

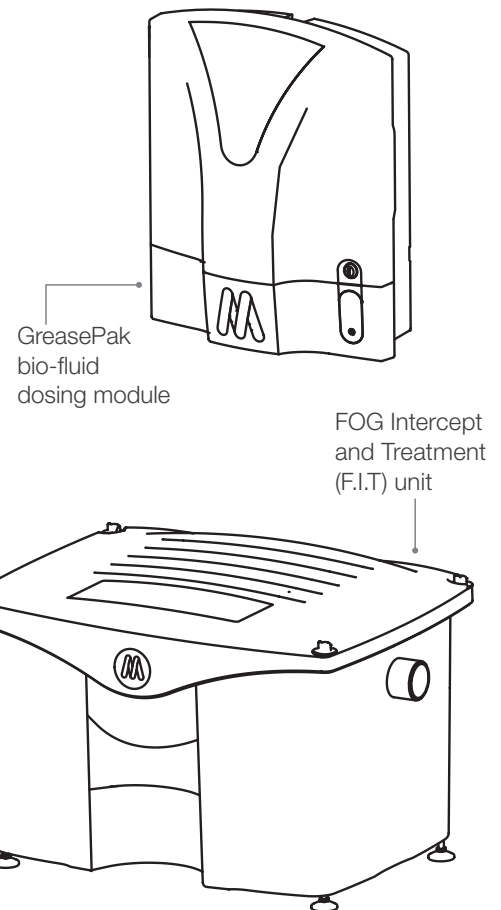
INSTALLATION & OPERATING MANUAL

BIOCEPTOR
manufactured by **MECHLINE**

Thank you for purchasing Mechline's BioCeptor biological drain maintenance system.

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Chapter 1. INTRODUCTION

The Mechline BioCeptor is a combined system designed to retain and break down Fats, Oils and Grease (FOGs) to prevent them from entering the drainage system.

The BioCeptor FOG Intercept and Treatment (F.I.T) unit works in conjunction with the GreasePak bio-fluid dosing module, which doses highly effective microorganisms into the F.I.T unit once a day. The GreasePak bio-fluid formula breaks down the FOGs into irreversible compounds that can easily pass through drainage and, most importantly, do not reform down the line (more on how the bio-fluid works in Section 6.2.3).

The F.I.T unit will need to be maintained and cleaned professionally periodically, so that any organic loads can be removed, but the frequency of servicing is greatly reduced as long as the dosing module is properly and correctly maintained. It is also highly recommended that a food waste strainer is installed upstream of the BioCeptor to minimise the amount of food waste particles entering the F.I.T unit.



The GreasePak bio-fluid dosing module is the only product of its kind in the UK to be **approved by the British Board of Agrément (BBA)** as a recognised form of effective grease removal.



ASME A112.14.3 / PDI G101

The F.I.T unit has been independently tested and certified to **ASME A112.14.3** and **PDI G-101**.

LEAVE THIS MANUAL WITH THE OPERATOR AFTER INSTALLATION

Chapter 2. RATINGS and SPECIFICATIONS

	GreasePak Dosing Module	BioCeptor F.I.T Unit
Region	UK/EU/US	UK/EU/US
2.1 BATTERY SPECIFICATIONS		
	Mechline's GreasePak Dosing Module is powered by a specialised (non-standard) battery pack.	
Type	Non-rechargeable, Alkaline	N/A
Voltage	6 V	N/A
2.2 ELECTRICAL SPECIFICATIONS		
Voltage	N/A	N/A
Frequency	N/A	N/A
Input supply requirements	N/A	N/A
Cordset	N/A	N/A
Input protection	N/A	N/A
2.3 DIMENSIONS & WEIGHTS		
Dimensions	Length (side to side): 410mm / 16 ⁹ / ₆₄ inches Depth (back to front): 186mm / 7 ²¹ / ₆₄ inches Height (not including dosing tube): 499mm / 19 ⁵ / ₈ inches	Length (side to side): 678mm / 26 ¹¹ / ₁₆ inches Depth (back to front): 483mm / 19 inches Height: 428mm / 16 ⁷ / ₈ inches
Weight	Without fluid box fitted: 3.4 Kg / 7.5lbs With fluid box fitted: 8.9 Kg / 19.6lbs	Empty: 7.5 Kg / 16.5lbs Full: 60 Kg / 132.3lbs
2.4 PRODUCT CONFORMITY		
Mechline's BioCeptor system conforms to the essential safety requirements of the Low Voltage Directive (LVD) 2014/35/EU, and Electromagnetic Compatibility Directive (EMC) 2014/30/EU and is manufactured in accordance with the harmonised standards EN 61000-6-3 Generic Emissions and EN 6100-6-1 Generic Immunity.		

Chapter 3. PRODUCT SAFETY

BIO-FLUID MSGD5 - SAFETY DATA SHEET *Prepared in accordance with Commission Regulation (EU) No 2015/830*

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name: GreasePak MSGD5 (Part No.: GP-MSGD5)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: Highly specialised biological preparation for odour control and breaking down organic matter in waste systems.

1.3 Distributor details:

Mechline Developments Ltd, ONE Brudenell Drive,
Brinklow, Milton Keynes, England MK10 0DE
T: +44 (0)1908 261 511 E: info@mechline.com

1.4 Emergency telephone:

T: +44 (0) 1908 261 511 (9am-5:30pm GMT)

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification under CLP: This product has no classification under CLP.

2.2 Label Elements

Precautionary statements:

P264: Wash hands thoroughly after handling.

P402+404: Store in a dry place. Store in a closed container.

2.3 Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

Hazardous ingredients: PROPAN-2-OL

EINECS	CAS	PBT / WEL	CLP Classification	Percent
200-661-7	67-63-0	-	Flam. Liq. 2: H225; Eye Irrit. 2: H319; STOT SE 3: H336	1-5%

4. FIRST AID MEASURES

4.1 Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water.

Eye contact: Bathe eye with running water for 15-mins.

Ingestion: Wash out mouth with water.

Inhalation: Remove victim to fresh air and seek medical attention if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be irritation of the throat.

Inhalation: No symptoms.

4.3 Indication of any immediate medical attention and special treatment needed:

Not applicable.

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2 Special hazards arising from the substance or mixture

Exposure hazards: Not applicable.

5.3 Advice for fire-fighters:

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Refer to section 8 for personal protection details.

6.2 Environmental precautions:

No special environmental concerns.

6.3 Methods and materials for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4 Reference to other sections:

Refer to section 8.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling:

Not applicable.

7.2 Conditions for safe storage, including any incompatibilities:

Store in a cool, well ventilated area. Keep container tightly closed.

7.3 Specific end use(s):

No data available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Hazardous ingredients: PROPAN-2-OL

Workplace exposure limits: **Respirable dust:**

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	999 mg/m3	1250 mg/m3	-	-

DNEL/PNEC Values: No data available.

8.2 Exposure controls

Engineering measures: Not applicable.

Respiratory protection: Respiratory protection not required.

Hand protection: Not required.

Eye protection: Not required.

Skin protection: Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

State: Liquid

Colour: Dark Green

Odour: Slight fermentation odour

Evaporation rate: No data available.

Oxidising: No data available.

Solubility in water: Soluble

Viscosity: No data available.

Boiling point/range°C: >100

Flammability limits %: **lower:** No data available.

Flash point°C: No data available.

Autoflammability°C: No data available.

Relative density: 1.02 g/cm3.

VOC g/l: No data available.

Melting point/range°C: >0

upper: No data available.

Part.coeff. n-octanol/water: No data available.

Vapour pressure: No data available.

pH: 4-5

9.2 Other information:

No data available.

10. STABILITY AND REACTIVITY

10.1 Reactivity:

Stable under recommended transport or storage conditions.

10.2 Chemical stability:

Stable under normal conditions.

10.3 Possibility of hazardous reactions:

Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

10.4 Conditions to avoid:

Heat.

10.5 Incompatible materials to avoid:

Strong oxidising agents. Strong acids.

10.6 Hazardous decomposition products:

No data available.

11. TOXICOLOGICAL

11.1 Information on toxicological effects

Hazardous ingredients: PROPAN-2-OL

IVN	RAT	LD50	1088	mg/kg
ORL	MUS	LD50	3600	mg/kg
ORL	RAT	LD50	5045	mg/kg
SCU	MUS	LDLO	6	gm/kg

Toxicity values: No data available.

11.2 Symptoms / routes of exposure:

Refer to section 4.2.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Ecotoxicity values: No data available.

12.2 Persistence and degradability:

Biodegradable.

12.3 Bioaccumulative potential:

No bioaccumulation potential.

12.4 Mobility in soil:

Readily absorbed into soil.

12.5 Results of PBT and vPvB assessment

PBT identification: Product is not identified as a PBT/vPvB substance.

12.6 Other adverse effects:

Negligible ecotoxicity.

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal operations: Small amounts of unwanted product may be flushed with water to sewer.

Disposal of packaging: Dispose of as normal industrial waste.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

Transport class: Product does not require a classification for transport.

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Specific regulations: Not applicable.

15.2 Chemical safety assessment:

Not applicable.

16. OTHER INFORMATION

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

* indicates text in the SDS which has changed since the last revision.

