

Operation and Maintenance Instructions

Oil Water Separators SC series

2,000l
3,000l
4,000l
5,000l
8,000l
10,000l



It is imperative to observe the items described in these instructions. In case of non-compliance, all warranty claims shall lapse. For all add-on items from GRAF, you shall receive separate installation instructions included with the transport packaging.

Please check for updates of this manual with the distributor of choice or request it from GRAF directly.

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1. Safety notice

1. Safety notice

The applicable accident prevention regulations in accordance with the Work Health and Safety Act 2020 (WHS Act) and Work Health and Safety (General) Regulations 2022 (WHS Regulations) must be observed during all work. The work must be performed by a licensed plumber and a second person should be present for safety reasons.

Furthermore, all relevant regulations and standards must be observed during assembly, installation, maintenance and repair. All installation of fittings and arrangements to be undertaken by a suitably qualified plumber.



The tank cover must remain closed at all times, otherwise there is an increased risk of accident.



The rain protection mounted at delivery only serves as packaging for the transport only. It must be removed immediately upon delivery and replaced by an appropriate cover (telescopic dome shaft with respective cover). Only original GRAF covers or covers approved in writing by GRAF must be used.

All GRAF manufactured tanks comply with AS/NZS 1546.1 and are subjected to our quality system which is QMS:ISO 9001 certified.

GRAF offers a wide range of accessory parts which are precisely coordinated and can be used to complete systems. The use of different accessory parts can lead to impact the functionality of the system, and to void liability for consequential damages.

2. Operation and Maintenance

2.1. Note

Prerequisites to ensure fault free operation of this tank are compliance with Water Services Licensing (Plumbers Licensing and Plumbing Standards), Regulations, and latest versions of AN/NZS 3500.1 and AS/NZS 3500.2, as a matter of principle. Beyond these prerequisites, the instructions from GRAF Assembly and Installation manual and GRAF Operation and Maintenance manual are essential.

The authorities can demand to be shown all operational records and documents during an inspection. Those companies which operate the plant conscientiously and are able to provide carefully compiled documentation and all the necessary records tend to be subject to fewer inspections.

2.2. Operation

The tank cover must remain closed at all times.

An oil sensor and a sludge sensor must be adequately positioned and operational prior to accepting any water in the tank.

Sizing is to be determined by the hydraulic design consultant to ensure the trade waste acceptance criteria are met.

GRAF Oil Water Separators must not receive any incompatible waste streams that interfere with the pre-treatment performance. This constitutes wave of warranty. The material trapped in the tank must be removed regularly as part of 2.3. Inspection routine.

Unauthorised removal of components of the separator system is not permitted. Any damage to system components or operational faults must be repaired immediately by a specialist company on the operator's own initiative.

2.3. Inspection

GRAF covers allow inspection from the shaft. An oil sensor and a sludge sensor must be inspected for their functionality as per electrical approved provider's instructions in order to be reliable at alerting in due time for schedule of 2.4 Maintenance. No work needs to be undertaken inside the tank.

In the case of need for a service, a disposal servicing should be performed by a licensed liquid waste transporter (please refer to 2.4. Maintenance).

2. Operation and Maintenance

Once sufficient experience in how the system operates has been gained, the definitive intervals for inspection can be determined.

If faults were identified, they must be rectified immediately.

2.4. Maintenance

The tank might need to be serviced at regular intervals if specified by the local authority guidelines (e.g. for installations under Sydney Water jurisdiction clean outs are due in 13-week maximum intervals, unless an exemption be granted). If not specified by the local authority, servicing is typically made over 3-, 6- or 9-month intervals, depending on how quickly the device accumulates contaminants. The 2.8. Operational Log may signal for a decrease in service frequency if monitoring indicates that device take longer to accumulates contaminants. Additionally, maintenance must be done when deemed required by 2.3. Inspection (which include the alerting from the sensor system).

The disposal servicing should be performed by a licensed liquid waste transporter. The service is to be made by inserting the vacuum hose into access lid and removing the sludge and/or the oil. In the occasion of a complete drainage, the subsequent refilling of the separator system must be undertaken using water which complies with the local supply provisions. The closing device should be floating freely. The sensors positioning should not be disturbed. The coalescing unit must be installed and cleaned or replaced if required. All relevant legal provisions on waste disposal must be complied with in disposing of the materials removed from the system.

2.5. Sensors Considerations

- Each sensor should be designed specifically for that target (overflow, oil, or sludge) and be connected to control panels that should issue an alarm if its target is detected.
- GRAF cannot be held liable for direct or indirect damage caused by neglecting the instructions provided or directives, standards, laws and regulations regarding the installation, intended purpose, and requirements of the sensors.
- The sensors must be installed, commissioned and cleaned according to sensor's supplier instructions.
- Typically, oil sensors are installed 10cm above the shutting of the device, and sludge sensors are installed at 50% capacity of the total sludge storage capacity.
- Different criteria may be determined by the hydraulic design consultant given the spill event of concern, proposed servicing intervals, and any maintenance constraints.
- Different safety factors should be applied depending on the lead time for servicing that the assigned licensed transporter may require subsequent from alarm notification.
- Please contact GRAF with the criteria selected for the system and the information will be arranged accordingly.

2. Operation and Maintenance

2.6. Sampling

Sampling should be obtained from the sampling point instead of the access lid to adequately portray the system performance.

2.7. What to Do in the Event of a Fault

If the water is no longer able to flow freely through the tank:

- stop any further trade waste flows entering the unit immediately
- inspect the pit as per 2.3 Inspection
- notify the company assigned for 2.4 Maintenance

2.8. Operation Log

An operational log, in which the dates and results of the inspections undertaken, maintenance undertaken, sampling, and the remedying of any faults identified are documented, must be maintained.

The operational log must be stored by the operator and must be presented to the local responsible authorities which the system feeds into if requested.

2.9. Sample of suggested Operation Log

Insert day	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Was the oil alarm triggered?												
Was the sludge alarm triggered?												
Was the high-level alarm triggered?												
Was the float checked for free floating?												
Was the warning system functionality checked?												
Was the sludge removed?												
Was the oil removed?												
Was there a complete drainage?												
Coalescing unit was cleaned?												
Was sampling performed?												
If yes, were the sampling results transferred to the Operation Log?												

Sampling results:

Comments: