



**GRINP**<sup>®</sup>

lights your plasma



*More clean water*

*More clean air for people*

*And less costs for industries*

---

**ADVANCED PLASMA TECHNOLOGIES**

# Grinp Pair<sup>®</sup> system for air treatment





## ODOUR ABATEMENT

Breaking up organic molecules Pair system  
abates odour and decontaminates air.



## DISINFECTION

Pair system decontaminates air outdoor and indoor,  
for instance in case of bacteriological attacks



## VOC ABATEMENT

Pair system abates volatile organic compounds  
produced by industrial activities:

- Painting cabins
- Industrial sludge
- Automotive industry
- Mining industry

**Pair**<sup>®</sup>  
by Grinp



## A brand new solution for the global environmental threat

- High technology
- Compact design
- Easy integration
- Low maintenance

### Sustainability

- **No methane** needed to allow combustion
- **No water** usage
- **No** generation of **side products**
- **No** need of disposal **after usage**

### Energy savings

- Works at **room temperature**
- **No** need for **pre-heating**
- **High efficiency**, no dependance on the inflow
- Constant high **efficiency** over **time**

Pair<sup>®</sup> system is composed by **2 phases**:  
a chamber where **plasma** is generated and a **catalytic** unit to maximise the effect

## 1<sup>st</sup> phase

Plasma Catalytic Chamber

Positioning: flow collection point



## SCPCS

Self Cleaning Plasma  
Catalytic System

## 2<sup>nd</sup> phase

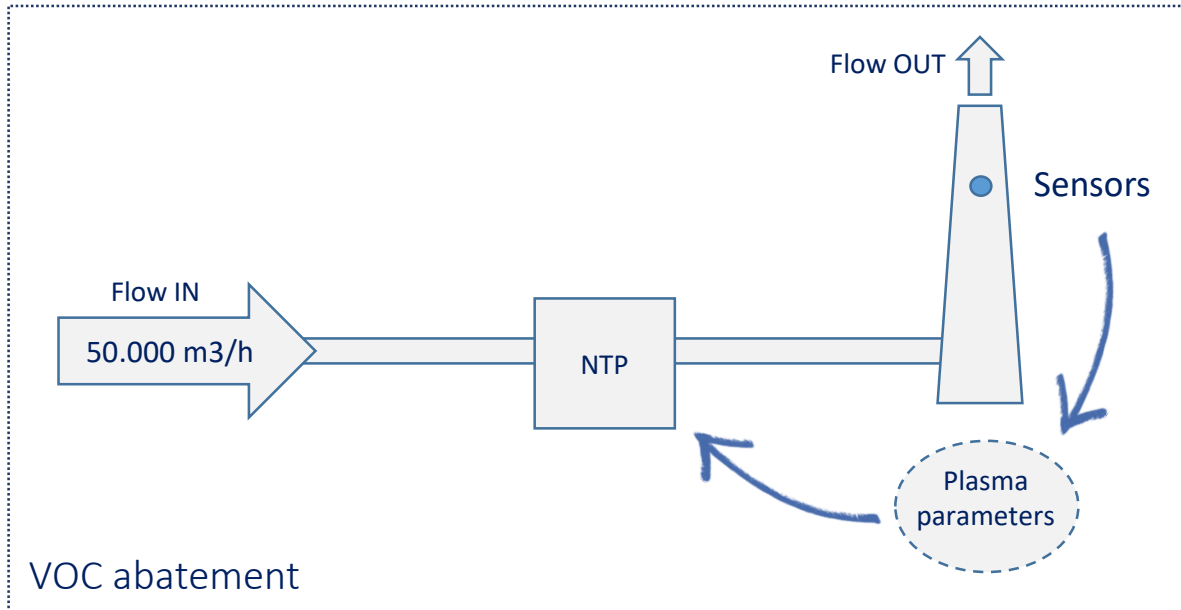
Catalytic unit

Positioning: end of pipe  
Final abatement≈ 95-98%

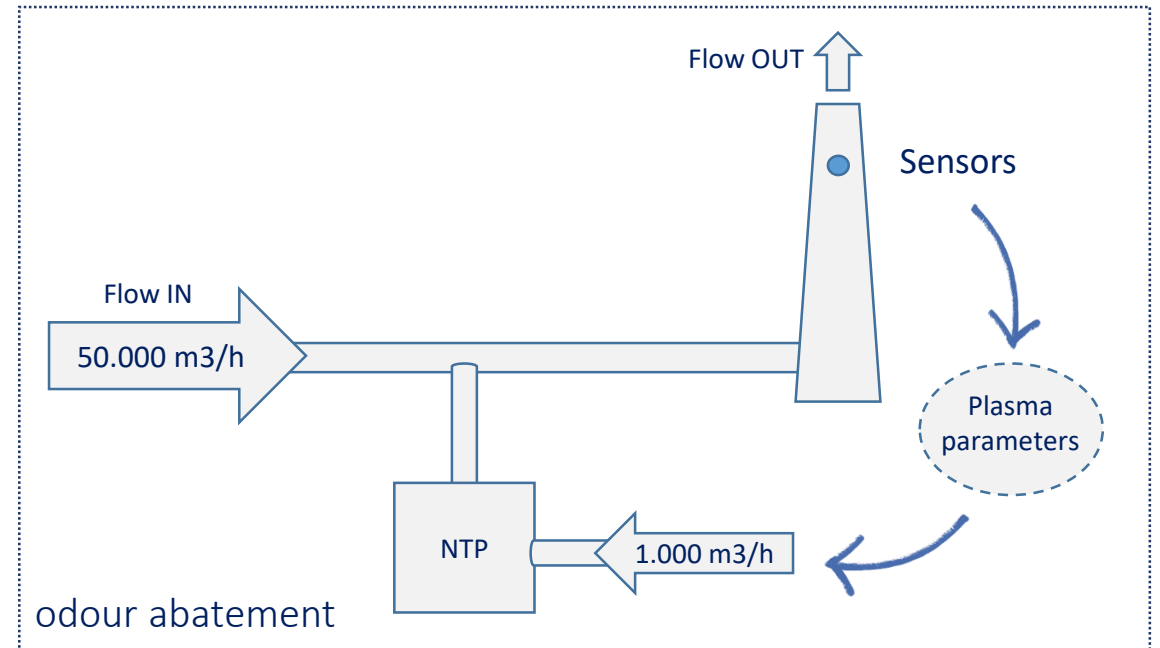


Enhances catalytic conversion  
and increases efficiency

## Direct plasma treatment of polluted gas



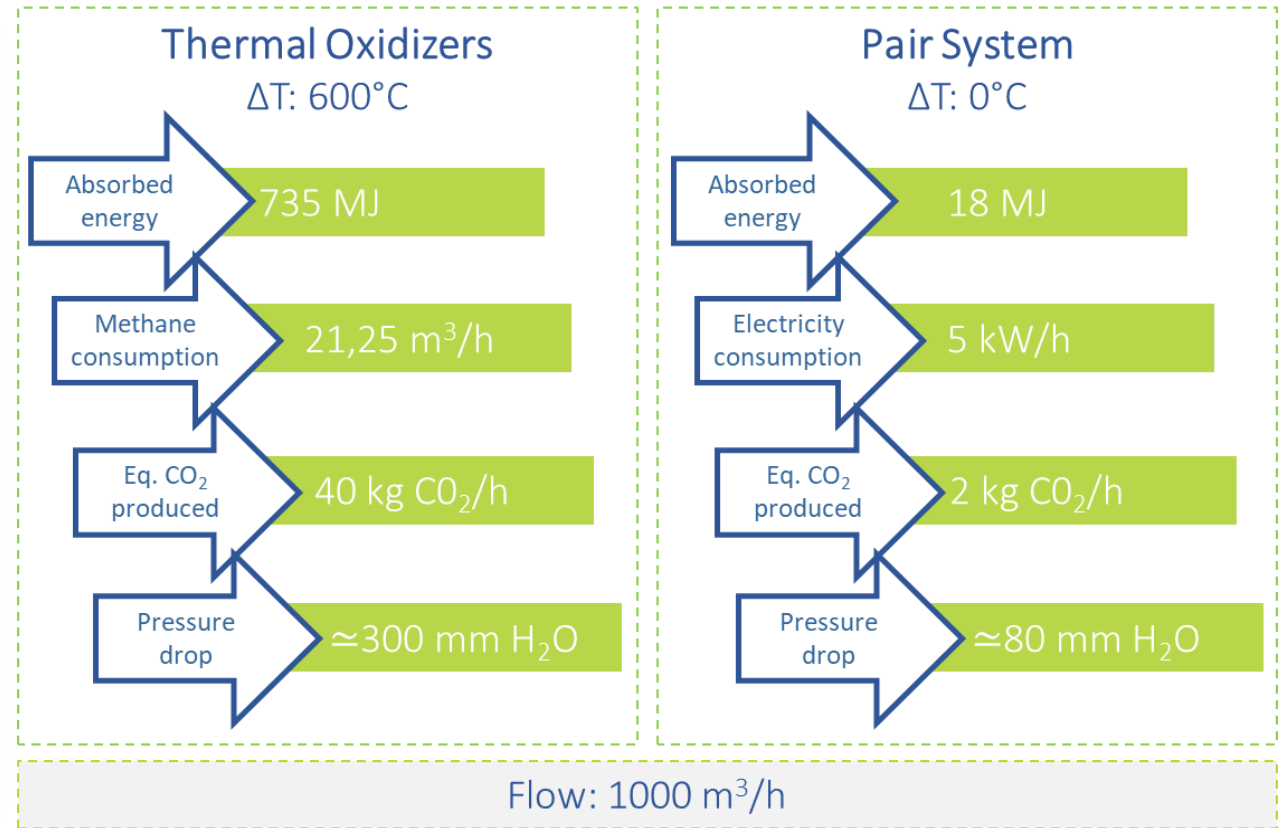
## Indirect plasma treatment of polluted gas