Compilation date: 13/04/2017

Revision No: 2

Phrases used in s.2 and s.3: H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

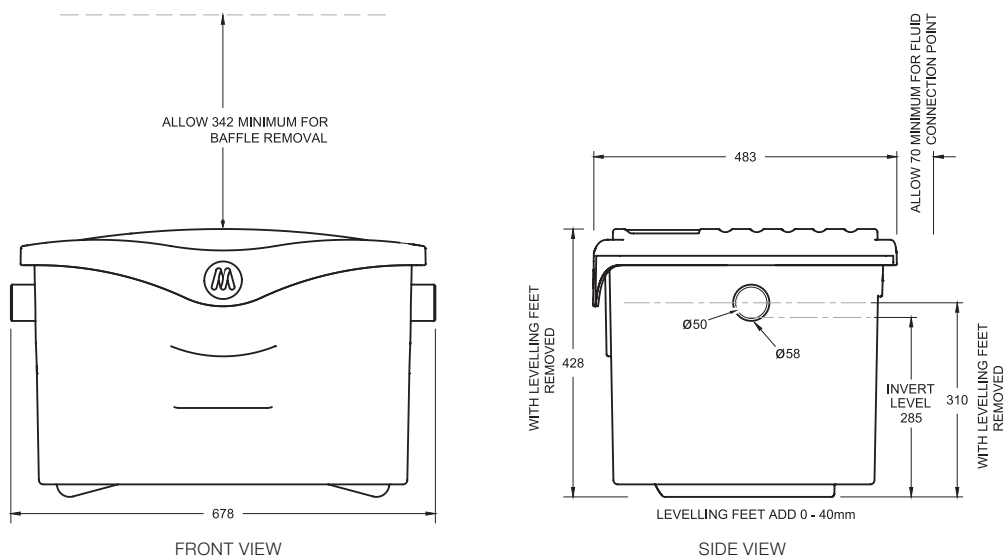
Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

Chapter 4. LOCATION ADVICE

Failure to install the BioCeptor in accordance with these instructions could affect the performance of the product and could void the warranty.

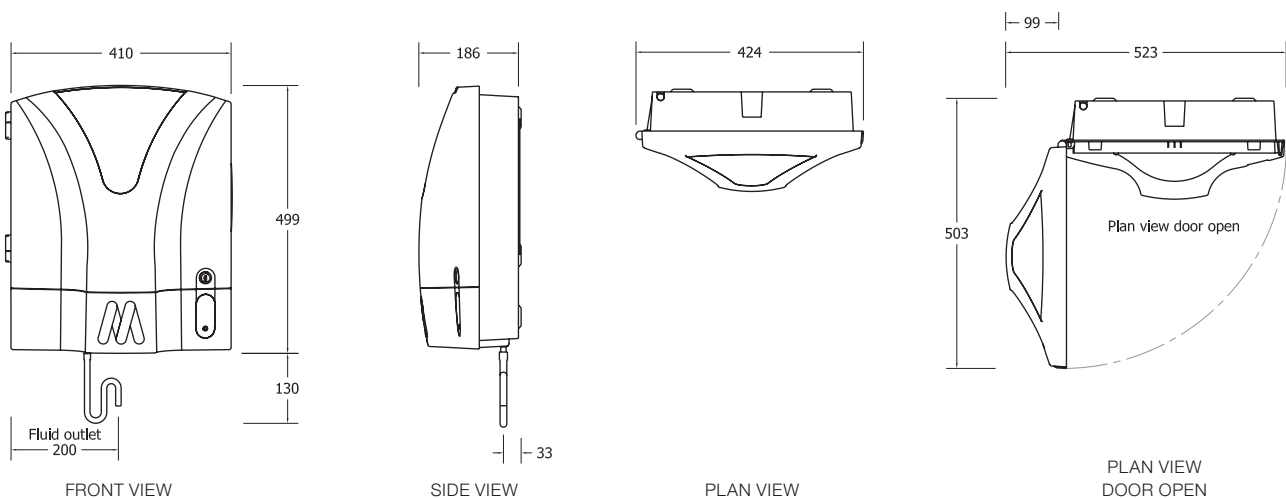
- 4.1 The BioCeptor F.I.T unit is designed to be installed internally, on a level surface that is capable of accepting the F.I.T unit weight of approximately 60kg when full. The BioCeptor F.I.T unit can be installed in a lowered floor area or in an internal sump area, but space must be left to allow easy access and removal of the lid and internal baffles for cleaning. Ensure the F.I.T unit is located where it will not be subjected to damage from trolleys or other moving items.
- 4.2 The F.I.T unit is supplied with four adjustable levelling feet, which can help compensate for uneven floors and can help to create a flow fall through the F.I.T unit if required. The adjustable feet can be removed if required.

4.3 FIGURE 1 - BioCeptor F.I.T Unit:



- 4.4 Wall space must also be allowed for the GreasePak dosing module, which should be sited in a visible location above the F.I.T unit. The position of the dosing module should be at a sensible working height where it will be easy for the operator to change the bio-fluid box.

4.5 FIGURE 2 - GreasePak Dosing Module:

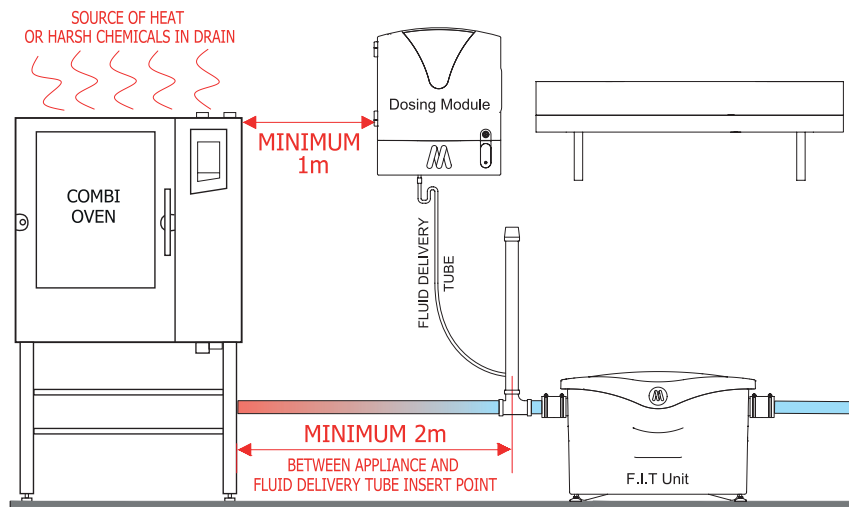


Note: Dimensions are in mm unless otherwise stated.

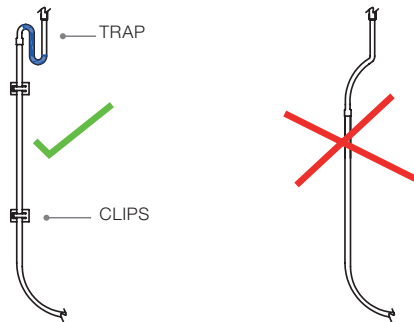
4.6 Install the GreasePak dosing module above the F.I.T unit. Between 1200-1500mm (4-5 feet) AFFL is recommended.

4.7 The dosing MODULE should be a minimum of 1 metre (3.25 ft) and the drain dosing POINT a minimum of 2 metres (6.5 ft) away from sources of excessive heat or harsh chemicals in the drain such as dishwashers, combination ovens or waste disposal units. If installed downstream from a water softener, ensure softener regeneration occurs prior to the module dosing time each night.

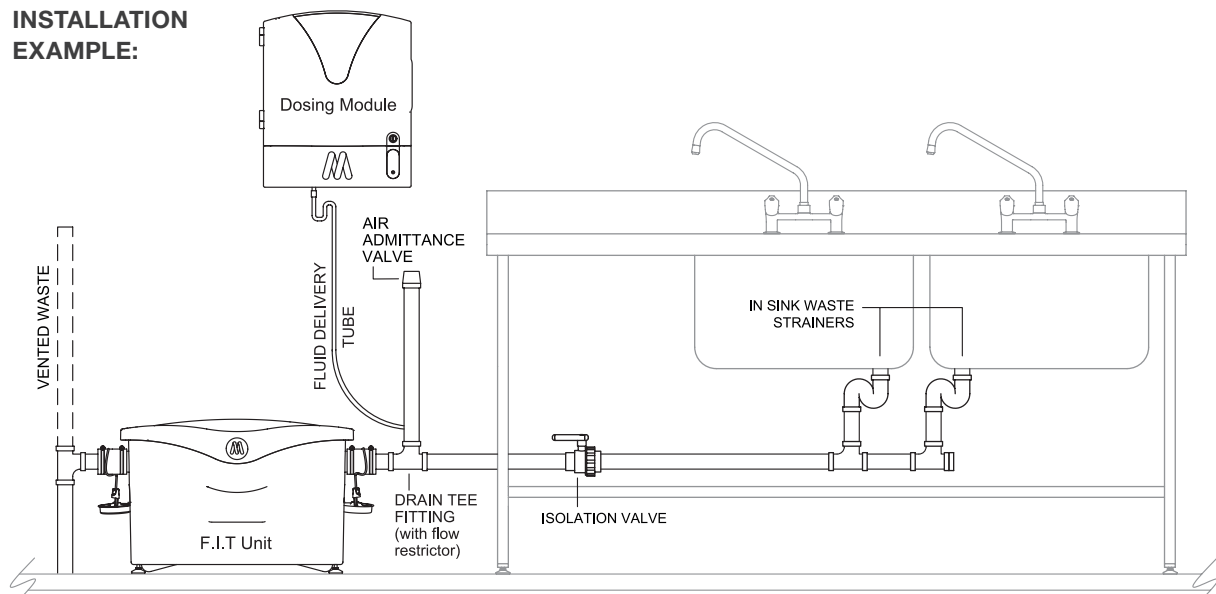
NOTE: Please read Chapter 7 - section 7.3 in relation to dishwashers.



4.8 Be sure that the delivery tube trap is properly supported and not stretched. The tube should be a smooth run and clipped in place.



4.9 INSTALLATION EXAMPLE:



4.10 Some sites may be classed as HIGH FOG PRODUCING. For these sites it may be a recommendation that two BioCeptors are installed. See Chapter 7 for more information.

4.11 Appliances feeding into the F.I.T unit should be separately trapped in accordance with local authority requirements.

