

KOMSA



The Auto M (500-6,500 CFM)

Suitable for various applications that generate light to medium volumes of dry dust



Applications:

Metal • Cement • Powder Bulk • Plastic • Pharmaceutical • Food • Silo Venting • Woodworking

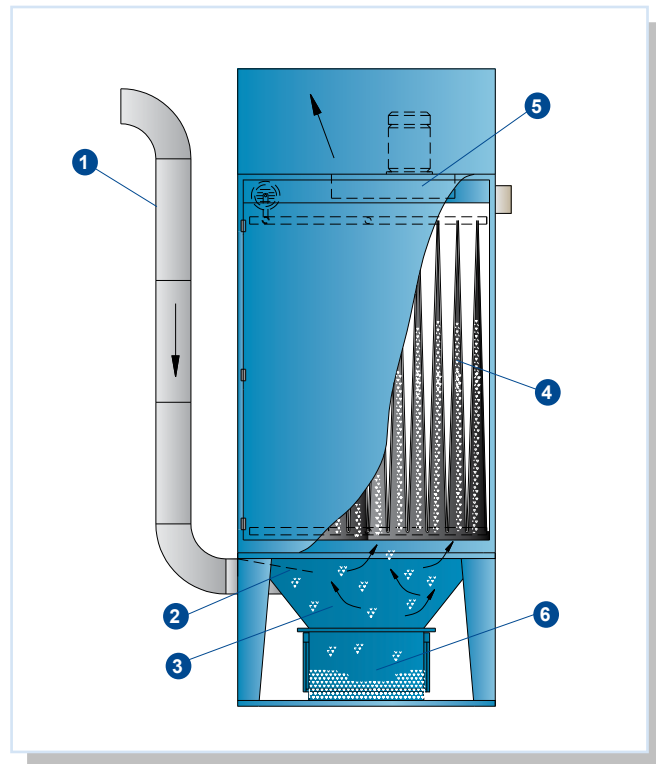
Features

- *Automatic shaker*
- *Clean air side maintenance for quick healthier cleaning.*
- *Wide range of sizes*
- *Single unit can do up to 6,500 CFM*
- *Weatherproof to locate anywhere*
- *Suitable for potentially explosive dusts (St1) with explosion panels*
- *No need for compressed air*
- *Compact dimensions and minimal height requirement*
- *Optional secondary filters*
- *Efficient bag design and top mounted shaker ensures maximum bag life*

