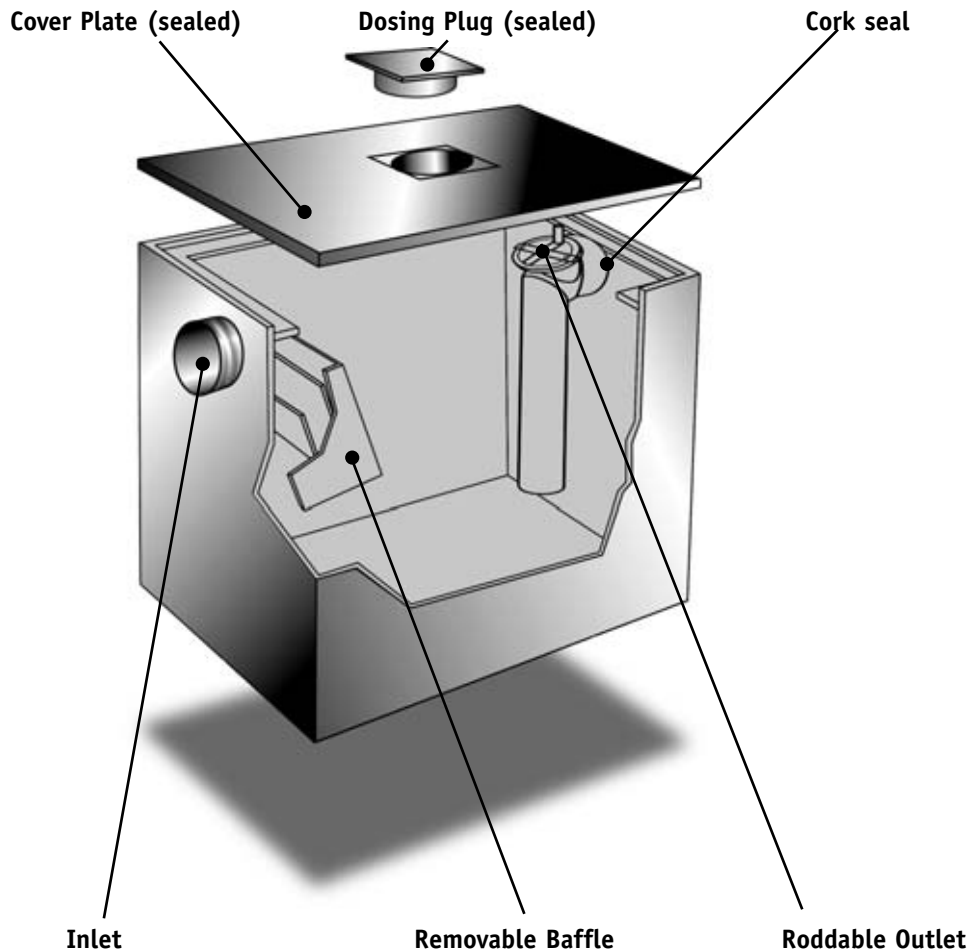


# Grease Separators

STAINLESS STEEL DRAINAGE PRODUCTS



WORLDWIDE  
DRAINAGE SYSTEMS IN STAINLESS STEEL  
ISO 9001 CERTIFIED



With 20 years experience in the manufacture of stainless steel drainage products, **BLÜCHER** is well versed in developing hygienic drainage solutions which recognise the demands of the present situation and seek to predict and therefore accommodate future requirements. **BLÜCHER Grease Separators** have been developed in co-operation with some of the leading authorities in the subject of environmental pollution control.

**Effective Grease Control**

BLÜCHER Grease Separators are a modern evolution of the traditional grease / fat trap which required emptying at least weekly. The theory behind BLÜCHER Grease Separators is that they should act as a point of treatment for either a Liquid Digestion Media (LDM) or a Powder Digestion Media (PDM). These digestion media can be introduced either manually or automatically.

**How a BLÜCHER Grease Separator works**

There are three stages within the operation of a biological grease separator:

**Separation** – Waste water from sinks, dishwashers etc. enters the separator where a series of baffles separate out the transported grease and oil. The fats are then retained within the separator while the water drains away.

**Digestion** – The Digestion Media is fed into the BLÜCHER Grease Separator and then converts the grease into harmless digestion products. This process reduces the need to empty the unit frequently, with servicing only required to remove the build up of sludge from food particles etc.

**Removal** – The harmless digestion products are carried away with subsequent waste water which passes through the unit.

## Installation Guidelines

BLÜCHER Grease Separators should ideally be placed no further than 6-8 metres from the last fixture discharging into the unit. Provided the falls are adequate, this will reduce the likelihood of grease solidifying in the pipework system before reaching the separator.

Waste from macerators and peelers should not normally be discharged into the separator as this will result in a rapid build up of sludge, necessitating more frequent emptying.

Pipework to and from the separator should have generous falls and have the minimum number of bends possible. Outlet pipework should be as large a diameter as possible and not smaller than the inlet pipework. Venting of outlet pipework is recommended.

Inlet and outlet connections are compatible with 110mm diameter PVCu and stainless steel Europipe. Standard adapters to other pipework materials (e.g. cast iron, clay) are provided by the respective manufacturers.

BLÜCHER Grease Separators comply with Building Regulations by meeting the requirements of the relevant BS Codes of Practice for Above and Below ground drainage.

Certain cleaning agents (chlorine, bleach etc.) hinder digestion and should not be discharged into the separator.

