

ACO Grease Trap, AGT40, AGT80 and AGT120

Instruction Manual



AGT-40




AGT-80



AGT-120

Introduction

ACO BD UK (hereafter referred to as „ACO“) would like to thank you for the confidence you have placed in us. You have purchased an ACO product, which is a state-of-the-art solution that was tested prior to delivery as part of our quality control process to ensure it is in proper condition.

 Illustrations in this manual are provided for basic understanding and may vary depending on the system model and installation situation.

Service

The installer of the ACO Grease Trap is:

Name:
Address:
Tel. number:
email:

Please contact ACO Customer Service if you require further information.

ACO Building Drainage

Tel.: + 44 (0) 1462 810411

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Bedford MK41 0LF, UK


abdcommercial@aco.co.uk

Warranty

For information on warranties, see „General Terms and Conditions“,


Use of symbols

Symbols are used to draw your attention to particular information in these operating instructions as follows:

 Tips and additional information to make your work easier

■ Bullet point

→ Steps to be carried out in the specified order

 References to further information in these operating instructions and in other documents

 Warnings

Grease Trap

for undersink stationary application in frost-free areas

EN

Grease Trap, AGT-40



Grease Trap, AGT-80



Grease Trap, AGT-120



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1 For your safety






Read the safety instructions before installing and operating the grease trap, in order to prevent personal injuries and damage to property.

1.1 Personnel qualifications

Activities	Person	Knowledge
Layout, operational changes	Planners	Knowledge of building systems and services, evaluation of wastewater technology application cases. Layout of grease separators and drainage systems. Normative specifications and directives
Installation	Skilled persons	Sanitary installation
Operation Monitoring	Operator	No specific requirements
Daily grease extraction, weekly disposal and cleaning	Properly qualified personnel	Approved waste disposal contractor *
Disposal	Qualified technicians	Correct, environmentally compatible disposal of materials and substances, knowledge regarding recycling
<p>* Definition of "properly qualified technicians": Properly qualified personnel are personnel of the operator or designated third parties, who by virtue of their training, knowledge and practical experience ensure that they carry out assessments or tests and inspections in the respective field properly.</p>		


1.2 Personal protective equipment

Personal protective equipment must be made available to the personnel.

Mandatory sign	Meaning
	Safety footwear provides good slip resistance, especially in wet conditions, as well as a high degree of penetration resistance (e.g. in case of nails) and protects the feet from falling objects (e.g. during transport).
	Protective gloves protect the hands from infection and from minor bruising and cut injuries.
	Protective clothing protect the skin from infection and from minor bruising and cut injuries.

1.3 Warnings

Warnings are indicated in these operating instructions by the following warning symbols and signal words.

Warning symbol and signal word		Explanation	
	CAUTION	Injuries	Hazard with a low degree of risk which, if not prevented, may lead to minor or moderate injuries.
	ATTENTION	Damage to property	Gefährdung, die, wenn sie nicht vermieden wird, eine Beschädigung von Produkten und deren Funktionen oder einer Sache in der Umgebung zur Folge haben kann.

1.4 Transport and storage

ATTENTION Observe the following with regard to storage and transportation:

- Store the system in frost-free rooms.
- Check the load bearing capacity of the lifting gear: It must be at least equivalent to the indicated weight plus safety margin.
- When using a crane or crane hook to transport the system:
 - Fasten the belts to the pallet or to system components that can bear the load.
 - Never stand under a suspended load.
 - Make sure that no other people can access any part of the danger area.
 - Avoid swinging movements during transportation.

