

## Coarse, Medium and Fine Filters

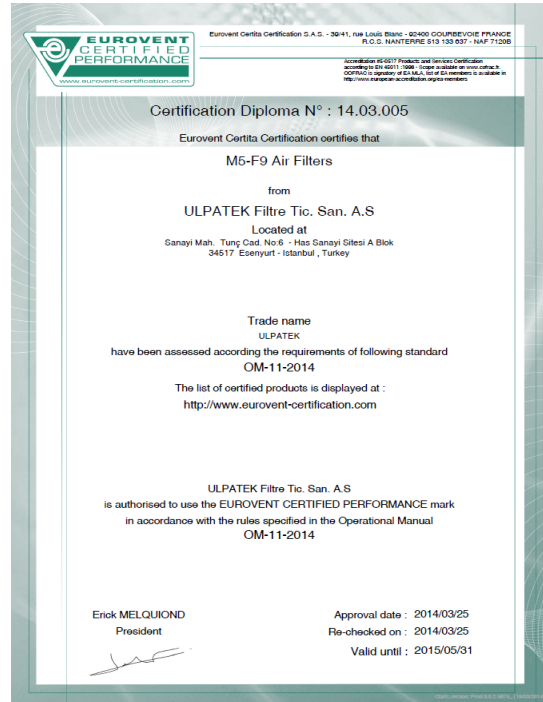
### Classification Standard EN779:2012

The EN 779:2002 classification system (comprising groups F and G filters) has been changed to three groups (F-,M- and G-filters).

Filters found to have an average efficiency value of less than 40 % of 0,4 µm particles will be allocated to group G and the efficiency reported as “< 40 %”. The classification of G filters (G1 - G4) is based on their average arrestance with the loading dust.

Filters found to have an average efficiency value from 40 % to less than 80 % of 0,4 µm particles will be allocated to group M (M5, M6) and the classification is based on their average efficiency (0,4 µm). The filter classes F5 and F6 have changed to M5 and M6, but with same requirements, as in the old classification system.

Filters found to have an average efficiency of 80 % or more of 0,4 µm particles will be allocated to group F (F7-F9) and the classification is based on their average efficiency (0,4 µm) as in the old system and the minimum efficiency during the test.



### EN779:2012 Classification

Filter Group	Class	Final pressure drop (Pa)	Average Arrestance ( $A_m$ ) of synthetic dust (%)	Average Efficiency ( $E_m$ ) of 0,4 µm particles (%)	Minimum Efficiency of 0,4 µm particles (%)
Coarse	G1	250	$50 \leq A_m < 65$	-	-
	G2	250	$65 \leq A_m < 80$	-	-
	G3	250	$80 \leq A_m < 90$	-	-
	G4	250	$90 \leq A_m$	-	-
Medium	M5	450	-	$40 \leq E_m < 60$	-
	M6	450	-	$60 \leq E_m < 80$	-
Fine	F7	450	-	$80 \leq E_m < 90$	35
	F8	450	-	$90 \leq E_m < 95$	55
	F9	450	-	$95 \leq E_m$	70

European Association of Air Handling and Refrigerating Equipment Manufacturers, Eurovent's certification tells our clients that Ulpatek fine filters are tested by independent research laboratory and that Ulpatek's published product information must be accurate. Ulpatek has also ISO 9001 to ensure quality operations since the day production started.



### Initial Efficiency vs. Particle Size

Filter Group	Class	0,1 µm	0,3 µm	0,5 µm	1,0 µm	3,0 µm	5,0 µm	10,0 µm
Coarse	G1	-	-	-	-	0 - 5	5 - 15	40 - 50
	G2	-	-	-	0 - 5	5 - 15	15 - 35	50 - 70
	G3	-	-	0 - 5	5 - 15	15 - 35	35 - 70	70 - 85
	G4	-	0 - 5	5 - 15	15 - 35	30 - 55	60 - 90	85 - 98
Medium	M5	0 - 10	5 - 15	15 - 30	30 - 50	70 - 90	90 - 99	>98
	M6	5 - 15	10 - 25	20 - 40	50 - 65	85 - 95	95 - 99	>99
Fine	F7	25 - 35	45 - 60	60 - 75	85 - 95	>98	>99	>99
	F8	35 - 45	65 - 75	80 - 90	95 - 98	>99	>99	>99
	F9	45 - 60	75 - 85	90 - 95	>99	>99	>99	>99



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