Chapter 5. INSTALLATION INSTRUCTIONS



Refer to Chapter 4 of this manual, relating to **LOCATION ADVICE**

5.1 INSTALLATION REQUIREMENTS

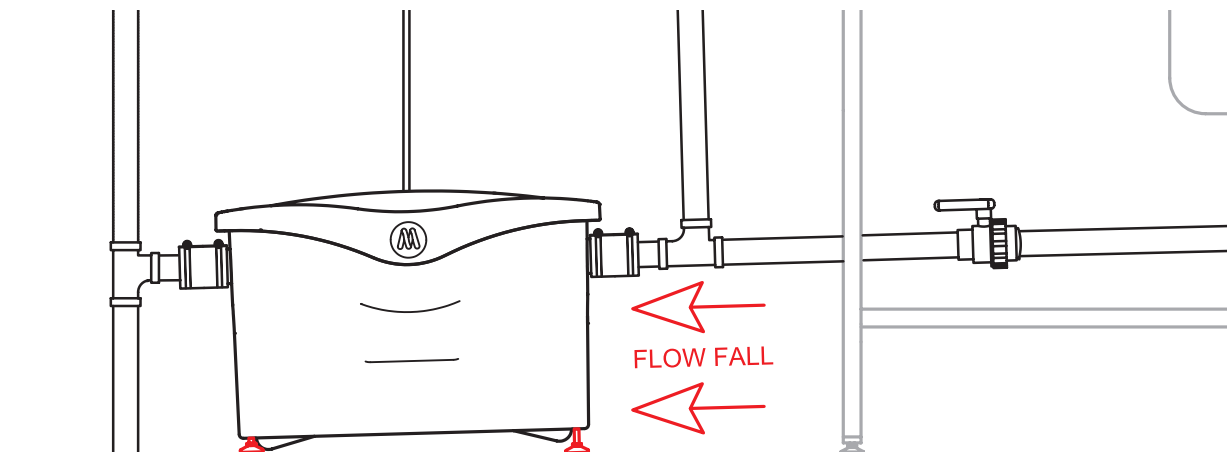
Mechline's BioCeptor biological drain maintenance system works by regularly dosing highly active bio-fluid into the F.I.T unit, it is not a drain unblocking system. Existing drains must be cleaned and pressure washed prior to installation. Failure to do this could result in dislodged fat and grease blocking the drains further downstream.

Installation must be carried out in accordance with local authority and water company requirements.

Some water companies / sewer management providers would advise that dishwashers are **NOT** connected to FOG trapping devices. However the BioCeptor is designed to accept the discharge from dishwashers if required. Food Waste Disposers (FWDs) should **NOT** be connected. See Chapter 7 for further advise.

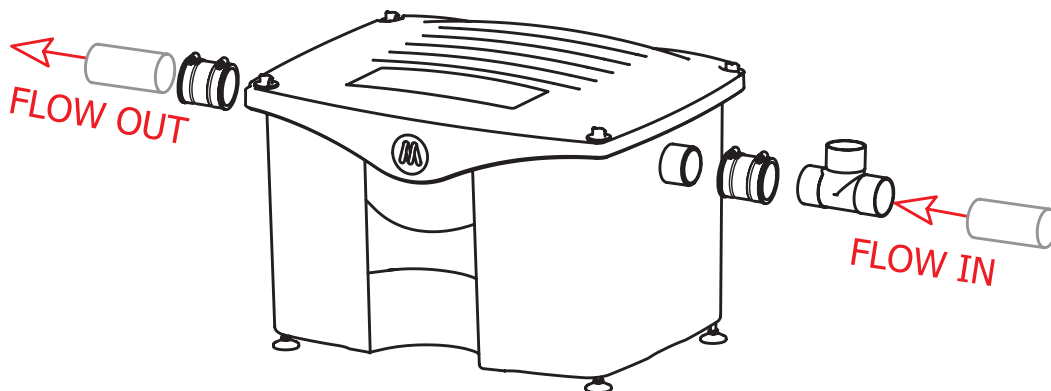
5.2 INSTALLATION STEPS

- 5.2.1 Use the levelling feet to ensure the F.I.T unit is level before connecting any pipework (the feet can be used to create a flow fall in the drain fall direction if this is required).

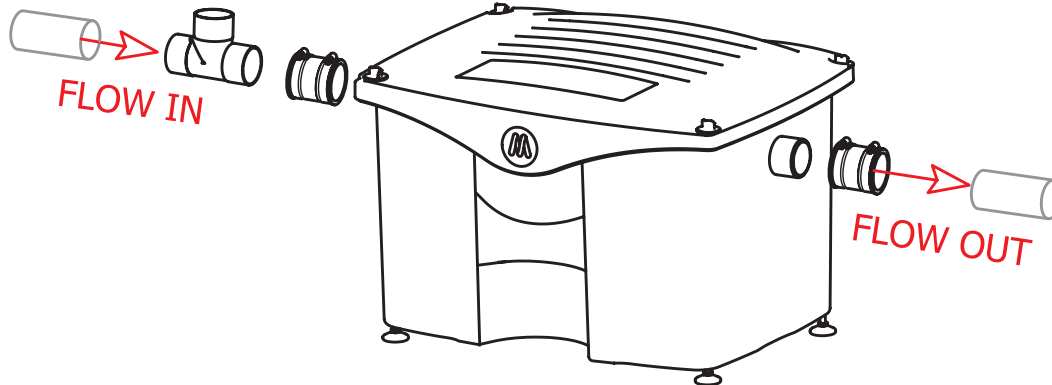


- 5.2.2 The BioCeptor should be installed as close to the FOG-producing fixtures as possible. This is to reduce the length of unprotected pipework between the fixture and the F.I.T unit. Waste water pipework should be securely clipped in place into and out of the F.I.T unit and should be sloped at a minimum of 6mm per 300mm pipe length to maintain flow. The BioCeptor can be installed with flow in either direction (see figure 3 and 4).

5.2.3 FIGURE 3 - **RIGHT to LEFT** hand flow:



5.2.4 FIGURE 4 - **LEFT to RIGHT hand flow:**



5.2.5 Use the RUBBER CONNECTORS supplied to connect the pipework to the inlet and outlet ports - 50mm dia. (2 inch).

5.2.6 Leave the PLUGS hanging from the RUBBER CONNECTORS (as shown in fig. 5 below). These are for later use during future maintenance and cleaning procedures carried out by your appointed service company.

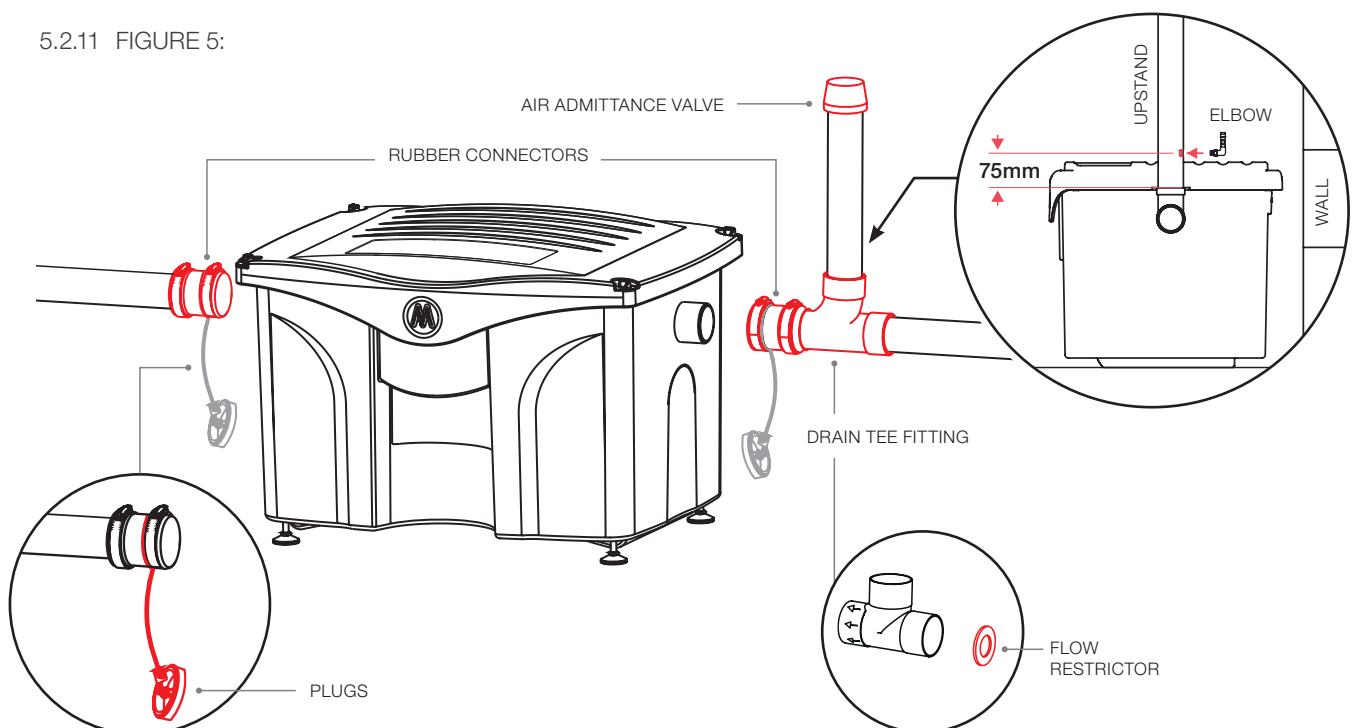
5.2.7 The supplied AIR ADMITTANCE VALVE should be installed between the F.I.T unit and the last connected fixture using the supplied DRAIN TEE FITTING (as shown in fig. 5 below). This is to eliminate the potential for a vacuum to be created in the pipework. Alternatively a vented connection can be made, but the supplied DRAIN TEE FITTING must be used as it contains the inbuilt FLOW RESTRICTOR (see fig. 5 below).

5.2.8 Before gluing any pipework connections, the fluid entry hole will need to be drilled to the rear of the vertical upstand (not supplied) between the drain tee fitting and the air admittance valve. The drill hole size required is 8.5 - 9mm ($21/64$ - $11/32$ inches) and needs to be approximately 75mm (3 inches) up from the drain tee fitting (see fig. 5 below).

5.2.9 In the hole you have drilled, screw in the blue ELBOW supplied with the fluid delivery tube.

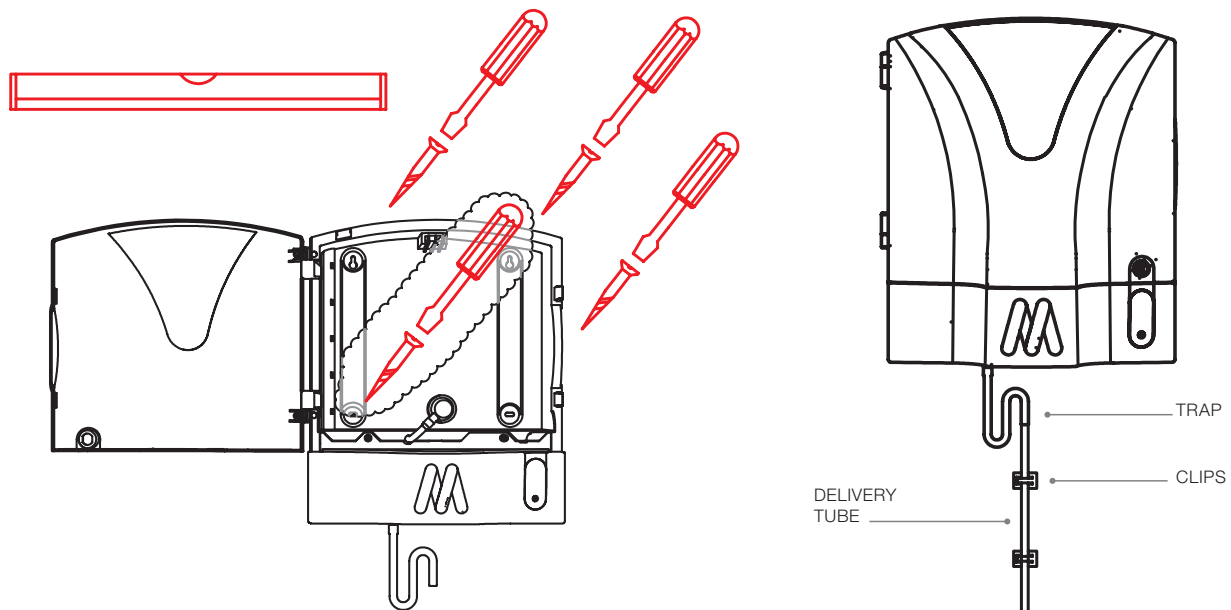
5.2.10 Installation of a full-bore ball valve upstream of the BioCeptor is recommended. This is to allow for isolation in the event that the F.I.T unit becomes blocked and requires cleaning and emptying (see section 4.9 - installation example). Installation of a food waste strainer upstream of the BioCeptor is recommended.

5.2.11 FIGURE 5:



Chapter 5. INSTALLATION INSTRUCTIONS *continued...*

- 5.2.12 The GreasePak dosing module now needs to be fixed securely to the wall in the chosen location above the BioCeptor F.I.T unit. **NOTE:** An installation example is shown on page 5 (section 4.9).
- 5.2.13 Remove the bio-fluid box from the module and set aside in a safe place ready to be connected later.
- 5.2.14 Level and securely fix the GreasePak dosing module using 4 x fixings. Install at a sensible working height, between 1200-1500mm (4-5 feet) AFFL is recommended.
NOTE: See Chapter 4 for important location advice.

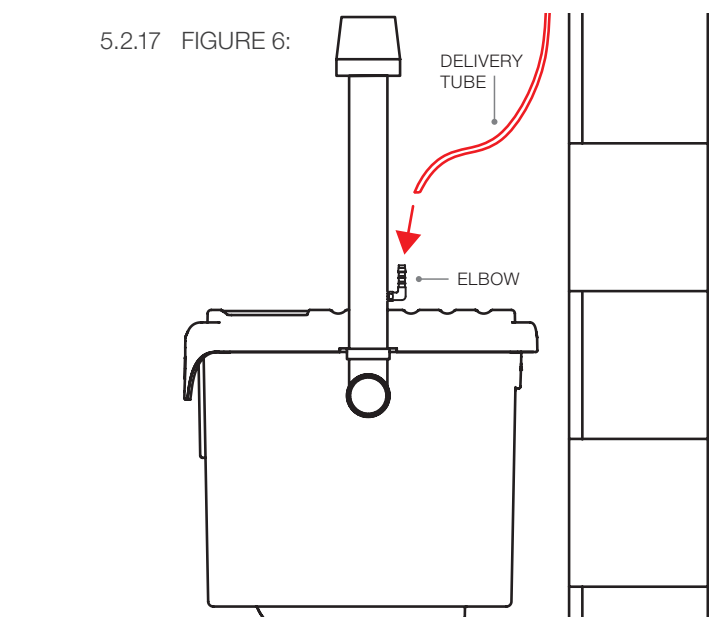


- 5.2.15 Determine the smooth run for the fluid delivery tube and then cut to the required length between the TRAP (as shown above) on the dosing module and the blue ELBOW connector on the upstand.

- 5.2.16 Fit one end of the fluid delivery tubing to the dosing module TRAP and the other end to the blue ELBOW connector on the upstand (as shown in fig. 6). It may be necessary to twist the end of the elbow slightly towards the natural fall of the delivery tube to prevent any kinks forming when the tube is connected.

NOTE: To help tube fit over the elbow, dip tube end in warm water.

5.2.17 FIGURE 6:



- 5.2.18 Use the self-adhesive clips supplied to secure the fluid delivery tube to the wall under the dosing module. DO NOT crush the tube or allow it to hang down in a loop or coil.
- 5.2.19 Use some silicone to seal the end of the ELBOW screwed into the upstand.

5.2.20 Hang a 5L (1.3 US gallons) box of bio-fluid in the dispenser.



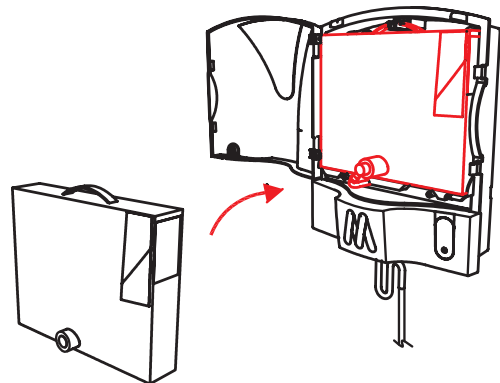
Follow the box instructions to connect.

5.2.21 Check if you have more bio-fluid in stock.

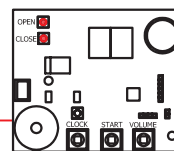
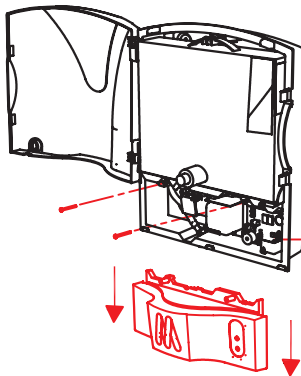
If not, please contact Mechline or your dealer.

Bio-fluid is sold in master boxes of 3x 5-Litre (part number GP-MSGD5).

Please have the serial number of your dosing module ready when you call.



5.2.22 Remove the 2 set screws as shown and pull the front cover downwards to remove.

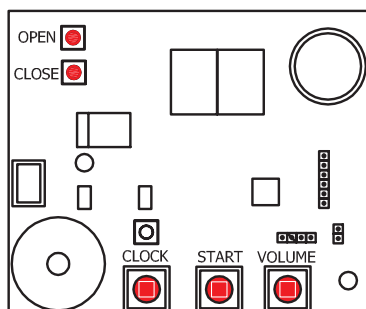


P.C.B.



Trap

- 5.2.23 Press OPEN then CLOSE on the PCB. Fluid will flow then stop. You should be able to hear a CLICK sound as the valve opens and shuts. If you cannot hear a CLICK, try gently tapping the side of the valve while at the same time pushing the OPEN button and then the CLOSE button. This step is only required for the first fluid box.
- 5.2.24 Refit the front cover and close the door. Pass all documents & keys supplied with this dosing module to a responsible kitchen manager.
- 5.2.25 This module is factory set to deliver a measured dose of bio-fluid into the BioCeptor F.I.T unit at 1:00am, when there is little or no water flow, allowing the bacteria time to do their work. Delivery time and volume can be easily adjusted, however it is recommended to keep these at their factory settings. The delivery volume is set at number 2 as this is the measured dose for the size of the F.I.T unit. If changes to the settings are required, refer to instructions below **or** inside the front cover. With standard factory settings, 1x 5L (1.3 US gallons) bio-fluid box will last approximately 30 days.



5.2.26 **To adjust the clock:** Press the CLOCK (left) button. The display will show the hour (24hr clock). Hold for 5 seconds and until the current hour is displayed. You will hear a ticking sound as the display advances.

To show/adjust the delivery start time: Press the START (middle) button. The display will show the delivery start time. Hold for 5 seconds and until the desired start time is displayed. You will hear a ticking sound as the display advances.

To show/adjust the delivery volume: Press the VOLUME (right) button. The display will show the delivery setting (1–4). Hold for 5 seconds and until the desired setting is displayed (2 is the factory setting). You will hear a ticking sound as the display advances.

Chapter 6. OPERATING INSTRUCTIONS

6.1 GENERAL ADVICE

The following advice is a general guideline for the operator. If any questions arise, please do not hesitate to contact Mechline gpservice@mechline.com or your dealer.

- 6.1.1 Be sure the dosing module is left on once it has been put into operation. There is no on/off switch to operate.
- 6.1.2 Ensure the dosing module is installed, operated and maintained by trained and authorised personnel.
- 6.1.3 Children should not be allowed to play with this system.
- 6.1.4 The system should be used as provided and not be tampered with or altered.
- 6.1.5 To help the effectiveness of the system, and significantly help to maintain free flowing water both within the drains of the premises and in the sewerage system, **remember the following basic DOs and DON'Ts:**
 - *DO wipe and scrape plates, pans and utensils before washing.*
 - *DO collect waste oil in a suitable secure container.*
 - *DO arrange for oil to be collected by a licensed waste contractor.*
 - *DO use strainers in sink plug holes.*
 - *DO maintain the BioCeptor drain maintenance system equipment regularly.*
 - *DO NOT put cooking oil, fat or grease down the sink or into floor drains.*
 - *DO NOT put food scrapings into the sink.*
 - *DO NOT sweep food waste into the floor drains.*
 - *DO NOT pour boiling hot water down the sink to try to dissolve fat and grease. It does not work!*
 - *DO NOT pour bleach or harsh chemicals down the sink or into the drainage system.*

6.2 FREQUENTLY ASKED QUESTIONS

6.2.1 How does the BioCeptor system work?

The BioCeptor works in two ways to prevent Fats, Oils and Grease (FOGs) including starches from going down your drain where it can cause blockages when it cools and hardens. Waste water from your sinks and dishwashers enter the BioCeptor F.I.T unit and when the water cools the FOGs harden and float to the top of the unit. As well as this the GreasePak dosing module delivers a daily dose of unique bio-fluid formula into the F.I.T unit which breaks down the FOGs into irreversible compounds that can easily pass through drainage. Most importantly these compounds can not reform further down in the sewerage network. The FOGs that are retained in the F.I.T unit will need to be removed and disposed of by a qualified contractor but the frequency of emptying is greatly reduced.

6.2.2 Is the bio-fluid safe for my kitchen?

Yes it is environmentally friendly and non-hazardous. The bio-fluid (GP-MSGD5) contains a blend of aerobic and facultatively anaerobic bacteria which have been specially selected to break down the organic material that is found in commercial kitchen waste. Armed with a powerful battery of grease-degrading enzymes, they are all classified by the Advisory Committee on Dangerous Pathogens (ACDP) as category 1, i.e. they are of extremely low or no hazard. Mechline's GreasePak bio-fluid dosing module is the only bioremediation system to receive BBA approval, meaning the system has been independently tested and found to be compliant with building and legislative requirements.

6.2.3 How does the bio-fluid work?

For commercial kitchens to meet current legislation, they are obliged to have a system in place to manage their grease disposal. UK Building Regulations 2002 Edition incorporating 2010/13 amendments, state that:

H1 FOUL WATER DRAINAGE: 2.21 Drainage serving kitchens in hot food premises should be fitted with a grease separator complying with BS EN 1825-1:2004 and designed in accordance with BS EN 1825-2:2002 or other effective means of grease removal.

Mechline's GreasePak bio-fluid is an 'effective means of grease removal' as required by the Building Regulations. It uses a blend of specially selected microorganisms that have been chosen for their ability to degrade Fats, Oils and Grease (FOGs) in low oxygen conditions and varying pHs.

These bacteria produce a series of extra-cellular enzymes that break down organic matter, including lipase, which can very quickly transform fats (triglycerides) into glycerol and free fatty acids. Glycerol is very soluble in water and being a small molecule, can pass easily into the bacterial cells, where it is used either to build new cellular structures, or as a fuel to produce energy for growth.

The free fatty acids present more of a problem, as they are large insoluble molecules. The action of the lipase has only converted one type of large insoluble molecule (the triglycerides) into other large insoluble molecules (free fatty acids). Visually, in a drainage situation, the scale of the problem may have diminished or the characteristics of the fatty material may have changed at this point, but the problem will not yet have been fully resolved.

The specially selected bacteria in the bio-fluid are able to degrade these free fatty acids by a process known as β -oxidation, in which chunks are broken off the end of the fatty acid molecule. These chunks can again be used as a building block to produce new structures, or more usually, energy. The breakdown of fatty acids is not an instantaneous process, as the physical form of the fatty acids, being large and insoluble, means that it takes some time (commonly called "residence time") for the bacteria to "get to grips" with them. This is why the bio-fluid is dosed at 1:00am, when there is little or no water flow, allowing the bacteria time to do their work.

Once the fats are broken up by the lipase they cannot chemically reform back into triglycerides. The subsequent breakdown of the fatty acids through β -oxidation ensures the "grease," which may actually consist of a variety of insoluble materials, can pass through drainage systems without causing any problems traditionally associated with FOGs.

6.2.4 **Where can I install the BioCeptor in my kitchen?**

Please refer to Chapter 4, Location Advice.

6.2.5 **How often will I need to have the F.I.T unit emptied?**

Regularity of maintenance/servicing of your F.I.T unit will be determined by your appointed service company, analysing usage, operations and staff discipline in FOG management procedures (see 7.4.3). This will however be significantly reduced due to the powerful bio-fluid degrading the Fats, Oils and Grease (FOGs) trapped within the F.I.T unit.

6.2.6 **I have lost the keys for my dosing module, can I get replacements?**

Yes. The keys for all dosing modules are interchangeable. Please contact Mechline or your dealer for a replacement set.

6.2.7 **Are there special storage or handling requirements for the bio-fluid? Does it have a shelf life?**

Mechline's bio-fluid is a perfectly safe class 1 fluid, and there are no special handling requirements. It should be stored in a cool, dry place away from direct sunlight and ideally at a temperature between 10°C and 30°C so the effective performance of the product is not compromised. The bio-fluid's shelf life is a minimum of 18-months, as long as it is stored as above.

6.2.8 **How will I know when the bio-fluid needs replacing? And where can I get replacement bio-fluid boxes?**

The dosing module will sound a alarm buzzer once every 15 minutes when the fluid box inside your dosing module needs replacing. It will only sound during daylight hours in order to preserve battery power.

For more bio-fluid please contact Mechline or your dealer. Sold in master boxes of 3x 5-Litre (part number GP-MSGD5). Please have the serial number of your dosing module ready when you call. Always keep a spare box of bio-fluid in stock to avoid running out.

6.2.9 **How long should a 5L (1.3 US gallons) bio-fluid box last?**

On the factory setting (number 2), a 5L (1.3 US gallons) box of bio-fluid should last approximately 30 days. If the dosing module is adjusted to deliver a higher dose (number 3 or 4), the fluid will not last as long. It is recommended to keep the delivery volume at the factory setting as this delivers the correct dose for the size of the BioCeptor F.I.T unit.

6.2.10 **I notice residual fluid in my bio-fluid box. Is it using up all the fluid? Have I changed the fluid too early?**

Only change the bio-fluid box when the buzzer sounds. This ensures the most efficient use of the full 5 litres per box. The design of the bag and valve is engineered to provide good flow, using gravity, to match the dosing level set by the module. It is very difficult to completely drain any bag of all its fluid, therefore, we slightly overfill each bag to compensate and make sure that every customer gets the full 5 litres from each bag. Drainage wedges are also fitted to the inside of each box to ensure that a 'V' shape is formed under the bag whilst the bag empties to assist draining.

6.2.11 **What procedures should I take if the bio-fluid box leaks and/or fluid comes into contact with skin, eyes, etc?**

Mechline's GreasePak bio-fluid is a perfectly safe class 1 non-hazardous fluid. No harm will come from touching it or coming into contact with the fabric of the building - merely wash off the fluid with cool, clean water.

Avoid ingestion of liquid and avoid contact with eyes. In case of contact with skin or eyes, rinse thoroughly with clean cool water. Should eye irritation continue, seek medical advice. In case of ingestion, DO NOT induce vomiting. Seek medical advice. Refer to the safety data sheet on page 3.

Chapter 6. OPERATING INSTRUCTIONS *continued...*

6.2.12 Can I change the time when the dosing module doses the bio-fluid into the BioCeptor F.I.T unit?

The dosing module is factory set to dose at 1:00am, when there is little or no water flow, allowing the bacteria time to do their work. However this can be changed by removing the front cover under the module door and following the instructions on the label inside. Unscrew and pull the front cover downwards to remove. See section 5.2.26.

6.2.13 Can I change the fluid dosing level on my dosing module?

Yes, but the factory setting (number 2) delivers the correct dose for the size of the BioCeptor F.I.T unit. See section 5.2.26.

6.2.14 How long does the battery in the dosing module last?

The battery should last around 2 years. When the battery needs replacing the 'Low Battery' warning light will begin to flash. It will only flash between the hours of 07:00 - 20:00 when someone is likely to be around to see it, in order to preserve power. Contact Mechline or your dealer for a replacement battery pack (part number GP-BP) as soon as you see the 'Low Battery' light flashing.

6.2.15 My building drains are not connected to mains sewage. Can I use the BioCeptor with a remote aerobic or anaerobic (Septic) sewage system?

Generally, Mechline's GreasePak bio-fluid is helpful to these systems, and some information is provided below. For more advice, contact Mechline.

AEROBIC SYSTEMS: *These tend to have three sections, a primary tank, an aerobic zone and a tertiary tank. The primary tank is where larger solids settle out, whereas the aerobic zone is where aerobic bacteria break down any organic solids. Aerobic conditions are maintained by the introduction of forced air or by the rotation of disks within the effluent. The tertiary tank allows for any final settlement before water is discharged.*

If grease enters this system untreated it will quickly cause major overload to the primary tank, as it tends to float rather than settle out. Left unchecked this grease can then foul the aerobic zone either by coating the filter disks or blocking air gaps in the filter medium. This can result in severe system failure and all that implies.

The introduction of Mechline's bio-fluid into the effluent stream quickly breaks up the complex grease molecules into much smaller molecules and soluble compounds. This greatly reduces the problems described above and the chances of system failure.

ANAEROBIC (SEPTIC) SYSTEMS: *These systems rely upon the action of bacteria that do not require oxygen to break down organic solids, and are less complicated as they do not require the maintenance associated with the aeration of aerobic systems. However, the down-side is that they are slower in action and are not suited to larger sites.*

The introduction of grease into a septic system would cause many problems, not least the fact that the crust on the top of a tank must be permeable to allow the passage of the gases created by the action of the bacteria. The presence of large quantities of grease would reduce crust mobility and therefore the effectiveness of the tank.

As with the aerobic system, the bacteria contained in the bio-fluid break down the fats and grease found in commercial waste, thus greatly reducing the chances of grease-related compounds. In addition, the facultatively anaerobic bio-fluid bacteria added to the mix reduce sludge build-up and therefore tank emptying frequency.

6.3 BIOCEPTOR F.I.T UNIT - GENERAL SERVICING AND CLEANING ADVICE

The BioCeptor F.I.T unit will require periodic maintenance and cleaning. This should be carried out by an approved contractor. Gloves and appropriate personal safety equipment should be worn at all times when carrying out any maintenance on this product.



The frequency of maintenance required will depend on the volumes of FOGs discharged into the drainage system. The frequency of maintenance will be determined by your appointed service company, analysing usage and operations. Once the contents of the F.I.T unit are approaching 25% FOG and not organics (75% water, 25% FOG) it is time for the F.I.T unit to be emptied and cleaned. Once the frequency of maintenance has been determined, the BioCeptor should always be cleaned following this schedule. It is very important to restrict organic food waste from entering the F.I.T unit as this will reduce its effectiveness and may cause blockages.

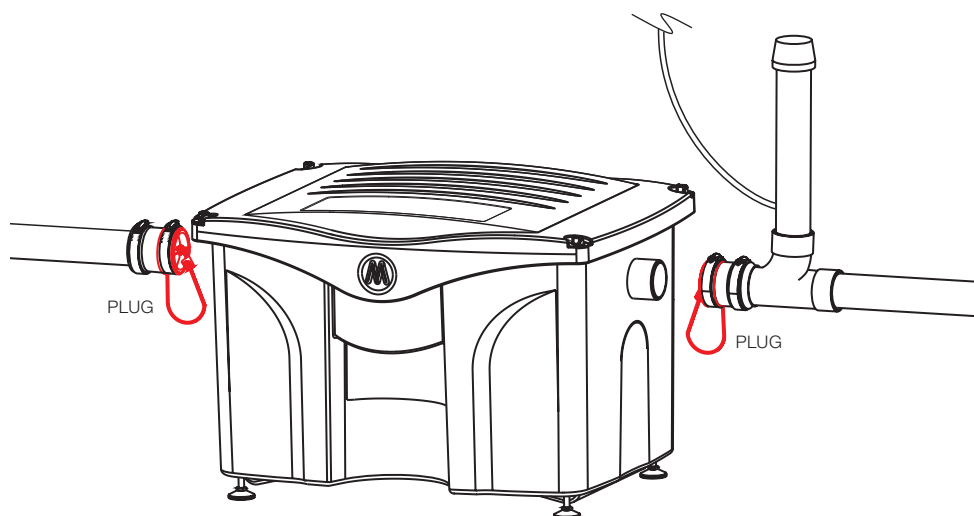
It is recommended that an isolation valve is installed upstream of the BioCeptor, and this should be turned to the off position before the cleaning starts.

6.4 BIOCEPTOR F.I.T UNIT - CLEANOUT LOCATIONS

The BioCeptor F.I.T unit can be cleaned and maintained by removing the lid and internal baffles. The lid is held in place using easy-to-remove thumbscrews and the supplied plugs seal the rubber connectors so the F.I.T unit can be pulled out from situ to allow complete access. The floor, wall and local area can be completely and hygienically cleaned, reducing risk and maximising safety.

6.4.1 Turn the upstream isolation valve (recommended) to the 'off' position.

6.4.2 Remove the two rubber connectors from the inlet/outlet points at either side of the F.I.T unit using a screwdriver and use the attached plugs to temporarily seal the ends as shown below.



6.4.3 The F.I.T unit can now be carefully pulled away from situ to allow complete access.

6.4.4 Remove all 4 lid thumbscrews and carefully remove the lid.

6.4.5 Use a wet vacuum device to empty the F.I.T unit.

6.4.6 Use clean water and a hose to rinse out the F.I.T unit internally.

6.4.7 Remove both baffles and use the wet vacuum to remove any FOGs trapped inside the baffles.

6.4.8 Inspect the lid seal to ensure it is undamaged and in good condition.

6.4.9 Replace all parts in reverse order and re-fit the lid by aligning the rear first before fully closing the lid.

6.4.10 Using the 4 lid thumbscrews re-tighten the lid in place.

6.4.11 Wipe down the F.I.T unit with a clean disposable cloth and fresh water and clean the surrounding area before carefully lifting the F.I.T unit back into position.

6.4.12 Remove the plugs from the rubber connectors and reconnect to the inlet/outlet points either side of the F.I.T unit.

6.4.13 Turn the isolation valve to the 'open' position.

6.4.14 Run clean water through the F.I.T unit and check for leaks.

6.4.15 The BioCeptor F.I.T unit is now ready for use.

Mechline advise that a certified and qualified service company undertake this work. You must ensure your waste contractor is an Environment Agency licensed waste carrier and that they give you a copy of the waste transfer note.

Waste from the BioCeptor F.I.T unit is classified as a controlled waste. The Environment Agency or an Environmental Health Officer is required to see evidence that regular cleaning has been performed and any waste that has been removed is disposed of by a registered waste carrier. Waste transfer notes should be kept for two years and made available for inspection under Section 34 of the Environmental Protection Act 1990.

Chapter 6. OPERATING INSTRUCTIONS *continued...*

6.5 BIOCEPTOR F.I.T UNIT - TROUBLE SHOOTING GUIDE

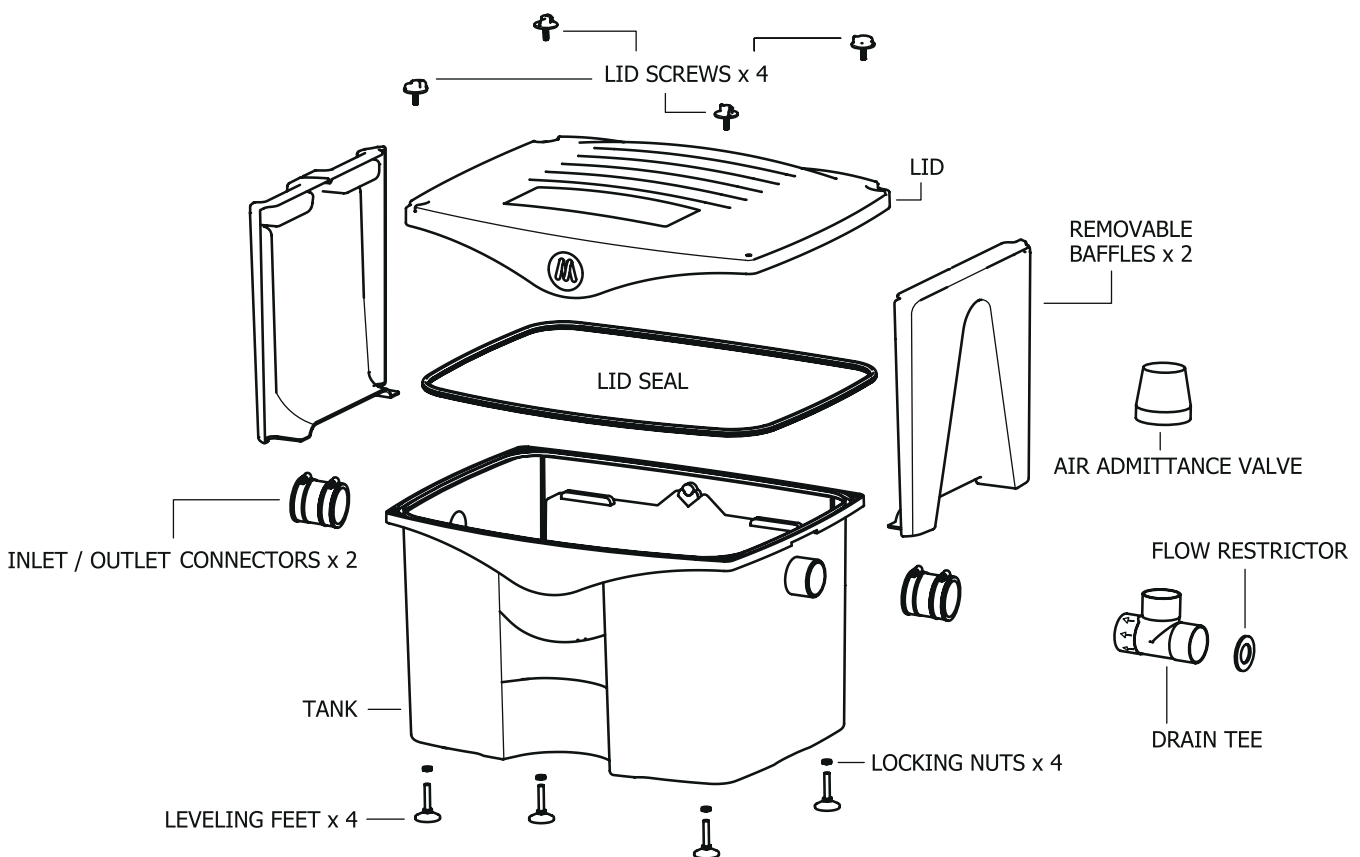
If you experience slow drainage flow from the appliance(s) connected to your BioCeptor, the F.I.T unit could need servicing and cleaning as detailed above.

If you experience any leakage or odours from your BioCeptor F.I.T unit, check the tightness of the 4 x lid screws.

If you experience repeated frequent blockages with the F.I.T unit, check that the upstream food waste strainer is functioning correctly.

Report any damaged parts for immediate replacement. See section 6.6 for the F.I.T unit parts diagram.

