

Vokes Air AB
512 85 SVENLJUNGA

Energy classification according to Eurovent 4/11

(1 appendix)

A calculation according to Eurovent 4/11 was carried out by request from Vokes Air AB

Item

Vokes Air AB, Revo II M6 592x592x635 5P 25H, PP Plastic + Gsk,
art no: 3550630464, 592 mm x 592 mm x 635 mm, 5 pocket air filter.

The item was handed to SP by Vokes Air AB on December 13, 2013.

The item was without visible defects.

Method

The calculation was carried out according to Eurovent document: Eurovent 4/11 – Energy efficiency classification of air filters for general ventilation purposes, First edition – 2011.

The data used for the energy calculation is from a test according to EN779:2012 which is reported in PX27501F, dated 2013-01-17.

Results

Table 1.

Energy efficiency class	A
Annual energy consumption	793 kWh

Complete test results are found in appendix 1. The results are only valid for the tested item.

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Table 2.

Filter class	G4		M5		M6		F7		F8		F9							
MTE	-		-		-		≥ 35 %		≥ 55%		≥ 70%							
M_x	M _g = 350 g		M _m = 250 g				M _f = 100 g											
A	0	-	600	0	-	650	0	-	800	0	-	1200	0	-	1600	0	-	2000
B	600	-	700	650	-	780	800	-	950	1200	-	1450	1600	-	1950	2000	-	2500
C	700	-	800	780	-	910	950	-	1100	1450	-	1700	1950	-	2300	2500	-	3000
D	800	-	900	910	-	1040	1100	-	1250	1700	-	1950	2300	-	2650	3000	-	3500
E	900	-	1000	1040	-	1170	1250	-	1400	1950	-	2200	2650	-	3000	3500	-	4000
F	1000	-	1100	1170	-	1300	1400	-	1550	2200	-	2450	3000	-	3350	4000	-	4500
G	> 1000		> 1300		> 1550		> 2450		> 3350		> 4500							

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Performed by

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Appendix
1. Results

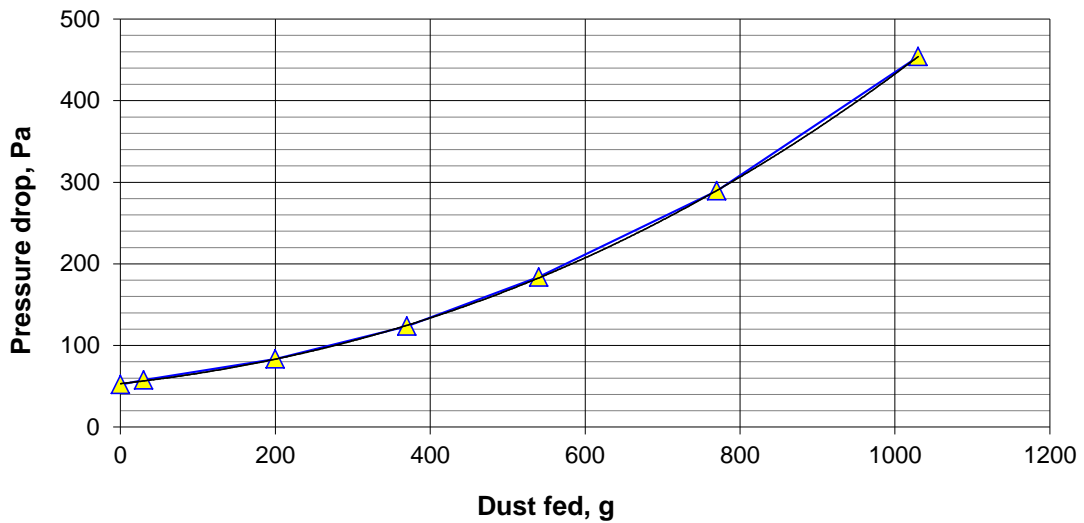
Appendix 1

EUROVENT 4/11

Energy efficiency classification of air filters for general ventilation purposes

Air filter:	Revo II M6 592x592x635mm 5P 25H, PP Plastic + Gsk, art no: 3550630464
Group of filter:	M6

$$y = -1.50E-11x^4 + 7.63E-08x^3 + 2.14E-04x^2 + 1.05E-01x + 5.32E+01$$



Δp_i	52	Pa
a	-1.50E-11	Pa/g ⁴
b	7.63E-08	Pa/g ³
c	2.14E-04	Pa/g ²
d	1.05E-01	Pa/g
M_x	250	g

Average ΔP	70.0	Pa
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Energy, W	793.4	kWh
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Energy class	A
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