



**MIX S.r.l.**  
MIXING SYSTEMS AND  
COMPONENTS FOR PLANTS

[www.mixitaly.com](http://www.mixitaly.com)

# Filtering Division

SKY series



 ATEX-RATED PRODUCTS AVAILABLE

# Quality and Innovation

## AIR POLLUTION

Air pollution, with dusts emitted into the atmosphere, causes detrimental effects to people and things.

## SOCIAL ENGAGEMENT

Technological progress and environmental protection, job and health, economy and ecology must proceed hand in hand; a need for the present, and a commitment for the next future.

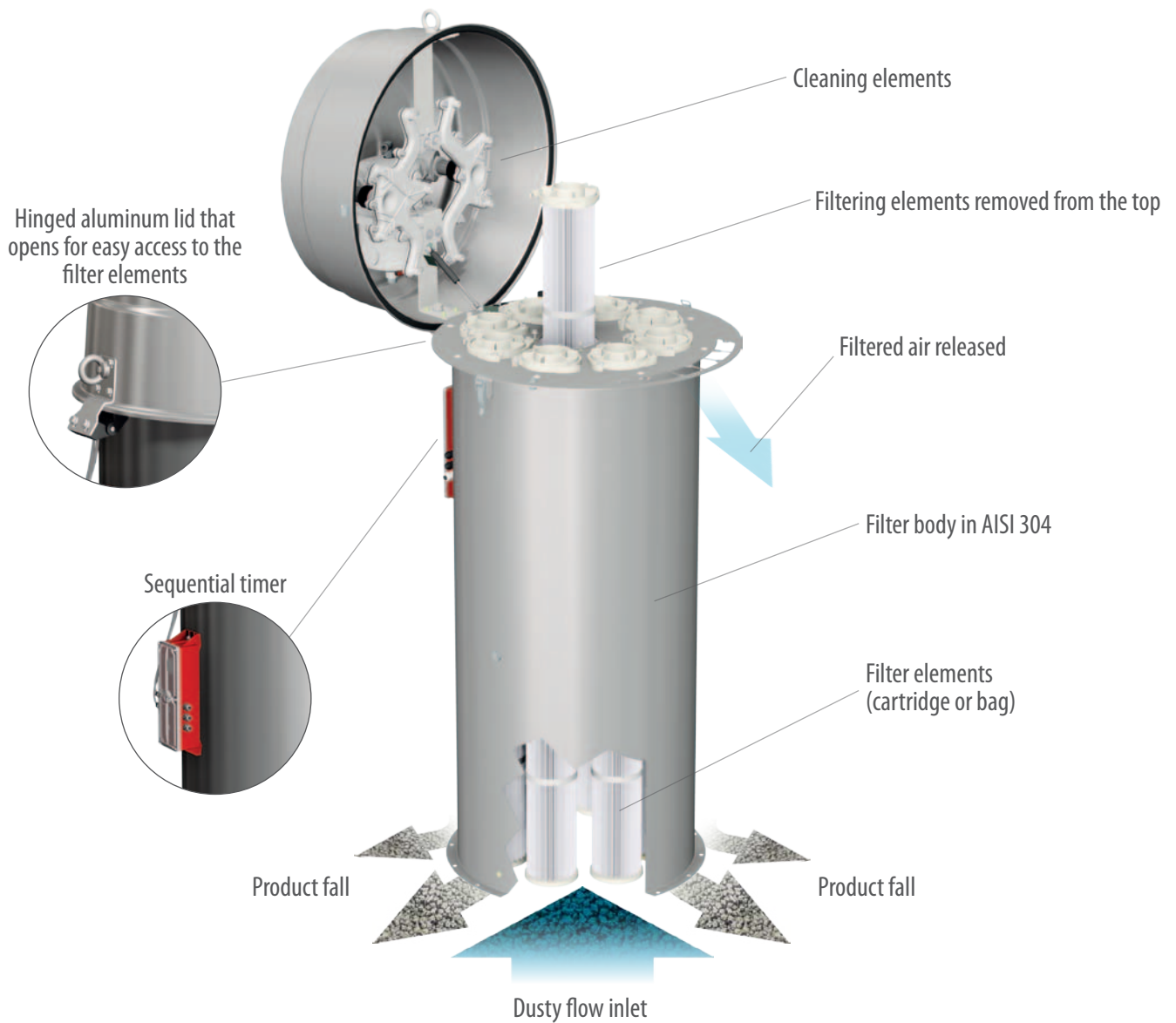