6.6 BIOCEPTOR F.I.T UNIT - EXPLODED PARTS DIAGRAM:



Chapter 7. BIOCEPTOR F.I.T UNIT SIZING GUIDE

The Mechline BioCeptor F.I.T unit has been designed to be as compact as possible by using flow control technology, which allows the product to be much smaller than a standard grease trap.

The Mechline BioCeptor F.I.T unit has been independently tested by NSF and meets and exceeds the performance requirements of ASME A112.14.3-2000.

The following sizing table is based on ASME A112.14.3-2000 and applies to the Mechline BioCeptor.

Volumetric sizing calculations may apply to standard grease traps.

BioCeptor Flow rates - [based on ASME A112.14.3-2000]						
		BioCeptor Flow - sink bowl/s flow time				
Bowl size - mm	Total Drainage Load	DRAINAGE LOAD – Sink bowl 75% Volume	Mechline BioCeptor (96Lpm) - time to discharge	DRAINAGE LOAD – 2nd Sink bowl 66% Volume	DRAINAGE LOAD - Total for 2 x Sink bowl unit	Mechline BioCeptor (96Lpm) – combined time to discharge
250 x 250 x 200	12.5L	10.0L	6 secs	8.25L	18.25L	11 secs
400 x 400 x 300	48L	36.0L	23 secs	32L	68L	43 secs
500 x 400 x 250	50L	37.5L	24 secs	33L	70.5L	44 secs
500 x 400 x 300	60L	45.0L	28 secs	30L	75L	47 secs
600 x 450 x 250	67.5L	51.0L	32 secs	44.5L	96.5L	60 secs
600 x 450 x 300	81L	61.0L	38 secs	53.5L	114.5L	72 secs

PDI/ASME size interceptors based on their ‘flow’ control measurement, to determine **the possible peak flow from kitchen drainage**. ‘Size’ in the traditional sense, i.e. volume, is not relevant – a ‘big’ trap won’t necessarily be good at stopping FOG.

With Mechline’s BioCeptor, FOG retained in the F.I.T unit is broken down through the process of bioremediation, which prolongs the time it takes to reach maximum capacity (and requires emptying). BioCeptor is efficient at capturing FOG and then effective at breaking it down which means the FOGS cannot reform or solidify, keeping drains clear and free flowing. **Sizing rational based on volume capacity fails to consider these variables.**

In the UK many specify interceptors based on volume, which is not key criteria for determining performance. In fact, the greater the capacity of FOG within a unit, without any bio treatment, the less effective it is and the more maintenance / servicing is required.

BioCeptor’s F.I.T unit has been independently certified to AMSE and PDI to retain on average 95.6% of FOG at 1.6 litres per second (96 litres per minute).

Correct installation of the BioCeptor is essential to its performance in retaining and removing Fats, Oils and Grease (FOGs) and protecting the drainage system. Failure to install the BioCeptor correctly, or connecting too many appliances to a F.I.T unit could result in FOGs escaping into the drainage system. It could also result in the need for more frequent maintenance and cleaning of the F.I.T unit. This guide is intended to provide outline advice on correct installation, however, every operation and every application is different, so if you are in any doubt, please contact Mechline for advice.

7.1 POT WASH SINKS, PRE WASH / RINSE DISHWASH TABLING

In many kitchen operations, the pot wash sink can be responsible for discharging high levels of Fats, Oils & Grease (FOGs) into the drainage system. It is therefore essential that the drainage pipework from the pot wash sink is protected by the BioCeptor. Similarly, dishwash pre-rinse tabling and bowls, should be connected to a BioCeptor. In both cases, we highly recommend the fitting of a food waste strainer upstream of the BioCeptor. Failure to fit a food waste strainer, could cause the F.I.T unit to reduce efficiency and even block.

Chapter 7. BIOCEPTOR F.I.T UNIT SIZING GUIDE *continued...*

7.2 FOOD WASTE DISPOSERS

Food Waste Disposers should not be connected to the BioCeptor under any circumstances, as the sludge they discharge could cause blockages.

7.3 OTHER APPLIANCES

The BioCeptor is designed to accept the discharge from appliances such as **combination ovens** or **dishwashers** if required. Some water companies / sewer management providers would advise that dishwashers should not be connected to FOG trapping devices, however the BioCeptor F.I.T unit is designed to accept the discharge from dishwashers if required. Always check with the relevant local water / sewer management company and manufacturers before connecting the drainage pipework. Do not fit a food waste strainer prior to the F.I.T unit with discharge from a dishwasher machine.

Be sure to use waste pipe that can withstand increased temperature of water discharged from a combination oven or dishwasher. Most combination oven manufacturers offer drainage kits which include a heat resistant pipe and tundish. It is important to uphold water and waste regulations to ensure a suitable air gap is provided between the appliance and the drain to prevent back flow. It is also important to use correctly sized drain pipe and not reduce the diameter between the tundish and the BioCeptor. Direct connection of a combi to waste pipework is not permissible.

Water temperature into the BioCeptor should not exceed 55°C. Discharge temperatures of combination ovens or dishwashers often exceed 65°C. For this reason the minimum distance from the appliance (which is a source of heat) to the bio-fluid dosing point should be 2m and at least 1m away from the GreasePak dosing module, as excessive heat will compromise the effective performance of the bio-fluid (please see section 4.7 on page 5).

Manufacturers also recommend to place each combination oven on a separate drain. If multiple ovens are used, please refer to the Sizing Guide on page 15.

It is also advisable to check with the oven manufacturers to ensure any cleaning agents being used will not affect the performance of the BioCeptor.

Please refer to the British Water FOG Code of Practice: www.greasepak.com/index.php/information
www.britishwater.co.uk/code-of-practice-food-service-industry-fats-oils-and-grease.aspx

7.4 LOW and HIGH FOG PRODUCING SITES

The number of appliances that can be connected to the BioCeptor will vary according to whether the kitchen can be considered a HIGH FOG PRODUCING SITE, or a LOW FOG PRODUCING SITE. To help determine this we have devised a rough scoring guide based on the main factors that will affect the volumes of FOGs discharged into the drainage pipework:

7.4.1 Menu items:

If the menu regularly includes foods that could be considered as having high oil, starch or fat content, then it follows that a degree of the FOGs will find their way into the drainage system from the ware-washing operations and from any FOG producing appliances.

The menu items regularly include high oil, starch or fat content	5 points
The menu items rarely include high oil, starch or fat content	2 points

7.4.2 Number of covers per day:

The operation produces more than 75 covers per day	4 points
The operation produces fewer than 75 covers per day	3 points

7.4.3 Discipline of the staff in ensuring FOGs do not enter the drainage system:

This can be the biggest factor, because if the staff are disciplined in using disposable wipes to wipe down plates, pots & pans and utensils before the items are sent for ware-washing, and in capturing used cooking oil from pots and pans, a huge volume of FOG is prevented from entering the drainage system.

The staff are not really disciplined in FOG management procedures	6 points
The staff are regularly trained in FOG removal and are provided with the equipment to carry it out	2 points

If the total score for the operation is 11 points or lower, it can be considered as a LOW FOG PRODUCING SITE.

If the total score for the operation is 12 points or higher, it can be considered as a HIGH FOG PRODUCING SITE.

7.5 EXAMPLES

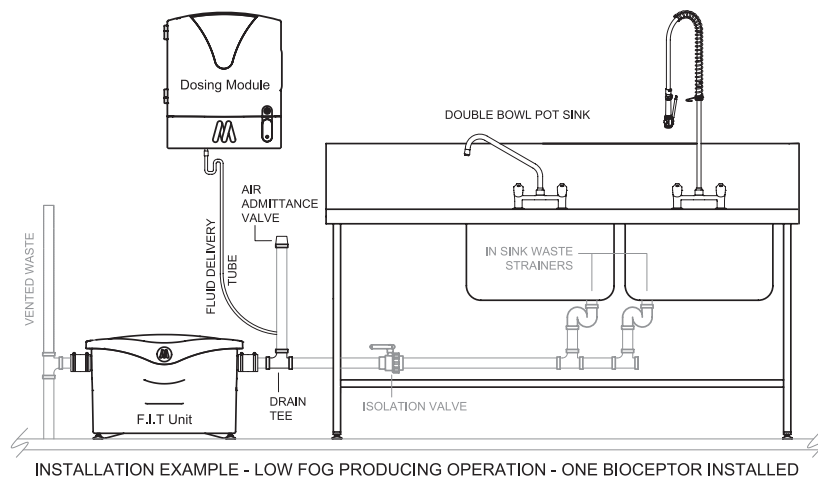
A site may produce over 100 covers per day of high FOG content food, but the staff are disciplined in ensuring the FOGs do not enter the drainage system. $5 + 4 + 2 = 11$ = LOW FOG PRODUCING SITE because most of the FOGs do not make it to the drainage system.

On the other hand, a smaller site producing fewer than 75 covers per day of high FOG content food where the staff are not trained in FOG removal would score $5 + 3 + 6 = 14$, which would be treated as a HIGH FOG PRODUCING SITE.

A busy site producing a low FOG containing menu, where the staff are not trained in FOG removal would score $2 + 4 + 6 = 12$ = HIGH FOG PRODUCING SITE because of the high number of covers.