1.5 Disposal

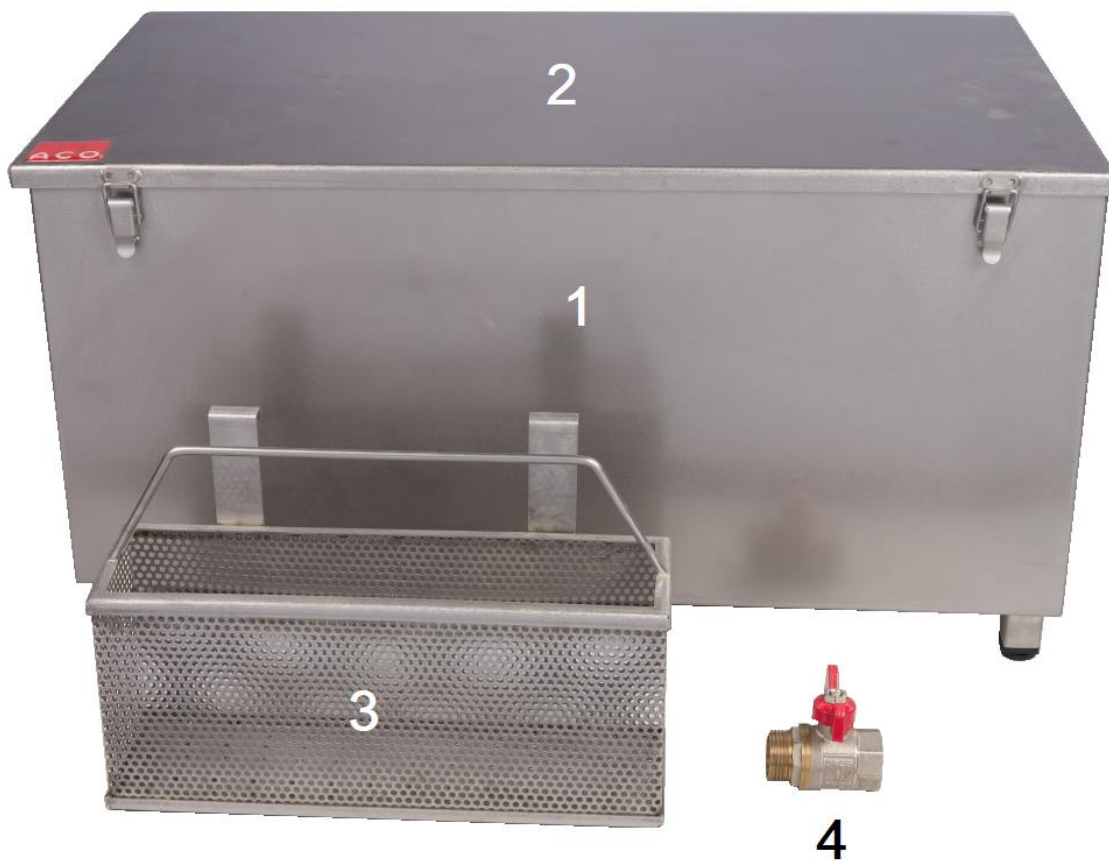
When decommissioning the system, empty it completely and clean it.

Incorrect disposal constitutes an environmental hazard. Comply with regional disposal regulations.

- Separate components by materials
- Recycle components

2 Product Description

2.1 Scope of supply



1 = Main Grease trap tank
2 = Grease trap lid

3 = Debris basket
4 = Drain valve

2.2 Product features

2.2.1 Grease Trap, AGT

Technical features

- Tank of stainless steel, material 1.4301/AISI 304
- For free standing installation in frost-free areas
- One-piece tank
- Inlet and outlet baffle
- Horizontal connection ID 40 mm for connection with on-site inlet piping
- Horizontal connection ID 50 mm for connection with on-site outlet piping
- Horizontal connection R 1 " sealed, for connection with discharge valve on-site
- Tank lid of stainless steel, 1.4301/AISI 304 with rubber seal to prevent odours escaping
- Removable tank lid over the full length and depth of trap for easy access
- Debris basket, material 1.4301/AISI 304
- Drain valve BSP 1

Operating features

- Daily disposal of separated grease through inspection opening
- Weekly disposal and cleaning of tank after previous disconnection of inlet and outlet piping

