

MIX s.r.i. MIXING SYSTEMS AND COMPONENTS FOR PLANTS

www.mixitaly.com

Filtering Division





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.

PRODOTTI E SOLUZIONI MIX

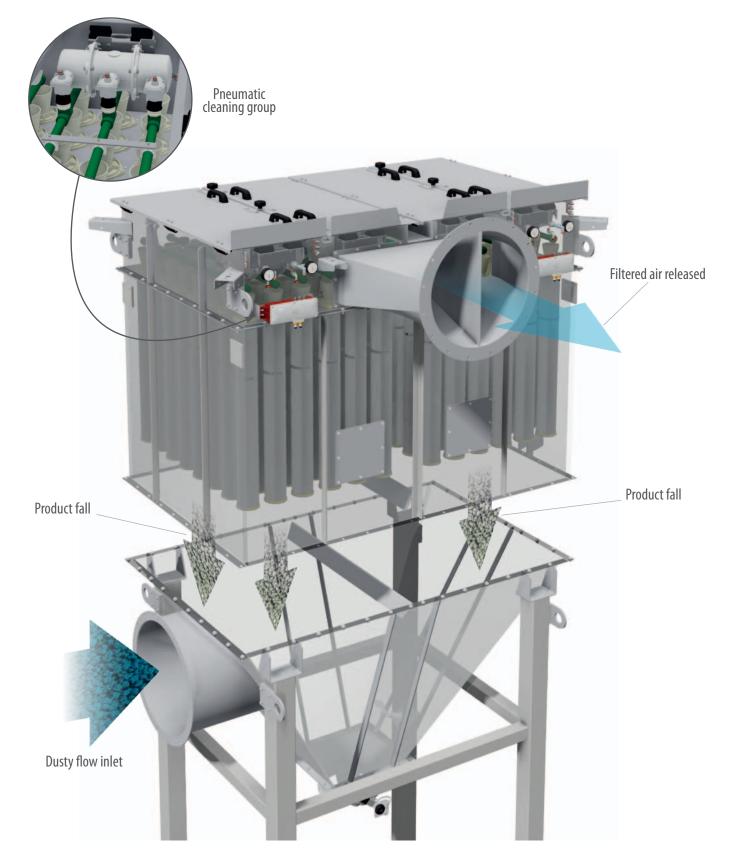
MIX S.r.l. has introduced a complete range of rectangular modular filters type SRD (cartridge) and SRL (bag). Thanks to an innovative design, the MIX dust collectors can operate (with different sizes and technical features) in many productive fields.



Purpose

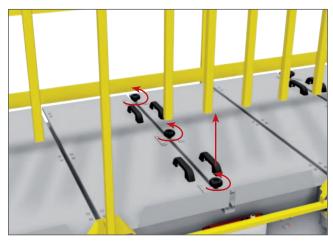
Dust collectors are designed to separate dusts conveyed by a dusty air flow. Powders must be kept outside the filtering element, while the fluid passes through the filter cloth and becomes de-dusted.

Dusts which remain inside the dust collector fall inside a container by pneumatic cleaning, set under the dust collector; while the clean air is released into the atmosphere. The separation of dust from air is never complete: the filter's task is to reduce the dust rate, and to bring it back to the levels permitted by laws.

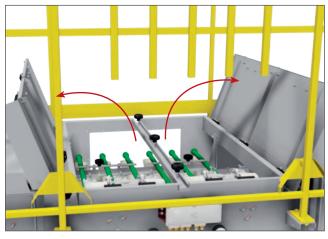


Maintenance Filter elements

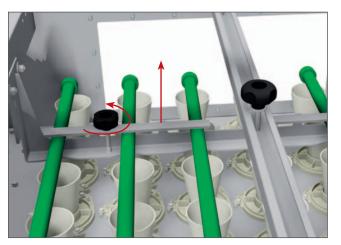
The filters SR. are equipped with a quick dismounting system for the filtering elements (cartridge or bag) allowing quick maintenance.



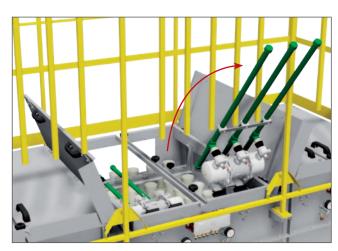
Unscrew the three locking knobs



Raise the hatch



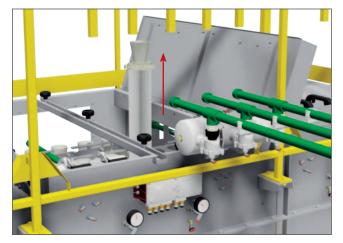
Unscrew the knob and lift the locking bracket



Raise the air conveying pipes to 180°



Loosen the locking screws and turn the filtering element until it is released



Extract the filtering element

Fabric filter element

PREMIUM POLYESTER



"THERMAL BONDED TNT MATERIAL

- Emission <1 mg / Nm3 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 g / m^2
- Air permeability: $280 \text{ m}^3 / \text{m}^2 \text{ h} (200 \text{Pa})$
- Low pressure drops: <700 Pa (70 mm H20)
- 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 mg / Nm3 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 g / m²
- Air permeability: $3400 \text{ m}^3 / \text{m}^2 \text{ h} (200 \text{ Pa})$
- Low pressure drops: <700 Pa (70 mm H20)
- 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)

