

# Filter Unit F-150/200

## Effex

### Low and middle vacuum



#### FILTRATION OF FUMES AND DUST FROM:

- Welding
- Cutting
- Grinding and sanding
- Plasma and oxy-fuel cutting
- Flame spraying
- Sand blasting
- Crushing
- Material transport
- Special ventilation applications
- Other production processes



#### DESCRIPTION

F-150/200 is a unique filter unit with vertically mounted filter cartridges and an innovative cleaning system. F-150 is delivered with 6 polyester cartridges as standard. F-200 has 9 cartridges. There is also a wide selection of filter cartridges for various applications.

#### APPLICATIONS

F-150/200 is a highly efficient mechanical filter unit designed to filter fume and dust from a wide range of production processes. The maximum airflow through the filter depends on the type of dust to be filtered. Please refer to the relevant table, or contact Reglo for guidance. The emission level of F-150/200 is less than 0.1 mg/m<sup>3</sup>, and it is capable of handling a negative pressure of up to 6000 Pa.

#### FEATURES

**Vertical filter cartridges:** The F-150/200 has vertically mounted filter cartridges. Vertically mounted filter cartridges ensure that the full area of the cartridge is utilized. (In traditional units, dust builds up on the upper side of the filter cartridge, resulting in reduced filter efficiency.)

**Efficient filter cleaning:** The filter cartridges are automatically cleaned by a compressed air jet, which is distributed evenly across the complete filter surface. In this way, the consumption of compressed air is reduced.

**Differential pressure sequencer:** The filter cleaning is controlled by a sequencer, which monitors the pressure drop across the filter cartridges. This ensures that the filter is only cleaned when necessary.



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## Specifications

Max pressure drop across the unit	pa	6000
Max pressure drop across the filter cartridges	pa	4500
Number of filter cartridges	pcs.	F-150 = 6 / F-200 = 9
Max. filter surface	m <sup>2</sup>	F-150 = 120 / F-200 = 180
Utilization category	(BIA)	M (C)
Efficiency (Hz1/487-2)	%	>99,9
Efficiency (1my)	%	>99
Max temperature	°C	80
Cleaning method		Jet pulse cleaning activated by differential pressure
Noise level when cleaning	dB(A)	<90
Power supply controller	V	230 V
Power supply solenoids	V	24VDC
Frequency	Hz	50
Protection	IP	55
Air consumption	NI/min	140
Tank volume	Liter	20
Compressed air (max)	bar	5,0
Weight	Kg	F-150 = 620 / F-200 = 800
Inlet diameter	mm	F-150 = 500 / F-200 = 630
Outlet dimentions	mm	600 x 300
Dustbin capacity	Liter	45
Colour	RAL	Grey 7047

## ACCESSORIES

**Filter cleaning sequencer:** A 8/12 channel sequencer is used to control the filter cleaning on one F- 150/200. Sequencers with more channels can be supplied where several F-150/200 units are installed in a series. The sequencer has a digital display for monitoring pressure drop across filter units.

**Plastic Bag PB-45:** PB-45 is a biodegradable plastic bag with a snap-on lid, ensuring safe handling of the pollutants. Its capacity is 25 kilos.

**Work platform:** F-150/200 can be equipped with a work platform, which is easily attached to the front legs. The platform is handy during installation and filter replacement.

**Compressed air regulator with water trap:** The F-150/200 requires clean, dry air for filter cleaning. It is recommended to install a regulator with a water trap.

We reserve the right to make changes.

