

Depth filters are economically suitable for low mass concentrations up to an average concentration of 5 mg/m^3 ($5 \text{ mg/m}^3 = 120 \text{ g/day per } 1,000 \text{ m}^3/\text{h}$). Due to the dust fineness and low dust mass, the dust-laden filters are not cleaned and must be replaced. Depth filters are primarily used in ventilation and air conditioning and in process air technology.

Another often usage are safety filter stages (2. filter stage) for improvement of residual dust contents or for protection in case of a filter breakthrough of the upstream filter stage.

Depth filter	
Cleaning	without
Typical parameter:	Residual dust concentration $0.001 - 5 \text{ mg/m}^3$
	Particle size distribution mostly $> 0.1 - 100 \text{ }\mu\text{m}$
	Temperature $-40 - +400 \text{ }^\circ\text{C}$
	Separation efficiency $40 \% - 99.999995 \%$
Filter media	Glas, PES, PP, paper like, wet laid fleece, composite products
Typical characteristics	Surface weight $50 - 600 \text{ g/m}^2$
	Steady differential pressure $20 - 500 \text{ Pa}$
Geometry	Filter mat, filter cell, compact filter, panel filter, cartridge filter, pocket filter

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