

FMC200 Cartridge Filter type L and A

Compact cartridge filter for solving dust problems within a wide range of industries



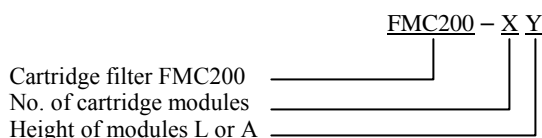
The FMC200 filter is a compact cartridge filter ideal for solving dust problems within a wide range of industries.

The filter is designed for an outdoor location and is as standard designed for a top mounted fan. The cartridges are designed according to the latest research and are patented. The cartridges are produced from materials that can be incinerated. The filter cartridges are available in two different lengths (type L or A).

The cartridges are cleaned automatically by a high-efficiency, low energy consuming compressed air system activated by an integral electronic controller.

The FMC200 filter is easy to maintain due to the following features:

- quick release waste bin.
- inspection and change of the filter cartridges can take place within a few minutes.
- front service of the cleaning valves, the controller, the compressed air tank and the filter cartridges.



Type	No. of cartridges	Filter area (m ²)	Max. air flow (m ³ /h) *	Type	No. of cartridges	Filter area (m ²)	Max. air flow (m ³ /h)*
FMC200-2L	8	Standard: 32	3,200	FMC200-2A	8	Standard: 53	5,300
-	8	Cellulose: 72	3,200	-	8	Cellulose: 116	5,300
FMC200-4L	16	Standard: 64	6,400	FMC200-4A	16	Standard: 106	10,600
-	16	Cellulose: 144	6,400	-	16	Cellulose: 232	10,600
FMC200-6L	24	Standard: 96	9,600	FMC200-6A	24	Standard: 159	15,900
-	24	Cellulose: 216	9,600	-	24	Cellulose: 348	15,900
FMC200-8L	32	Standard: 128	12,800	FMC200-8A	32	Standard: 212	21,200
-	32	Cellulose: 288	12,800	-	32	Cellulose: 464	21,200

* Max. air flow is dependent on the actual dust type etc.

Filter material

Filter cartridges are available in different materials to suit most applications dependent upon the dust type, the dust load and the efficiency required.

Dust load

Standard cartridge: Max. 5 g/m³ fine or coarse dust.

Cellulose cartridge: Max. 1 g/m³ fine dust.

Fan

A range of high-efficiency, top mounted fans for optimizing the extraction is part of the product range. Remote mounted COMBIFAB fans are also available if required.

Dust discharge

The filter is available with a hopper fitted with 50 or 100 liter waste bin, with a hopper having flanged outlet for continuous or mechanized discharge or for connection to your plant.

Inlet options

Dia. 160, 250, 315, 400, 500 or 630 mm.

Dia. 500: only available for FMC200-6 and FMC200-8.

Two 400 mm inlets are assembled in one with a T-pipe.

Dia. 630: only available with backpack. See separate datasheet.

Outlet options

Dia. 160, 250, 315, 400, 500, 560 and 630 mm.

Dia. 500: also available on top.

Dia. 560 and 630: high capacity clean air duct is necessary.

Rectangular flange possible.

Inlet and outlet connection

QF, Spiro or flange.

Access door

A lift off bolted door is supplied as standard. Hinged door can be delivered as an option.

Specifications	Standard, bin version	Standard, flange version
Filter cartridge material	CA100	CA100
Filter housing	Galvanised steel (2 mm)	Galvanised steel (2 mm)
Fan type FM incl. motor, 50 Hz	3 to 18,5 kW; 3 x 400V	3 to 18,5 kW; 3 x 400V
Compressed-air system	6 bar, 24V DC; 1" pipe thread # Average normal consumption - see table at data sheet for actual filter size	6 bar, 24V DC; 1" pipe thread # Average normal consumption - see table at data sheet for actual filter size
Electrical controller	DFC-08M, 230/110V AC supply voltage	DFC-08M, 230/110V AC supply voltage
Water separator/press regulator	Option	Option
Dust discharge	Waste bin	300 x 300 mm flange
Waste bin	50 litres	Option
Leg extension	Option	Option
Fan, position and outlet *	R1 or M, RD270	R1 or M, RD270
Max. vacuum	6000 Pa	6000 Pa
Max. overpressure	1500 Pa	1500 Pa
Temperature	-20°C to +70°C	-20°C to +70°C

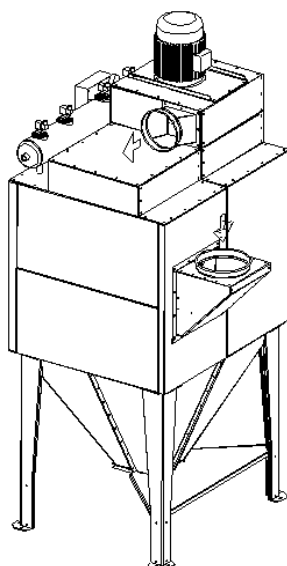
* Inlet and outlet positions – see the next pages.

