



Minipleat Compact Cassette GT with additional pleat reinforcement for secure separation under extreme strain

description

Also the EMW Compact Cassettes GT for gas turbine application 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 economical use of the surface area and a maximum stability at the same time can be ensured. For this filter media high quality wet layered glass fibre is used.

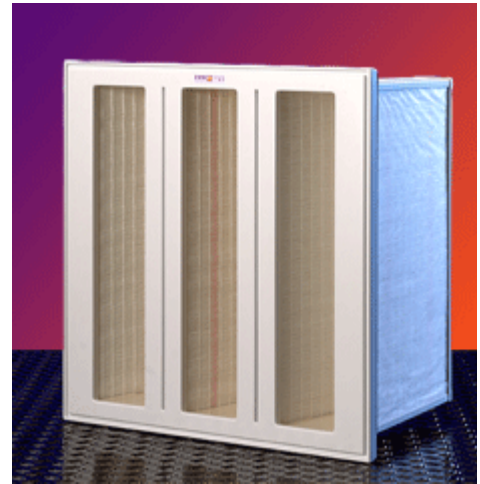
To offer the operator the best possible security under extreme strain, the EMW Compact Cassette GT is equipped with a fully synthetical fleece on the clean air side. This ensures a mechanical durability of the EMW Compact Cassette GT even up to a burst pressure differential of 5000 Pa and more.

characteristics

- filter classes F6 - H14 according to DIN EN 779 / DIN EN1822
- absolute stability at 100% relative humidity
- maximum operating temperature up to 80 °C
- additional pleat reinforcement for extreme strain
- leakage free casting of the filter media inside frame
- endless foamed sealing
- polystyrene housing, fully incinerable, no corrosion
- exceptionally light construction
- optional VK-KW system: combination of Compact Cassette GT 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



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

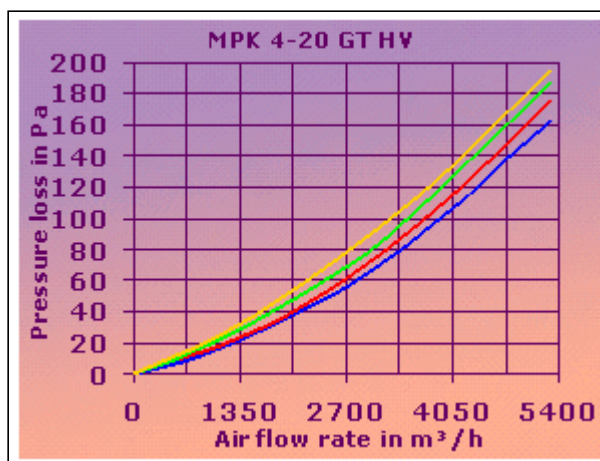
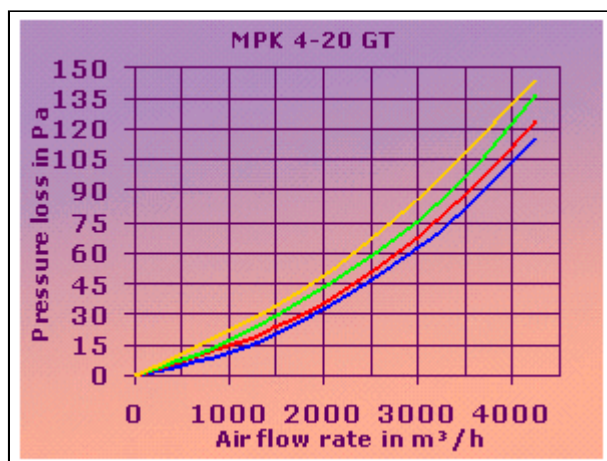


Minipleat Compact Cassette GT technical data

MPK4-20 GT and MPK4-20 GT HV in F6 - F9 according to DIN EN 779

Cassette type	MPK46-20 GT	MPK47-20 GT	MPK48-20 GT	MPK49-20 GT
filter class	F6	F7	F8	F9
voluminar air flow [m ³ /h]	3400	3400	3400	3400
median grav. collection efficiency [%]	> 95	> 98	> 99	> 99
median efficiency [%]	> 60	> 80	> 90	> 95
initial pressure differential [Pa], 3400 m ³ /h	77	89	94	104
dust holding capacity [g] at 450Pa, 3400 m ³ /h	650	500	460	420

Cassette type	MPK46-20 GT HV	MPK47-20 GT HV	MPK48-20 GT HV	MPK49-20 GT HV
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 [%]	> 60	> 80	> 90	> 95
initial pressure differential [Pa], 4250 m ³ /h	115	126	141	143
dust holding capacity [g] at 450Pa, 4250 m ³ /h	540	460	410	380



