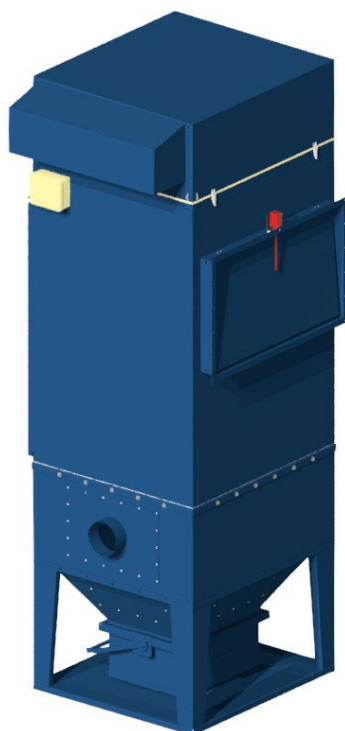


Auto M-Z - Bag dust collector



Auto M standard version



Auto M-Z ATEX version

Product marking



1026



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The Auto M-Z series is a robust, free standing filter range with an automatic shaker cleaning system. It is the latest model based upon over thirty years of continuous production experience. It is designed for intermittent use, where the filter can stop occasionally for cleaning off line.

Advantages

- Access for maintenance from the front of the unit.
- Dust bin with quick release mechanism.
- ATEX certified for explosion dusts in categories St1, St2 and St3. Flameless explosion panel on request.
- Efficient, automatic, electric motor driven shaker mechanism. Compressed air not required.
- Neat appearance suitable for commercial and educational applications.
- Weatherproof.

Technical Parameters

Combustible dust properties	Data		
Explosion class	St 1	St 2	St 3
K _{ST}	Max. 200 bar m s ⁻¹	200 - 300 bar m s ⁻¹	300 - 500 bar m s ⁻¹

Dust collector	Maximum overpressure for non-ATEX [Pa]	Maximum negative pressure [Pa]	Operation temperature [°C]	Ambient temperature [°C]	p _{red. max} bar
AutoM	1400	4000	Min. -20 Max. +60	Min. -20 Max. +40	0,22

- Filter area from 7.5 to 90 m².
- Wide range of filter materials.
- Integral, high efficiency fan range from 0.75 kW to 15 kW.
- Versatile inlet connections including QF-type ducting.
- All electrical connections pre-wired to terminal box on unit.

Options

- Bin balance kit available to enable plastic bin-liners to be used.
- Pre-separation section for bulky or fibrous dusts.
- Spark trap on inlet.
- Open base venting unit with or without fan assistance non ATEX version.
- Built in safety filters type H13.
- Control cabinets with frequency converter.

Accessories

- Air silencers with top or side discharge.
- Weather cowl for silencer.
- Fan-shaker controllers.
- Explosion panel alarm switch.
- Differential pressure switch or indicator.

Technical parameters				
Type	Filter area [m ²]	Typical maximum air flow volume [m ³ /h]	Max. Fan [kW]	Weight [kg]
Z7.5	7,5	800	3	210
Z15	15	1900	3	250
Z25	25	3000	7,5 (small)	385
Z30	30	3400	7,5 (small)	425
Z50	50	6000	15	655
Z60	60	6800	15	755
Z75	75	9000	15	900
Z90	90	10200	15	1035

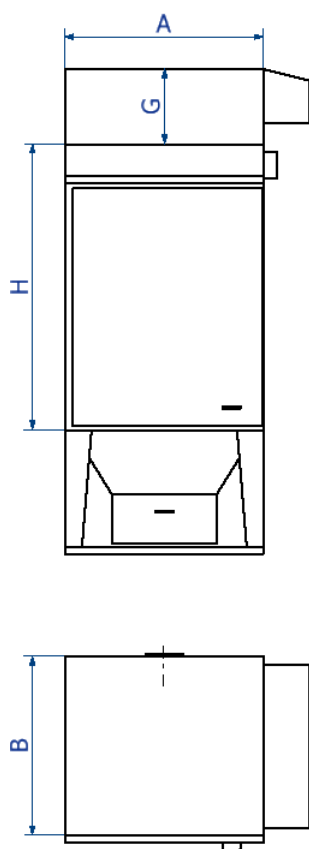
Filtration material

They are available with 1 seam or as standard with 3 seams.