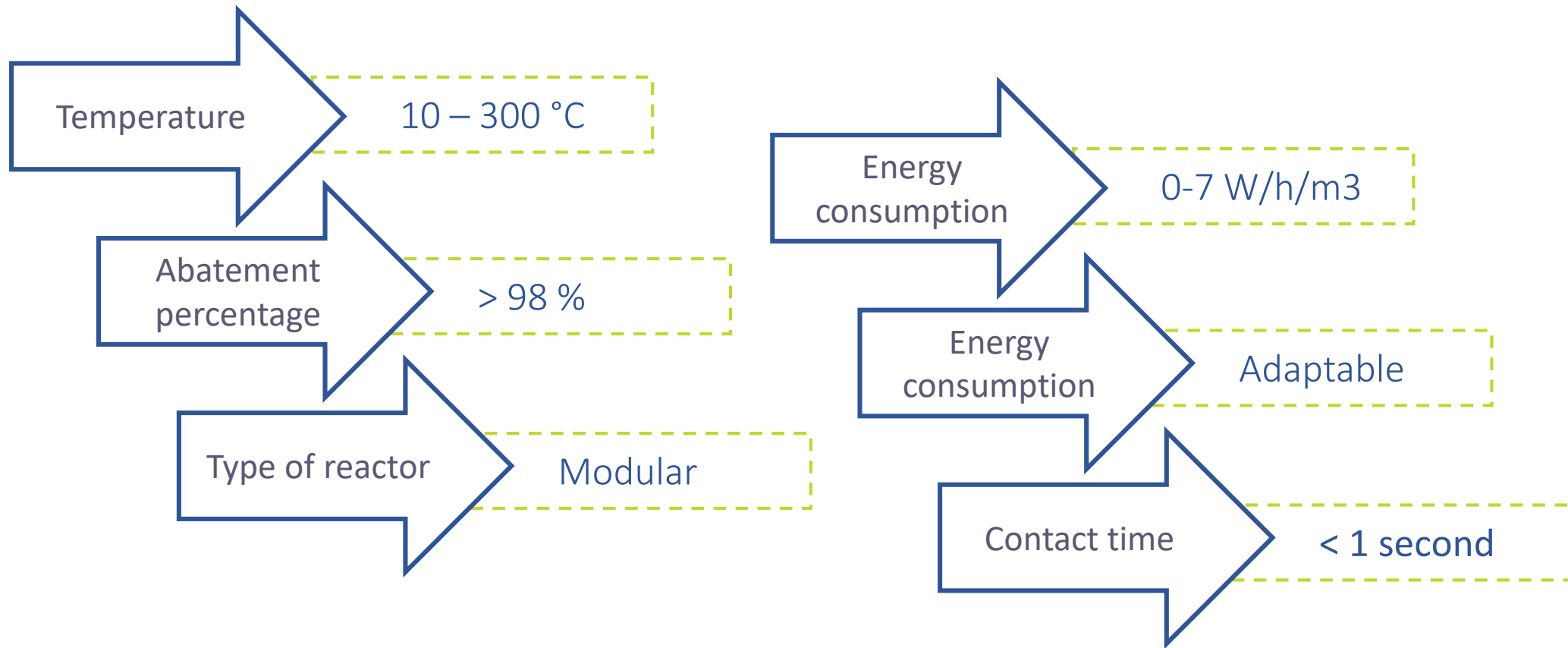


# Concrete VOC case study: impact comparison



Pair machines guarantee **maximum operational efficiency** given their **perfect adaptability** to **real-time pollutant concentration**







*We do not inherit the Earth from our ancestors  
we borrow it from our children*

*Thank you*



Via A. De Francisco 123  
10036 Settimo Torinese (TO)  
tel 011.295252  
e-mail [grinp@grinp.com](mailto:grinp@grinp.com)  
[www.grinp.com](http://www.grinp.com)