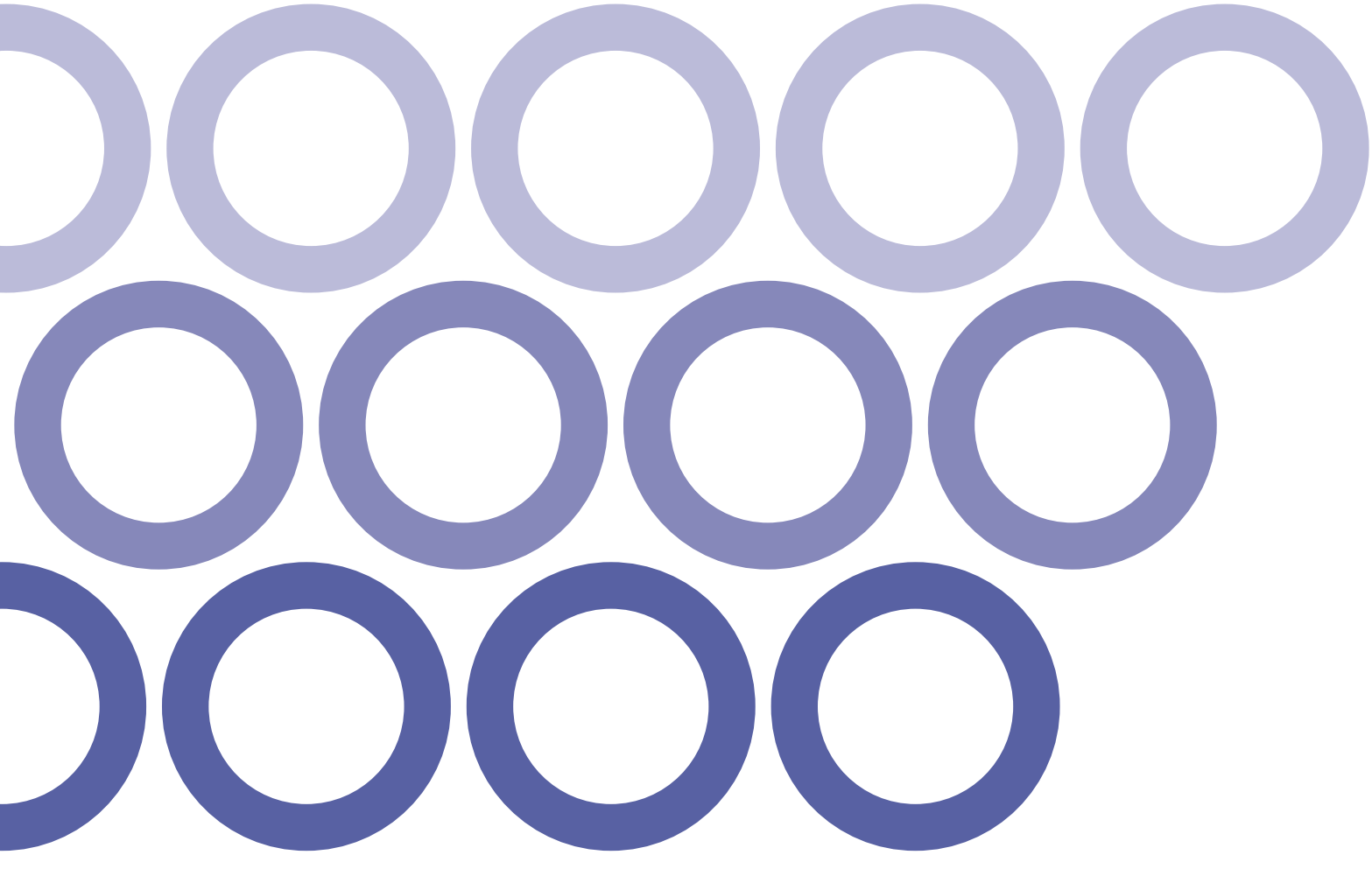
FOG Solution

The ultimate solution.
For sinks, drainlines and grease traps.
100% organic.



