

— eloy water

the compact filter x-perco[®]

eloy



10-year
guarantee
on the
filter media



zero
noise



zero
energy
consumption

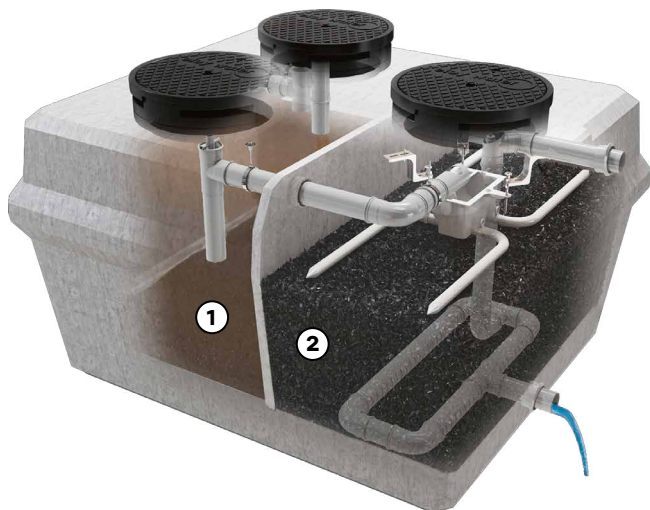
Use

The compact x-perco® filter is the least cumbersome, zero-energy solution available to treat your wastewater.

The x-perco® filter is a simple, efficient, cost-effective, easy-to-maintain and durable solution designed to meet your needs.

operation

The compact x-perco® filter works by **percolation**. This simple, cost-effective process is driven by gravity in **two phases: primary decanting and filtering via the xylit filter media**. Xylit consists of natural wood fibres derived from lignite. It has a minimum life span of 10 years, can be composted according to the French NF U44-095 standard, and has a low ecological impact.



two chambers work together to ensure optimal treatment

① the **primary decanter**

The wastewater enters this compartment, called the primary decanter. It is pre-treated to detach solids.

② the **compact filter**

The pre-treated wastewater is then spread evenly over the filter media by a small rotating device: the **aquacan**. This distribution system was developed and patented by eloy water.

The wastewater percolates through the **xylit** filter and is naturally treated without energy, then evacuated.

Option: pumping stations.

the aquacan — our patented **rotative bucket**

Our unique rotative bucket guarantee an **optimal water distribution** over the xylit.



xylit from eloy: what is it?



- ✓ a by-product of lignite extraction
- ✓ consisting of semi-fossilised natural wood fibres
- ✓ large contact surface for bacteria production
- ✓ high carbon content



durable
guaranteed life expectancy of 10 + 2 years



stable
resists time and compacting



quick
grows a dense bacterial bio-film very rapidly



effective
treats pollution by breaking it down biologically

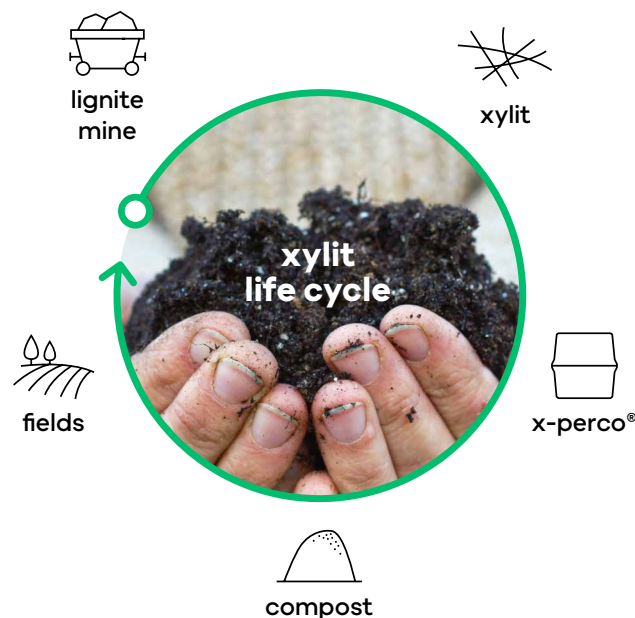


co-compostable
recycled at the end of its life

a sustainable development approach

we **recycle** xylit waste

Xylit enjoys a new life in our x-perco® treatment stations. It works as a **filter media** for the benefit of the environment. At the end of its life, it again becomes a waste product. It is then **co-composted** to become a high added-value product with multiple uses.



