

Appendix 7

Energy efficiency evaluation of air filters for general ventilation purposes			Testing Organization: RISE Research Institutes of Sweden AB Brinellgatan 4, 501 15 Borås, Sweden +460105165000		
Test ID:	SP201701131	Date of test:	2017-01-19	Operator:	UH
DEVICE TESTED					
Model: 592x592x635 F7/10 T-G		Manufacturer: Scandcenter AB		Construction: Pocket filter	
Article number: 7106001TG	Type of medium: Glass	Net effective filtering area: 8.0 m ²		Filter dimensions (width x height x depth) 592 x 592 x 635 mm	
TEST DATA DETAILS					
i	m_i	Δp_i			
	g	Pa			
0	0.0	85.6			
1	30.0	87.6			
2	70.0	89.7			
3	110.0	91.7			
4	150.0	93.1			
5	190.0	94.7			
6	230.0	96.7		i, number of the dust loading step	
7	270.0	98.6		m _i , total amount of dust fed to the air filter after the dust loading step i	
8	310.0	100.1		Δp _i , pressure drop of the air filter after dust loading step i	
Δp ₀	85.6	Pa			
a	-2.29E-09	Pa/g ⁴			
b	1.65E-06	Pa/g ³			
c	-4.01E-04	Pa/g ²			
d	8.11E-02	Pa/g			
M _x	200	g			
RESULTS					
ISO group	PM1	Δp _a , Average pressure drop	90.9 Pa		
Amount of dust fed, M _x	200 g	Yearly energy consumption	1030.4 kWh		
NOTE: The results of this test relate only to the test device in the condition stated herein. The performance results cannot by themselves be quantitatively applied to predict filtration performance in all "real life" environments.					