



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 F9 592x592x635mm 8P 25H, PP Plastic + Gsk, art no: 3550905140, 592 mm x 592 mm x 635 mm, 8 pocket air filter.

The item was handed to SP by Vokes Air AB on December 18, 2012.

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 PX27501E, dated 2013-01-18.

### Results

**Table 1.**

<b>Energy efficiency class</b>	A
<b>Annual energy consumption</b>	1888 kWh

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

**Table 2.**

Filter class	G4		M5		M6		F7		F8		F9							
MTE	-		-		-		≥ 35 %		≥ 55%		≥ 70%							
M <sub>x</sub>	M <sub>g</sub> = 350 g		M <sub>m</sub> = 250 g				M <sub>f</sub> = 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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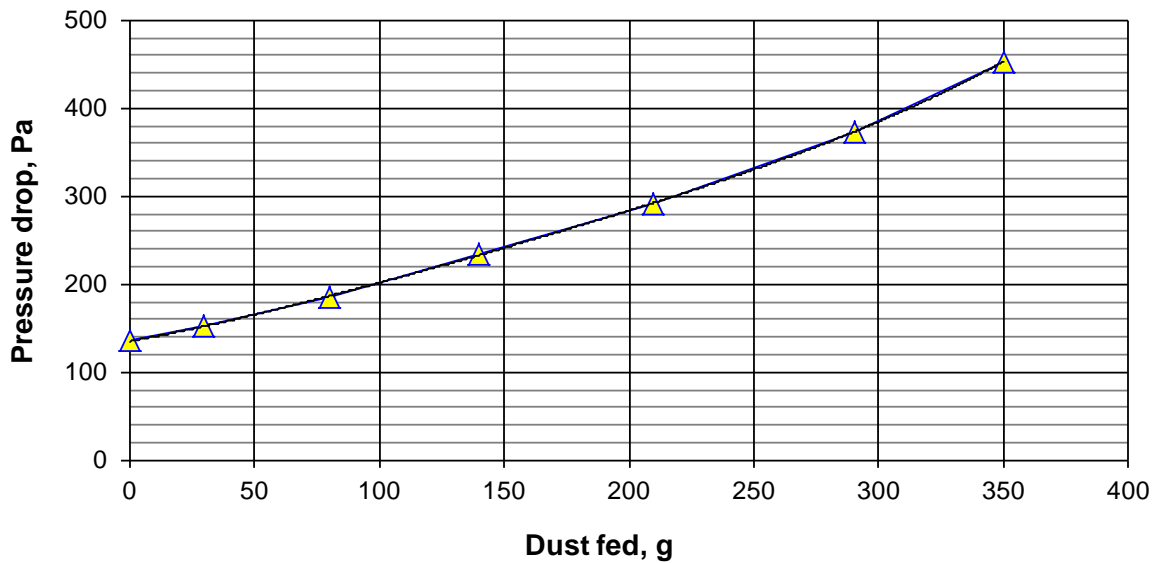
**Appendix  
1. Results**

Appendix 1

**EUROVENT 4/11**  
**Energy efficiency classification of air filters for general ventilation purposes**

<b>Air filter:</b>	Revo II F9 592x592x635mm 8P 25H, PP Plastic + Gsk, art no: 3550905140
<b>Group of filter:</b>	F9

$$y = 1.40E-08x^4 - 7.78E-06x^3 + 2.12E-03x^2 + 5.17E-01x + 1.35E+02$$



$\Delta p_i$	135	Pa
<b>a</b>	1.21E-08	Pa/g <sup>4</sup>
<b>b</b>	-6.75E-06	Pa/g <sup>3</sup>
<b>c</b>	1.96E-03	Pa/g <sup>2</sup>
<b>d</b>	5.25E-01	Pa/g
<b>M<sub>x</sub></b>	100	g

<b>Average <math>\Delta P</math></b>	166.6	Pa
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<b>Energy, W</b>	1888.1	kWh
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<b>Energy class</b>	A
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