



REPORT

Contact person
Christian Mossberg
Energy Technology
+46 10 516 59 13
Christian.Mossberg@sp.se

Date
2012-01-13

Reference
PX20076F

Page
1 (2)

Interfil A/S
Bismo Industripark
NO-2690 SKJÅK
Norge

Energy classification according to Eurovent 4/11

(1 appendix)

A calculation according to Eurovent 4/11 was carried out by request from Interfil A/S.

Item

Interfil A/S, LM 12-85, F7, 592 mm x 592 mm x 635 mm, 12 pocket air filter.

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 EN779:2002 performed by VTT Expert Services Ltd, Finland which is reported in *VTT-S-10404-10*, dated 2010-12-21.

Results

A summary of the test results are presented in table 1. Table 2 show the energy efficiency class limits.

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

Table 1.

Energy consumption	1034 kWh
Energy class	A

SP Technical Research Institute of Sweden

Postal address
SP
Box 857
SE-501 15 BORÅS
Sweden

Office location
Västeråsen
Brinellgatan 4
SE-504 62 BORÅS

Phone / Fax / E-mail
+46 10 516 50 00
+46 33 13 55 02
info@sp.se

This document may not be reproduced other than in full, except with the prior written approval of SP.

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		

SP Technical Research Institute of Sweden
Energy Technology - Combustion and Aerosol Technology

Performed by

Examined by

Christian Mossberg

Marie Rönnbäck

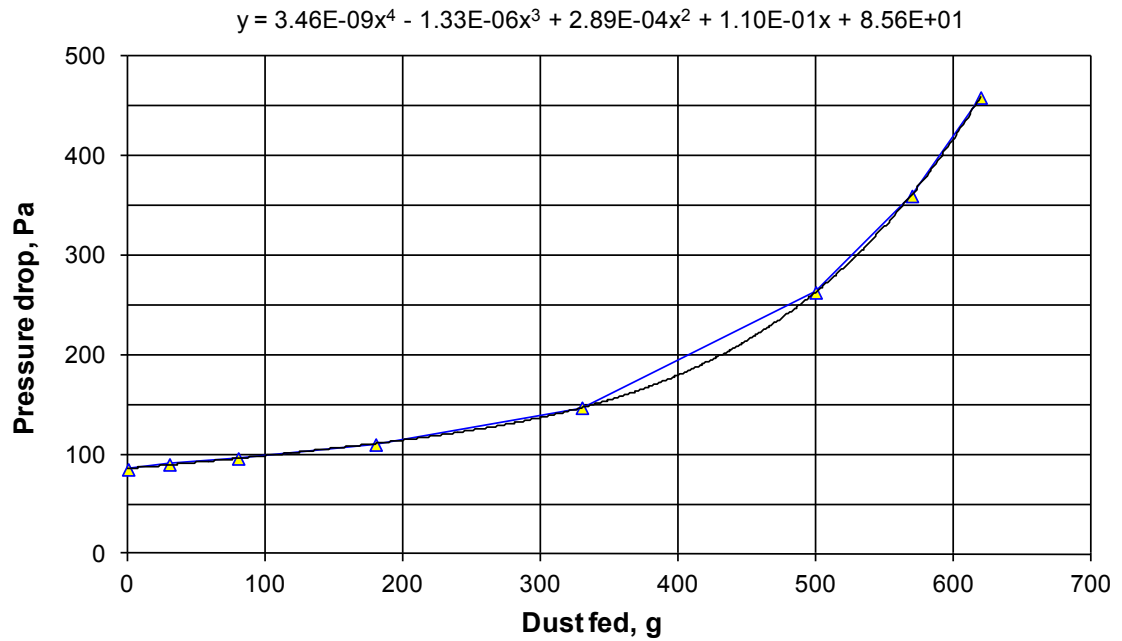
Appendix
1. Results

Appendix 1

EUROVENT 4/11

Energy efficiency classification of air filters for general ventilation purposes

Air filter:	LM 12-85
Group of filter:	F7



Δp_i	85	Pa
a	3.46E-09	Pa/g ⁴
b	-1.33E-06	Pa/g ³
c	2.89E-04	Pa/g ²
d	1.10E-01	Pa/g
M_x	100	g

Average ΔP	91.2	Pa
--------------------------------------	------	----

Energy, W	1033.7	kWh
------------------	--------	-----

Energy class	A
---------------------	----------