Down time cleaning at 6 second interval time requires 22 Nm³/h compressor capacity.

Accessories

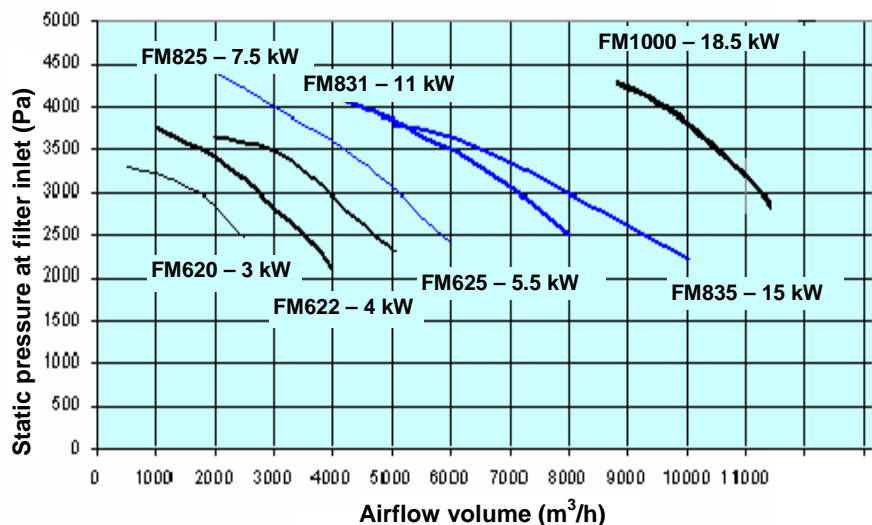
- Top mounted FM fans 50 Hz or 60 Hz up to 14,000 m³/h
- Rotary valve NRS3
- Hinge De-luxe door.
- Access platform and ladder for maintenance purposes
- DUAL Silencer
- Noise enclosure to reduce fan and motor break-out-noise
- Damper NFUS3
- Regulation damper in the fan inlet
- Compressed air filter and pressure regulator
- Backpack single or double
- Supplementary protection of filter cartridges against abrasive dusts
- Fan motor starter / frequency converter
- Leg extension from 0 to 2,000 mm
- Clean air ducts in different heights – enables filter groups
- Outlet(s) dia. 500 mm upward optional
- Noise enclosures of pressure vessels incl. valves
- Bin-balancing for plastic bag in bin
- QF-duct systems
- Remote mounted COMBIFAB fans for special air volumes or pressures

FMC200-4L in standard configuration with flange



FM Fan, 50 Hz.

Pressure available for external duct system and DP across the filter elements.

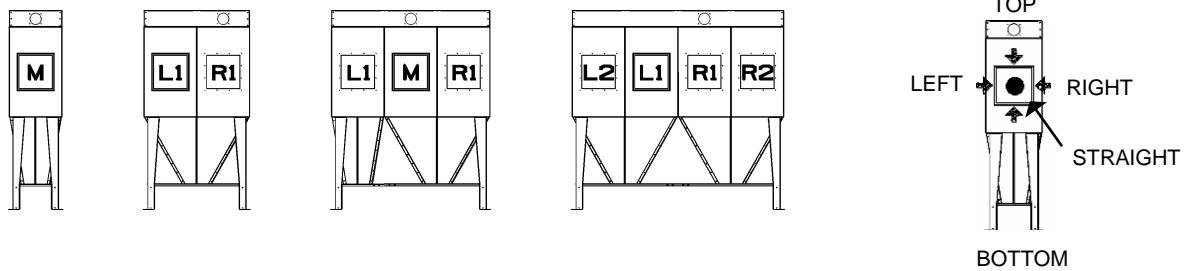


Inlet and outlet positions for FMC200 type L (seen from the back of the filter).

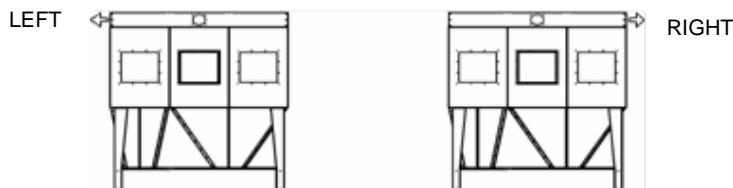
Type	Inlet position	Inlet direction	Fan position	Fan outlet	Outlet without fan
FMC200-2L	M	Top Right Left Bottom Straight	M	RD270 RD180 RD90	Right Left
FMC200-4L	L1 R1	Top Right Left Bottom Straight	R1 L1	RD270 RD180 RD90	Right Left
FMC200-6L	M L1 R1	Top Right Left Bottom Straight	M R1 L1	RD270 RD180 RD90	Right Left
FMC200-8L	L1 R1 L2 R2	Top Right Left Bottom Straight	R1 L1 R2 L2	RD270 RD180 RD90	Right Left

The options marked bold are standard for FMC200 type L.

