

LABORATORY AND INDUSTRIAL RANGE

ORELIS Env. is active in mem-brane manufac-turing for more than 30 years.
ORELIS Environnement is manufacturing and supplying membranes, modules, skids which will be integrated in waste water treatment plant or recycling installations.
Our company is dedicated to environmental applications in various markets as Automotive, Chemistry, Metal Working, Pharmacy, Agro-Food, Paper, and Small Collectivities...

PLEIADE®

The **Innovative Solution** for Industries:
Polymeric and Ceramic membranes



The veins free liquids technology is most effective for demanding applications.

MINIPILOT



Perfect for feasibility studies
1 pilot 2 membranes technologies :
Microkleansep™ Module equipped with ceramic membrane
Rayflow® Module equipped with flat sheet membrane Pleiade®

KLEARSEP™



The best Oily Water Separator for the treatment of Bilge Water

KLEANSEP™



The robustness of the membranes allows the separation of organic and mineral particles, oils, polymers.

MP4®



It excels for its simplicity and robustness for the treatment of small communities wastewater such as base camps and resorts

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Protection

FLOSEP Hollow fiber COLUMN

Our job: design, produce and sell organic and ceramic membranes, Pleiade®, Kleansep™, Klearsep™, Flosep and Persep™ range, plan type, Spiral, Tubular Multichannel, and hollow fiber.

Innovative in the fields of purification and recycling of effluent, Orelis Environnement is an expert company in membrane separation technology, in the service of your processes.

We are working with installers and OEMs to implement our solutions membranes.

Our teams are at your disposal to find the solution to your needs.



FLOSEP: hollow fiber membrane module

Hollow fiber membrane module can be widely applied in many fields in industry and environmental protection.

Skid equipped with hollow fiber UF membrane module



Main applications areas

- Industrial wastewater treatment and reuse, such as: electroplating wastewater treatment; mine water reuse; boiler feed water treatment; ...
- Car washing water reuse;
- Reverse osmosis (RO) pretreatment;
- Sea water desalination pretreatment;
- Municipal sewage treatment and water reuse;
- Living area domestic wastewater treatment and water reuse;
- Food and beverage areas...

Picture of the outside-in hollow fiber membrane module

Outside dimensions: 225 x 1760 mm



Outside dimensions: 160 x 1320 mm



Outside dimensions: 160 x 1350 mm



Outside dimensions: 90 x 1120 mm



Performance of hollow fiber membrane

Membrane material	Polyvinylidene fluoride (PVDF)
Membrane diameter inside /outside	0.7/1.3mm
Average pore size	0.05μm / 0.1 μm / 0.2 μm
Operating Pressure	≤ 0.3MPa
Maximum trans-membrane pressure	0.2MPa
Operating temperature	5-45°C
Working PH value range	2-11
Cleaning PH value range	1-12
Pretreatment of accuracy requirement	<150μm
Maximum feed water turbidity	200NTU
Mode of operation	Dead-end filtration or Cross-flow filtration

Side view picture of the outside-in hollow fiber



Picture of the end face



Picture of PVDF hollow fiber membrane

