

Presentation

**Grease
interceptors**

Oil separators

**Stormwater
treatments plants**

Hydraulics

**Waste water
treatment plant**

Water storage

For over 40 years, Saint Dizier Environnement has been a leader on the French market in the stormwater treatment industry. Our company has been designing, manufacturing and selling stormwater treatment plants since 1973. Saint Dizier Environnement operates in the following sectors :

- Oil separators, grease interceptors
- Stormwater management
- Stormwater treatment in urban and industrial environments
- Domestic wastewater treatment

◆ Saint Dizier Environnement's target market sectors

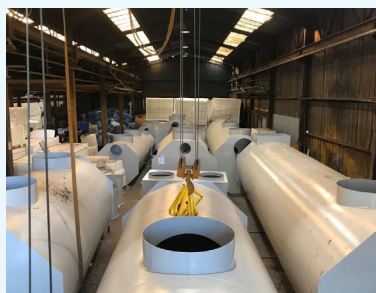


Our **target market sectors** are **local authorities** and **industrial sites**, which cover business parks, airport areas, metal recycling areas, petroleum sites, ship repair facilities or stormwater management and treatment control facilities.

Set up in three strategic geographical areas (*North of France, Paris, South of France*), Saint Dizier Environnement's organisation is based on the **proximity between the decisional and business units**, a **Research & Development department** and **French manufacturing workshops**. This organisation guarantees **flexible solutions for customers** and a **safe quality management system**.

◆ A proactive Research & Development department

Our R&D process relies on an **efficient design and engineering department** for the development of innovative products. This way, Saint Dizier Environnement's products are tailored to your specific water treatment projects. Our R&D department is based in Gondecourt and supported by :



- A team of qualified engineers and technicians skilled in next-generation technological solutions,
- High-end CAD tools (*modelling in hydraulics and structural stability*)
- French, European and international patents to establish our innovation capability
- Regular publications in magazines and participation in national seminars
- Continuous participation in national task forces

◆ An enhanced sales team

Saint Dizier Environnement has a **nationwide network** of sales managers and inside sales representatives. Our export sales team has 4 employees :

- An export sales manager
- A sedentary sales agent
- A project engineer
- A nordic countries sales manager

◆ French manufacturing sites



Saint Dizier Environnement has two manufacturing workshops in France: Lille and Nîmes. This production organisation meets the **quality requirements** of the ISO 9001 certification and enables more **flexible solutions** for our customers.

Grease interceptors

Provides settling, separation and storage functions of greases prior to their release in the wastewater system.

All products are designed according to standard EN 1825-1

♦ Business Line :



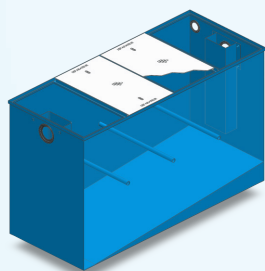
Restaurants, hotels, slaughter, fishmonger, company restaurants...

♦ Operation :

✓ 2 compartments

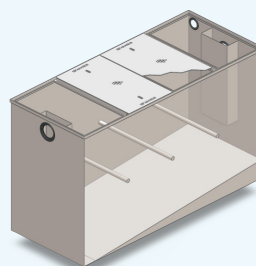
- > A sludge trap
- > A separation chamber to intercept greases and oils

♦ Materials :



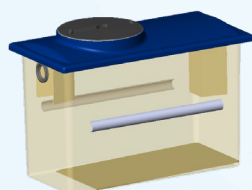
Coated Steel

- > From NS 1 to 10
- > Built-in buffers
- > Epoxy polyester powder coating



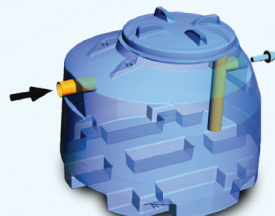
Stainless Steel

- > From NS 1 to 10
- > Built-in buffers



GRP

- > From NS 1 to 50
- > Lightweight device
- > Reinforcements for laying in ground water or above ground



Polyethylene

- > From NS 1 to 10
- > Economic
- > Lightweight device



Note :  Third party certification by an independent body

Options



› Grease and starches separators

› Drain column

› Grease alarm detection

› Raisers

Oil separators

Provides settling, separation and storage functions of oil before discharging the treated effluent in the sewage system.
All products are designed according to standard EN 858-1

♦ Business Line :



Gas stations, car parks, storage areas, car wash...

♦ Operation :

✓ 2 compartments

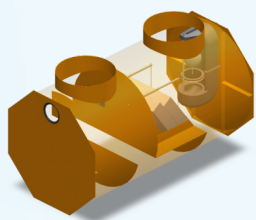
- > A sludge trap
- > A separator compartment with a coalescence system to separate oil from polluted water.



Oil separator operation
for gas stations



♦ Materials :



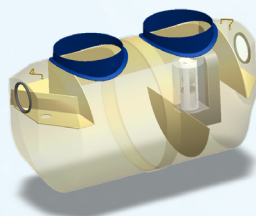
Coated Steel

- > From 1,5 l/s to 500 l/s with or without bypass
- > Epoxy polyester powder coating



Polyethylene

- > From 1,5 l/s to 10 l/s
- > Economic
- > Lightweight device



GRP

- > From 1,5 l/s to 300 l/s with or without bypass
- > Lightweight device
- > Reinforcements for laying in ground water or above ground



Note :  Third party certification by an independent body

Options



> Oil alarm detection

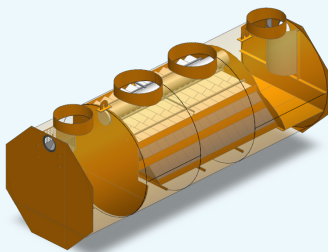
> Raisers

> Buffers

Stormwater treatments plants



◆ Settling tank : UTEP®LI



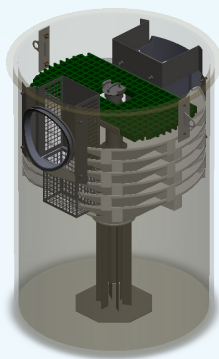
Treatment by settling of runoff water from roads, motorways and open parking areas

The UTEP®LI makes it possible through settling to intercept suspended matter (TTS) and the associated pollutants (*heavy metals, COD, oils and PAHs...*)

Material : in coated steel or GRP

Size: 36 to 540 m³/h

◆ Stormwater treatment plant : STOPPOL®



STOPPOL® ensures screening, settling and filtration of runoff water downstream of the drains and for catchment areas < 1000 m²

Treatment at the source for rainwater suited for alternative techniques with discharge into the natural environment or with infiltration into the ground

Performance : reduction in TTS, heavy metals, light liquids and associated pollutants

Validated effectiveness : 79.9% reduction in TTS, validated by independent laboratory IKT in Germany. Follow-up in operation for one year.

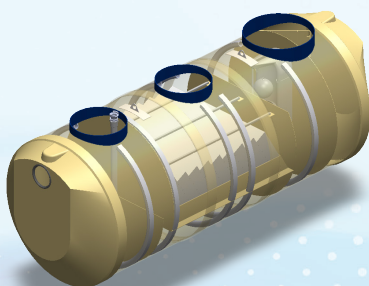
Available in GRP or in concrete



Stoppol®
operation



◆ Careening water treatment and filtration plant : CAREN®



Processing unit and filtration of effluent from dry dock areas

Operation : The dry weather flow rate (*careening*) is treated with a surface hydraulic load of 0.1 m/h, and the flow rate in rainy weather at 2 m/h.

The CAREN® unit accumulates 3 functions :

- Interception of floats
- Treatment via lamellar settling
- Water filtration

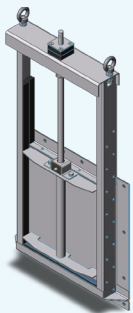
Size : From 36 to 144 m³/h

Material : GRP

Hydraulics



◆ Penstock valves



Isolation of networks in the presence of pollution or flooding

Operation : Closing off the sanitation networks with an upstream and downstream seal for a pressure of 7 mCE in compliance with standards BS7775 and DIN 19569-4

Material : Stainless steel 316L

Size : Ø 200 to 1500 mm

It can be controlled with a crank, manoeuvre key, flywheel or by motorisation.

◆ Flow limiter



Limitation of rainwater flows downstream of the retention basins, valleys, hydraulic structures

Operation : The vortex effect limiter behaves as a hydraulic resistance and makes it possible to increase the reliability of the limiting system by a large passage section that is always constant.

Material : stainless steel and PEHD

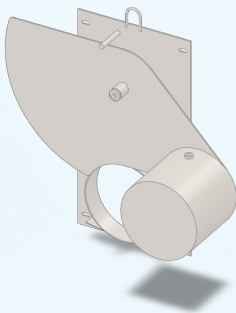
Size : from 0,5 l/s to 40 l/s



Regard
PVX



◆ Flow regulators



Flow regulators with floater : FLOREG and REGULO. Leakage flow control of storm water basins and storm water overflow.

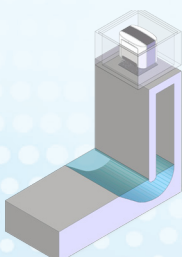
Material : stainless steel

Size : From 5 l/s to 1500 l/s (*special sizes on demand*)

Operation : The FLOREG flow regulator with floater is characterised by:

- A progressive closing of the orifice by a diaphragm connected to a floater
- Reaching the setpoint flow rate as soon as the orifice is loaded

◆ Basin Cleaning : CYMO®



Automatic flushing system for storm water basins and piping

Operation : The CYMO® system makes it possible to generate a depression in a volume of water, without anything additional, and to release it in the form of an equi-distributed waterfall.

The sludge deposits on the invert are then removed.



CYMO®

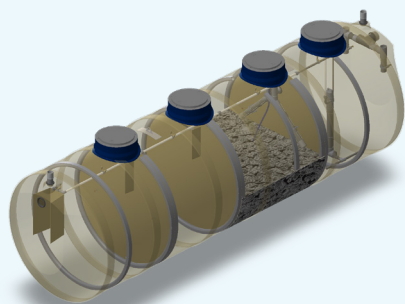


Waste water treatment plant



♦ Biological treatment plant : O2FIX®

Application : from small collective units, villages, public buildings, hotels, camp grounds commercial and industrial sites for living set-ups, sites and camps



Size : From 21 to 300 EI

Material : Polyethylene and GRP
(for treatment plants over 51 EI)

Operation : The O2FIX® biological treatment plant is comprised of: double tank primary settler: run-of-river pretreatment, settling of TTS, grease retention, optimisation of anaerobic digestion of sludge (*primary and biological with surplus storage*) aiming to reduce the volume of sludge to be extracted.

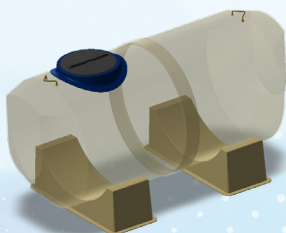
Biological reactor with fluidised bed : design validated by hydraulic control combined with the properties of the biological support and with the performance of the air distributors supplied by a compressor with high reliability.

Secondary settler : separation of biological sludge before discharge; excess sludge is then withdrawn and transferred to the primary settler. The treated water can be discharged into the surface environment or via infiltration into the ground or be re-used after a post-treatment.



Water storage

♦ Storage tanks



Material : Polyethylene, GRP or coated steel

Size : From 500 L to 60 000 L

Options : cradles and reinforcements for above ground installation

Some of our references around the world



Palma Airport – SPAIN
Oil separator 390 l/s



Tempi Tunnels – GREECE
Careening water treatment 36 m³/h



Porto Airport – PORTUGAL
Oil interceptor and sewer overflow tank



Factory Rastatt– GERMANY
Treatment plan 30 l/s

Some of our references around the world



Cacao Factory – CAMEROUN
Septic tank 45 m³



Port Ouest – LA REUNION
Careening water treatment 72 m³/h



Thessaloniki harbour – GREECE
Oil separator 65 l/s



Offshore substation – THE NETHERLANDS
Oil separator 30 l/s

saint dizier

ENVIRONNEMENT

— *Innovation to save water* —

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