## MIX SRL PRODUCTS AND SOLUTIONS

MIX Srl has newly designed a complete series of compact filters with a round housing design and a bigger filtering surface; the easy opening design of the cover helps the access to the filtering units and to the pulse jet cleaning system.

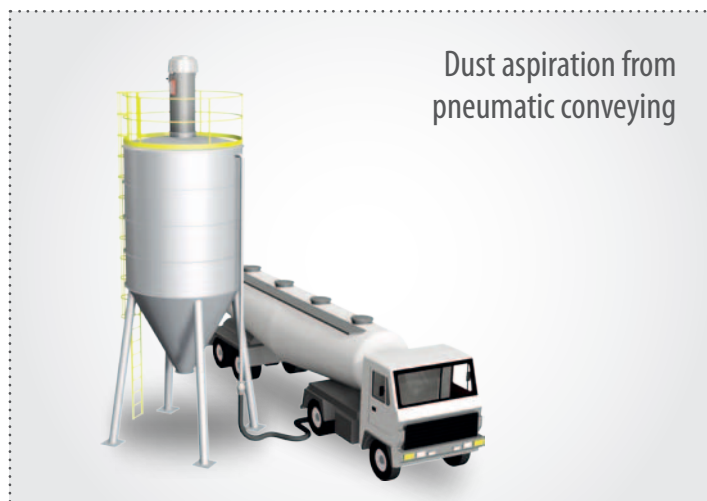


# Purpose

Dust collectors separate the dust from the air in a flow of dusty air. The dust is retained on the outside of the filtering elements, while the air passes inside and is dedusted. The dust held inside the filter falls into the container below, while the clean air is released. The separation of dust from the air is never absolute: the dust collector reduce its concentration bringing it back to levels compliant with current standards.