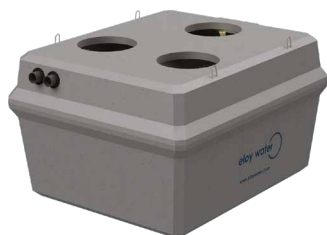


the product **range**

the x-perco® compact filter provides a **range of installation options** depending on the specificities of the project:

x-perco® C-90

- self-compacting, fibre-reinforced concrete
- insulation is available if there is groundwater present
- supports the weight of authorised light vehicles ($\leq 3,5$ t)
- range from 5 to 20 PE



x-perco® R-90

- rotomoulded polyethylene
- won't deform and can't be crushed
- compact, strong and light
- range from 5 to 6 PE



x-perco® KIT

- sizes based on the project
- integrated in pre-fabricated concrete tanks, poured on site or composite materials



benefits

✓ exceptional durability

- robust self-compacting fibre-reinforced concrete for durability and light weight (C-90 version)
- strong and durable

✓ very cost effective

- zero energy
- no pump or controller
- low carbon footprint

✓ easy to access and install

- the square shape facilitates earthworks
- all internal components are easy to access and disassemble

✓ particularly discreet

- completely buried: negligible visual impact
- odour free
- noise free

✓ extremely reliable

- no risk of failure
- gravity operated
- unequalled high performances



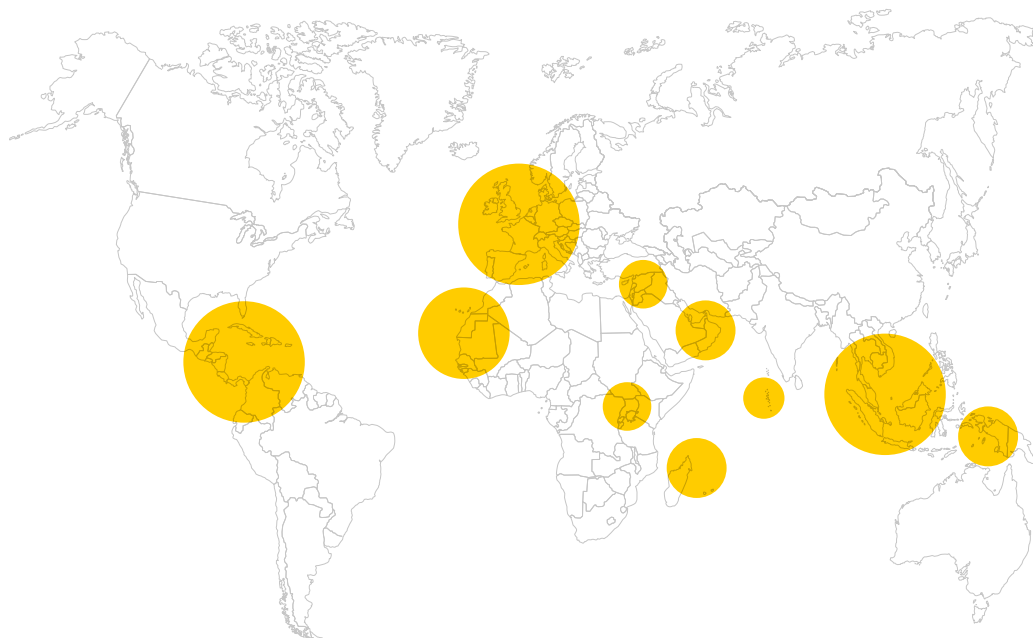
performance

BOD ₅	TSS
< 15 mgO ₂ /L	< 10 mg/L

Sources: CE certifications (EN-12566-3) carried out on the PIA platform - Aachen (NB1739).
Inflow: average concentration on entry: DBO₅.



become a new eloy partner



who are we?

Specialized in water management from wastewater treatment to rainwater harvesting and pumping station, eloy water has been a leader in the industry both for end-users and medium-sized private or public communities.

more information is available at
eloywater.com

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