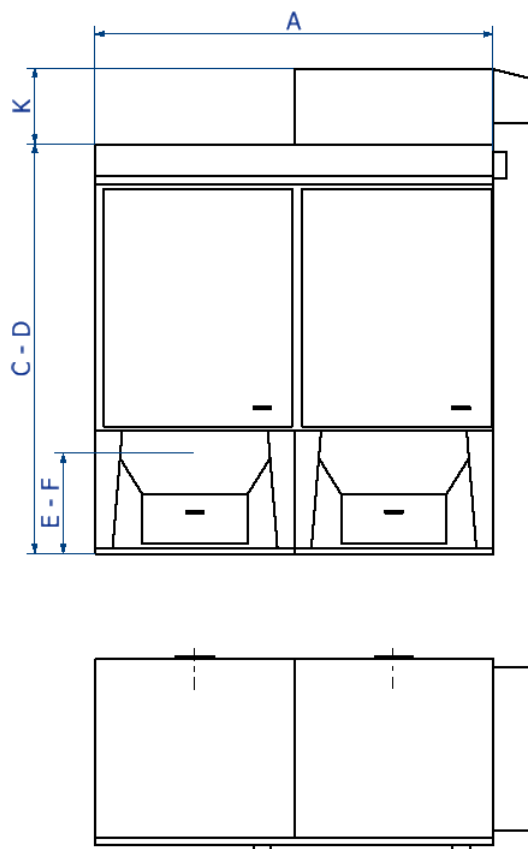
- NF 101 - Polyester heat set for dimensional stability, one side singed.
- NF 133 - Polyester heat set for dimensional stability, one side calendered, oil and water repellent.
- NF 171 - Polyester heat set for dimensional stability, one side singed, flame retardant fibers (Trevira-CS).
- NF 205 - Polyester antistatic heat set for dimensional stability, one side singed.
- NF 207 - Polyester antistatic heat set for dimensional stability, one side calendered, oil and water repellent.

Dimensions

Z-7,5 / Z-15 / Z-25 / Z-30



Z-50





Air outlet option

1 : On the top

2 : On the side with wire mesh

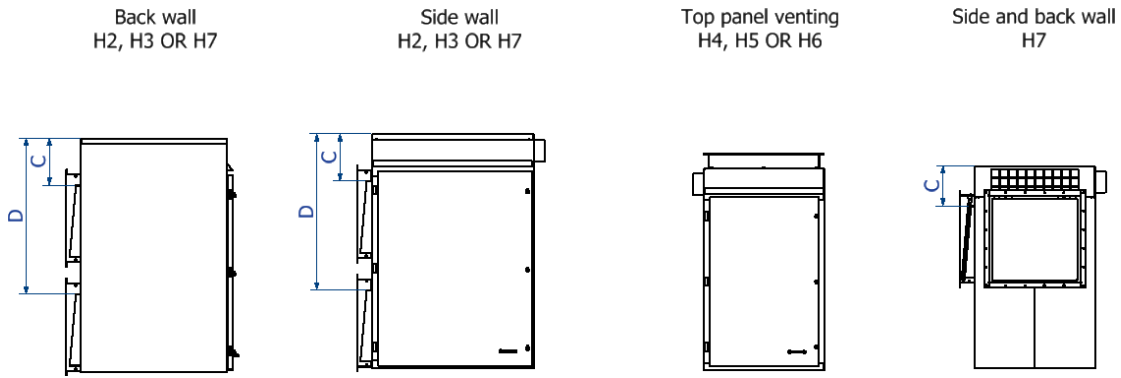
3 : On the side with weather hood

Leading dimensions in mm - Standard Auto M - Z units												Max. weight [kg]	
Type	A	B	C	D	E	F	G	H	K	Inlet		Unit with bin and largest single fan	Venting unit
	Width excluding terminal box	Depth	Filter height with 75 litre bin	Filter height with 150 litre bin	Height to c/l of inlet, 75 litre bin	Height to c/l of inlet, 150 litre bin	Height of max. size motor for unit	Vent filter with mounting flange	Height of standard silencer	in preseparator chamber	in hopper		
Z7.5	830	750	1458	1753	485	783	245	911	425**	Ø 100 - 200	Ø 100 - 200 / twin inlet 2" & 2,5"	210	150
Z15	830	750	2008	2303	485	783	245	1461	425**	Ø 100 - 200	Ø 100 - 200 / twin inlet 2" & 2,5"	250	190
Z25	1120	1010	2313	2613	565	865	366	1680	425	Ø 180 - 200 / 450 x 200	Ø 180 - 200 / 450 x 200	385	270
Z30	1120	1010	2567	2867	565	865	366	1937	425	Ø 180 - 200 / 450 x 200	Ø 180 - 200 / 450 x 200	425	310
Z50	2240	1010	2313	2613	565	865	844*	1680	425	400QF / 300 x 500	450 x 200	655	460
Z60	2240	1010	2567	2867	565	865	844*	1937	1100	400QF / 300 x 500	450 x 200	755	560
Z75	3360	1010	2313	2613	565	865	844*	1680	1100	400QF / 300 x 750	450 x 200	900	595
Z90	3360	1010	2567	2867	565	865	844*	1937	1100	400QF / 300 x 750	450 x 200	1035	730

