

FILTERS F

Automatic filters for air-separation powder are planned to work pressure/negative pressure.
RESISTANCE TO PRESSURE / NEGATIVE PRESSURE = 300 mbar cleaning with a jet of compressed air in counter-flow

Filter Elements: clothes with circular section with snap-ring connection.
Valves with electro-pneumatic control.
Control of cleaning by electronic panel.
Optional: control of pressure drop with automation panel cleaning.

APPLICATION SECTORS

- Ceramic industry
- Chemistry
- Energy: coal
- Glass industry
- Machine rejections recovery
- Metallurgical sector
- Mining industry
- Refractory materials
- ...and still others



WORKING

The dusty fluid comes into a chamber, provided with different systems of laying, then it flows through a battery of filter-elements that holds up the dusty fraction and allows the fluid phase to reach the chimney.

A flow of compressed air, injected cyclically in counter-current inside the filter-elements, throw off the dusty fraction on the filter elements, that is collected in a hopper. On request a system of optimization of the compressed air consumption can be supplied. The flow of compressed air in counter current for the cleaning of the filter elements is driven by a series of electro-pneumatic valves, that are operated by a sequential panel, to clean immediately only a part of the filtering area, so that it is not necessary to stop the flow of the dusty fluid.

CONSTRUCTION

Filters are formed by a casing made of carbon steel; at the top it's placed a sturdy pierced plate on which are fixed the filter elements, inside each filter-element there is a basket made of steel wire with a venture pipe at the top. Assembly and disassembly of the filter-elements together with baskets and venture pipes is made without bolts.



Collectors with the blowing nozzles for compressed air are placed on the filter-elements plate.

The electro-pneumatic valves are placed are assembled on compressed air tank outside the filter.

MODELLO	FILTERING SURFACE
SERIE F 12	m2
F 12-20	27
F 12-30	40
F 12-40	53
F 12-50	67
SERIE F 16	m2
F 16-15	31
F 16-20	42
F 16-25	52
F 16-30	63
F 16-35	73
F 16-40	84
F 16-45	94
F 16-50	105
F 16-55	115
F 16-60	130
F 16-65	136
F 16-70	147
SERIE F 19	m2
F 19-20	61
F 19-30	92
F 19-40	122
F 19-45	146
F 19-50	153
F 19-55	168
F 19-60	183
F 19-65	198
F 19-70	214
SERIE F 23*	m2
F 23-15	80
F 23-20	107
F 23-25	133
F 23-35	187
F 23-40	213
F 23-45	240
F 23-50	268
F 23-55	293
F 23-60	321
F 23-65	347
F 23-75	400

*F23 modules can be combined to increase the surface area until 1200 m2

Approx. data