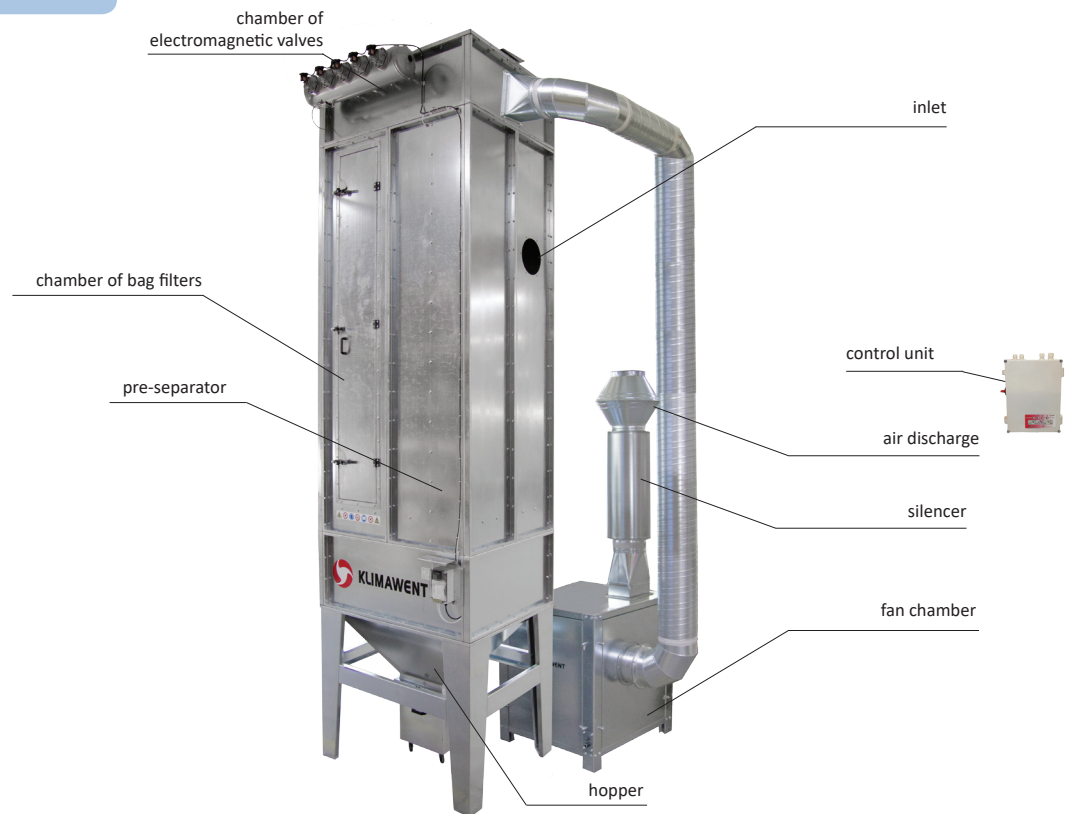




BIG-BAG-4000 – filtering unit with bag-filter



Purpose

BIG-BAG-4000 filtering system with bag filters is applied in many branches of industry, for cleaning the air of powdery materials and dust. Maximum temperature of the conveyed air is +40°C. Filtration efficiency of the filters 95%.

Structure

BIG-BAG-4000 filtering system consists of a filtration unit, fan chamber and a control unit.

A. Filtration unit

Consists of subsequent elements:

- base – includes a hopper chamber and a waste container,
- pre-separator,
- filtration chamber – with bag filters,
- chamber of electromagnetic valves – striking off the dust which accumulated on the filters.

On the four-legs base (with hopper chamber and waste container), are placed two chambers: pre-separator chamber and a chamber with bag filters. The polluted air is drawn in, through the inlet, into the pre-separator, to get captured the largest dust fractions. Subsequently, the air is directed to the bag filters

for a precise filtration. Above the filtration chambers, there is an electro-valves chamber. The electromagnetic valves serve for cleaning the filters from the deposited dust, by means of compressed air impulses. The cleaning proceeds automatically. The appliance can work in a continuous mode. The separated dust is falling into a waste container on wheels.

