



Minipleat Compact Cassette

secure separation at high strain

description

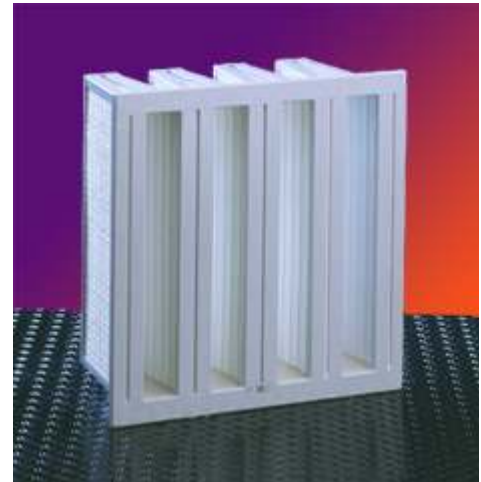
EMW Compact Cassettes have a maximum of surface area in little space and therefore a long lifetime under economical operating conditions. By means of the well proven minipleat technology with hot melt fixing of the pleats, an optimal use of the surface area and a maximum stability at the same time can be ensured. High quality, wet layed glass fibre is used for this filter media.

characteristics

- filter classes F6 – H14 according to DIN EN 779/ DIN EN 1822
- absolute stability at 100% relative humidity
- max. operating temperature up to 80 °C
- leakage free casting of the filter media inside frame
- endless foamed sealing
- polystyrene housing, fully incinerable, no corrosion
- optional VK-KW system: combination of Compact Cassette and prefilter in one filter wall
- optional attachment [AEROMASK](#): further reduction of differential pressure
- also available: holding frames for filter wall

fields of application

- gas turbines
- compressors
- air handling units
- laboratories
- polishing filter as part of dust collectors
- processing air in the chemical industry
- processing air in the pharmaceutical industry
- air conditioning units for production halls
- individual offtake for work benches



Standards

dimensions:

- 592 x 592 x 400 mm
- 592 x 592 x 296 mm
- 490 x 592 x 296 mm
- 287 x 592 x 296 mm

special sizes

dimensions:

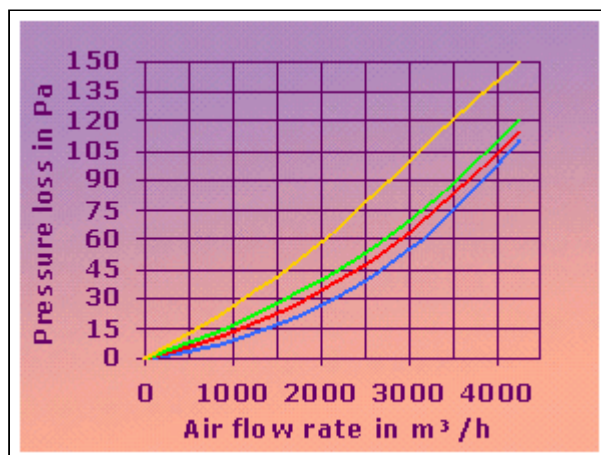
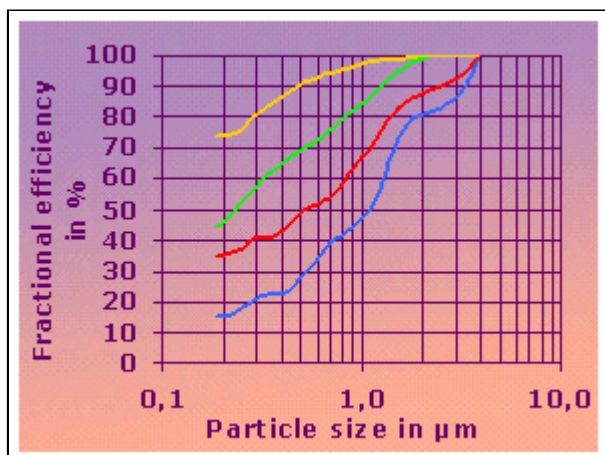
- 596 x 596 x 296 mm
- 602 x 606 x 296 mm
- 610 x 610 x 400 mm
- 647 x 581 x 385 mm
- 647 x 581 x 324 mm
- etc.



Minipleat Compact Cassette technical data

filter data MPK4-20 in F6 - F9 according to DIN EN 779

Cassette type	MPK46-20	MPK47-20	MPK48-20	MPK49-20
filter class	F6	F7	F8	F9
Nvoluminar air flow [m ³ /h]	4250	4250	4250	4250
median grav. collection efficiency [%]	> 95	> 98	> 99	> 99
median efficiency [%]	> 60	> 80	> 90	> 95
initial pressure differential [Pa], 4250 m ³ /h	105	115	125	150
initial pressure differential [Pa], 3400 m ³ /h	70	80	85	115
dust holding capacity [g] at 450 Pa, 4250 m ³ /h	600	560	450	330
dust holding capacity [g] bei 450 Pa, 3400 m ³ /h	800	750	650	450



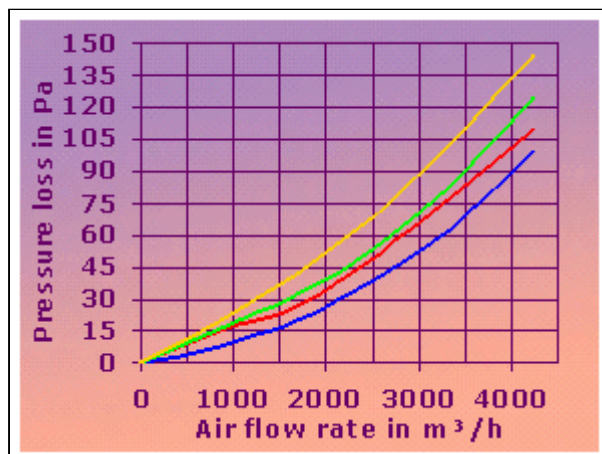
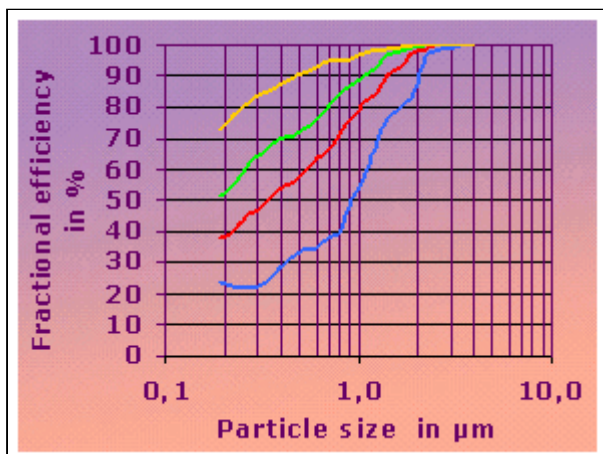
*Dust holding capacity was measured according to DIN EN 779 until a final differential pressure of 450 Pa. In case higher final pressures at economical operation are acceptable, dust holding capacity increases correspondingly.

**All given test data are measured according to DIN EN 1822. Those data are only suitable for comparison of various types and brands, which were tested according to the same norm. Tests according to other test norms may apparently give better values. Comparative values according to other norms you will receive on request.



filter data MPK4-31 in F6 - F9 according to DIN EN 779

Cassette type	MPK46-31	MPK47-31	MPK48-31	MPK49-31
filter class	F6	F7	F8	F9
voluminar air flow [m ³ /h]	4250	4250	4250	4250
median grav. collection efficiency [%]	> 95	> 98	> 99	> 99
median efficiency [%] 0,4 µm	> 60	> 80	> 90	> 95
initial pressure differential [Pa], 4250 m ³ /h	100	110	125	145
initial pressure differential [Pa], 3400m ³ /h	65	80	85	105
dust holding capacity [g] at 450 Pa, 4250m ³ /h	900	850	800	650
dust holding capacity [g] at 450 Pa, 3400m ³ /h	1200	1100	1000	750



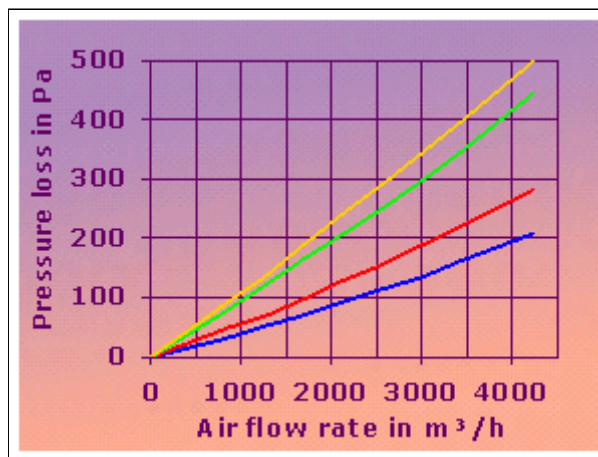
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filter data MPK4-20 in H10 - H13 according to DIN EN 1822

Cassette type	MPK410-20	MPK411-20	MPK412-20	MPK413-20
filter class	H10	H11	H12	H13
voluminar air flow [m ³ /h]	3400	3400	3400	3400
efficiency at MPPS [%]	85,85	96,13	99,79	99,96
initial pressure differential [Pa]	160	210	345	395



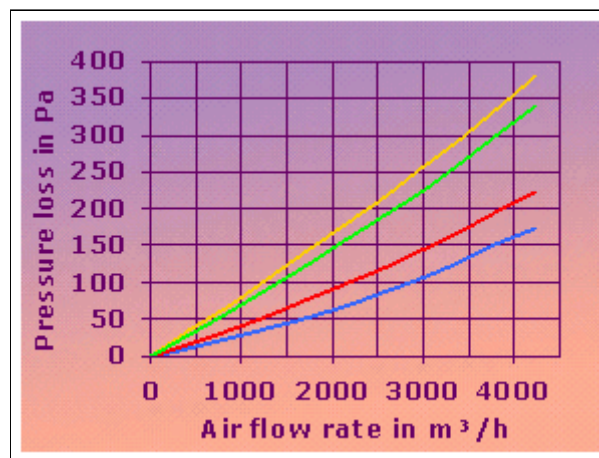
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filter data MPK4-31 in H10 - H13 according to DIN EN 1822

Cassette type	MPK410-31	MPK411-31	MPK412-31	MPK413-31
filter class	H10	H11	H12	H13
voluminar air flow [m ³ /h]	3400	3400	3400	3400
efficiency at MPPS [%]	86,15	96,65	99,88	99,97
initial pressure differential [Pa]	126	170	261	297



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