

Appendix 7

Eurovent 4/21 - 2019 Energy efficiency evaluation of air filters for general ventilation purposes			Testing Organization: Research Institutes of Sweden AB Brinellgatan 4, 501 15 Borås, Sweden +460105165000	
Test ID: SP202110134	Date of test: 2021-10-25		Operator: Ter / GB	
DEVICE TESTED				
Model: 592x592x635/10 T-G ePM10		Manufacturer: Scandcenter AB		Construction: Pocket filter, 10 Pockets
Article number: 5106001TG	Type of medium: Glass	Net effective filtering area: 7.9 m <sup>2</sup>	Filter dimensions (width x height x depth) 592 mm x 592 mm x 635 mm	
TEST DATA DETAILS				
i	m <sub>i</sub>	Δp <sub>i</sub>	Δp <sub>i,a</sub>	Δm <sub>i</sub>
	<b>g</b>	<b>Pa</b>	<b>Pa</b>	<b>g</b>
0	0	40.5		
1	30	41.0	40.8	30
2	85	41.0	41.0	55
3	140	42.1	41.5	55
4	195	43.1	42.6	55
5	250	44.1	43.6	55
6	305	46.1	45.1	55
7	360	47.6	46.9	55
8	415	50.7	49.2	55
	<b>M<sub>x</sub></b>	<b>Δp<sub>x</sub></b>	<b>Δp<sub>n,a</sub></b>	<b>Δm<sub>n</sub></b>
	<b>g</b>	<b>Pa</b>	<b>Pa</b>	<b>g</b>
	400	49.9	48.8	40
i	number of the dust loading step			
m <sub>i</sub>	total amount of dust fed to the air filter after the dust loading step <i>i</i>			
Δp <sub>i</sub>	pressure drop of the air filter after dust loading step <i>i</i>			
Δp <sub>i,a</sub>	average of the pressure drops of the air filter measured before and after the dust loading step <i>i</i>			
Δm <sub>i</sub>	dust increment fed to the air filter during loading step <i>i</i>			
n	total number of dust loading steps to feed the amount of test dust M <sub>x</sub> to the air filter (n ≥ 8)			
RESULTS				
ISO group	PM10	Δp <sub>a</sub> , Average pressure drop	43.8 Pa	
Amount of dust fed, M <sub>x</sub>	400	Yearly energy consumption, W	496 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.				