

TYPE POCKET FILTER

KIEKENS DUSTMASTER

DM4000 / DM5000

Pocket filter Dustmasters with polyester needle felt are designed for lower dust capacities and higher filter loads, for example in the paper, cardboard, wood, metal and food industry. The cloth filters are, if desired, proof against moist, oil, high temperatures and static electricity.

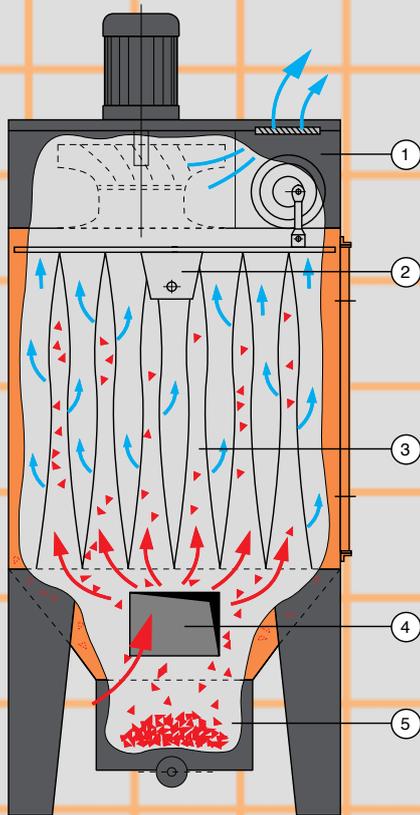
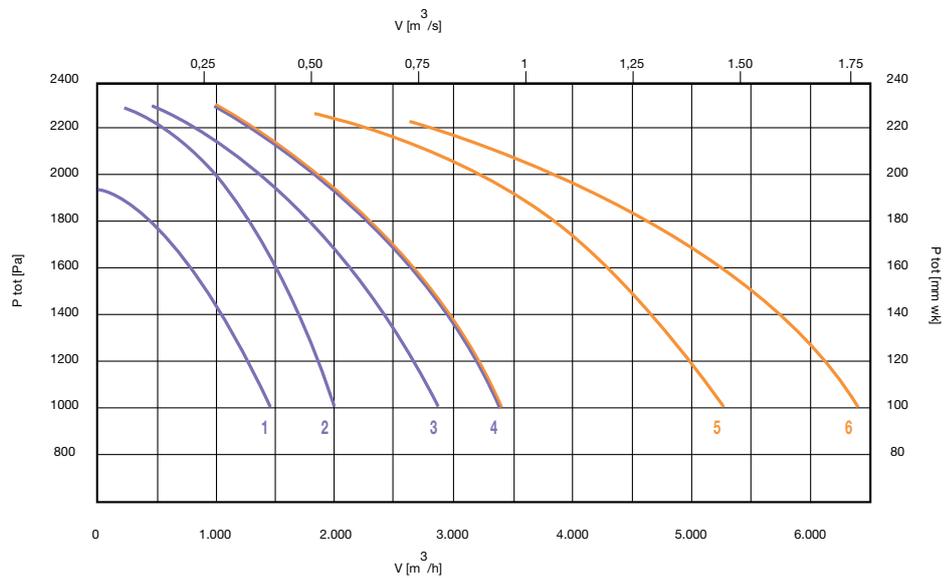


KIEKENS POCKET FILTER				pos. 1	pos. 2	pos. 3	pos. 4
filter unit	DM4000 l x b x h (max.) = 790 x 790 x 2485			4			
	DM5000 l x b x h (max.) = 1050 x 1050 x 2530			5			
curve DM4000	12KVE224	0.75kW	12FSE280	2.2kW	1	4	
	8KTE224	1.1 kW	8FTE315	3kW	2	5	
	6FTE280	1.5 kW	DM5000	12DVE400	4kW	3	6
	12FSE280	2.2 kW			4		
filter area DM4000	7.5 m ²		filter area	24.5 m ²		1	5
	11.5 m ²			32 m ²		2	6
	15 m ²		DM5000			3	
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	6	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 in the pockets of the filter (3) 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 (1). 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 cleaned with a special shaking device regularly (2). 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.



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