

Appendix 7

<b>Eurovent 4/21 - 2019</b> <b>Energy efficiency evaluation of air filters for general ventilation purposes</b>			<b>Testing Organization:</b> Research Institutes of Sweden AB Brinellgatan 4, 501 15 Borås, Sweden +460105165000	
Test ID: SP202106042		Date of test: 2021-06-14		Operator: HC / IS
<b>DEVICE TESTED</b>				
Model: 592x592x635/10 T-G ePM1		Manufacturer: Scandcenter AB		Construction: Pocket filter, 10 Pockets
Article number: 7106001TGE	Type of medium: Glass	Net effective filtering area: 7.9 m <sup>2</sup>		Filter dimensions (width x height x depth) 592x592x635 mm
<b>TEST DATA DETAILS</b>				
<b>i</b>	<b>m<sub>i</sub></b>	<b>Δp<sub>i</sub></b>	<b>Δp<sub>i,a</sub></b>	<b>Δm<sub>i</sub></b>
	<b>g</b>	<b>Pa</b>	<b>Pa</b>	<b>g</b>
0	0	75.3		
1	30	77.9	76.6	30
2	55	79.4	78.7	25
3	80	80.4	79.9	25
4	105	82.5	81.4	25
5	130	84.0	83.2	25
6	155	85.0	84.5	25
7	180	86.5	85.7	25
8	205	88.0	87.2	25
	<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>
	200	87.7	87.1	20
<p>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)</p>				
<b>RESULTS</b>				
ISO group	PM1	Δp <sub>a</sub> , Average pressure drop	<b>81.9 Pa</b>	
Amount of dust fed, M <sub>x</sub>	200	Yearly energy consumption, W	<b>928 kWh</b>	
<p>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.</p>				