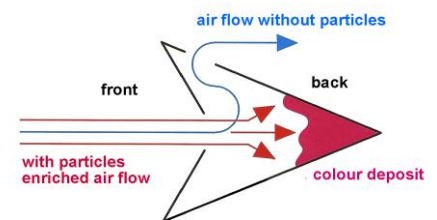


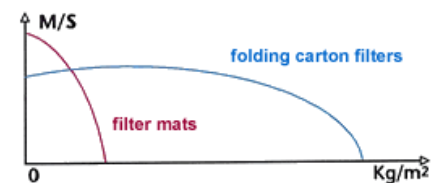
# AEREM FILTERS

## FUNCTION OF THE AEREM FILTERS

Filtering is not necessary only separation of mobile colour particles by an air flow with the help of one row from ever more finely becoming mesh seven. The AEREM FILTER functions after another principle: CENTRIFUGAL FORCE SEPARATION



During the passage by the filter the air flow enriched with colour particles is exposed to several times extreme changes of direction. The particles become, depending upon their mass, from the air flow discharged.



## ADVANTAGES OF THE CENTRIFUGAL FORCE SEPARATION

### 1. No migration

As soon as the colour particles in the settling chamber settled, they are in a "dead end" outside of the air flow. This air flow can drag it along from there neither nor to "migration" move by the filter.

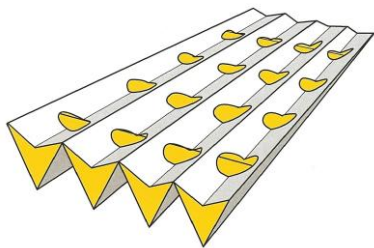
### 2. High colour storage capability

The settling chambers permit to the Aerem filter a 3 to 5 times larger filter capacity than a fleece filter. The way for the air flow remains freely although the filter with particles fills. With the fleece filter however usually develops a colour deposit at the surface, which clogs the filter fast. The filter limited into the depth not to enrich and thereby the filter storage capability.

The Aerem filter is however only then clogged if the settling chambers are completely determined with colour.

- LONGER LIFE SPAN
- LOWER COSTS
- BETTER QUALITY

# AEREM FILTERS

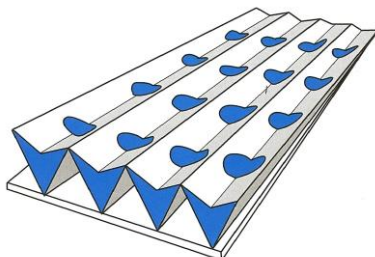
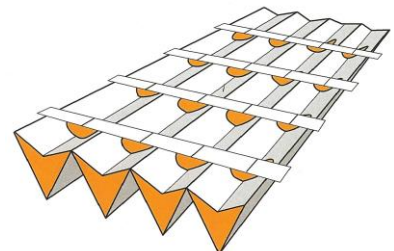


Drawing of the filter „**AEREMFILTERS**“ The Original

2 layers of punched, folded and adhesive cardboard  
“strength”, with excerpt limiter.

Drawing of the filter „**AEREMFILTERS**“ HC

Improvement of the storage capability thanks  
of the caused paper volumes.

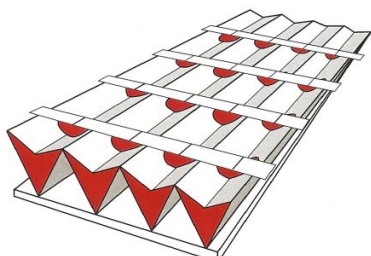
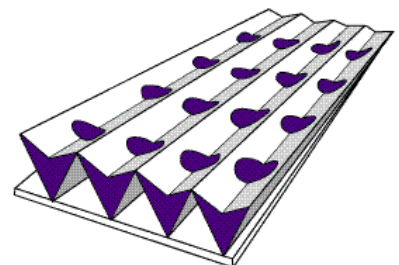


Drawing of the filter „**AEREMFILTERS**“ HE

Improvement of the degree of separation thanks of a  
caused layer polyester.

Drawing of the filter „**AEREMFILTERS**“ HH

Improvement of the degree of separation  
thanks of a layer glass fiber mats.