How It Works

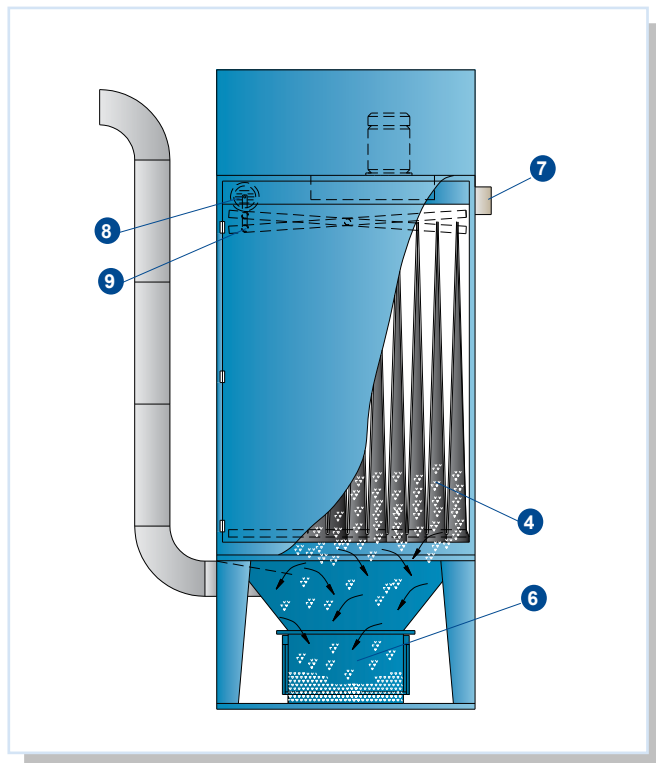
...during normal operation

1. During normal operation, the dust laden air from the plant travels down the supply duct **1**
2. A standard baffle **2** is mounted at the inlet of the filter to break up the air flow and direct the dust downward into the hopper section **3** while protecting the filter media from abrasive dusts
3. The lighter dust collects on the inside of the envelope bag **4** as clean air passes through. Finally, the clean air travels up through the air handling fan **5** where it could be returned to the plant or exhausted outdoors
4. The heavier dust settles in the hopper section **3** where it is discharged into a metal bin **6**.

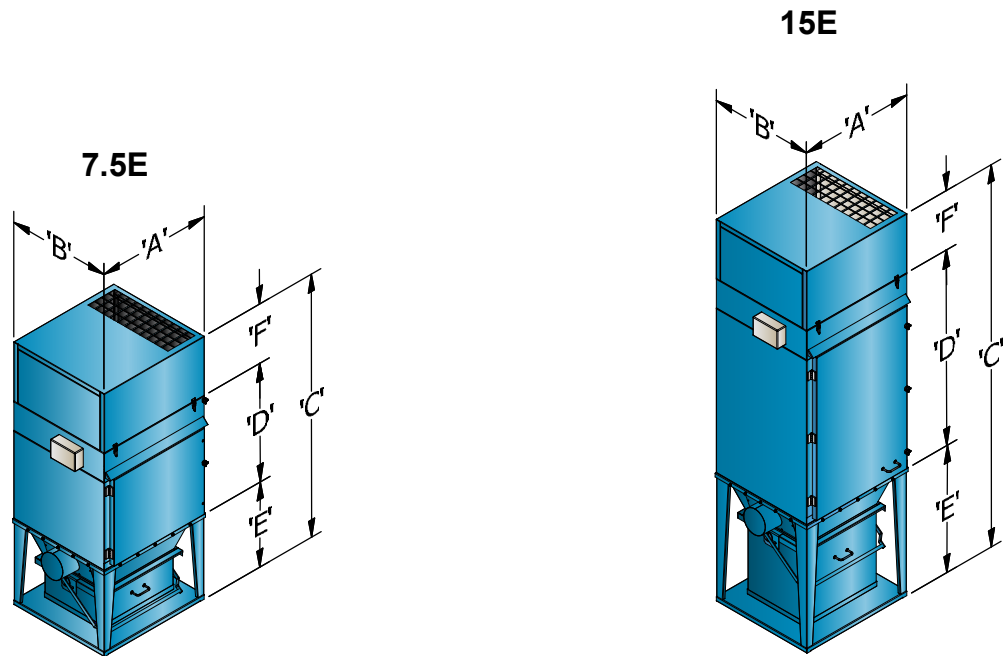


...while cleaning

1. Each time the filter unit is turned off, there is a 30 second delay and then the automatic timer **7** activates the shaking motor **8**
NOTE: The cleaning cycle may be adjusted to shake for anywhere between 8 and 16 seconds.
2. The shaft of the shaker motor is attached to a simple cam which, in turn is attached to the shaking mechanism **9**. The shaking mechanism pivots rigorously from side to side which causes the dust to break free from the inside of the filter bag **4**
3. The dust then falls into the metal collection bin located at the bottom of the filter unit **6**.