## COMMON APPLICATIONS



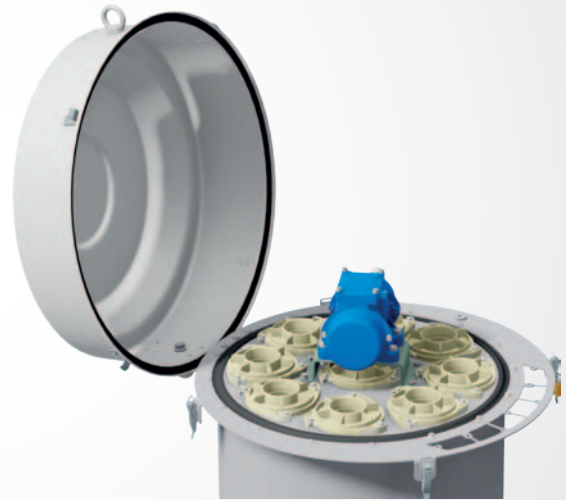
# Features

## REVERSE AIR JET PNEUMATIC CLEANING

with MIX sequencer

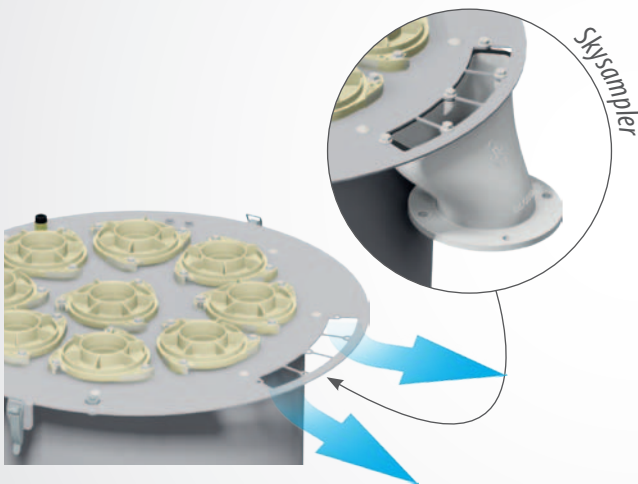


## VIBRATION CLEANING

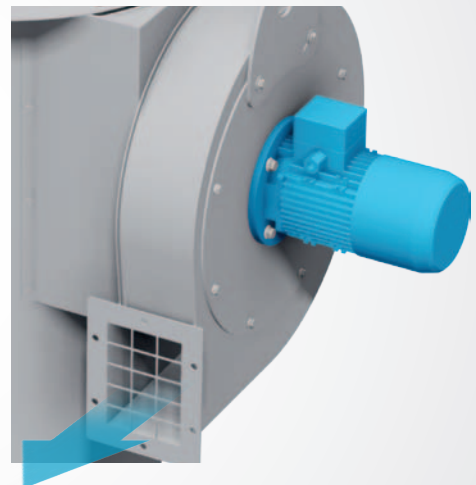


## FREE DISCHARGE INTO ATMOSPHERE

or conveyed via Skysampler connection (optional)



## FAN ASSISTED DISCHARGE



## CARTRIDGE FILTER ELEMENTS



## BAG FILTER ELEMENTS



# Fabric filter element

## PREMIUM POLYESTER



### "THERMAL BONDED TNT MATERIAL

- Emission  $<1 \text{ mg} / \text{Nm}^3$   
NB: Obtainable after application analysis  
(minimum product particle size / filtration rate / can velocity)
- Antistatic treatment available
- Lifetime: up to 20,000 operating hours
- Cleanable by water wash
- Classification: **M** according to BGIA test
- Weight:  $260 \text{ g} / \text{m}^2$
- Air permeability:  $280 \text{ m}^3 / \text{m}^2 \text{ h}$  (200Pa)
- Low pressure drops:  $<700 \text{ Pa}$  (70 mm H<sub>2</sub>O)
- Low melting point heat-bonded synthetic fibers (Fig. 1)
- Homogeneous surface (Fig. 2) which increases the mechanical resistance

NB: The commercial cartridges available on the market are produced with stitch-welded fabrics (Fig.3-4) which reduce the real filtering surface by up to 35% (Fig.5) "

## POLYESTER SKYFILTER®



### THERMAL BONDED TNT MATERIAL

- Emission  $<20 \text{ mg} / \text{Nm}^3$   
NB: Obtainable after application analysis  
(minimum product particle size / filtration rate / can velocity)
- Lifetime: up to 30,000 operating hours
- Cleanable by water wash
- Classification: **L** according to BGIA test
- Weight:  $250 \text{ g} / \text{m}^2$
- Air permeability:  $3400 \text{ m}^3 / \text{m}^2 \text{ h}$  (200Pa)
- Low pressure drops:  $<700 \text{ Pa}$  (70 mm H<sub>2</sub>O)
- Less cleaning cycles required
- Low melting point heat-bonded synthetic fibers (Fig. 1)
- Homogeneous surface (Fig. 2) which increases the mechanical resistance

NB: The commercial cartridges available on the market are produced with stitch-welded fabrics (Fig.3-4) which reduce the real filtering surface by up to 35% (Fig.5)

## NEEDED FELT



### POLYESTER NEEDLE FELT MATERIAL

- Emission  $<5 \text{ mg} / \text{Nm}^3$   
NB: Obtainable only with specific types of tissues and after application analysis  
(minimum product particle size / filtration rate / rate of ascent)
- Different surface treatments available  
(antistatic / teflon coating / heat-sealed membrane)
- Cleanable by water wash
- Classification: L or M according to BGIA test
- Weight:  $450 \text{ g} / \text{m}^2$  or higher
- Antistaticity obtained with stainless steel fibers (Fig. 5)
- Can be installed on galvanized carbon steel cages or, on request, in stainless steel

## TNT USED BY MIX PRODUCED BY FREUDENBERG



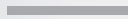
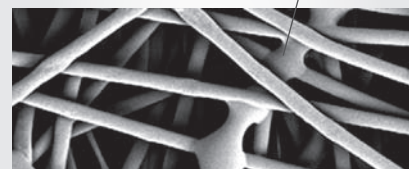
Fig.01  Standard 1.000 µm



Fig.02 (smooth surface)



Zoom heat sealing

## FABRICS NOT MIX

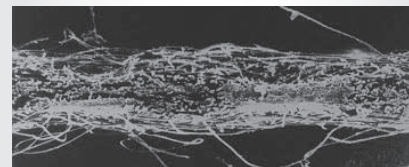
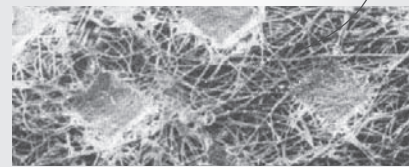


Fig.03  Standard 1.000 µm



Fig.04 (spot welded surface)



Zoom spot welding

## ANTISTATIC FABRIC



Fig.05

# Combination table



**Identification**  
/: Standard  
A: Atex

**Nominal Filtering Surface**  
(see Tav.01 e Tav.02)

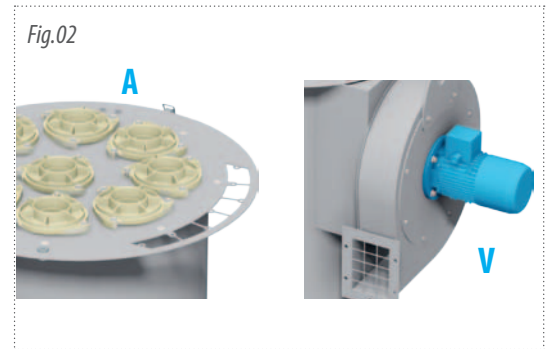
**Cleaning system voltage**  
SFA: 230/400V 50Hz IP65  
.SFC - SFL: 24V AC/DC - 115/230V AC

**Type**  
A: Cartridge with vibration cleaning (extraction from the top)  
C: Cartridge with pulse jet cleaning (extraction from the top)\*  
L: Bag with pulse jet cleaning (extraction from the top)\*  
\*Extraction from the hatch on request

**Air Outlet Type**  
A: Free discharge into atmosphere  
V: Fan assisted discharge  
Fig.02

**Material of construction**  
Central body in AISI 304, cover in aluminium, electro-fan painted mild steel (if any)  
2: Other parts in contact with product in AISI 304  
5: Other parts in contact with product in zinc plated mild steel

Filtering media		
SFA.	.SFC.	.SFL.
A: Premium Polyester	A: Premium Polyester	A: Polyester (450 g/m <sup>2</sup> )
E: Vibro Polyester	B: Antistatic Premium - Polyester	B: Antistatic Polyester (450 g/m <sup>2</sup> )
P: Polyester	P: Polyester	* Other tissues available on request
G: SKYFILTER®	J: Water-Oil Repellent	
M: Plus Polyester	G: SKYFILTER®	
	M: Plus Polyester	



**SFA** type filter, with cartridge extraction from above, vibration cleaning system, free discharge into the atmosphere (**SFAA**) or complete with fan (**SFAV**)

**SFC** type filter, with cartridge extraction from the top, jet pulse pneumatic cleaning system, free discharge into the atmosphere (**SFCA**) or complete with fan (**SFCV**)

**SFL** type filter, with bag extraction from the top, jet pulse pneumatic cleaning system, free discharge into the atmosphere (**SFLA**) or complete with fan (**SFLV**)

