

## HEAT EXCHANGER BASED ON LOW COST MATERIAL

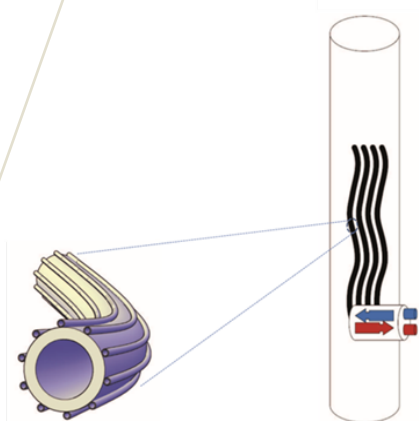
Heat exchanger based on low cost material, easy to install and maintain. It is based on a flexible polymer structure and left free in a moving external fluid.

**ERG\NEO**

L'AVENIR EST FAIT D'AUDACE

### PRESENTATION

While conventional heat exchangers use metal as the base material for heat exchanges, the new exchanger, which is a technological breakthrough, is based on a flexible polymer structure. The system is easily arranged in a free flow, typically in an existing wastewater pipeline. The movement of the thermal probes allows up to 30% increase in the power exchanged.



Flexer probe

Example of integration  
into a water pipe

Heat exchanger - Energy recovery - Fatal heat - Energy - Physics

### COMPETITIVE ADVANTAGES

- Inexpensive material (polymer)
- Low operating cost: ease of installation and maintenance (low fouling and resistant to chemical corrosion)
- High modularity, small footprint
- Good thermal efficiency

### APPLICATIONS

- In existing wastewater pipes
- In a river
- In agroalimentary and chemical processes for example

### INTELLECTUAL PROPERTY

French patent application n ° FR1858012, filed on September 6, 2018  
International patent application No. PCT / FR2019 / 051851, filed on July 25, 2019

### CONTACT

+33 (0)1 44 23 21 50  
industriels@erganeo.com  
Ref. project : 492

### DEVELOPMENT PHASE

- ✓ Device validated in the laboratory - TRL4