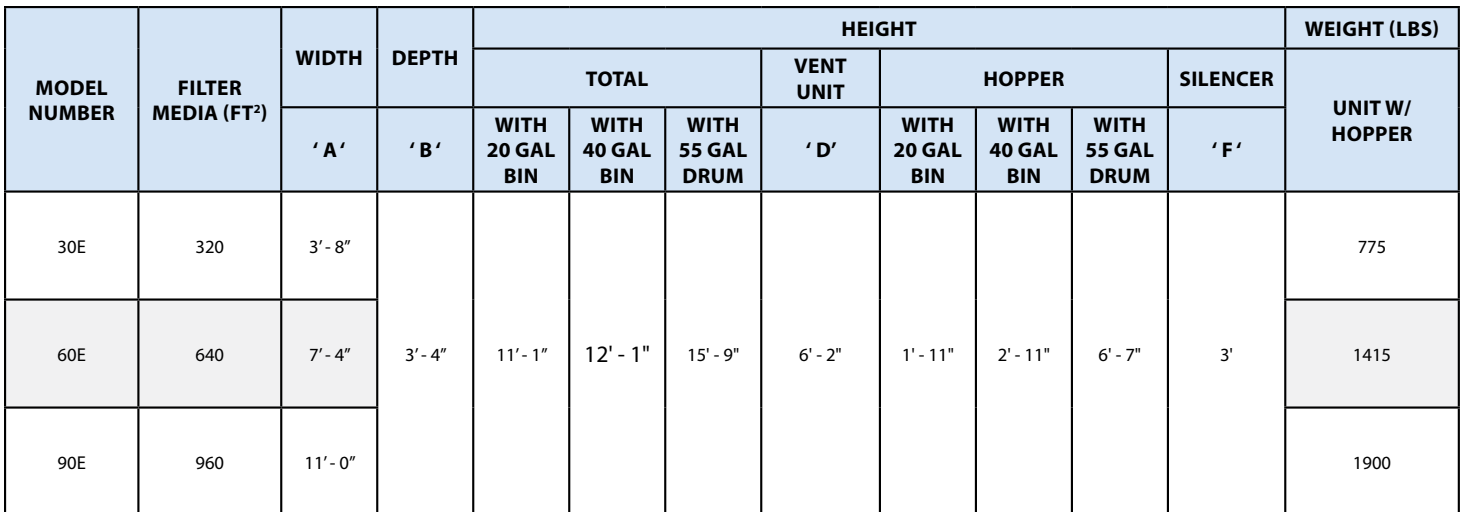


Unit Specifications



MODEL NUMBER	FILTER MEDIA (FT²)	WIDTH	DEPTH	HEIGHT								WEIGHT (LBS)
				'C'			VENT UNIT	'E'			SILENCER	UNIT W/ HOPPER
				WITH 20 GAL BIN	WITH 40 GAL BIN	WITH 55 GAL DRUM	'D'	WITH 20 GAL BIN	WITH 40 GAL BIN	WITH 55 GAL DRUM	'F'	
7.5E	80	2' - 9"	2' - 6"	6' - 2"	7' - 2"	10' - 5"	2' - 9"	2'	3'	6' - 3"	1' - 5"	360
15E	160			8'	9'	12' - 5"	4' - 7"					475

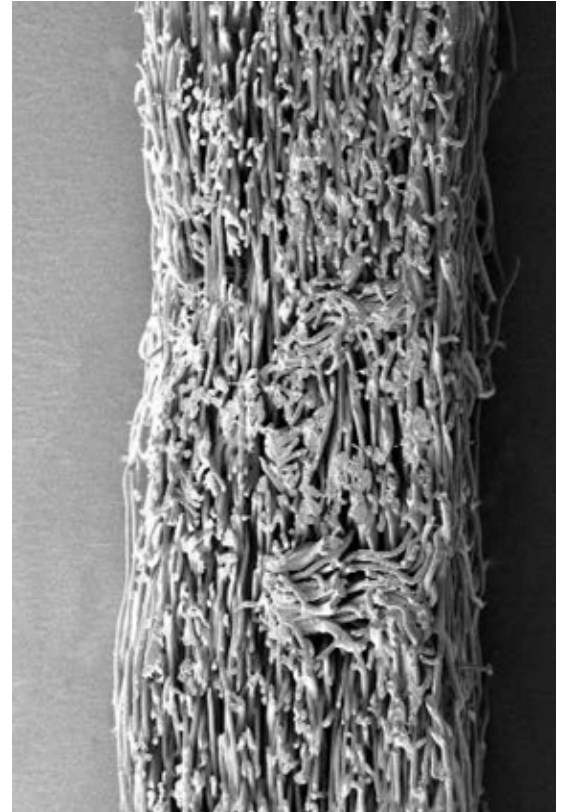
NOTE: Rear inlet is standard on all units. Side inlet is optional, except for 90E.
 Silencer not available on units with 20 HP or greater Fan Motor