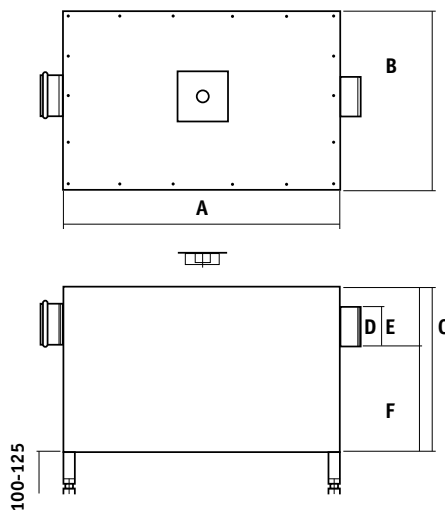
## Sizing and Selection

To determine the appropriate size of BLÜCHER Grease Separator the total volume of fixtures discharging into the separator should be calculated.

|   |
|---|
| <p>A. Sinks –<br/> <math>\text{Volume of sink (s) CC} = \frac{\text{Litres}}{1000}</math></p> <p>Reduce by 40% to allow for displacement, frequency of discharge etc.</p> <p>B. Dishwashers – Obtain discharge volume in litres from manufacturer</p> <p>A + B = Total volume of fixtures (relates to Net Volume of separators)</p> |
|---|

Where existing pipe invert levels dictate the need for dimension 'E' (see table below) to be site specific, please quote the required dimension.

Above ground separator has a smooth cover plate and is supplied with height adjustable feet which increase dimension 'C' by 100mm.



Below ground separator has a non-slip cover plate (medium duty) and is supplied without height adjustable feet.

## Specials

In addition to the standard range of BLÜCHER Grease Separators purpose made units can be made to suit specific customer requirements.

## Dosing Methods/Procedures

To operate properly BLÜCHER Grease Separators must be dosed regularly with either a Liquid Digestion Media (LDM) or a Powder Digestion Media (PDM). The actual dosing rate is determined by a number of factors (No. of meals, No. of discharge units, capacity of grease separator etc.) but daily dosing is generally considered suitable. Digestion Media should be introduced manually or automatically (with an Automatic Dosing Unit) at the end of a shift/day when flows of bleaches and surfactants, which may hinder digestion, are at a minimum.

**Manual Dosing** – PDM's are usually dissolved in lukewarm water and introduced directly into the grease separator via the dosing plug. Alternatively the PDM can be dissolved in a sink which discharges into the grease separator and then flushed into the unit.

**Automatic Dosing** – The installation of an Automatic Dosing Unit (ADU) allows for optimum dosing by introducing LDM in a predetermined quantity at the most appropriate time of the day. Mains or battery operated ADU's are available.

| Type No.      | Model                   | Net Volume (Litres) | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) |
|---------------|-------------------------|---------------------|--------|--------|--------|--------|--------|--------|
| 970.070.110A  | Above Ground (mini)     | 58                  | 684    | 578    | 291    | 110    | 144    | 145    |
| 970.090.110A  | Above Ground (standard) | 114                 | 756    | 506    | 502    | 110    | 200    | 300    |
| 970.090.110B  | Below Ground (standard) | 114                 | 756    | 506    | 502    | 110    | 200    | 300    |
| 970.135.110A  | Above Ground (midi)     | 191                 | 756    | 506    | 702    | 110    | 200    | 500    |
| 970.135.110B  | Below Ground (midi)     | 191                 | 756    | 506    | 702    | 110    | 200    | 500    |
| 970.180.110A  | Above Ground (maxi)     | 250                 | 1006   | 506    | 702    | 110    | 200    | 500    |
| 970.180.110 B | Below Ground (maxi)     | 250                 | 1006   | 506    | 702    | 110    | 200    | 500    |

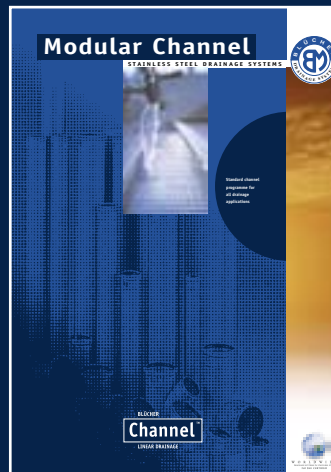
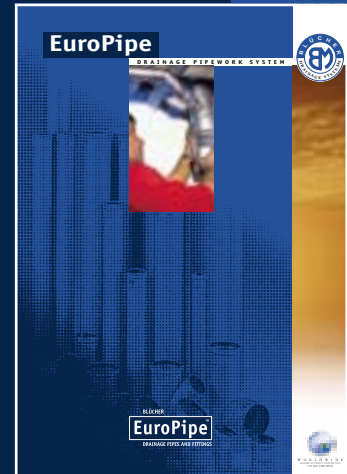
## Maintenance

In order to comply with hygiene guidelines BLÜCHER Grease Separators should be periodically serviced and cleaned out. Regular servicing will ensure a free flowing, odour free system. During the commissioning period (approximately 2-4 weeks) the BLÜCHER Grease Separator should be monitored to gauge the performance of the dosing regime. Regular routine maintenance should include cleaning baffles, checking seals, removal of sediment and solids etc.

Servicing can be unpleasant and disposal of waste should be carried out in line with "Duty of Care" guidelines. BLÜCHER works closely, and will gladly put you in touch, with specialist licensed contractors who carry out ADU installation, grease separator sizing, supply of Digestion Media, service and installation packages.

We wish to guarantee the smooth operation of your BLÜCHER Grease Separator and deliver a package which allows you to concentrate on running your business.

If any assistance is required regarding the accurate selection and installation of a BLÜCHER Grease Separator please contact our Technical Services Department on Tel. 01937 838007.



Stockist

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