*Shown for 11 kW and 15 kW fans which are externally mounted. Dimension for 7.5 kW motor is 366.

**Max. fan size for Z 7.5 and Z 15 is 3.0 kW.

Explosion Relief Panels



EXPLOSION RELIEF PANEL BACK POSITION

		ST1			ST2			ST3		
CONFIGURATION	SIZE	QTYxTYPE	C	D	QTYxTYPE	C	D	QTYxTYPE	C	D
UNIT WITH BIN AND HOPPER	Z7.5	1-TYPE H7	275	-	1-TYPE H7	275	-	1-TYPE H7	-	-
	Z15	1-TYPE H7	275	-	1-TYPE H7	275	-	2-TYPE H7	105	855
	Z25	1-TYPE H2	375	-	1-TYPE H3	375	-	-	-	-
	Z30	1-TYPE H2	375	-	1-TYPE H3	375	-	-	-	-
	Z50	2-TYPE H2	375	-	2-TYPE H3	375	-	2-TYPE H3	375	-
	Z60	2-TYPE H2	375	-	2-TYPE H3	375	-	2-TYPE H3	235	-
	Z75	3-TYPE H2	375	-	3-TYPE H3	375	-	6-TYPE H2	325	1075
	Z90	3-TYPE H2	375	-	3-TYPE H3	375	-	6-TYPE H2	375	1175
UNIT WITH BIN, HOPPER AND PRESEPARATION SECTION	Z7.5	1-TYPE H7	275	-	-	-	-	-	-	-
	Z15	1-TYPE H7	275	-	2-TYPE H7	105	855	-	-	-
	Z25	1-TYPE H2	375	-	1-TYPE H3	375	-	-	-	-
	Z30	1-TYPE H2	375	-	1-TYPE H3	375	-	-	-	-
	Z50	2-TYPE H2	375	-	2-TYPE H3	375	-	-	-	-
	Z60	2-TYPE H2	375	-	2-TYPE H3	375	-	4-TYPE H2	375	1175
	Z75	3-TYPE H2	375	-	3-TYPE H3	375	-	6-TYPE H2	325	1075
	Z90	3-TYPE H2	375	-	3-TYPE H3	375	-	6-TYPE H2	375	1175

EXPLOSION RELIEF PANEL SIDE POSITION

		ST1			ST2			ST3		
CONFIGURATION	SIZE	QTYxTYPE	C	D	QTYxTYPE	C	D	QTYxTYPE	C	D
UNIT WITH BIN AND HOPPER	Z7.5	1-TYPE H7	275	-	1-TYPE H7	275	-	1-TYPE H7	275	-
	Z15	1-TYPE H7	275	-	1-TYPE H7	275	-	-	-	-
	Z25	1-TYPE H2	375	-	1-TYPE H3	235	-	-	-	-
	Z30	1-TYPE H2	375	-	1-TYPE H3	375	-	-	-	-
	Z50	2-TYPE H2	375	1075	-	-	-	-	-	-
	Z60	2-TYPE H2	375	1175	-	-	-	-	-	-
UNIT WITH BIN, HOPPER AND PRESEPARATION SECTION	Z7.5	1-TYPE H7	375	-	-	-	-	-	-	-
	Z15	1-TYPE H7	375	-	2-TYPE H7	105	855	-	-	-
	Z25	1-TYPE H2	375	-	1-TYPE H3	375	-	-	-	-
	Z30	1-TYPE H2	375	-	1-TYPE H3	375	-	-	-	-
	Z50	2-TYPE H2	375	1075	-	-	-	-	-	-
	Z60	2-TYPE H2	375	1175	-	-	-	-	-	-