Bag Information

Auto M filters utilize robust high efficiency non-woven needle felt materials incorporating a Fiberlox™ technology. The “V” pocket shaker bags are available with various finishes to suit the application and material to be filtered or collected.

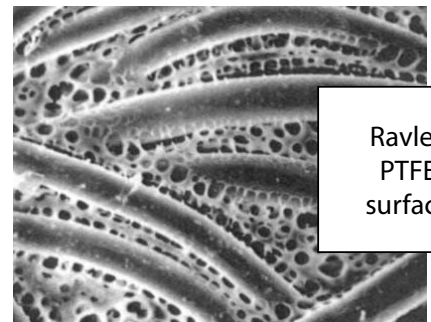
The material may have a glazed dust collection surface. This improves the dust release properties for use with “difficult” dust materials. This is shown here as seen, and magnified. The basic material is polyester needle felt with a singed dust collection surface. However, many other base materials are available to suit particular applications.



There are materials to resist attack from acidic and alkaline atmospheres; with enhanced abrasion resistance; for higher temperatures; with anti-static properties; with flame retardant treatments and with other special properties.

Needle felt can be made from many kinds of fiber: - for example

**Polypropylene (PP)
Polyamide (NOMEX)
Polyphenyl sulphide (PPS) (Ryton)
Polyimide (P84)
Homopolymer-acrylic (PAN) (Dralon)
PTFE (Gore-Tex) (Ravlex)**



Ravlex
PTFE
surface

Nederman applications engineers will carefully assess your requirements to ensure optimal selection of equipment and filter material, based upon 30+ years' experience of successful installations worldwide.

Installations

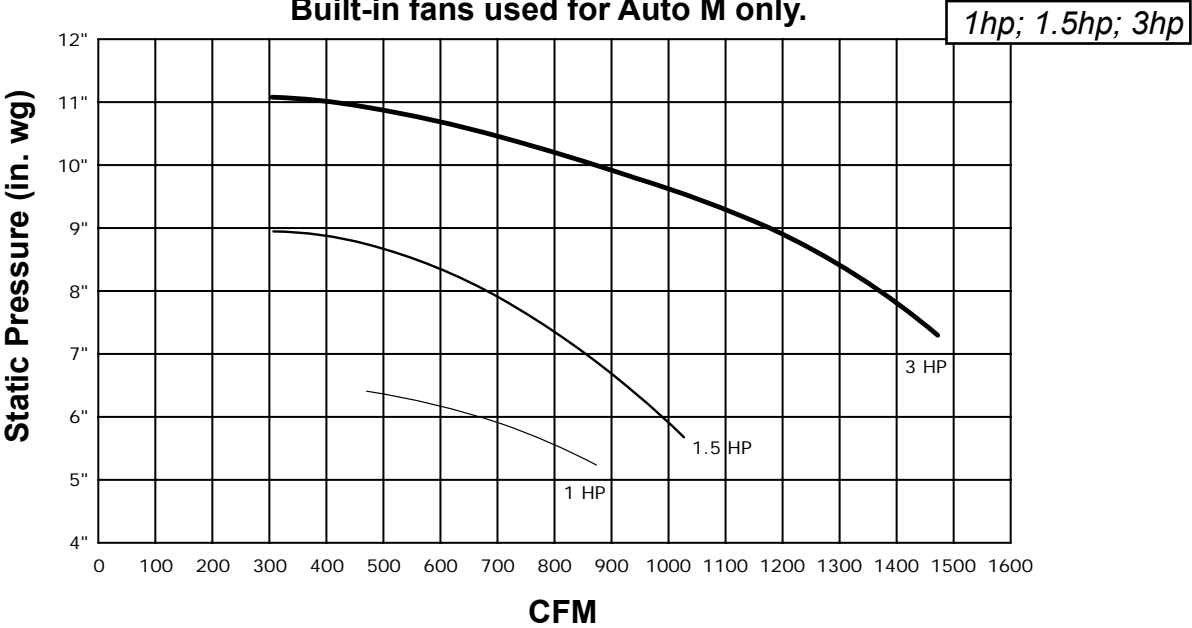


Fan Performance

	1HP	1.5HP	3HP	5HP	7.5HP	10HP	15HP	20HP	25HP
BUILT-IN FANS FOR 7.5E & 15E:	●	●	●						
TOP MOUNTED FANS FOR 30E:				●	●	●	●		
TOP MOUNTED FANS FOR 60 & 90E:					●	●	●	●	●

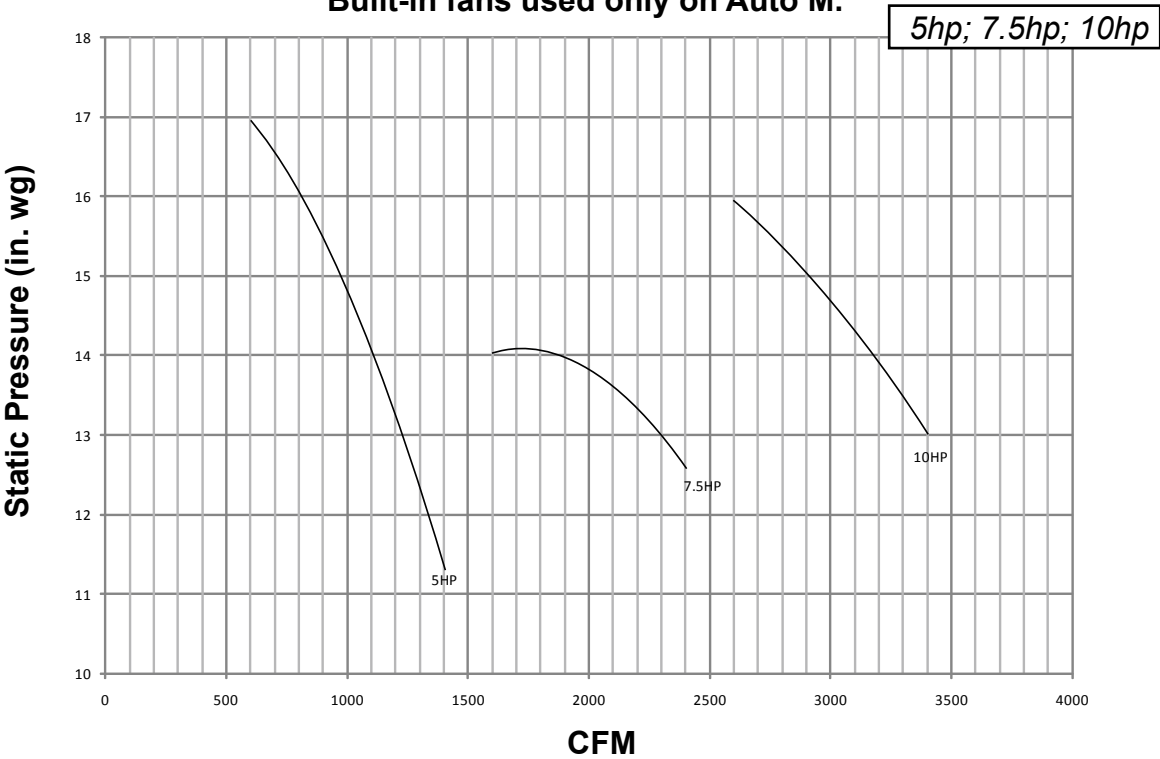
Auto M fan performance, with open outlet, at running speed 3500/min.

Built-in fans used for Auto M only.



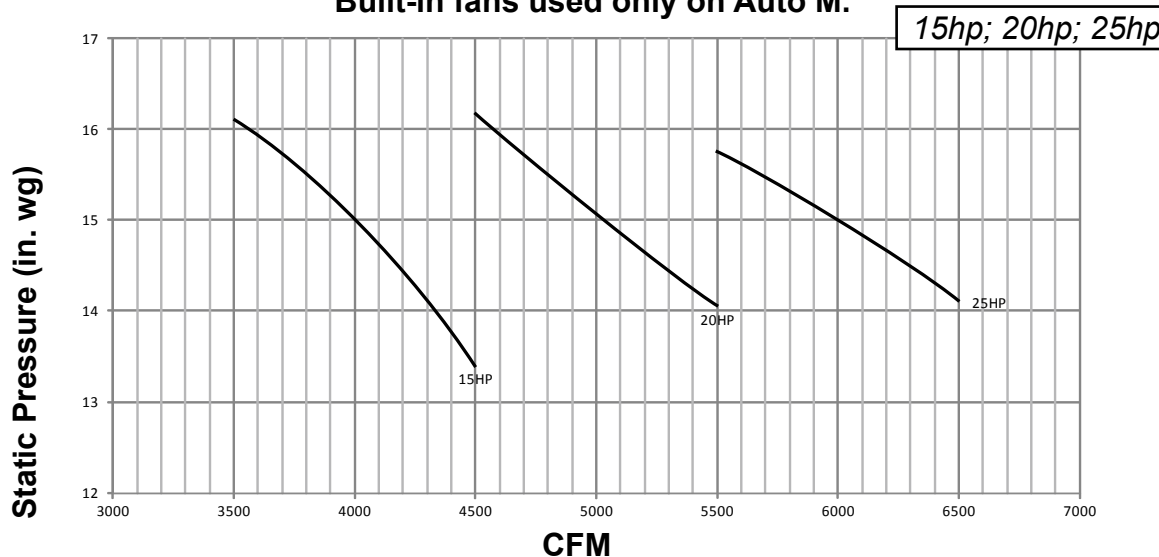
Auto M fan performance, with open outlet, at running speed 3500/min.

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Fan Performance / Silencer

Auto M fan performance, with open outlet, at running speed 3500/min.
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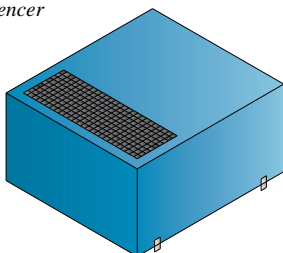


AUTO M INLET DETAILS

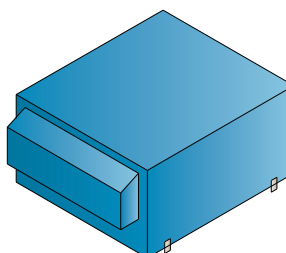
FILTER UNIT INLET DETAILS WITH 20 OR 40 GALLON BIN							
UNIT	STANDARD UNIT		UNIT WITH PRE-SEPARATION SECTION - SINGLE INLET				
	INLET SPIGOT DETAILS (INCHES)	POSITION AND NUMBER OF INLETS	UNIT HEIGHT INCREASE WITH PRE-SEPARATION	INLET SPIGOT DETAILS (INCHES)	INLET POSITION	HEIGHT FROM FLOOR TO CENTER LINE OF INLET	
						20 GALLON BIN	40 GALLON BIN
7.5E AND 15E	4", 5", 6", 7.5" dia.	1 - side or rear	15.25"	4", 5", 6", 7.5" dia.	Side or rear	32"	43.75"
30E	12.25" H x 4.75" W	1 - side or rear	20"	10" QF dia.	Side or rear	33"	44.5"
60E	12.25" H x 4.75" W	2 - side or rear	20"	14" QF dia.	Side or rear	33"	44.5"
90E	12.25" H x 4.75" W	3 - rear	20"	16" QF dia.	Side or rear	33"	44.5"

SILENCERS

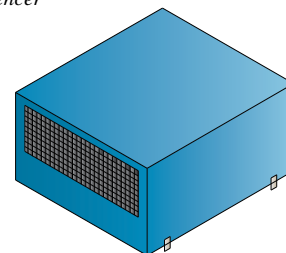
TOP DISCHARGE
Silencer



WEATHERPROOF SIDE
DISCHARGE silencer



SIDE DISCHARGE
silencer



The enclosure type air silencer provides useful sound attenuation as well as enabling the Auto M unit to be located outdoors. It also reduces the shaker cleaning noise because of the location of the shaker motor. The top discharge silencer is simply lifted into place and secured with over-center clips.

The side discharge versions also have one removable end so that it can be fitted in areas with restricted height. It is simply slid into place and the removable end then clipped into place.

Options

Pre-separation, Bin-balance, Venting unit.

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 15 in. for 7.5E and 15E units; by 20 in. for all other units.



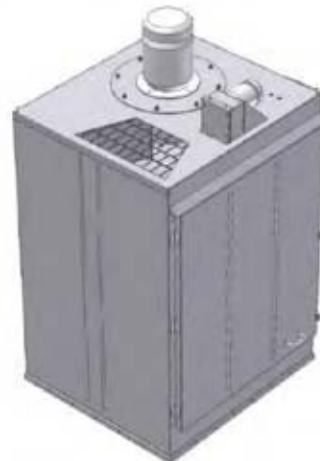
Bin-balance

The bin-balance device balances the pressure between the bin and the clean air section. 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.

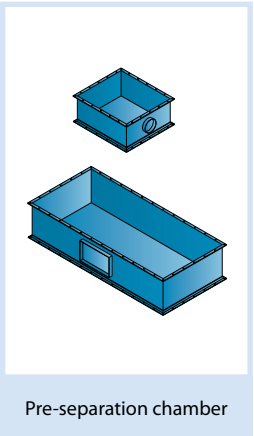
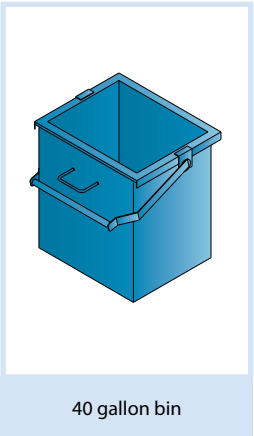
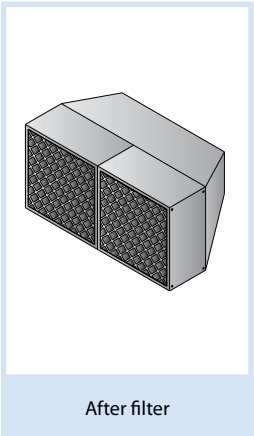
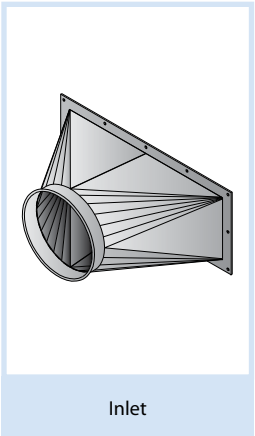
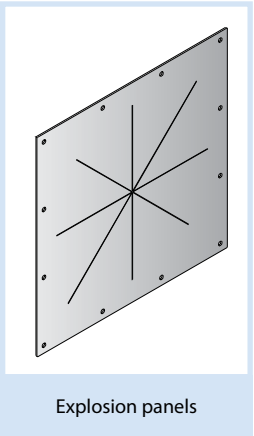
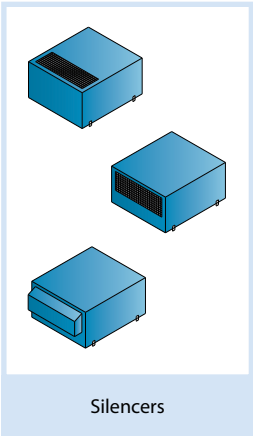
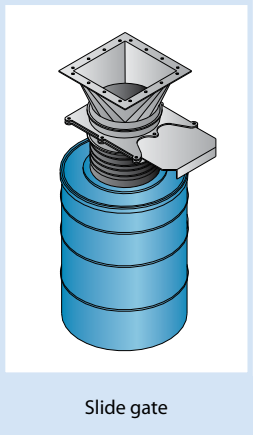
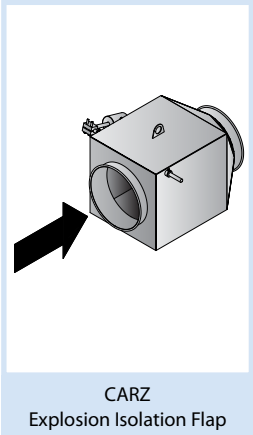
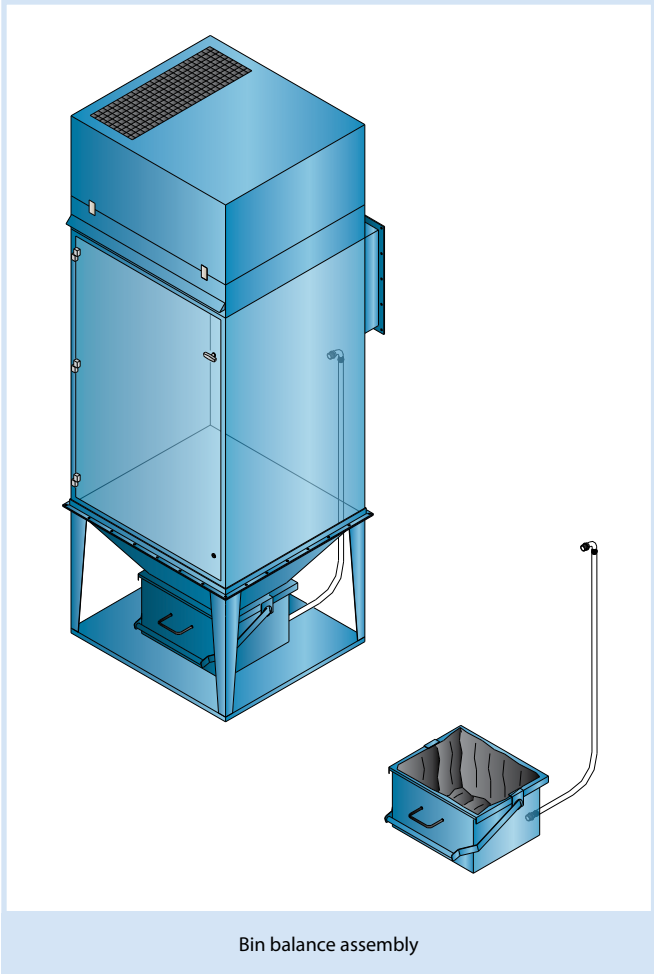


Venting unit

This unit has no hopper, but is mounted directly onto the vessel or silo to be ventilated. It is fitted with a mounting flange (not shown in illustration). It may be fan-assisted, as shown, 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, shown here in optional externally mounted position, is normally located inside the filter body.



Options



Soluzioni KOMSA per le vostre necessità di aspirazione

Vi mostriamo qui di seguito alcuni esempi di sistemi di aspirazione che fanno parte della nostra ampia gamma di prodotti.

Per maggiori informazioni potrete visitare il nostro sito internet: www.komsa.it

Bracci di aspirazione



Sistemi di aspirazione per gas di scarico veicoli



Elettroventilatori



Filtri



Filtri per impianti centralizzati



Filtri carrellati



Aspiratori industriali ad alta pressione



Arrotolatori per tubi e cavi



KOMSA

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