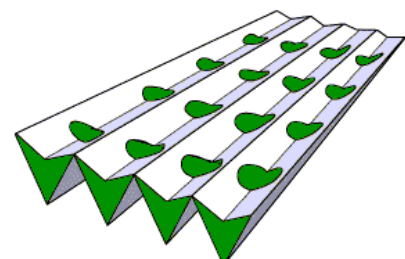


Drawing of the filter „**AEREMFILTERS**“ HP

Combination of the achievements HC and HE.

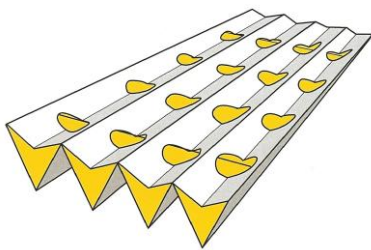
Drawing of the filter „**Starter**“

2 layers of punched, folded and adhesiv  
“strength”, with excerpt limiter.





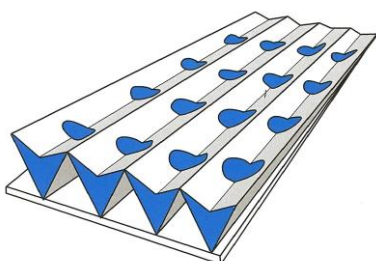
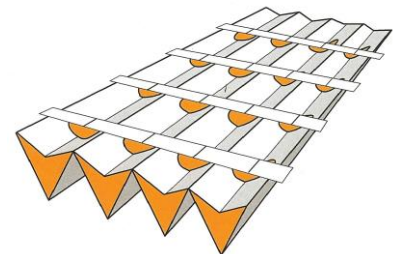
# AEREM FILTERS



„AEREMFILTERS“ The Original				
<b>Hight Effective part</b>	75 cm 10 m <sup>2</sup>	90 cm 8,35 m <sup>2</sup> *	90 cm 10 m <sup>2</sup>	100 cm 10 m <sup>2</sup>
<b>brown</b>	AF711	AF811	AF911	AF111
<b>white</b>	AF713	AF813	AF913	AF113
<b>Number of filters / pallet</b>	60	60	60	60

\* 8,35 m<sup>2</sup> = 10 sqyd

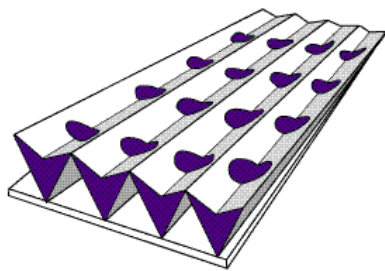
„AEREMFILTERS“ HC			
<b>Hight Effective part</b>	75 cm 8 m <sup>2</sup>	90 cm 8 m <sup>2</sup>	100 cm 8 m <sup>2</sup>
<b>white</b>	AF7338	AF9338	AF1338
<b>Number of filters / pallet</b>	60	60	60



„AEREMFILTERS“ HE			
<b>Hight Effective part</b>	75 cm 8 m <sup>2</sup>	90 cm 8 m <sup>2</sup>	100 cm 8 m <sup>2</sup>
<b>brown</b>	AF721	AF921	AF121
<b>white</b>	AF723	AF923	AF123
<b>Number of filters / pallet</b>	60	60	60

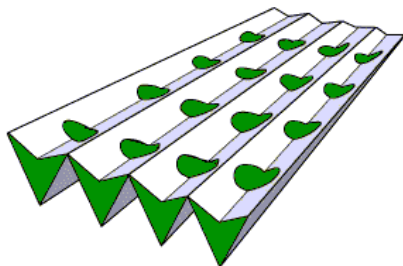
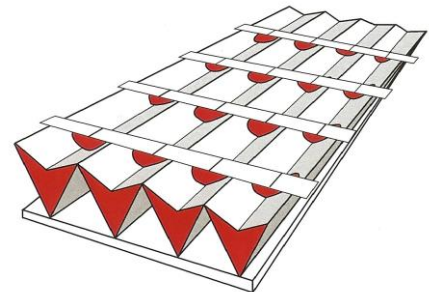


