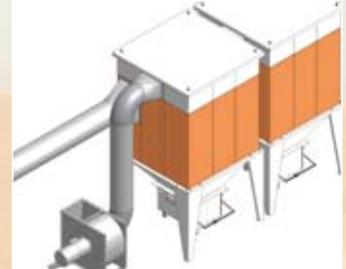


# KEMPER System 6000



## Extraction and Filtration systems

The new *KEMPER* System 6000 is an innovative new generation of extraction and filtration systems. It is an excellent choice for connecting extraction tables for plasma and laser cutting units or for flexible configuration of central extraction installations.

Due to the modular design it is possible to perfectly adjust the System 6000 to nearly every application and requirements.

The filters of the System 6000 are manufactured out of high quality materials using the most modern manufacturing technologies. Reliability and stability are very significant in modern filter technology.

### **KEMPER GmbH**

Von-Siemens-Str. 20  
D-48691 Vreden

Tel. +49 (0) 25 64 -68 -0

Fax +49 (0) 25 64 -68 -120

[mail@kemper.eu](mailto:mail@kemper.eu)

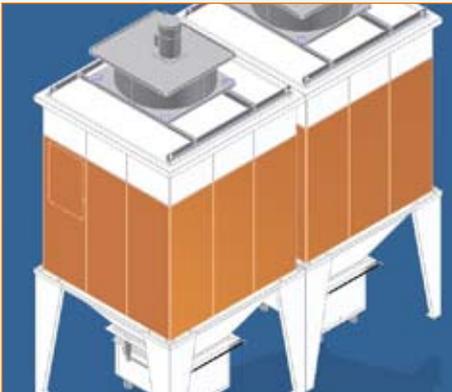
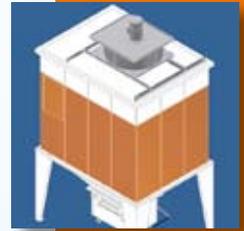
[www.kemper.eu](http://www.kemper.eu)

## Functionality

The contaminated air is extracted via a duct system. The dust will be deposited in the filter media. The intelligent control monitors the accumulation of dust and starts a cleaning process by means of compressed air as soon as the limit value for the filters has been reached. This all takes place without interrupting the operation of the unit. The cleaned off dust falls into the dust collecting container from where it can be easily disposed of.

## Advantages

Due to the use of modular fans it is possible to mount the fan either on or adjacent to the unit. Therefore, it is possible to combine several filter modules and connect them to a central fan. The large mobile dust container is easily accessible and can be removed from the unit manually. The installation of the system is also very flexible. The unit can be installed indoors as well as outdoors. The System 6000 extraction and filtration units are delivered in modules to keep transportation simple. The unit can be easily put together on site. Needless to say that the *KEMPER* System 6000 filter units, as well as all other *KEMPER* systems, are made out of a rigid metal construction. For lasting durability the unit is finished with an epoxy powder coating.



## KemTex® PE-M filter cartridges

The *KEMPER* System 6000 extraction and filtration units feature high quality *KemTex*® PE-M cartridge filters. This allows for a filtration of at least 99, 99% at 0,5 µm particle size and therefore conforms to filter classification M.

The cleaning of the cartridges, which is activated and monitored by the intelligent control, automatically takes place by means of rotating nozzles. Once the cartridges are loaded with dust, the cartridges get cleaned, one after the other, during normal operation. A compressed air shot is released from the internal compressed air reservoir of the filter unit. The rotation nozzle starts spinning and blows off the dust. Only as a result of the full surface cleaning in conjunction with the *KemTex*® PE-M cartridge filters an optimal filtration is achieved. The widely used reverse jet pulse technique cannot achieve this.

## System 6000 at a glance

The *KEMPER* System 6000 extraction and filtration units are, as a standard, supplied in four types, ranging from 6,000m<sup>3</sup>/h - 18,000m<sup>3</sup>/h. Needless to say that by the combination of fans and filter units a finer adjustment or a larger extraction volume can be attained. The modular and flexible method of construction of the *KEMPER* System 6000 makes it possible.

# System 6000