107687
Hose package, 20 metres	107688

The hose packages each contain one 13 mm air hose and one 19 mm air hose. Alternatively, the hoses can be ordered as rolled goods:

PVC hose, 20 metres, black, 13 x 3 mm	934017
PVC hose, 20 meters, blue, 19 x 3 mm	934020

- Core drill with a diameter of 124 mm. This can be purchased from Otto Graf GmbH using item number 202003.
- The Carat S septic tank and covers are to be ordered separately.

2. Notes

2. Notes

2.1 Safety

Observe the national accident prevention regulations during all work. Particularly for inspecting the tanks, a second person is required for safety reasons.

Furthermore, observe the valid national regulations and standards during installation, assembly, maintenance and repair work, etc.

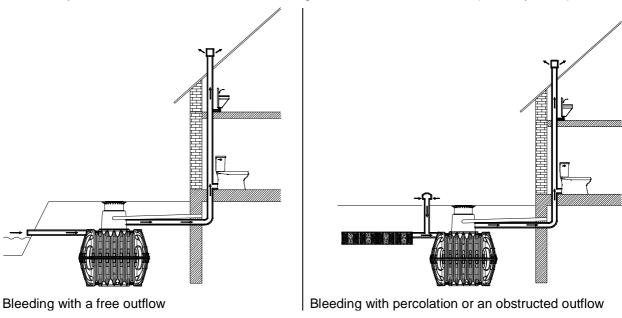
During all work on the system or parts thereof, always shut down the entire system and secure it against unauthorised re-start.

Always keep the tank cover closed, except when working in the tank. Otherwise, there is a high risk of an accident occurring. Only genuine GRAF covers or covers that GRAF has approved in writing must be used.

GRAF offers an extensive range of accessories, which are all coordinated to one another and can be expanded to form complete systems. The use of other accessories can impair the functionality of the system and invalidate the warranty for any damages caused as a result.

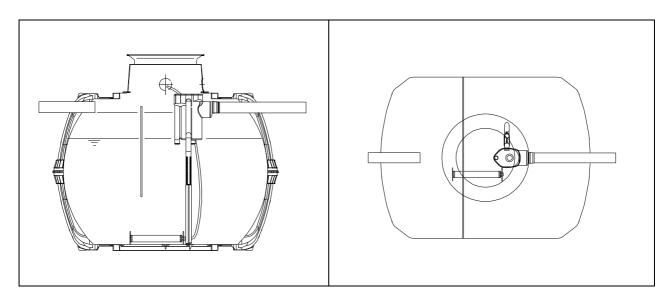
2.2 Ventilation and bleeding

All tanks must be ventilated and bled. Additional ventilation lines or ventilation openings must be ordered if necessary. Ventilation lines should be ordered to guarantee natural ventilation (chimney effect).



3. Construction and functional principle

3. Construction and functional principle



The small wastewater treatment system is fully biological and works according to the retention process with long-term aeration. The system is made up of an aerobic stage. A scum board is used to split this stage into a coarse substance chamber and an activation chamber. The chambers are connected to one another in the bottom section. During this process, therefore, all domestic sewage is immediately exposed to aerobic wastewater treatment. The entire system is aerated due to compressed air being blown in and the sludge activated as a result of this biologically cleans the wastewater.

4. Assembling the set-up kit

1.



Unfold the scum board. Place the clamps on either side of the folding edges.



Insert the scum board into the upper shell. A groove offsets in an off-centre position.

3.



Fix the partition wall with the U-clamps.



Continue assembling the Carat S tank according to the installation instructions (seal, centring pins, lubricant).

5.



Place the upper shell with the scum wall on top of the lower shell. Assemble the clamps for connecting the upper and lower shells.



Assemble the clamps for connecting the upper and lower shells.

4.

6.

2.

7.



Drill the inflow and outflow with a DN 100 core drill (with a diameter of 124 mm).

Austault Outflow
Sortio Salfida

8.

10.

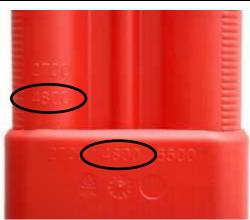
12.

