

Installation Instructions for the Installation and Fitting of the External Switch Cabinet for one2clean

Art. No. 107990



The points described in these instructions are to be respected without fail. If they are not respected, any claim under guarantee will be considered null and void. For all additional articles obtained by way of GRAF, you will be provided with separate installation instructions enclosed in the transport packing.

The components must be examined without fail for any damage before placing the unit in the trench.

Separate instructions will be provided for the operation and maintenance of the installation.

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1. Scope of supply and accessories

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1.1 Scope of supply

The external switch cabinet for EPP consists of the lower part and the cover hood with:

- Lock security pin with installation material
- 2 locking screws, M8, for fitting the one2clean control unit (wing nut and washer enclosed with the one2clean control unit).
- Cable screw connection M20x1.5 for power supply

1.2 Accessories required

The installation of the switch cabinet requires the following items:

- Empty pipe closure element, rated diameter 100 for the gas-tight closure of the technical connection pipe
- KG pipes, rated diameter 110, as technical connection pipe to the clarification system
- Earth contact coupling for the electrical connection of the control unit

2. Choosing the location

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When choosing the location for the cabinet, the following points must be borne in mind:

- During the summer months the location should be protected from direct sunshine.
- The rear face of the cabinet must be placed with at least 10 cm of clear space from the nearest wall.
- Operation can be noisy! The air compressor produces a sustained noise of long duration when in operation (comparable to an oil heating fan or a freezer cabinet).
- The air hoses should not be longer than 20 metres.
- The switch cabinet must not be allowed to stand in ground water. This also applies to ground water or backed-up water which only occasionally occurs.
- Power supply is to be via a separately fused power connection (16 Ampere, time-lag). Any additional consuming components on the same fuse can interfere with operations.

The connection of the empty technical supply pipe is effected to the side of the cabinet with the aid of a cable connection socket with rated diameter of 110.

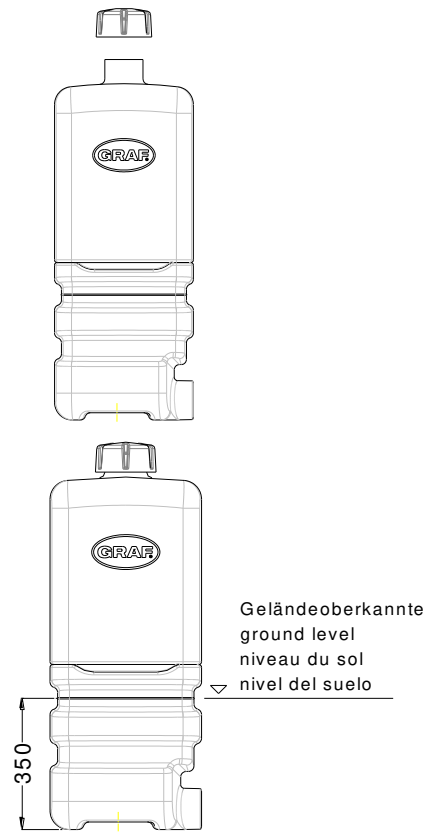
3. Installing the cabinet in the earth

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The black venting outlet is to be fitted onto the cover of the cabinet.

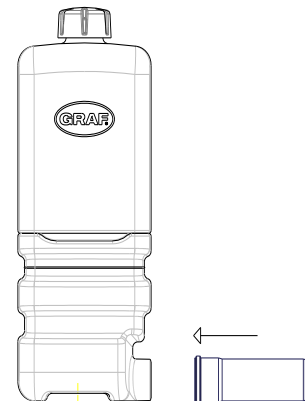
An adequately large trench is to be dug, with the installation depth of the cabinet being 35 cm. The cabinet is then placed in the trench. As backfill material, only cohesive excavated soil may be used, free of any stones. In the event of the excavated material being unsuitable, round grain gravel (maximum granulation 8/16) is to be used.

Care must be taken to ensure that the cabinet is standing firmly and vertically upright in the excavation.



3.1 Connecting the empty technical supply pipe to the clarification system

The empty technical supply pipe is connected via a pipe plug with rated diameter of 110 to the socket provided for this purpose.



3.2 Introducing the earth cable for the power supply

The power cable is to be introduced into the cabinet by way of a M10x1.5 cable screw connection (suitable for cable diameters of 8-13 mm).

A drill hole with diameter of 20 mm is to be provided for this purpose.

3.3 Electrical connection



Provide fuse for the connection

The electrical connection of the switch cabinet may only be carried out by a qualified electrician.

The power supply requires an earth cable to be laid to the cabinet. **This cable must be fused with a 16 Amp fuse via the in-house installation, and must be capable of being isolated from the mains network.**

The connection for the control unit must be provided via a fused contact coupling to be provided by the client.

4. Fitting the closure unit

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The lock security pin is to be inserted through the cover from the inside to the outside. Securing is provided with the M4x12 screws.

5. Fitting the one2clean control unit

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5.1 Inserting the one2clean control unit

The one2clean control unit is secured with the locking screws and wing nuts provided. For this purpose the screws are to be introduced from the outside into the interior.

The securing material which is enclosed with the one2clean control unit is not required.



5.2 Connecting the air hoses

The air hoses are conducted via the empty pipe laid in the earth to the planned location of the cabinet. The hoses are to be shortened in such a way that they are not under any tension and cannot be kinked. The hoses are to be connected to the hose sockets on the control unit. For the fitting we recommend that the ends of the hoses be warmed.



Close off the
empty pipe

The empty pipe must be closed off at least on the side of the control unit, so that any gas exchange by way of this pipe can be excluded (explosion protection, moisture, odours).

For this purpose we recommend the GRAF empty pipe connection made of PE foam material (Art. No. 107887).

5. Fitting the one2clean control unit

5.3 Fitting the GRAF empty pipe closure element made of PE foam material



Feed the hoses out of the empty pipe into the corresponding holes in the pipe closure element.



Push the hose through the thin topmost layer. The punch residue remains attached to the hose ends.



Cut off the hose ends in order to remove the punch residue.



Push the empty pipe closure element into the empty pipe so that it is securely closed off.

6. Dimensions

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