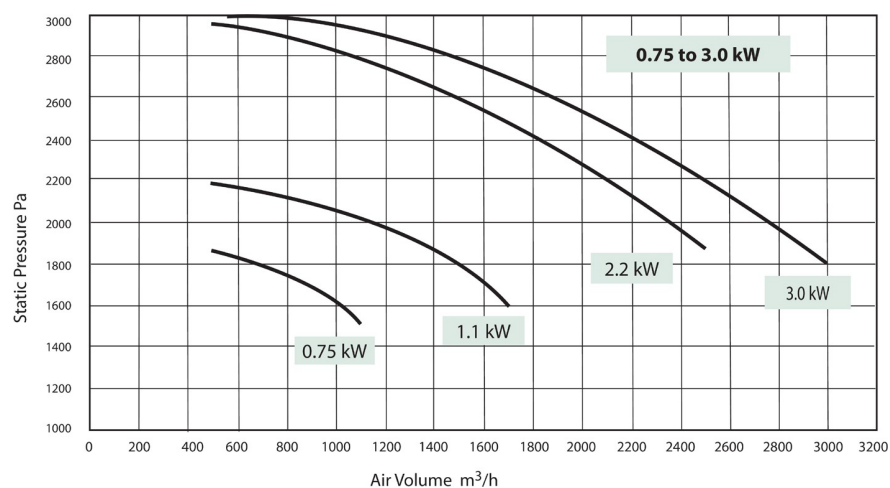
EXPLOSION RELIEF PANEL BACK POSITION

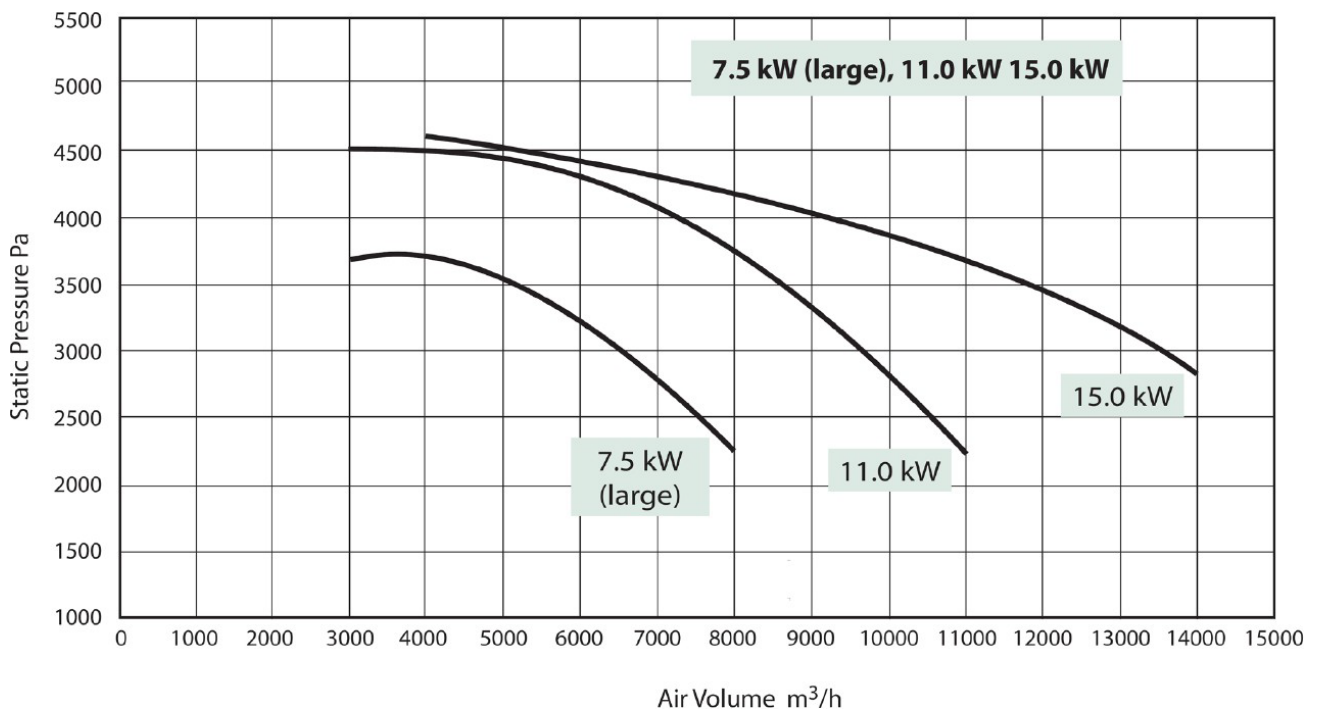
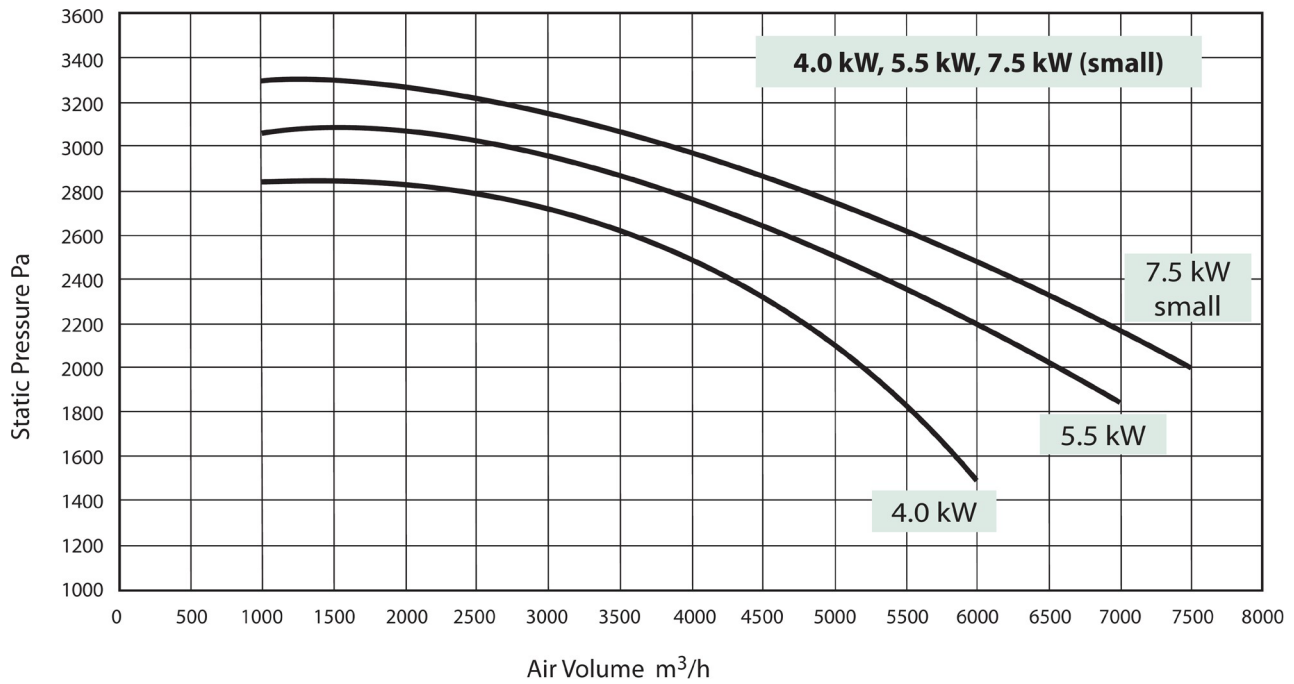
CONFIGURATION	SIZE	ST1			ST2			ST3		
		QTYxTYPE	C	D	QTYxTYPE	C	D	QTYxTYPE	C	D
UNIT WITH BIN AND HOPPER	Z7.5	1-TYPE H7	275	-	1-TYPE H7	275	-	1-TYPE H7	-	-
	Z15	1-TYPE H7	275	-	1-TYPE H7	275	-	2-TYPE H7	105	855
	Z25	1-TYPE H2	375	-	1-TYPE H3	375	-	-	-	-
	Z30	1-TYPE H2	375	-	1-TYPE H3	375	-	-	-	-
	Z50	2-TYPE H2	375	-	2-TYPE H3	375	-	2-TYPE H3	375	-
	Z60	2-TYPE H2	375	-	2-TYPE H3	375	-	2-TYPE H3	235	-
	Z75	3-TYPE H2	375	-	3-TYPE H3	375	-	6-TYPE H2	325	1075
	Z90	3-TYPE H2	375	-	3-TYPE H3	375	-	6-TYPE H2	375	1175
UNIT WITH BIN, HOPPER AND PRESEPARATION SECTION	Z 7.5	1-TYPE H7	275	-	-	-	-	-	-	-
	Z 15	1-TYPE H7	275	-	2-TYPE H7	105	855	-	-	-
	Z 25	1-TYPE H2	375	-	1-TYPE H3	375	-	-	-	-
	Z 30	1-TYPE H2	375	-	1-TYPE H3	375	-	-	-	-
	Z 50	2-TYPE H2	375	-	2-TYPE H3	375	-	-	-	-
	Z 60	2-TYPE H2	375	-	2-TYPE H3	375	-	4-TYPE H2	375	1175
	Z 75	3-TYPE H2	375	-	3-TYPE H3	375	-	6-TYPE H2	325	1075
	Z 90	3-TYPE H2	375	-	3-TYPE H3	375	-	6-TYPE H2	375	1175

EXPLOSION RELIEF PANEL TOP POSITION

CONFIGURATION	SIZE	ST1	ST2	ST3
UNIT WITH BIN AND HOPPER	Z7.5	1-TYPE H4	1-TYPE H4	-
	Z15	1-TYPE H4	1-TYPE H4	-
	Z25	1-TYPE H5	1-TYPE H6	-
	Z30	1-TYPE H5	1-TYPE H6	-
	Z50	2-TYPE H5	2-TYPE H6	-
	Z60	2-TYPE H5	2-TYPE H6	-
	Z75	3-TYPE H5	3-TYPE H6	-
	Z90	3-TYPE H5	3-TYPE H6	-
UNIT WITH BIN, HOPPER AND PRESEPARATION SECTION	Z7.5	1-TYPE H4	-	-
	Z15	1-TYPE H4	-	-
	Z25	1-TYPE H5	1-TYPE H6	-
	Z30	1-TYPE H5	-	-
	Z50	2-TYPE H5	2-TYPE H6	-
	Z60	2-TYPE H5	2-TYPE H6	-
	Z75	3-TYPE H5	3-TYPE H6	-
	Z90	3-TYPE H5	3-TYPE H6	-

Fan Performance



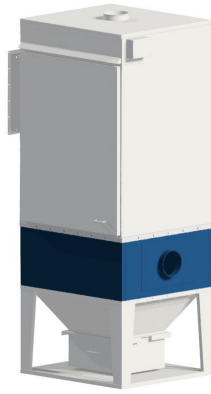


Option description



Bin-balance

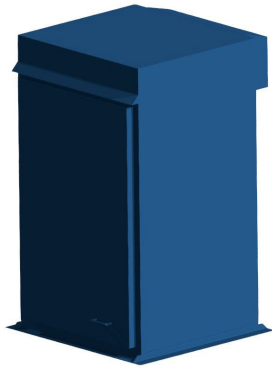
The bin-balance device balances the pressure between the bin and the hopper. It enables plastic bin liners to be used to aid the clean disposal of waste. The flexible connecting tube is long enough to enable complete withdrawal of the bin.



Pre-separation section

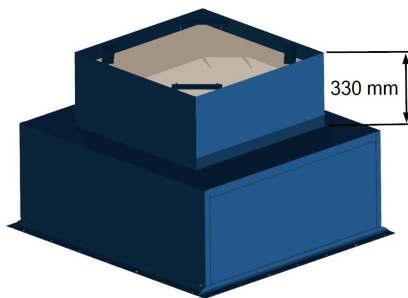
This section fits between the hopper and is delivered as an integral part of the hopper. The inlet may incorporate a spark trap if specified.

A pre-separation section is beneficial for lightweight dusts and higher dust loadings, as it provides a greater volume below the filter bag. The pre-separation section increases the total unit height by 500 mm for all units.



Venting unit

This unit has no hopper, but is mounted directly onto the vessel or silo to be ventilated. It is fitted with a mounting flange. It may be fan-assisted, or without fan. In this case the clean air outlet is at the back, with a weather cowl. The fan assisted version should be fitted with a standard silencer and weather cowl for outdoor location. The shaker motor is normally located inside the filter body.



Safety filter

The safety filter is designed as an absolute filter for indoor installations. The safety filter is equipped with H13 class filter cartridges according to EN 1822, which is mounted in the frame.



Weather proof flange

Windproof flange is mounted on explosion relief panel's frame situated on top. Secures panel's flap from unwanted opening due to gust of wind.

Control cabinet with frequency converter

The control cabinet carries out the operation of the fan by frequency converter and the operation of the shaker by direct start-up. By varying the fan speed, the frequency converter maintains a constant pressure at the filter inlet.