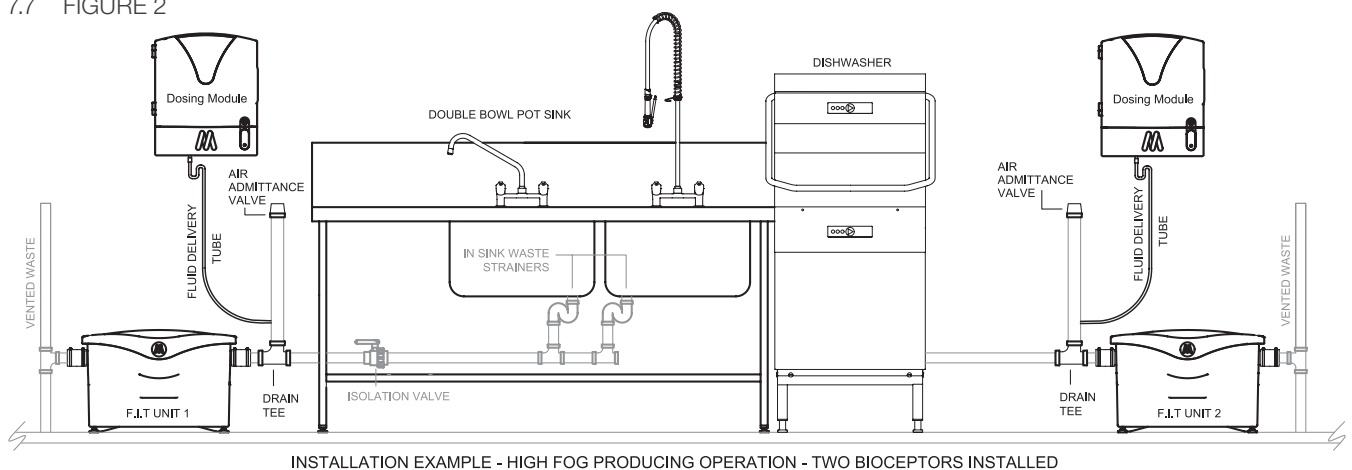
A smaller site producing a low FOG containing menu, where the staff are not trained in FOG removal would score $2 + 3 + 6 = 11$ = LOW FOG PRODUCING SITE because of the low number of covers, and the low FOG content of the food.

7.6 FIGURE 1



Above is an example of a BioCeptor installed in a LOW FOG PRODUCING SITE. The double pot wash sink and dishwasher are connected to a single BioCeptor. Always check with the relevant local water / sewer management company and the dishwasher machine manufacturer whether dishwashers can be connected to FOG trapping devices.

7.7 FIGURE 2



Above is an example of two BioCeptors installed in a HIGH FOG PRODUCING SITE. The double pot wash sink is connected to one BioCeptor, and the dishwasher is connected to a separate BioCeptor. Always check with the relevant local water / sewer management company and the dishwasher machine manufacturer whether dishwashers can be connected to FOG trapping devices.

If the dishwasher is not to be connected to the BioCeptor, it is recommended to connect a Mechline GreasePak biological dosing system. Contact Mechline for advice.

Chapter 8. BBA APPROVED

Mechline's GreasePak bio-fluid dosing module has been through rigorous testing, providing customers with the utmost confidence in its effectiveness and quality. We are proud to say that it is the only product of its kind in the UK to be approved by the **British Board of Agrément (BBA)** as a recognised form of effective grease removal. If you have any questions, please do not hesitate to contact Mechline gpservice@mechline.com or your dealer.

Mechline Developments Ltd

ONE Brudenell Drive
Brinklow,
Milton Keynes
Buckinghamshire MK10 0DE
England
Tel: 01908 261511
e-mail: info@mechline.com
website: www.mechline.com



Agrément Certificate
11/4827
Product Sheet 1

MECHLINE CATERING EQUIPMENT

GREASEPAK BIOLOGICAL GREASE DEGRADATION SYSTEM

PRODUCT SCOPE AND SUMMARY OF CERTIFICATE

This Certificate relates to the GreasePak Biological Grease Degradation System, for use in drainage systems to convert fats, oils and grease into more soluble products and to minimise the risk of blockage.

AGRÉMENT CERTIFICATION INCLUDES:

- factors relating to compliance with Building Regulations where applicable
- factors relating to additional non-regulatory information where applicable
- independently verified technical specification
- assessment criteria and technical investigations
- design considerations
- installation guidance
- regular surveillance of production
- formal three-yearly review.



KEY FACTORS ASSESSED

Effectiveness — the system is an effective means of removal of fats, oils and grease from waste water discharged from commercial kitchens and similar establishments (see section 5).

Environmental information — the system will have a positive environmental impact by reducing the discharge of fats, oils and grease into the sewer system (see section 6).

Flow characteristics — the system will not impair the flow characteristics of an existing drainage system and over a period of time should improve them (see section 9).

The BBA has awarded this Agrément Certificate to the company named above for the system described herein. This system has been assessed by the BBA as being fit for its intended use provided it is installed, used and maintained as set out in this Certificate.

On behalf of the British Board of Agrément

Date of First issue: 7 April 2011

Brian Chamberlain
Head of Approvals — Materials

Greg Cooper
Chief Executive

Certificate amended on 21 May 2015 to include change of images and page 4, 2.1.

The BBA is a UKAS accredited certification body — Number 113. The schedule of the current scope of accreditation for product certification is available in pdf format via the UKAS link on the BBA website at www.bbacerts.co.uk

Readers are advised to check the validity and latest issue number of this Agrément Certificate by either referring to the BBA website or contacting the BBA direct.

British Board of Agrément
Bucknalls Lane
Garston, Watford
Herts WD25 9BA

©2011

tel: 01923 665300
fax: 01923 665301
e-mail: mail@bba.star.co.uk
website: www.bbacerts.co.uk

Chapter 9. ON-GOING REQUIREMENTS

9.1 MAINTENANCE

On-going maintenance and cleaning is essential for the effective and efficient working of the BioCeptor. The site must have appointed a qualified contractor to undertake this work.



- **Mechline advise that a certified and qualified grease trap maintenance / drain service company undertake this work. Regularity of attending will be determined by the service company, analysing usage and operations.**
- **It is a requirement of the water companies that records be kept of the maintenance schedule.**
- **You must ensure your waste contractor is an Environment Agency licensed waste carrier and that they give you a copy of the waste transfer note.**

9.2 GENERAL CLEANING

The dosing module and the outer casing of the F.I.T unit is designed to be easy to clean, simply wipe over with a clean disposable cloth and fresh water after changing the bio-fluid box and as part of the general kitchen cleaning program.



- DO NOT use bleach, anti-bacterial agents or other harsh cleaning chemicals on or inside the machine.
- DO NOT try to jet or spray wash the inside or outside of the dosing module.
- NEVER pour floor washing or cleaning water into the drainage system and avoid using cleaning products containing biocide, limonene and terpenes in your day-to-day kitchen cleaning program.



Mechline's bio-fluid is a completely safe, Class 1 non-hazardous fluid. No harm will come from touching it, but if in doubt wear gloves when cleaning up any fluid spills.

9.3 OPERATIONAL TIPS

Certain fundamental tasks need to be performed by staff, on a regular basis:

- Replace the bio-fluid in the GreasePak dosing module as soon as you hear the alarm buzzer, approximately every month. Always keep a spare box of bio-fluid in stock to avoid running out. Failure to replace bio-fluid could put your drains at risk and violate local building regulations.
- Replace the battery pack in the GreasePak dosing module as soon as you see the 'Low Battery' light flashing.

Chapter 10. AFTER SALES and SERVICE SUPPORT

10.1 TECHNICAL ASSISTANCE

For technical assistance, please contact Mechline technical@mechline.com or your maintenance & service company. Please have the serial number to hand. The serial number for the GreasePak dosing module can be found on the inside of the unit door. The serial number for the F.I.T unit can be found on the side of the tank.

10.2 WARRANTY

The Mechline BioCeptor biological drain maintenance system carries a parts only warranty of twelve (12) months apart from the F.I.T unit tank and lid which carry a ten (10) year extended parts only warranty. Warranty excludes labour and/or site attendance and no reimbursement of costs can be made relating to site attendance by the customer or their representatives. The Warranty excludes improper use, misuse and inappropriate product selection for the application.

NOTE: *Bio-fluid and battery packs are basic 'consumable' goods and not subject to warranty.*

Each Mechline BioCeptor is carefully inspected for manufacturing defects prior to despatch, however, it is not always possible to detect hidden defects. The BioCeptor is warranted to the extent that Mechline will replace without charge products proven to have manufacturing defects within the warranty period (from the date of invoice), and provided Mechline has been given the opportunity to inspect the product alleged to be defective, and to inspect the installation of the product. This is a parts only warranty, and no warranty is included against labour costs for removal, reinstallation or any other related costs.

Mechline's 10 Year Extended Tank & Lid Warranty

The BioCeptor F.I.T unit is engineered from advanced materials, and the tank & lid is warranted for ten (10) years from the date your online submission is received. **Details must be completed online at www.mechline-environmental.com/warranty and received by Mechline within thirty (30) days of installation in order for the extended tank & lid warranty to apply.**

The ten (10) year warranty covers defects to the BioCeptor tank or lid, resulting from faulty manufacture of materials as well as perforation of the tank or lid based on normal operating and installation conditions. Mechline does not provide a warranty for perforation resulting from mechanical or chemical causes of abnormal use, including physical impact, the use of inappropriate cleaning materials, incorrect installation, or other causes deemed to be abnormal. The Mechline BioCeptor tank and lid is warranted only to the extent that Mechline will replace, without charge, products proven to have manufacturing defects or perforation (other than perforation resulting from mechanical or chemical causes) within the specified ten (10) year warranty period and provided Mechline has been given the opportunity to inspect the tank and/or lid which is alleged to be defective, and to inspect the installation of the product. This is a parts only warranty, and no warranty is included against labour costs for removal, reinstallation or any other related costs. For the avoidance of doubt, the extended warranty covers the BioCeptor tank and lid parts only, and does not cover other parts including seals, connectors, lid screws, adjustable feet, baffles, or GreasePak dosing module parts or tubing.

10.3 SPARE PARTS

For spare parts contact Mechline technical@mechline.com or your dealer. See section 6.6 for the F.I.T unit parts diagram.

Distributed by:



MECHLINE DEVELOPMENTS LIMITED | Telephone: +44 (0)1908 261511 | Email: info@mechline.com | Web: www.mechline.com



ASME A112.14.3 / PDI G101