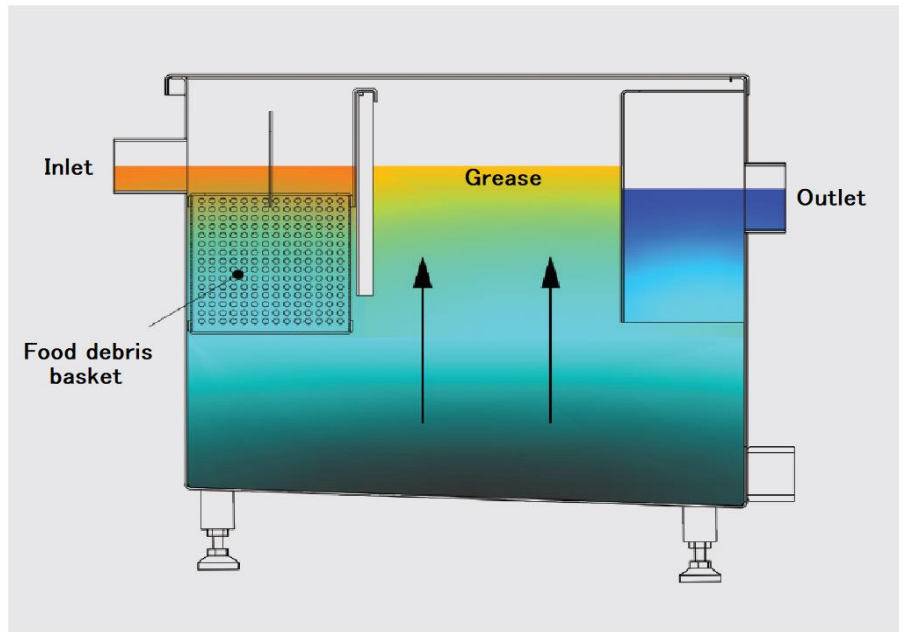
2.3 Components



- 1 = Stainless steel lid with seal
- 2 = Lid clips
- 3 = Connection for ID 50 mm for outlet piping
- 4 = Tank
- 5 = Drain valve 1"
- 6 = Product label

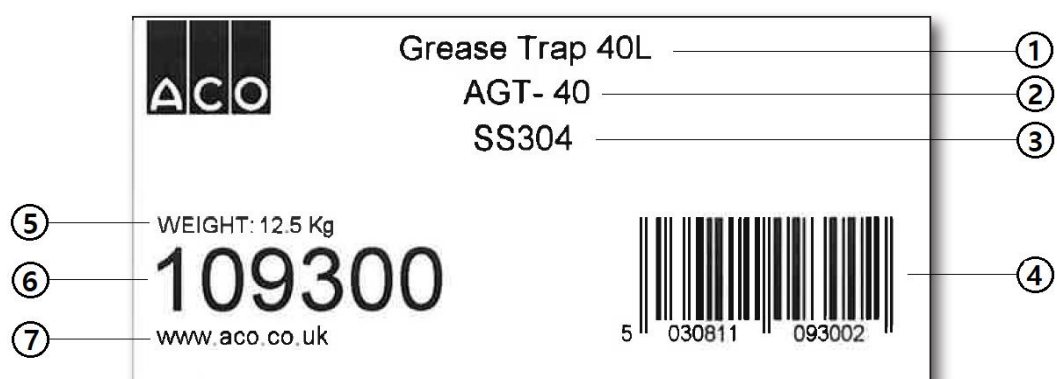
- 7 = Outlet box
- 8 = Inlet baffle
- 9 = Connection for ID 40 mm for inlet piping, including flow restrictor
- 10 = Food debris basket
- 11 = Adjustable feet

2.4 Functional principle



Grease separators work purely physically as per the gravity principle (difference in density). Fats, oils and grease (=FOGs) of animals or vegetables have a lower density than water and will collect on the surface. Heavy substances sink to the bottom into the sludge trap.

2.5 Product identification (Product label)



- 1 = Product description
- 2 = Model number
- 3 = Material
- 4 = EAN product bar code

- 5 = Grease trap nett weight
- 6 = Part number
- 7 = Website for more information

3 Installation

ATTENTION

- Make sure the staff members have required qualification, 📖 Chap. 1.1 “Personnel qualifications”.
- National regulations with respect to installation area have to be taken into account.

3.1 Installation examples

ACO Grease Trap, AGT

Below example shows the installation in a typical kitchen environment. Depending on the local conditions, the installed components may differ



3.2 Erection installation

3.2.1 Erection specifications

- If possible near the source of wastewater generation in well-ventilated, frost-free areas, public thoroughfares and storage spaces. Easy accessible for assembly, operation, disposal, cleaning and maintenance works.
- Horizontal floor suitable for bearing the corresponding load.

3.2.2 Connection requirements

Inlet pipe requirements

- Wastewater is to be fed into the grease separator in a free fall of at least 2 % (1:50).
- Intake pipes must be made of materials resistant to fatty acids (e.g. PP, PE).

Outlet pipe requirements

- Outlet piping has to be installed with slope towards a public gully.
- Outlet pipes must be made of materials resistant to fatty acids (e.g. PP, PE).

Disassembly

ATTENTION Simple disassembly of connections (e.g. through usage of double sockets) for disposal of tank content has to be respected.

