



**NEU  
JKF**

Dedicated to clean air

# PARTICLE FILTRATION

## Solutions for the filtration of oil mist, fumes, aerosols, electro-erosion smoke, etc.

Oil mist, aerosols, vapors, fumes, ..., can cause respiratory problems, pose a safety risk to operatives (slippery floors) and therefore the risk of occupational illness. The capture and filtration of these pollutants, ..., are essential for keeping the workplace environment clean and protecting operatives.



*Capture of oil mist*



*Smoke treatment as per regulations*



*Suction of welding fumes*



*Mobile ventilated workstation*

### OPERATING PRINCIPLE

#### 1. Capture at source:

The general efficiency of a filtration installation depends largely on the design of the collection hood. These may be enclosure or induced draft.

#### 2. Separation:

Dust or waste contained in the pollutant is separated before being transported. Air is then filtered.

#### 3. Filtration:

Whether it is for the filtration of oil mist or smoke, the wide range of filtration media used can tailor filter performance to the required pollutant.

#### 4. Recovery and recirculation:

In many scenarios, the filtration efficiency allows air to be recycled and can generate significant energy savings. In all cases, the air recirculated into the work area will be compliant with legislative requirements.

Parc d'activités de la Houssoye  
Rue Ampère F59930  
La Chapelle d'Armentières - FRANCE  
Tel: +33 (0)3 20 10 53 66  
Mail: [contact@neujkf.com](mailto:contact@neujkf.com)

[neu-air-technologies.com](http://neu-air-technologies.com)



# PARTICLE FILTRATION

## EXAMPLE OF APPLICATIONS

- **Filtration of oil only or water-soluble oil, whether they contain dust combustion particles:**

Machining centres, grinding machines, milling machines, mills, cutting, machining, pressing, etc.

- **Filtration of fine toxic dusts:**

Fume and dust filtration on smelting furnaces, converters, ...

- **Filtering air from contaminated zones, carcinogenic, mutagenic and reprotoxic substances (CRMs)**

- **Ventilated workstation for component grinding, fitting, cleaning, polishing, etc.**

Dust types handled: plastic, aluminum, carbon, composite, food, wood, etc.



Fume and dust filtration on smelting furnaces with additives: lime, active charcoal, ...



Extraction of metallic dusts on sintering press. Filtration with FILTRACLEAN ECO



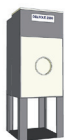
A range of equipment specially-designed for the nuclear sector



Extraction of graphite dust on forging for press

## RANGE OF EQUIPMENT

### DELTOLE®



Greasy and oily particles

Water-soluble and mineral oil

### OILPACK®



### FILTRACLEAN® ECO



Plasma, laser, welding

### FILTRACLEAN® S



Ultra fine and dry particles

Radio-elements, carcinogenic, mutagenic, reprotoxic substances

### CYCLAIR®



Dust free radio-elements

### JETLINE® KS



Radioactive dust

## WHAT ARE THE ADVANTAGES FOR THE MANUFACTURER?

- **Protection of operatives** against slippery floors and air pollution
- **Protection of the environment**
- **Reduced** machine maintenance
- **No loss** of materials (reintegrated into the process)