

Energy saving Bag Filters – Finedust

AirSynErgy bag filters offers a unique fully synthetic filter media with a special waveform structure allowing virtually the double filter surface with the same construction dimensions as usual bag filters. Due to be increased inner surface the pressure drop of AirSynErgy filters is up to 30% lower in comparison to standard bag filters. The added surface also offers a dramatically increased dust holding capacity which increases the filters service time 30 - 60%.

AirSynErgy only relies on mechanical filter effects and thereby fulfills the requirements of EN 779:2012.

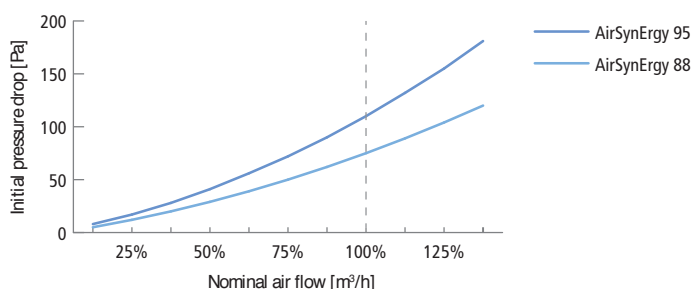
AirSynErgy serve as ultra high capacity pre-filters for following filterstages or as premium class main filters i.e. for fine dust filtration in comfort air HVAC or areas with high demands for air hygiene such as food production plants. AirSynErgy also serve process air systems i.e. for combustion engines or sensitive machinery.



Type:	AirSynErgy 88	AirSynErgy 95
Class EN 779	F7	F9
Arrestance EN 779 [%]	> 98 %	> 99 %
Efficiency EN 779 [%]	> 85 %, M.E > 40 %	> 95 %, M.E > 70 %
Initial- ΔP [Pa] at nominal air flow	75	110

Dimensions [mm]			Nominal air flow [m ³ /h]	# of pockets	Energy class acc. to Eurovent 4/21
Width	Height	Depth			
592	592	650	3400	8	
490	592	650	2800	6	
287	592	650	1700	4	
287	287	650	850	4	
592	892	650	5100	8	
287	892	650	2550	4	

Please ask for other desired dimensions and designs.



Frame	<ul style="list-style-type: none"> polystyrene 25 [mm] (combustible) galv. steel 25 [mm] polystyrene 20 [mm] (combustible)
Operational conditions	max. rel. h. 100%, max. temp. 70°C
Filtermedia	<ul style="list-style-type: none"> synthetik composit media with inner wave structure, offers appx. factor 2,5 more filtersurface than standard bag filter media. color: pure white with dass id print. fulfills EN 779:2012.
Combustible	Yes (Frame: plastic)
Options	<ul style="list-style-type: none"> various sizes and shapes (e. g. slanted filter bags) foamed gasket onto front frame



Easy to notice: The cross section illustrates that the waved structure offers a much larger filtration surface in the same dimensions as usual flat media.