3.2.3 Tools and parts required for installation



Flexible pipe couplers
ID 53 and ID 42 mm

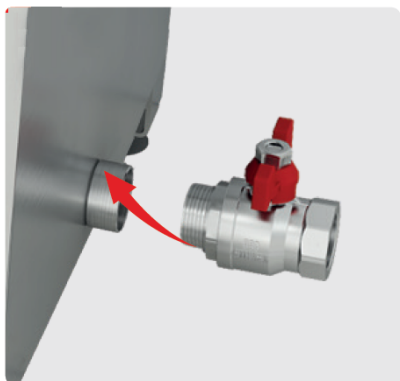


Flathead screw
driver



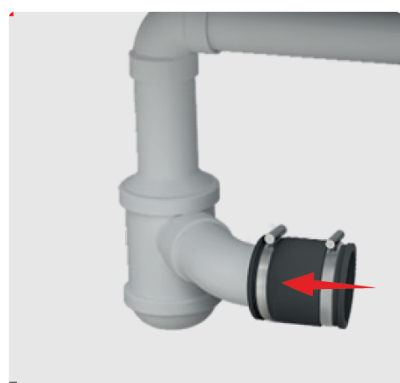
Thread tape

3.2.4 Installation instructions



Before assembly of the drain valve to the grease trap, use the thread tape on the thread of the drain valve to ensure a watertight connection.

Then proceed to mount the drain valve to the grease trap.



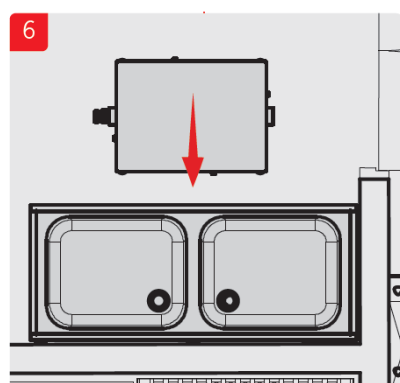
Attach the ID 42 mm flexible connector to the inlet pipe, but keep it loose and don't tighten the screws.

Ensure that the height of the inlet pipe is approx. at the same level as the grease trap inlet.



Attach the ID 53 mm flexible connector to the outlet pipe, but keep it loose and don't tighten the screws.

Ensure that the height of the outlet pipe is approx. at the height of the grease trap outlet.



Move the grease trap into position and connect the flexible connectors to the in- and outlet.

The adjustable feet can correct the height, if the in-/outlet piping is not entirely aligned with the in-/outlet of the grease trap



installation instructions continued



Once the in- and outlet of the grease trap are aligned with the piping, adjust the levelling feet to create steady base for the grease trap.

Fasten all screws tightly so no water can seep past the connectors.



Do not use P-trap in the outlet piping of the grease trap.



Commissioning

The commissioning has to be recorded.

- Clean device.
- Open valves in both inlet and outlet pipe (if available).
- Fill grease trap with water until operating level (outlet invert) has been reached:
 - through inlet pipe (sink)
 - or through grease trap lid
- Close inspection opening
- Check installation for leakage.


Grease trap is now operational.

4 Operation



CAUTION

Danger of contamination when in direct contact with wastewater

- Wear protective gear,  Chap. 1.2 "Personal protective equipment".

ATTENTION If a discharge valve have been installed, this poses a risk if not handled with care (tearing of components).

4.1 Disposal and cleaning

Requirements:

- The separated grease has to be removed on a daily base.
- At least every week and after each change of installation area, the separator has to be completely emptied and cleaned.

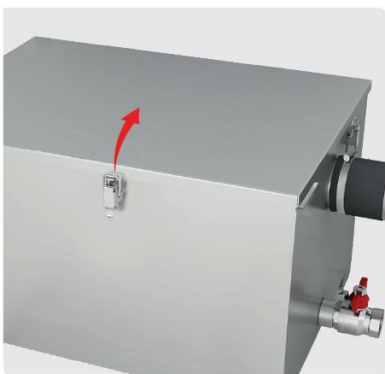


Date and address of disposal contractor has to be noted in the operating log.

Barrels with 60 litres are optionally available from ACO (part number: 00355),

This barrel can be used to store the grease until its maximum capacity has been reached. The barrel then needs to be transported to (or carried away by) a disposal contractor. It is recommended to keep at least two barrels on site.

