



Technical parameters

Type	EkoFan N4		EkoFan N6		EkoFan N8		EkoFan N12	
	N4 - 3000	N4 - 6000	N6 - 4500	N6 - 8000	N8 - 6000	N8 - 10600	N12 - 9000	N12 - 16000
Model	4 (17,65 m ³)		6 (17,65 m ³)		8 (17,65 m ³)		12 (17,65 m ³)	
Number of filters	70,6 m ² (4x17,65 m ²)		105,9 m ² (6x17,65 m ²)		141,2 m ² (8x17,65 m ²)		211,8 m ² (12x17,65 m ²)	
Filtering aera	Radial fan		Radial fan		Radial fan		Radial fan	
Fan type	Radial fan		Radial fan		Radial fan		Radial fan	
Suction capacity	3420 m ³ /h	6150 m ³ /h	5140 m ³ /h	7966 m ³ /h	6150 m ³ /h	10572 m ³ /h	8982 m ³ /h	16630 m ³ /h
Engine power	7,5 kW	11 kW	9 kW	15 kW	11 kW	18 kW	15,0 kW	26,0 kW
Filtering material	Polyester s PTFE membránou		Polyester s PTFE membránou		Polyester s PTFE membránou		Polyester s PTFE membránou	
Air-supply	5 - 6 bar, dry without oil		5 - 6 bar, dry without t oil		5 - 6 bar, dry without oil		5 - 6 bar, dry without oil	
Filters cleaning	pneumatic – pulse valves		pneumatic – pulse valves		pneumatic – pulse valves		pneumatic – pulse valves	
Supply voltage	230/400V / 50 Hz		230/400V / 50 Hz		230/400V / 50 Hz		230/400V / 50 Hz	
Supply cable	5x4mm ²	5x6 mm ²	5x4 mm ²	5x10 mm ²	5x6 mm ²	5x16 mm ²	5x10 mm ²	5x16 mm ²
Ratted current	16 A	25 A	20 A	35 A	25 A	40 A	35 A	50 A
Pre-protection	25	32	25	40	32	50	40	63
Coverage grade	IP 43	IP 43	IP 43	IP 43	IP 43	IP 43	IP 43	IP 43
Control	Microprocessors B&R / MicroStep		Microprocessors B&R / MicroStep		Microprocessors B&R / MicroStep		Microprocessors B&R / MicroStep	
Colour	RAL 5002, RAL 7045		RAL 5002, RAL 7045		RAL 5002, RAL 7045		RAL 5002, RAL 7045	
Dimension	2331x1551x2217		2331x1551x2217		2381x2001x2229		2936x2001x2229	
Input pipe	355 mm		400 mm		450 mm		560 mm	
Output pipe	450 mm		450 mm		560 mm		560 mm	
Stage set	Inside		Inside		Inside		Inside	

Respectability of employer is characterised also by "humanisation" of conditions on working places. With the level of these conditions the satisfaction and by it also productivity and production quality grows. Such environment is a necessity of trouble free operation of modern equipments. The cutting centres belong between them. The company IQM, s.r.o. developed the exhaustion filtering equipment EKOFAN specialised just for such conditions.

Construction

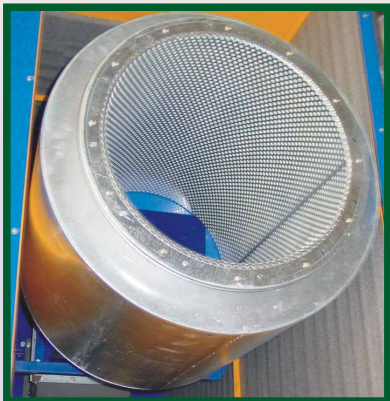
This equipment is supplied in more power variations, so the supply of equipment can be fit to the size of exhaust table and technology used for material division (plasma, oxygen, laser).



The case of filtering unit contains the filtering inserts and mechanism for their gripping. The inserts are gripped by centring levers and pushed by screws with thumb nuts.



Waste vessel is placed under the filtering inserts. It is equipped by locking wheels for better manipulation at removing and inserting.



For removal of unwanted noise caused by air flow, the "dumper" is installed in Ekofan placed at equipment output of filtering-out air.

The engine with fan is placed on basic frame and is connected by a belt gear. The fan sucks polluted air to the filtering equipment and consequently blows-out cleaned air.



Filters

The high efficiency of dust separation is ensured by application of reliable filtering inserts from the company FILTECH. According to the customer's requirement, the classical filtering inserts can be used with polyester filtering textile. If demands are higher, the filtering inserts with filtering textile and Teflon surface can be used.



Cleaning

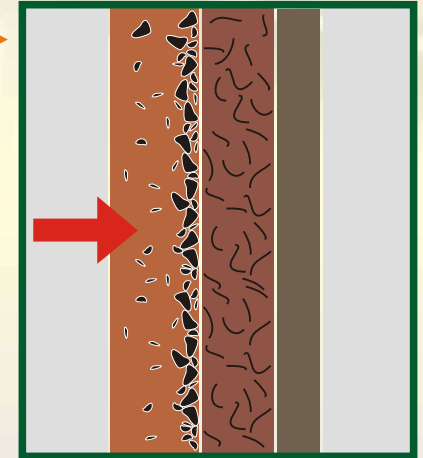
Impurities are separated on the surface of filters from the polluted air sucked by a fan. Filters are clogged after a certain time. That is why the surface of filters must be in certain intervals cleaned from the view of functionality. The cleaning is possible by a sudden blowing through filters in the direction opposite to suction. The blowing-through is possible by the impulse valves switching-off and consequent blowing-out of pressed air from the pressure container.



Surface filtering.

Harmful pollutants are separated on the surface structure of filtering medium and they can be easily cleaned.

In deep filtering harmful pollutants are separated into filtering medium and cleaning is not possible.



Control system

B&R control system takes into account the requirements of high reliability and simplicity. The control system enables the user to check the equipment during its operation.

The programme screen can be divided into more parts of adjustment submenu and functional parts menu. The whole system is controlled by a functional keyboard. Functions are activated by functional pushbuttons that are divided into switching pushbuttons and pushbuttons of real time measurement. The numerical values can be entered as an increment of number or as real timing. The functional pushbuttons of menu or submenu are highlighted by LEDs. The operator's panel is placed on the cover of electric installation and enables the adjustment of parameters of machine and its control.

Control panel

