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DFW Filtration Installation.

To meet the requirements of the authorities in the different countries of the European Union DFW have developed a Filter Installation that can meet all requirements in Europe. The flue gases coming from the cremator are being cooled down to a temperature of 160 °C before they enter into a spark arrestor to avoid any burning particles in the dust collector.

The cooling process will be achieved by leading the flue gases through a two step heat exchanger (boiler) of sufficient size and capacity, together with a dump cooler, to even be able to cool the flue gases to the temperature of 160 °C in the most extreme circumstances. This will also be possible if the outside temperatures are very high for a long period.

After the spark arrestor the flue gases are being cleaned for dust by a cartridge filter to a level of less than 1 mg/Nm³ or better.

The dust collector will be automatically cleaned by compressed air and has a dust container to collect the dust.

To clean the gases from Hg, HCl and Dioxins a fixed bed filter, filled with Sorbalit G35% will be placed.

This fixed bed filter is a complete sealed box that of which the content will be exchanged after approx. 1.500 cremations. The content of the fixed bed filter needs to be dumped at a special chemical landfill at the costs of the client.

This system avoids any injection system that needs extra care and handling of chemical products.

With the fixed bed installation the environment in the technical room will stay clean.

A frequency controlled extraction fan will take care of the transport of the flue gases.

For reason of an unlikely problem in the installation an automatic bypass valve will be placed in the system to guarantee the safety for the operators.

The emission values will be according the legislations.

Bypass

A Bypass valve is mounted in the flue gas filter system. That is necessary in all cremator installations with filter system. This Bypass valve will only open if problems occur in the flue gas cooling, filter installation or there is a power failure in the building. The cremation in progress can be completed over the bypass. No process air is injected to reduce the amount of flue gasses and prevent smoke from the chimney. In a bypass situation, an alarm on the screens points out why it went into bypass.

In order to maintain sufficient draft in the chimney during bypass operation, an injector fan is installed in the installation. The injector fan is connected by pipes to the injector in the chimney.

CEM Module

The CEM module that will be supplied is capable of measuring CO/O2 emissions.

Reporting system

Our reporting system generates PG5 reports on a web portal which you can download in Excel format. On this report the following values are noted down. Electrical power consumption per cremation and total. Cremation and pre heat time. Measured emission values and values which are required according the regulations.

Information Filtration System limits DFW Europe			
Air polutants	Unit	DFW Equipment	IE/UK
Dust	mg/m3	<5	5
Mercury	mg/m3	<0,03	0,03
Dioxines	ng/m3	<0,1	0,1
Carbon Monoxide (CO)	mg/m3	<50	100
Hydrocarbons CxHx	mg/m3	<15	20
Oxides of Nitrogen (NOx)	mg/m3	<200	200
Hydrogen Chloride (HCL)	mg/m3	<20	20
Oxides of Sulphur (SOx)	mg/m3	<120	NA