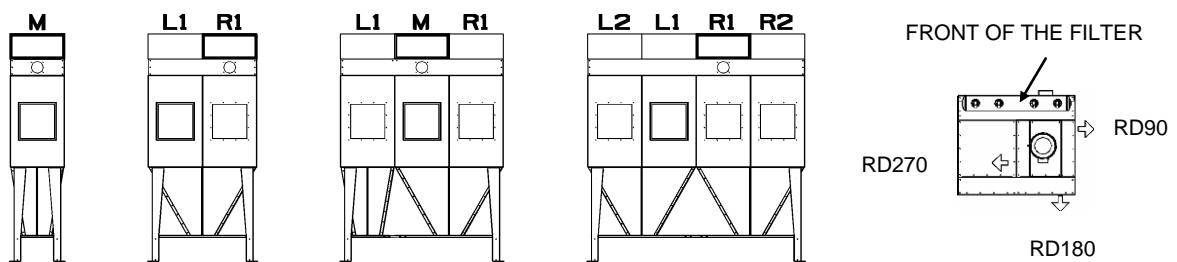
Inlet:



Outlet without fan:



Fan:



Inlet and outlet positions for FMC200 type A (seen from the back of the filter).

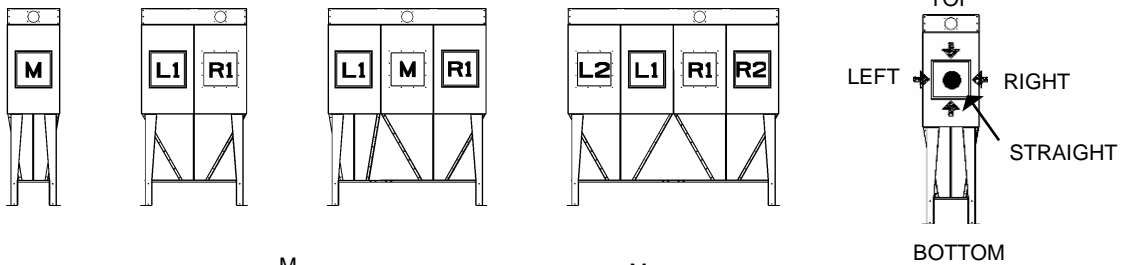
Type	Inlet position	Inlet direction	Fan position	Fan outlet	Outlet without fan
FMC200-2A	M	Top Right Left Bottom Straight	M	RD270 RD180 RD90	Right Left
FMC200-4A	L1 R1	Top Right Left Bottom Straight	R1 L1	RD270 RD180 RD90	Right Left
FMC200-6A	M L1 (max. dia. 400) R1 (max. dia. 400)	Top Right (max. dia. 400) Left (max. dia. 400) Bottom Straight	M R1 L1 L1 – R1 (2 fans)*	RD270 RD180 RD90	M (500 only) Right Left
FMC200-8A	L1 R1 L2 (max. dia. 400) R2 (max. dia. 400)	Top Right (max. dia. 400) Left (max. dia. 400) Bottom Straight	R1 L1 R2 L2 L2 - R1 (2 fans)* L1 - R2 (2 fans)*	RD270 RD180 RD90	R1 (500 only) Right Left L1 (500 only) R1 - L1 (2 x 500 only)*

The options marked bold are standard for FMC200 type A.

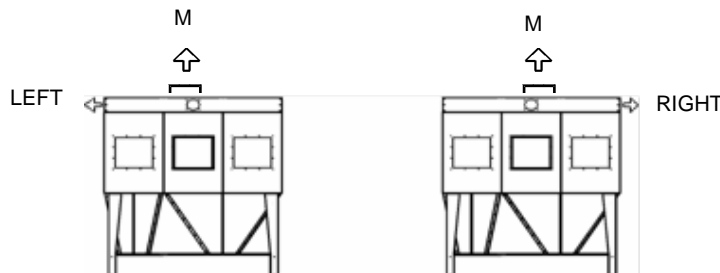
* Special option.

For dia. 500 at FMC200-6A and FMC200-8A a T-pipe for two inlets are used. Two fans are optional mounted on these filters.

Inlet:



Outlet without fan:



Fan:

