

KELVA FILTER/FAN UNIT – AFF-K SERIES FOR MEDIUM TO HIGH DUST LOADS



Dry dust filter/fan unit for indoor operation with automatic jet-pulse filter cleaning system.

The AFF filter/fan units are designed to serve KELVA web cleaners with both vacuum and blowing air. The filtration unit has rigid, long lasting pleated filter elements kept clean by an automatic jet-pulse system including pressure tank, diaphragm valves, diffuser and air nozzles.



The compact and space-efficient design of the AFF-K series features a small footprint and reasonable height without jeopardizing functionality.

To be as energy efficient as possible the system operates with one fan only. The vacuum used to remove the dust is reused as blowing air after filtration.

Dust and debris are collected in the dust bin at the bottom of the unit.

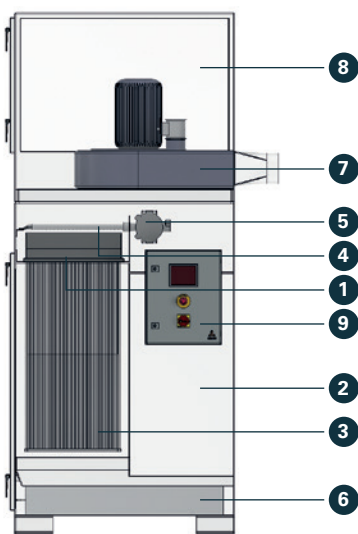
Specifications

Fan	Radial, B-type direct driven by a 2-pole motor
Voltage	400V/50Hz or 460V/60Hz as standard Others available
Filter panels	Pleated polyester, antistatic. BIA "C" filter class M Other qualities available for special cases
Color	Standard RAL 7035 Special colors available
Compressed air	Dry clean air, 5 Bar
Consumption	1–2 Nm ³ /h (depends on settings)

Specifications

FFU size	AFF-K08	AFF-K17	AFF-K29	AFF-K34	AFF-K42	AFF-K50
Air flow (m ³ /h)	500	1000	1750	2000	2500	3000
Fan power (kW at 400V/50Hz, 2900 rpm)	3,0	4,0	7,5	11	11	15
Filter area (m ²)	8	17	29	34	42	50
Dimensions (mm)						
Lenght	900	900	1150	1150	1150	1250
Width	900	900	1150	1150	1150	1250
Height	2300	2300	2750	3050	3100	3200
Weight (kg)	540	550	700	740	770	800

Design and description



Filter housing	Box type welded sections, bolted together. The filter mounting plate (1), on which the fittings for the horizontal filter elements are mounted, is welded to the filter housing. Access door on the dirty air side of the filter housing. The pre-separator chamber (2) is a low air velocity zone that separates coarse/ heavy particles. Housing is made of steel 37. Filter mounting plate out of stainless steel 304. In and outside are degreased and painted with primer. The outside has a protective layer of paint, RAL 7035 as standard.
Filter elements	Pleated rigid filter plates (3). Mounted in the filter plate from clean air side.
Jet-pulse system	The filter is fitted with removable injector pipes (4) above the filter elements, welded steel pressure tank (5), electromagnetic valves and the associated controls in the control cabinet (9).
Dust container	Container (6), made of welded steel, designed as a slide with guide plates above the sides of the slide avoid dust between the slide and the walls.
Fan	Horizontal radial fan (7). Housing welded of steel with motor mounting flange. The impeller is mounted on the AC motor shaft. The fan is balanced.
Sound enclosure	Noise reduction hood (8), covering the complete ventilator housing for the absorption of. Noise level is below 84 dB(A).

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