Our mission

We solve problems
without creating new problems.
Simple, reliable and sustainable.

The concept of FOG Solution.
Nature does the work for you.

The simple approach

Proofed by evolution:
Use the capabilities of natural microorganisms
to effectively solve a biological problem.

Reliabiltiy at work

Select and combine microorganisms that work together
like a work bench to achieve optimal bioaugmentation.
Allow the microorganisms to unfold their unparalleled
capacities.

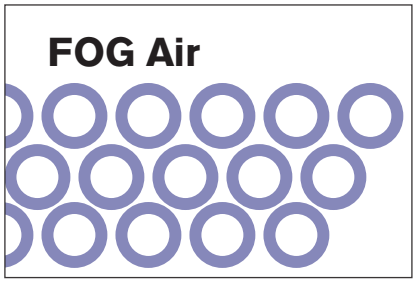
Sustainable benefits

Working with the principles of nature always leads to
positive results:

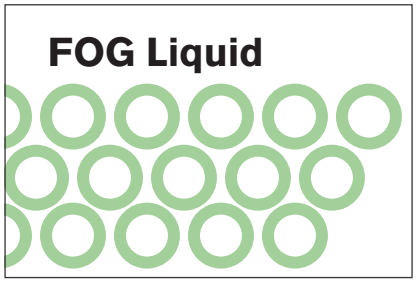
- Low energy input, high level of bioaugmentation
- Less total cost for management and disposal of fat, oil, grease and waste water
- Excellent quality of waste water
- Preserving the environment

FOG Solution.

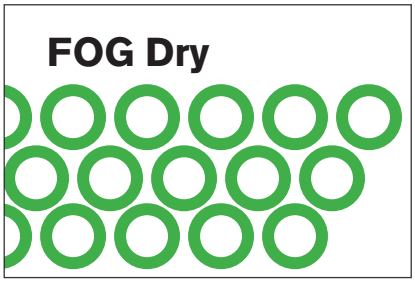
Three products: simple, effective and reliable.



Aerator
For optimal oxygen input in grease traps. This ensures that microbes can work at the highest level.
Installation: The areator will be simply integrated in the grease trap and operates with the silent compressor.



Drain cleaner
A special blend of selected naturally occurring microbes that effectively and reliably breakdown the molecular structure of oils, fats and organic residues.
Dosage: sink in the kitchen with a dosing systen (peristaltic pump).



Drain cleaner
A special blend of selected naturally occurring microorganisms, in spore form, that effectively and reliably breakdown the molecular structure of oils and fats.
Dosage: sinks in the kitchen.

Advantages

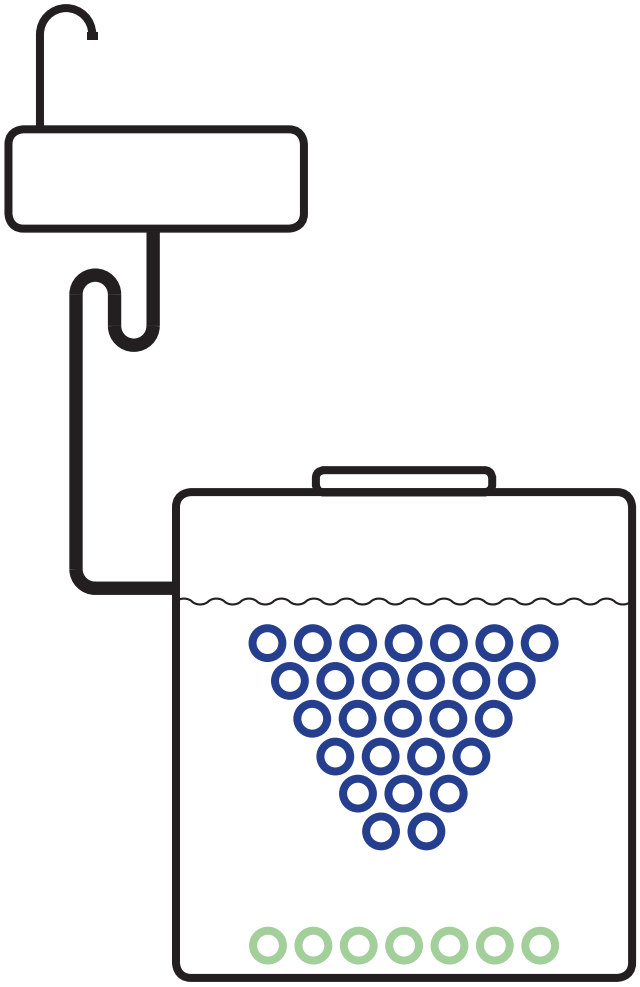
- Clean waste traps, outlets and pipes
- No unpleasant odour in kitchens and grease traps
- Maximum degradation of fats, oils and organic materials
- Maximum one time cleaning of grease traps per year or as required
- Excellent wastewater quality
- Minimum operating costs
- 100% organic, 100% sustainable

The biological system.
From the kitchen to the grease trap.

Kitchen

Grease, oil and organic material enter the pipe via the inlet and are collected in the grease trap.

FOG Liquid and FOG Dry are regularly added to the sink. FOG Liquid ideally with a dosing system (e.g. peristaltic pump).



Grease trap

FOG Air (aerator or oxytonic) ensures a sufficient oxygen input in the grease trap:
- Fat, oil and organic wastes are broken down and digested by FOG's microorganisms, producing water and CO_2.
- Phosphorus produced by the microorganisms is bound in the residual sludge.
- After 6 weeks, about 90% of the organic residues that entered the grease trap have been broken down.

Important requirement for starting:
Grease trap must be cleaned and filled with fresh water.

The aerator.
For optimal oxygen input.

Grease trap

Easy plug-in solution
The aerator is made to measure, depending on the size of the grease trap and simply set into the grease trap.

Silent compressor
In combination with a timer, the silent compressor ensures regular input of oxygen.

Advantages:
- Automatic aeration
- Individual pressure control
- Indoor installation (220V power connection)
- Allows long distance hose routing to the grease trap: underground or in the sewer pipe
- Low investment and operation cost
- Minimum installation cost
- Very silent

Disc diffuser
High oxygen transfer efficiency into the grease trap with small oxygen bubbles.
Aerator with one or two disc diffusers, depending on the size of the greasetrap.

FOG Solution
Best Practice

Location:
Restauran La Parenzana
Buje/Croatia

Situation:
Not connected to public sewer system.
Intensive malodours in the surrounding neighbourhood.

Installation FOG Air (3 aerators):
1 aerator in the grease trap
1 aerator in the septic tank (1)
1 aerator in the septic tank (2)

FOG Liquid, FOG Dry and Perfect Clear:
Dosage according to product guidelines.

Start of Operation:
April 2020

Wastewater analysis:
July 2020, 3 months after start of operation

Results of the wastewater analysis:

Parameters	Results
Water temperature:	25,0 °C
pH value:	7,8
Temperature during pH measurement:	23,8 °C
Suspended solids:	235 mg/L
Settleable solids - Imhoff:	< 0,3 ml/L
COD:	629 mg O_2/L
BOD_5:	295 mg O_2/L
Nitrogen:	9,68 mg N/L
Phosphorus:	5,6 mg P/L
Anionic tensides - MBAS:	8,28 mg/L
Hydrocarbons:	3,3 mg/L
Fats and oils:	53,8 mg/L

Summary:

1. Effective biological functionality of FOG Solution.
2. Environmental friendly discharge of the wastewater.
3. No malodours, neither in the grease trap nor in the septic tanks.

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100% natural microorganisms.
Safe for humans, animals and the environment.

All of the microbial species originate from the natural environment and have not been genetically modified in any way.

Individual strains are identified by 1500 bp 16S rDNA sequencing and are assigned QPS (Qualified Presumption of Safety) status as defined by EFSA.

All strains are listed on the BIOHAZ statement on QPS (Qualified Presumption of Safety) status: suitability of taxonomic units.

All species are defined as ‘Class 1’, the lowest risk category, according to all International classification schemes, and none are considered pathogenic, nor ‘hazardous’, according to Council Directive 2000/54/EC.

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