

AFP-AZ DUO

COMBINED ODOUR AND PARTICLE FILTRATION



- Nominal air flow 3400 m³/h per cell
- Particle filtration and odour removal in one stage
- Large filter surface of 10 m²
- Activated carbon composite material with no dust generation
- Fully incinerable, plastic cavity profile frame
- Lightweight
- Compact – installation depth only 300 mm
- Self supporting and rigid
- To be installed in standard bag filter framework

AFP-AZ Duo filters are an efficient solution to remove both particles and gaseous, odorous compounds in one filter stage. Particles and dust occur in ambient and indoor air due to natural sources, traffic and production processes.

Odours may occur in ambient air, fed to a building, by impact of car or aircraft exhaust. Moreover they occur due to material emissions and processes indoors, and as a consequence on return air.

AFP-AZ Duo removes particles from the air stream by a first layer of high efficiency synthetic fibres. This layer performs according to filter class F7 (EN 779).

Moreover, **AFP-AZ Duo** purifies the air by a high-quality activated carbon composite material. The composite material is based on fine grain, granular adsorbents embedded into a synthetic textile matrix.

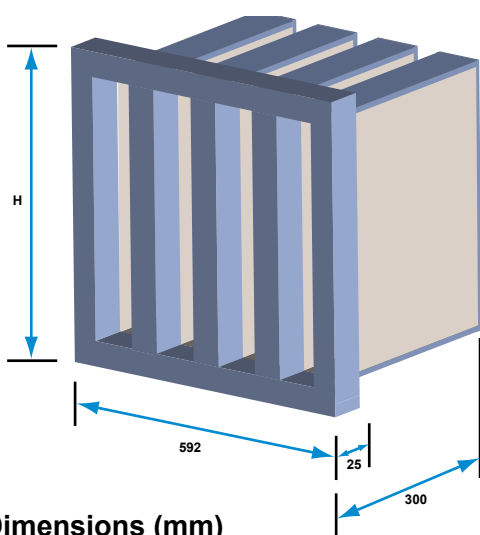
AFP-AZ Duo is available in 4 standard sizes.

Technical Data	Units	610	508	420	305
Nominal Air Flow (normal service life)	m ³ /h	3400	2700	2300	1700
Pressure Drop	Pa	120	120	130	130
Nominal Air Flow (long service life)	m ³ /h	1700	1350	1150	850
Pressure Drop	Pa	50	50	60	60
Total Weight • Carbon Weight	Kg	9.0 • 4.2	7.7 • 3.4	6.2 • 2.9	4.8 • 1.9
Average Removal Efficiency – Em ¹⁾	%	88	88	88	88
Dust Holding Capacity (AC fine, 450 Pa)	g	550	480	350	260
Spontaneous Efficiency – toluene ²⁾	%	> 95	> 95	> 95	> 95
Sorption Capacity ²⁾	g	950	770	640	430

INSTALLATION AND DISPOSAL

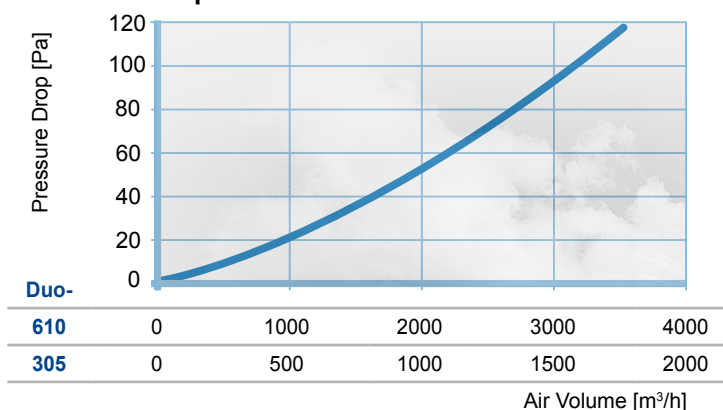
AFP-AZ Duo can be easily installed in standard fine dust filter frames. Service life should be two years under normal conditions of climate and air contamination, but filters should be changed and serviced according to national hygienic standards for air handling units.

Filters that have been used under standard environmental conditions can be disposed as industrial waste (incineration/landfill, please refer to local regulations). Filters soiled by toxic and/or radioactive constituents must be disposed as hazardous waste in accordance with local regulations.



Dimensions (mm)

Pressure Drop versus Air Flow



Operation Conditions	
Maximum operation temperature ⁴⁾	< 50 °C
Recommended operation temperature	< 30 °C
Maximum relative humidity ⁴⁾	< 90%
Recommended relative humidity	< 60%

Materials	
Frame material	Polystyrene, free of halogenated compounds, incinerable ³⁾
Filter material	Synthetic meltblown composite; synthetic fibre composite material with fine grain activated carbon embedded.
Sealant	Polyurethane.

¹⁾ Filter class according to EN 779:2002

²⁾ Test according to DIN 71460 "Road vehicles – air filters for passenger compartments – Part 2: Test for gaseous filtration"

³⁾ Flammability classification of materials used: F1/K1 according to DIN 53438

⁴⁾ Deviations from the operation condition cause a reduction of efficiency. Deviation from more than one of the operation conditions would cause a significant loss of performance.

In view of continuous research and development we reserve the right to modify specifications and dimensions without prior notice. For quoted standards, the issue valid at the print date of this leaflet is relevant.