

TYPE ENVELOPE FILTER

KIEKENS DUSTMASTER

DM4000 / DM5000

**Envelope filter
Dustmasters are
especially effective for
filtration of greasy and
very fine dusts. Because
of the wide envelope
distance, the filter is
very good cleanable and
higher filter loads are
possible. So wood dust,
stone dust and blasting
grit are no problem at all.**

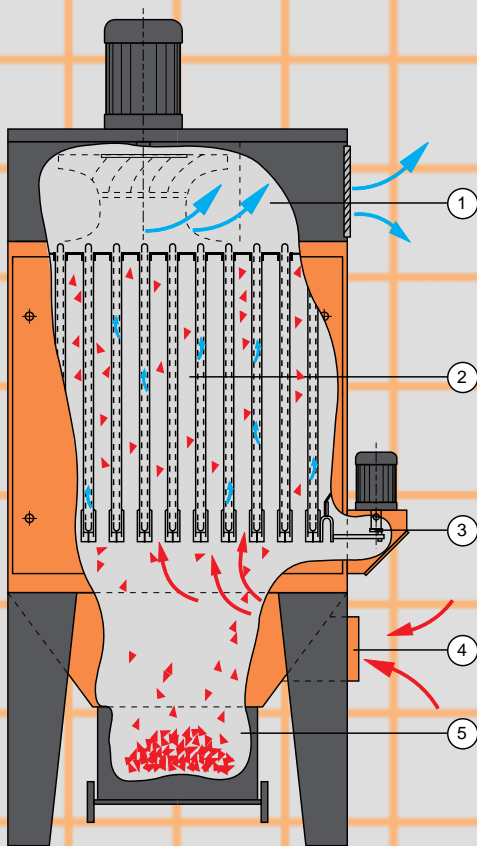
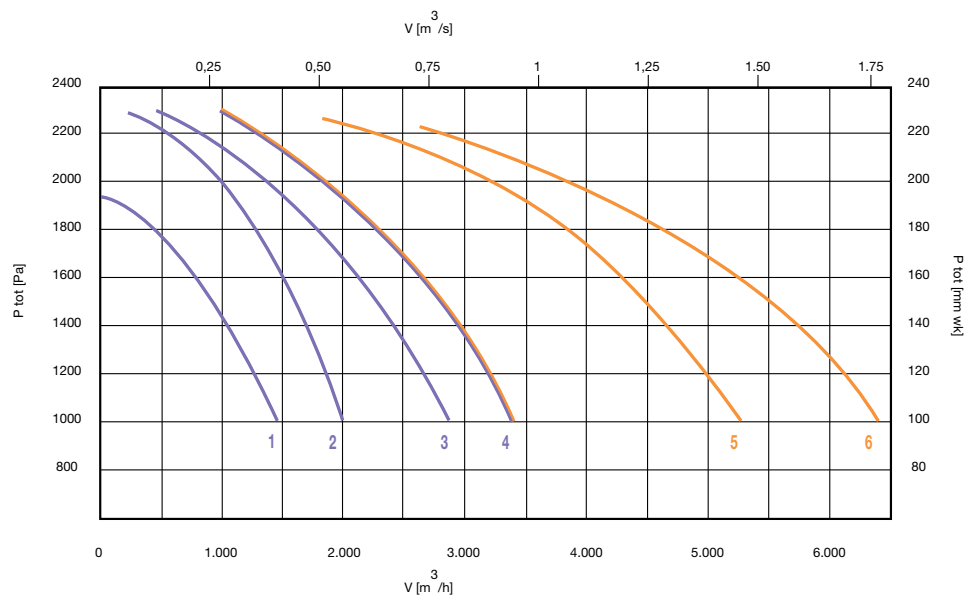


KIEKENS ENVELOPE FILTER				pos. 1	pos. 2	pos. 3	pos. 4
filter unit	DM4000 l x w x h (max.) = 790 x 790 x 2485			4			
	DM5000 l x w x h (max.) = 1050 x 1050 x 2530			5			
curve DM4000	12KVE224 0.75kW	curve DM5000	12FSE280 2.2kW		1	4	
	8KTE224 1.1 kW		8FTE315 3kW		2	5	
	6FTE280 1.5 kW		12DVE400 4kW		3	6	
	12FSE280 2.2 kW				4		
filter area DM4000	12.5 m ²	filter area DM5000	23.5 m ²			9	9
filter quality	polyester needle filter, penetration from 0.1 to 1%						1
	teflon coated filter, penetration <0.1 %						2
	antistatic filter, conducting carbon fibre						3
	fluid and oil resistant filter						4
	example code DM			5	6	9	1

Options:

- Inlet adapter: to connect the inlet on pipe diameters 125, 160, 180, 224, 280 and 315 mm;
- Outlet adapter: for pipe diameters 200, 250, 315 and 400 mm;
- Switchboxes: 230 V or 400 V direct-in and 230 V or 400 V automatic star delta switch;
- Transition funnel with flange: for connecting a rotary valve, manually operated or gravity discharge valve;
- Dustmaster Silo (DS): for dedusting of silos, existing of a filterunit and a fan;
- Dustmaster Venting (DO): only a filter unit for venting of storage vessels under pressure;
- HEPA filter;
- Active carbon filter.

Relation between static suction pressure and air flow



Operation:

The dust laden air flows through the inlet (4) (DM4000: 280 x 200 mm and DM5000: 400 x 224) in the Dustmaster. The relatively heavy dust is separated there immediately and falls into the dust container (5). The rest of the dust in the polluted air is being filtrated between the wide envelopes of the cloth filter (2) and falls during the filter shaking process into the dust container as well (5). The dustbin capacity of the DM4000 is 55 litres and of the DM5000 even 70 litres. The dustbin can also be equipped with a suspension frame in order to use plastic dust bags to carry off for example health hazardous dust. The clean air flows through the pores of the filtermaterial to the clean air room. The air will in principle be carried back into the work area but can also be blown into the atmosphere. In order to let the system function optimally, the filter is thoroughly cleaned with a special shaking device (3) regularly through what the effective filter area maintains optimal. This can, if required, be switched on fully automatic. The construction is designed in such a modular way that the inlet (4), the inspection panel, the fan housing (1) and the dustbin (5) can be constructed in different ways towards each other.



Kiekens Products B.V.
P.O. Box 99
7600 AB Almelo - NL
tel. +31(0) 546 - 87 15 55
fax +31(0) 546 - 87 19 85
www.kiekens-products.com
info@kiekens-products.com