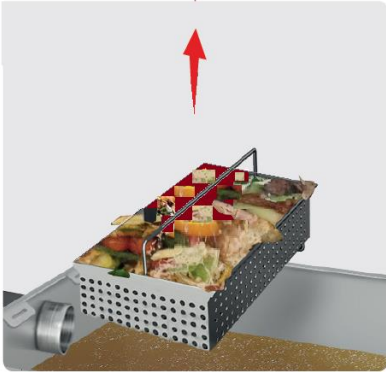
4.1.1 Daily maintenance



Emptying debris basket

- Stop flow through the grease trap.
- Open the grease trap lid

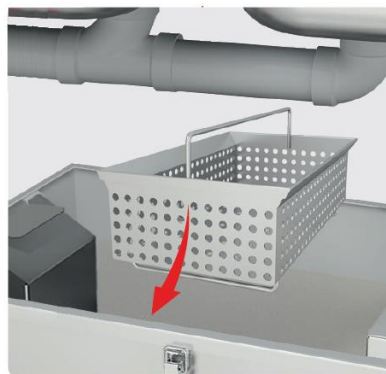
Daily maintenance - continued



Remove debris basket from the grease trap.



Dispose of the waste responsibly, 60 litre barrels are available from ACO (part number 00355)



Place the debris basket back into the grease trap

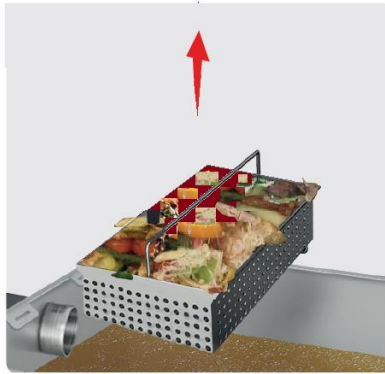
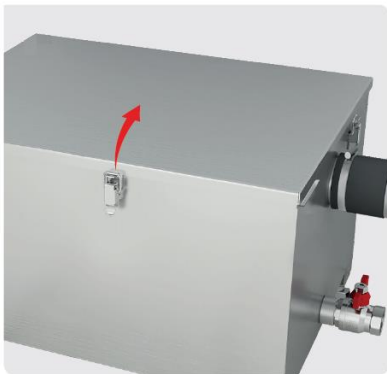


Place the lid back onto the grease trap and lock airtight using the latches.

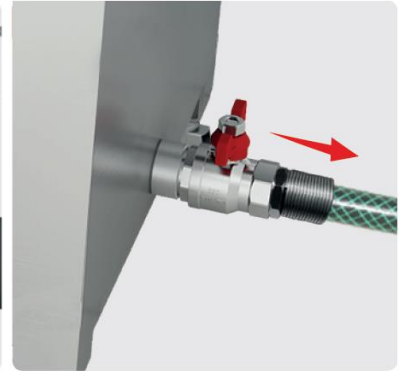
4.1.2 Fortnightly maintenance

ATTENTION Fortnightly maintenance is an recommendation for grease traps which are placed under normal operating conditions. However, please check if the frequency of the complete clean out should be increased. If the grease layer is thicker than the lowest point of the outlet box, the clean out frequency should be increased.

1. Remove debris basket



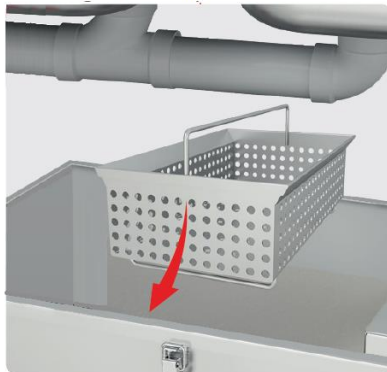
2. Clean grease trap out



1. Dispose of complete content of the grease trap.

2. Rinse out the grease trap with clean water.

3. Connect hose to drain valve, open valve and release the rinse water from the grease trap. Close valve when completed.



4. Replace the debris basket.

5. Close the lid and ensure the latches closes the lid completely to prevent odours into the kitchen. Fill the grease trap with clean water.

5 Technical data

Product	40 Litre	80 Litre	120 Litre
Product Code	109300	109304	109307
Material	Stainless Steel 304	Stainless Steel 304	Stainless Steel 304
Outer dimensions	Length: 419 mm	Length: 758 mm	Length: 1039 mm
	Height: 361 mm	Height: 361 mm	Height: 361 mm
	Depth: 400 mm	Depth: 400 mm	Depth: 400 mm
Weight	12.4 kg	16.7 kg	22.8 kg
Max. steady flowrate	46.8 l/hour	93.2 l/hour	131.6 l/hour
Max. short-term peak flowrate	0.6 l/sec	0.6 l/sec	0.6 l/sec
Min. retention time (min.)	30 min	30 min	30 min
Effective volume of tank	23.4 litres	46.6 litres	65.8 litres
Strainer basket capacity	3.5 litres	3.5 litres	3.5 litres

