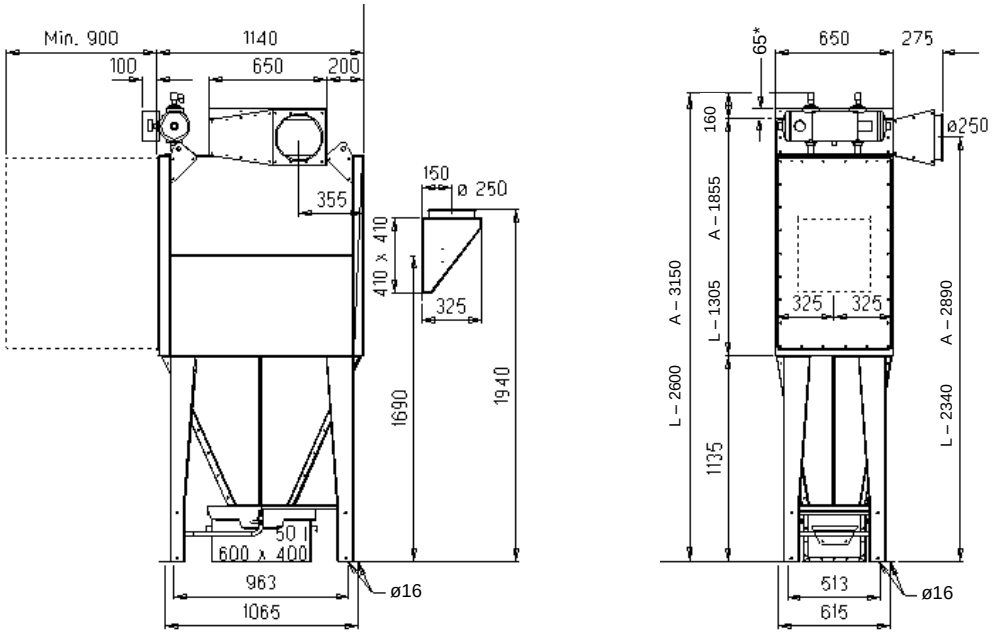
Technical leaflet 150090 6	Date 2011-12-19

FMC(Z)200 Cartridge Filter

FMC200-2L and 2A with bin for discharge



All dimensions in mm.
If 50 liter bin with rollers, add 90 mm.
* 65 mm to be included at top mounted fan.

Filter material

Filter cartridge materials for most applications are available, dependent on dust type, dust load and efficiency requirements. The cartridges are designed according to the latest research and are patented.
The cartridges are produced from materials that can be incinerated.

Inlet options

Dia. 160, 250, 315 or 400 mm.

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.

Access door

Hinged door is optional for FMC200 type L.

Bin

Bin 50 or 100 litres.
See separate data sheet.

Specifications	Standard
Filter housing	Galvanised steel, 2 mm
Filter cartridge material	CA100 (polyester)
Air inlet, diameter	250 mm (type 2L); 315 mm (type 2A)
Door	Bolted door (lift off type)
Cleaning of cartridges	Clean, dry compressed air, 6 bar, 24V DC Connection: 1" pipe thread Average normal consumption: FMC200-2L: < 3,2 Nm^3/h FMC200-2A: < 5,3 Nm^3/h Down time cleaning: 0,4 Nm^3 #
Controller	DFC-08M (voltage supply 230V / 110V)
Max. vacuum	6000 Pa
Max. overpressure	1500 Pa (3000 Pa at FMCZ)
Temperature	-20°C to +70°C

Down time cleaning at 6 second interval time requires 22 Nm^3/h compressor capacity.

Type	FMC200-2L		FMC200-2A	
	Polyester	Cellulose	Polyester	Cellulose
Max. air volume* (m^3/h)	3,200	3,200	5,300	5,300
Filter area (m^2)	32	72	53	116
Weight (kg), incl. 50 l bin, excl. fan	239	239	287	287

* Max. air volume is dependent on the actual dust type

Accessories

Fan, top mounted	0 to 5,300 m^3/h
Filter materials	3 other media also available
Platform / ladder	Galvanised steel, 900 x 1000 mm platform and access ladder for maintenance purposes
Noise enclosure	Galvanised steel
QF duct system	100 to 500 mm

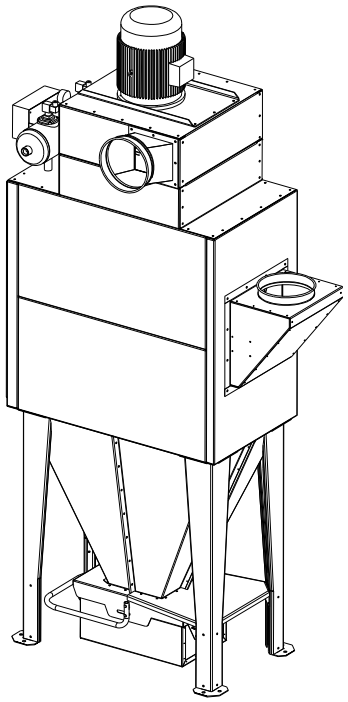
Fan

A range of fans for installation next to the filter is also available, for special pressure or airflow requirements.

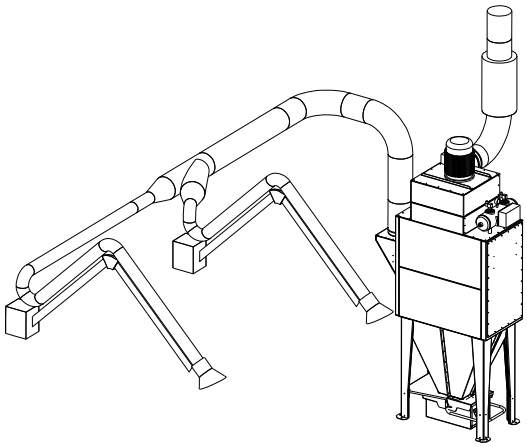
Controller

The built-in controller has indicators for power on, cleaning, stop and after-cleaning.
The controller's standard setting is for cleaning on demand when the differential pressure exceeds a pre-set value. This means that the compressed air consumption may be reduced to below 0,1 % of the total airflow. The controller also has indicators for filter pressure loss and for a high-pressure alarm.

Standard inlet and outlet position:



Example of possible installation of FMC200-2L with QF duct connection and cellulose cartridges:



Installation for extraction of welding fume.

Capacity: 2,000 m^3/h – Filterload : 28 $m^3/m^2/h$
Recom. velocity of the air in the extraction pipes: 20 m/s

Necessary equipment for this installation:

FMC200-2L
Fan type: FM 620, standard motor 3 kW
Inlet diameter and position: ø 250 mm, from top
Controller: DFC-08M
Outlet diameter and position: ø 250 mm, RD 270
QF duct system: ø 125 mm to ø 250 mm
In-line air silencer ø 250 mm
Intermediate pressure arms ø 125 mm