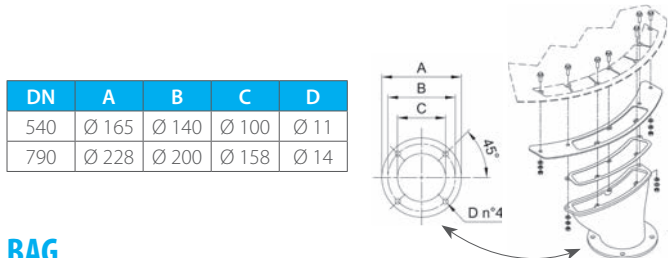
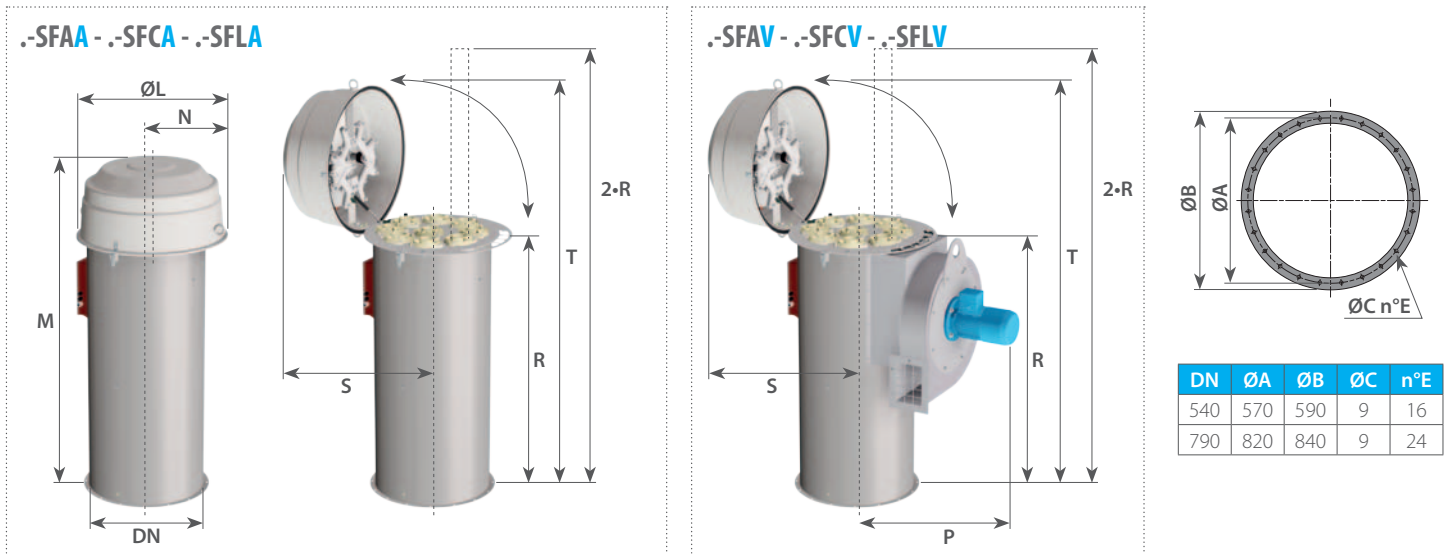