B. Fan chamber

As a sound-isolated construction, the chamber contains a radial fan. The fan chamber must be placed near the filtering unit and connected with it through SPIRO spiral-seam ducts.

C. Control unit

The automation set provides continuous work of the fan and automatic filter cleaning by impulses of compressed air. The control unit should be installed near the filtering unit, in a place convenient for User.

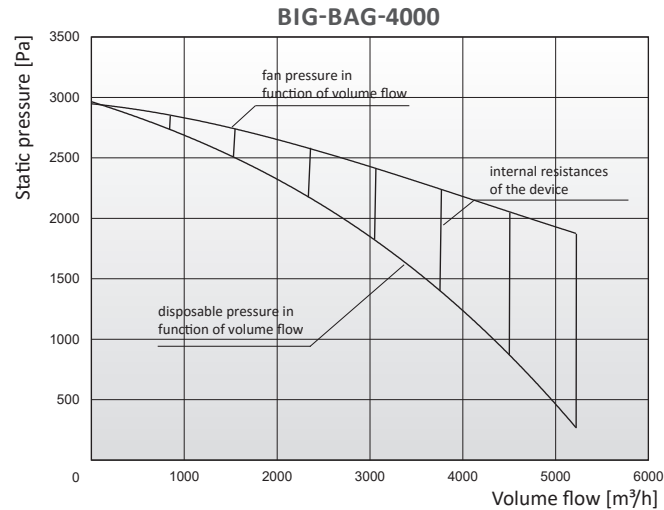
Additional accessories

On demand of Customer we deliver a rotary-cell valve – to carry the dust onto a belt conveyor.



BIG-BAG-4000

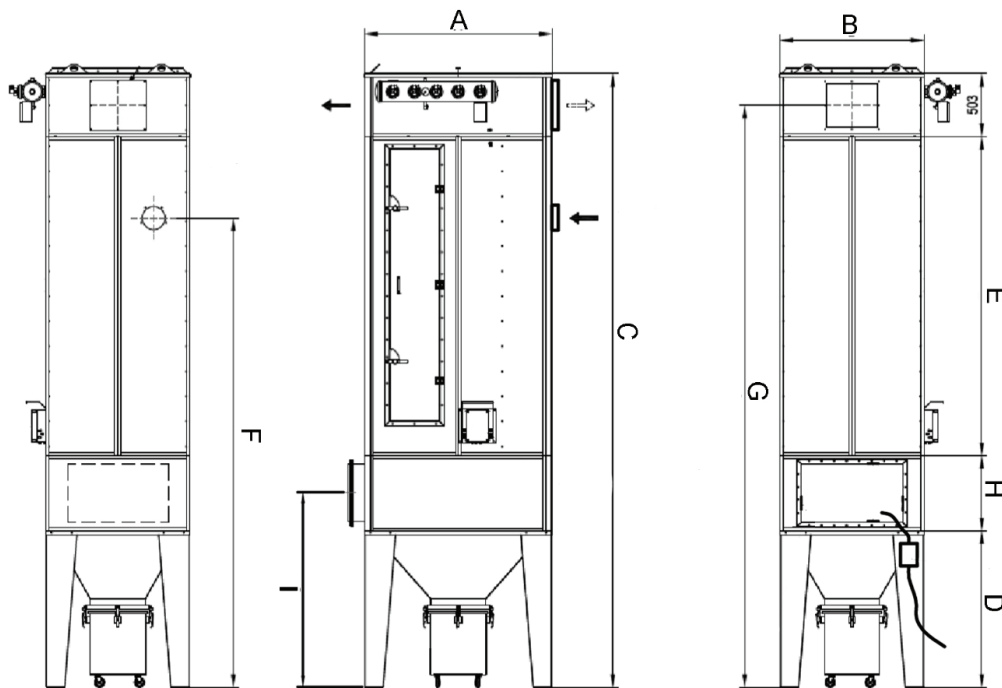
Filtration system BIG-BAG-4000 with chamber WPA BOX-11