NEEDLED FELT



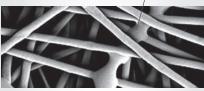
POLYESTER NEEDLE FELT MATERIAL

- Emission <5 mg / Nm3 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 g / m² 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







Zoom heat sealing

FABRICS NOT MIX

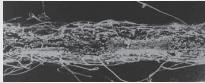


Fig.03

Standard 1.000 µm

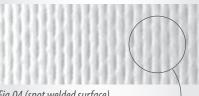
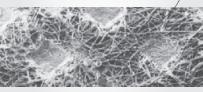


Fig.04 (spot welded surface)

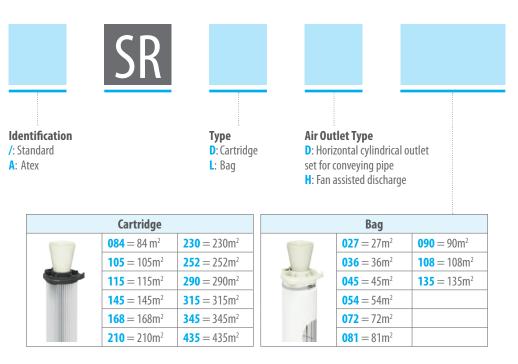


Zoom spot welding

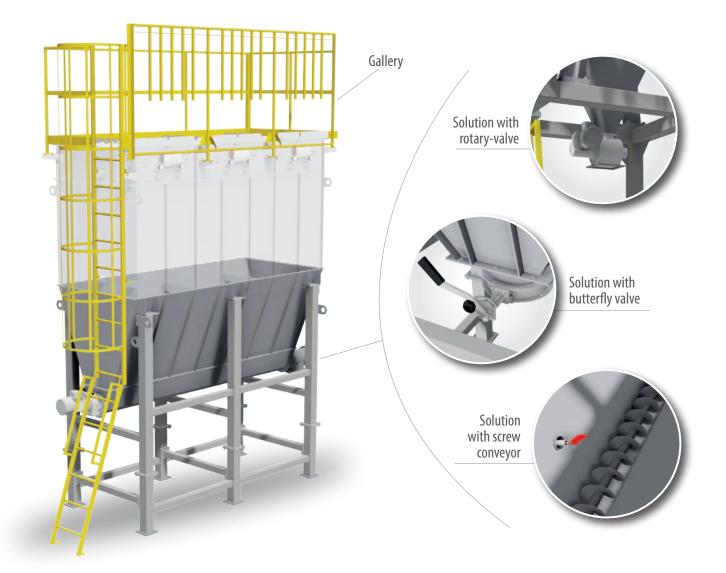
ANTISTATIC FABRIC



Combination table



OPTIONAL



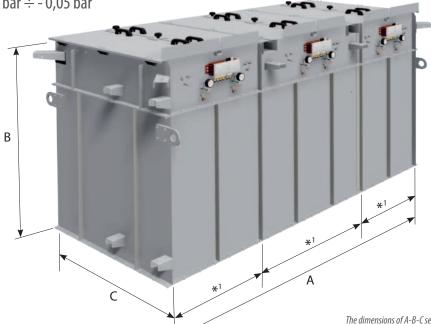
Dimensions

CARTRIDGE VERSION

TYPE SR D	m ²	Filter elements	n° mod.*	А	В	С	Nm³/h *	bar *	kg
SR D .084	84	Standard	1	1070	1450	1400	5	5	450
SR D .105	105	Standard	1	1070	1700	1400	5	5	480
SR D .115	115	Skyfilter®	1	1070	1450	1400	2,1	4	450
SR D .145	145	Skyfilter®	1	1070	1700	1400	2,1	4	480
SR D .168	168	Standard	2	2150	1450	1400	10	5	900
SR D .210	210	Standard	2	2150	1700	1400	10	5	950
SR D .230	230	Skyfilter®	2	2150	1450	1400	4,2	4	900
SR D .252	252	Standard	3	3300	1450	1400	15	5	1360
SR D .290	290	Skyfilter®	2	2150	1700	1400	4,2	4	950
SR D .315	315	Standard	3	3300	1700	1400	15	5	1450
SR D .345	345	Skyfilter®	3	3300	1450	1400	6,3	4	1360
SR D .435	435	Skyfilter®	3	3300	1700	1400	6,3	4	1450

STRONG STRUCTURE

Relative pressure: + 0,03 bar \div - 0,05 bar



BAG VERSION

The dimensions of A-B-C sections refer to the dimension of the filter body, while lifting connections or leaning parts of connected accessories are excluded

TYPE SR L	m²	n° mod*	А	В		Nm³/h *	bar *	kg
SR L .027	27	1	1070	2100	1400	6	6	500
SR L .036	36	1	1070	2600	1400	6	6	570
SR L .045	45	1	1070	3100	1400	6	6	650
SR L .054	54	2	2150	2100	1400	12	6	1000
SR L .072	72	2	2150	2600	1400	12	6	1140
SR L .081	81	3	3300	2100	1400	18	6	1520
SR L .090	90	2	2150	3100	1400	12	6	1300
SR L .108	108	3	3300	2600	1400	18	6	1740
SR L .135	135	3	3300	3100	1400	18	6	1970

* Average air consumption in Nm3/h for use with displayed pressure

Air inlet 3/8" GAS or pipe 12x1

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QUALITY SERVICE TECHNOLOGY INNOVATION

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