# Dimensions

## CARTRIDGE

Tav.01

	kg	TYPE	kg	m <sup>2</sup>	Filter elements	DN	ØL	M	N	P	R	S	T	kW
SFAA090..LP	34	/	/	9	A - E - P	540	685	810	345	/	575	850	1255	/
SFAA115..LP	39	SFAV115..LP	87	11,5	A - E - P	540	685	935	345	780	700	850	1380	1,5
SFAA160..LP	45	SFAV160..LP	93	16	A - E - P	540	685	1205	345	780	970	850	1650	1,5
SFAA200..LP	51	SFAV200..LP	101	20	A - E - P	540	685	1455	345	805	1220	850	1900	2,2
SFAA270..LP	51	SFAV270..LP	119	27	G SKYFILTER® - M	540	685	1455	345	855	1220	850	1900	3
-.SFCA075..LP	35	/	/	7,5	A - B - P - J	540	685	900	345	/	575	695	1255	/
-.SFCA100..LP	40	-.SFCV100..L	88	10	A - B - P - J	540	685	1025	345	780	700	695	1380	1,5
-.SFCA105..LP	35	/	/	10,5	G SKYFILTER® - M	540	685	900	345	/	575	695	1255	/
-.SFCA140..LP	40	-.SFCV140..L	88	14	G SKYFILTER® - M	540	685	1025	345	780	700	695	1380	1,5
-.SFCA142..LP	46	-.SFCV142..L	94	14,2	A - B - P - J	540	685	1295	345	780	970	695	1650	1,5
-.SFCA180..LP	51	-.SFCV180..L	101	18	A - B - P - J	540	685	1545	345	805	1220	695	1900	2,2
-.SFCA190..LP	46	-.SFCV190..L	96	19	G SKYFILTER® - M	540	685	1295	345	805	970	695	1650	2,2
-.SFCA200..LP	54	-.SFCV200..L	104	20	A - B - P - J	540	685	1545	345	805	1220	695	1900	2,2
-.SFCA240..LP	51	-.SFCV240..L	119	24	G SKYFILTER® - M	540	685	1545	345	855	1220	695	1900	3
-.SFCA270..LP	54	-.SFCV270..L	122	27	G SKYFILTER® - M	540	685	1545	345	855	1220	695	1900	3
-.SFCA280..LP	94	-.SFCV280..L	172	28	A - B - P - J	790	965	1270	525	1010	970	825	1915	3
-.SFCA350..LP	107	-.SFCV350..L	190	35	A - B - P - J	790	965	1520	525	1035	1220	825	2165	4
-.SFCA380..LP	94	-.SFCV380..L	205	38	G SKYFILTER® - M	790	965	1270	525	1205	970	825	1915	5,5
-.SFCA440..LP	117	-.SFCV440..L	228	44	A - B - P - J	790	965	1520	525	1205	1220	825	2165	5,5
-.SFCA480..LP	107	-.SFCV480..L	225	48	G SKYFILTER® - M	790	965	1520	525	1245	1220	825	2165	7,5
-.SFCA600..LP	117	-.SFCV600..L	325	60	G SKYFILTER® - M	790	965	1520	525	1290	1220	825	2165	11



SKYSAMPLER (OPTIONAL)			
	DN	Mounted to the filter	Delivered unassembled (complete with gasket and bolts)
	540	SKS100C8B	SKS100C8A
	790	SKS168D8B	SKS168D8A

## BAG

Tav.02

TYPE	kg	TYPE	kg	m <sup>2</sup>	Filtering Elements	DN	ØL	M	N	P	R	S	T	kW
-.SFLA020..LP	38	-.SFLV020..L	76	2	A - B	540	685	1025	345	755	700	695	1380	0,75
-.SFLA030..LP	43	-.SFLV030..L	81	3	A - B	540	685	1295	345	755	970	695	1650	0,75
-.SFLA040..LP	49	-.SFLV040..L	97	4	A - B	540	685	1545	345	780	1220	695	1900	1,5
-.SFLA046..LP	78	-.SFLV046..L	136	4,6	A - B	790	965	1000	525	935	700	825	1645	1,5
-.SFLA048..LP	55	-.SFLV048..L	103	4,8	A - B	540	685	1775	345	780	1450	695	2130	1,5
-.SFLA070..LP	92	-.SFLV070..L	150	7	A - B	790	965	1270	525	935	970	825	1915	1,5
-.SFLA090..LP	106	-.SFLV090..L	164	9	A - B	790	965	1520	525	935	1220	825	2165	1,5
-.SFLA110..LP	120	-.SFLV110..L	180	11	A - B	790	965	1750	525	960	1450	825	2395	2,2
-.SFLA135..LP	150	-.SFLV135..L	210	13,5	A - B	790	965	2100	525	960	1800	825	2745	2,2

# FILTERING SYSTEMS AND COMPONENTS FOR PLANTS

QUALITY  
SERVICE  
TECHNOLOGY  
INNOVATION

[www.mixitaly.com](http://www.mixitaly.com)



**MIX S.r.l.** - 41032 CAVEZZO (MO) - Via Volturmo, 119/A - ITALY  
Tel. +39 0535.46577 - Fax +39 0535.46580 - [info@mixitaly.com](mailto:info@mixitaly.com)