Technical data of the filtration unit

Type	BIG-BAG-4000
Part no.	815F10
Maximum volume flow [m³/h]	5200
Weight [kg]	1195
Diameter of inlet [mm]	315
Size of outlet [mm]	200x350
Required compressed air pressure [MPa]	0,6
Quantity of bag filters	25
Capacity of waste container [dm³]	99
Consumption compressed air [Nm³/h]	12

Dimensions



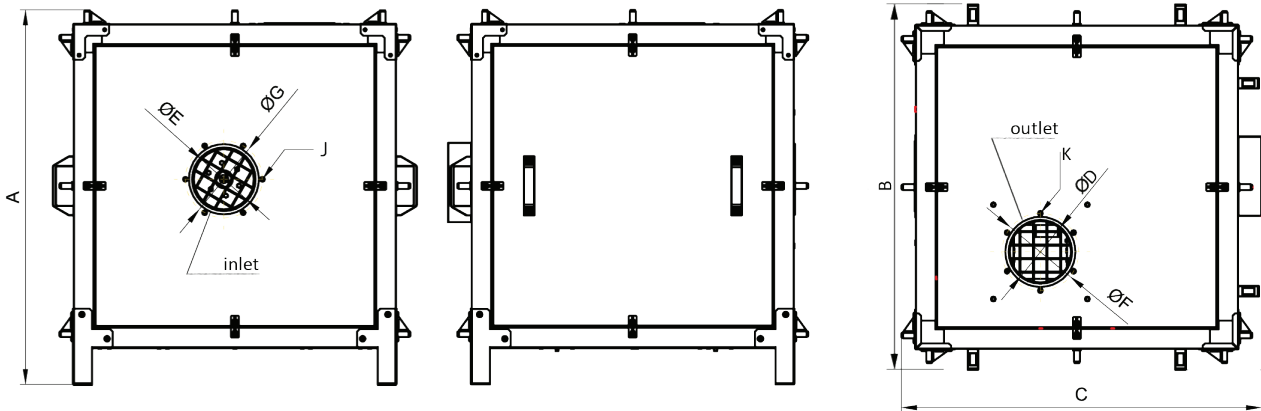
Type	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I [mm]	K [mm]
BIG-BAG-4000	1500	1150	5406	1250	3053	4000	5155	600	1470	1550



Technical data of the fan chamber

Type	Part no.	Synchronous rotations [1/min]	Supply voltage [V]	Motor rate [kW]	Ingress protection IP	Acoustic pressure level [dB(A)] from a distance of*:		Maximum volume flow [m³/h]	Maximum vacuum [Pa]	Weight [kg]
						1 m	5 m			
WPA-BOX-11-3	814K40	3000	3x400	5,5	54	75	61	8050	2950	298

* Acoustic pressure level was measured in the installation with a silencer type T-WPA-BOX at the inlet and outlet of the fan chamber.




Dimensions


Type	A [mm]	B [mm]	C [mm]	Diameters of connections		Pitch diameter of the connection holes		K [mm]	J [mm]
				ØD [mm]	ØE [mm]	ØF [mm]	ØG [mm]		
WPA-BOX-11-3	1329	1336	1336	250	250	274	274	M8	M8

Additional accessories (concerns to the fan chamber)

Silencer WPA-BOX


	Type	Part no.	Inlet [mm]	Outlet [mm]	Remarks
	T-315 WPA-BOX	830T28	250	315	The set consists of: reducer, silencer, silencer bracket. Install the set on the inlet ferrule or/and on the outlet of the WPA-BOX fan chamber.

Air discharge

	Type	Part no.	Diameter inlet/outlet/height [mm]	Weight [kg]
	E-315	842W39	315/315/700	14

Replaceable parts (concerns the filtration unit)

Bag filter

	Type	Part no.	Weight [kg]	Class	Filtration efficiency [%]
	FW-BAG 4000	838F97	8,55	H 11	95