

## Dinex installing particle filters on Refuse Vehicles

Dinex has developed and installed various cordierite filters (DiPEX) as well as silicium carbid filters (DiSiC) in combination with fuel additives on a total of 111 trucks, primarily Volvo and Mitsubishi.

The project was initiated by the Copenhagen City Council to retrofit diesel particulate filters on the Refuse vehicles in the city of Copenhagen. The city has been sponsored by EU funding of up to € 2.000 per vehicle.

Dinex is installing the first 111 vehicles this year following further 200 vehicles next year. Seen from the above picture the original silencer was removed and a DiPEX filter installed, in vertical position behind the cab, near to the turbo to insure as high operating temperature as possible. Dinex fitters and engineers do first time installations and pre-developments. Installations of fleets are done in co-operations with workshops and dealers around Europe coordinated by Dinex.



Below you see installation of a horizontal DiPEX particle filter system. The designs are both in horizontal and vertical positions and as close a possible to the turbo to insure higher operating temperatures.

The challenge in this particular project has been the variations of engine working temperature as a result of the start/stops driving cycles. To achieve a constant level of satisfactory working temperature, the technique of active regeneration has been used, which is a technique that increases the operating temperatures as well as fuel born catalyst which is an additive you feed into the fuel and reduce the CO and CH, both techniques are installed in Copenhagen.

The systems are delivered as complete kits with clamps and insulated front pipes to keep temperatures on higher operating level. Dinex' factory in Germany, Hildebrand GmbH, is the group's competence centre for insulation products giving attention to the right level of in – and outside temperatures in the exhaust system.

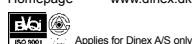


Electronic control units have been installed in the cabin to monitor correct temperature, backpressure and sensor & pumping systems close to the filter. Being a supplier of exhaust systems to the aftermarket and OEM, Dinex can supply kit solutions including oval and round filter design, electronic control units, hose connections, pressure valves, pumping systems and wiring looms.



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