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

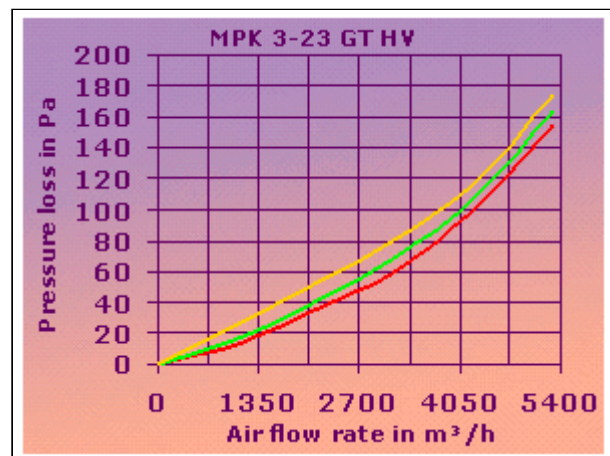
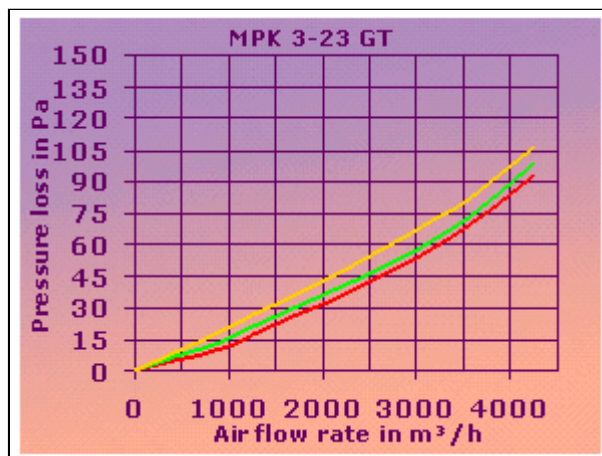
**All given figures underlie test data according to DIN EN 779 or DIN EN 1822. They are mean values subject to tolerances due to the normal production fluctuations. The figures are only suitable for comparison of various types and brands, which were tested according to the same standard. Tests according to other test standards may apparently give better values. On request comparative values according to other standards are available.



MPK3-23 GT and MPK3-23 GT HV in F7 - F9 according to DIN EN 779

Cassette type	MPK37-23 GT	MPK38-23 GT	MPK39-23 GT
filter class	F7	F8	F9
voluminar air flow [m ³ /h]	3400	3400	3400
median grav. collection efficiency [%]	> 98	> 99	> 99
median efficiency [%]	> 80	> 90	> 95
initial pressure differential [Pa], 3400 m ³ /h	64	68	77
dust holding capacity [g] at 450Pa, 3400 m ³ /h	630	590	560

Cassette type	MPK37-23 GT HV	MPK38-23 GT HV	MPK39-23 GT HV
filter class	F7	F8	F9
voluminar air flow [m ³ /h]	4250	4250	4250
median grav. collection efficiency [%]	> 98	> 99	> 99
median efficiency [%]	> 80	> 90	> 95
initial pressure differential [Pa], 4250 m ³ /h	101	107	117
dust holding capacity [g] at 450Pa, 4250 m ³ /h	500	470	420



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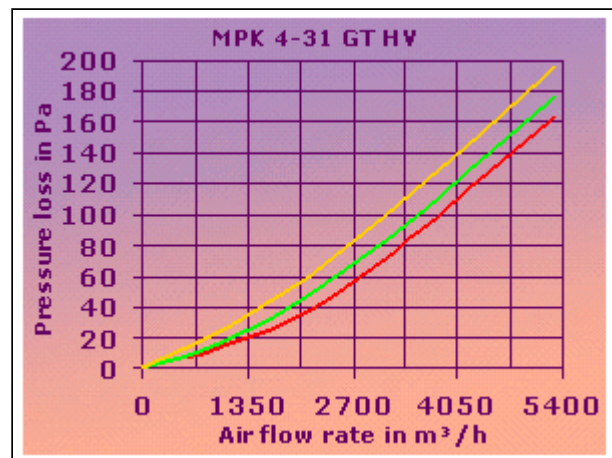
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MPK4-31 GT and MPK4-31 GT HV in F7 - F9 according to DIN EN 779

Cassette type	MPK47-31 GT	MPK48-31 GT	MPK49-31 GT
filter class	F7	F8	F9
voluminar air flow [m ³ /h]	3400	3400	3400
median grav. collection efficiency [%]	> 98	> 99	> 99
median efficiency [%]	> 80	> 90	> 95
initial pressure differential [Pa], 3400 m ³ /h	87	104	110
dust holding capacity [g] at 450Pa, 3400 m ³ /h	950	860	850

Cassette type	MPK47-31 GT HV	MPK48-31 GT HV	MPK49-31 GT HV
filter class	F7	F8	F9
voluminar air flow [m ³ /h]	4250	4250	4250
median grav. collection efficiency [%]	> 98	> 99	> 99
median efficiency [%]	> 80	> 90	> 95
initial pressure differential [Pa], 4250 m ³ /h	119	147	152
dust holding capacity [g] at 450Pa, 4250 m ³ /h	790	660	640



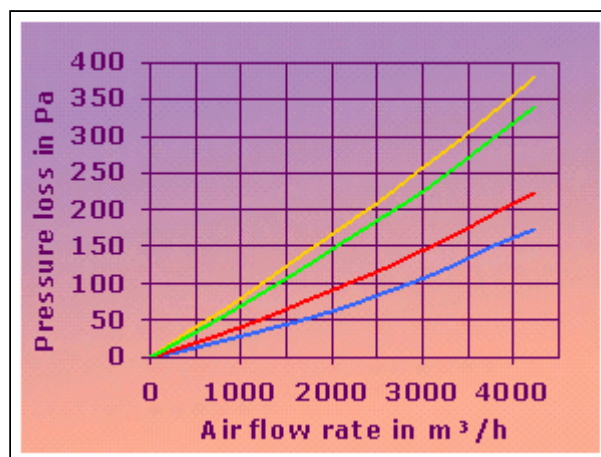
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MPK4-31 GT in H10 - H13 according to DIN EN 1822

Cassette type	MPK410-31 GT	MPK411-31 GT	MPK412-31 GT	MPK413-31 GT
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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