De-burr the hole. Insert the DN 100 lip seal. In the case of the outflow, the direction of the feed-through must be from the inside out. Affix the "Outflow" sticker.

9.

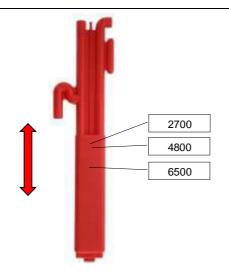


Slide the outflow pipe through the outflow hole from the inside.



The jack base must be turned depending on the tank size. The specified tank size on the base must be the same as on the jack.

11.



Depending on the tank size, the length of the jack must be adjusted by moving the jack base. The rough position is specified on the jack. The exact height is to be determined inside the tank.



Assemble the jack and sampler. To do this, push the jack outflow into the sampler hole.

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13.



Push the jack into the sampler (until it snaps into place).



Insert the jack into the tank along with the sampler.

15.



Insert the jack into the profile for holding the partition wall from above.



Insert the sampler's outflow connection into the sleeve of the outflow pipe (use lubricant!). The sleeve connection must be secured with a Spax screw.

17.



The cord must be secured to the pipe aerator (6 mm hole). The air hose (19 mm) must be connected on the opposite side. Systems for more than 7 inhabitants have two pipe aerators.



Position the pipe aerator(s) on the bottom of the tank. It must be slid under the scum board such that even the first chamber is ventilated. Secure the cord to the hose using a cable tie.

18.

14.

19.



In systems with two pipe aerators, use a Y-piece to join the hoses of the two pipe aerators.



Assemble the tank dome according to the installation instructions (seal!).

22.

21.



Secure the sampling tank to the tank dome with a Spax screw.



Connect the air hose (13 mm) to the in-feed jack.

5. Assembling the control in the interior

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1.



The control must be installed in a dry and dustfree interior. Two 8 mm holes must be drilled into the wall for assembly.



2.

4.

Secure the control to the wall using the dowels and screws provided.

3.



Position the compressor on the control. Connect the compressor to the control unit pipe using the 90 Deg hose piece and hose clamps provided. Plug the compressor plug into the control socket.



Connect the air hoses to the control's hose nozzles.

5.



For further information please refer to the Control Unit operating manual.

6. Montage der Steuerung im Außenschaltschrank

Montage der Steuerung im Außenschaltschrank

1.



Please refer to the installation instructions for the External Cabinet for electrical connection details.



2.

4.

Prior to installation of the Control Unit, ensure the spacer has been fitted to the back of the Control Unit.

3.



The Control Unit should be mounted to the external cabinet with the screws and wing nuts provided.



Position the compressor on top of the Control Unit and connect together using the 90 Deg hose piece and hose clamps provided.

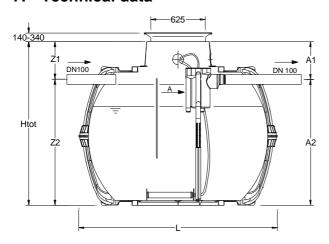


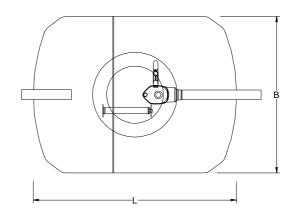
For further information please refer to the Control Unit operating manual.

5.

7. Technical data

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Tanks	2,700 l	3,750 l	4,800 I	6,500 l
Inhabitants	1-3 inhabitants	4-5 inhabitants	6-7 inhabitants	8-9 inhabitants
Max. daily inflow	0,45 m ³ /d	0,75 m ³ /d	1,05 m ³ /d	1,35 m ³ /d
Length L	2,080 mm	2,280 mm	2,280 mm	2,390 mm
Width B	1,565 mm	1,755 mm	1,985 mm	2,190 mm
Height H	1,690 / 2,010* mm	1,870 / 2,200* mm	2,100 / 2,430* mm	2,380 / 2,710* mm
Inflow E	200 / 520* mm			
Outflow A	470 / 800* mm			

^{*} with Maxi tank dome