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Holzfeuerungstechnik

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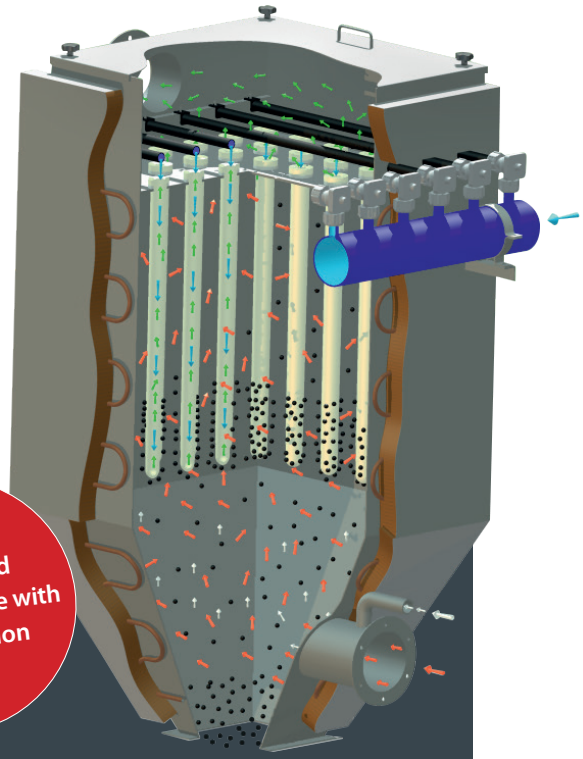
Fine Dust Filter for **Biomass-Firing Systems**

Product data

Compact, space-saving and environment-friendly

The fine dust filter NGFL is offered in a compact and modular design. The filter is available for automatic feed, biomass-firing systems. This fine dust filter works with microporous ceramic filter elements for highest separating performance of up to 99,99 % efficiency. This means in practice often dust levels < 1 mg/Nm³* of flue gas are achievable, so it's hardly traceable.

The operating function is simple: The hot gas is drawn from the outside to the inside through the filter elements via the main fan. In this procedure dust particles are deposited on the outer surface of the ceramic elements. The ceramic elements are automatically cleaned with a reverse pulse of compressed air on a timed basis and the differential pressure is monitored and recorded. An automatic screw conveyor or walking floor discharge is fitted, depending on the customers requirements, the dust is collected in a standard metal bin.



Fine Dust Filter type NGFL

Clean flue gas and safe compliance with legal emission values

Advantages

- ✔ residual dust quantity < 3 mg/Nm³*, typically < 1 mg/Nm³* (*@ 11 % O_2)
- ✔ no cyclone pre-separator needed
- ✔ ceramic filter elements temperature-resistant up to > 1,000 °C and resistant towards burning and flying sparks
- ✔ automatic time and difference pressure controlled cleaning of the filter elements by compressed air
- ✔ automatic ash removal depending on ash quantity
- ✔ retrofittable
- ✔ compact, modular design
- ✔ fulfills the requirements of all currently valid funding programmes
- ✔ also for waste wood
- ✔ remote maintenance optional

Technical Data

- ✚ max. flue gas side flow resistance: 30 mbar
- ✚ max. temperature: 300 °C
- ✚ integrated or separate control for retrofitting
- ✚ 8 standard sizes or by customer requirements
- ✚ dust bins: in different sizes
- ✚ mineral wool insulation: 60 mm

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