# AEREM FILTERS



„AEREMFILTERS“ HH			
<b>Hight Effective part</b>	75 cm 8 m <sup>2</sup>	90 cm 8 m <sup>2</sup>	100 cm 8 m <sup>2</sup>
<b>white</b>	AF753	AF953	AF153
<b>Number of filters / pallet</b>	52	52	52

„AEREMFILTERS“ HP			
<b>Hight Effective part</b>	75 cm 8 m <sup>2</sup>	90 cm 8 m <sup>2</sup>	100 cm 8 m <sup>2</sup>
<b>white</b>	AF743	AF943	AF143
<b>Number of filters / pallet</b>	60	60	60



„Starter“				
<b>Hight Effective part</b>	75 cm 10 m <sup>2</sup>	90 cm 8,35 m <sup>2</sup> *	90 cm 10 m <sup>2</sup>	100 cm 10 m <sup>2</sup>
<b>brown</b>	AF701	AF801	AF901	AF101
<b>white</b>	AF703	AF803	AF903	AF103
<b>Number of filters / pallet</b>	60	60	60	60

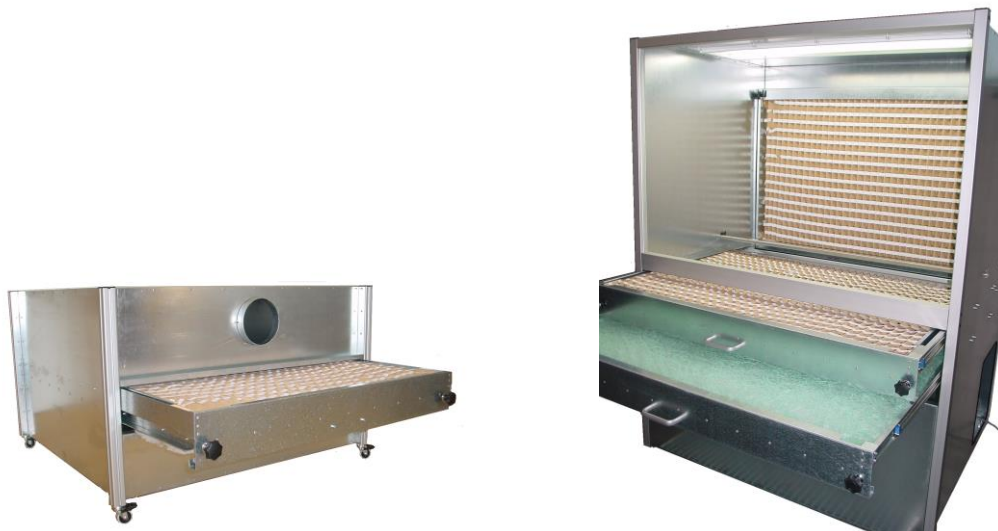
\* 8,35 m<sup>2</sup> = 10 sqyd



# AEREM FILTERS

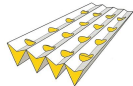
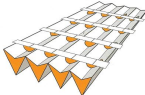
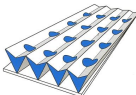
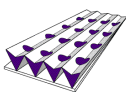
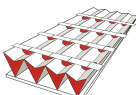
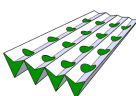
	<u>The Original</u>	<u>HC</u>	<u>HE</u>	<u>HH</u>	<u>HP</u>	<u>Starter</u>
<b>Storage capability up to</b>	18 kg/m <sup>2</sup> **	28 kg/m <sup>2</sup> **	20 kg/m <sup>2</sup> **	22 kg/m <sup>2</sup> **	29 kg/m <sup>2</sup> **	18 kg/m <sup>2</sup> **
<b>Degree of separation up to</b>	98,1% **	98,3% **	99,21% **	99% **	99,3% **	98,1% **
<b>Recommended air flow speed</b>	0,25 to 1 m/s					
<b>Difference of pressure</b>						
0,25 m/s	8 pa	8 pa	8 pa	8 pa	8 pa	8 pa
0,5 m/s	20 pa	21 pa	21 pa	20 pa	21 pa	20 pa
0,75 m/s	30 pa	32 pa	32 pa	30 pa	32 pa	30 pa
1 m/s	40 pa	42 pa	42 pa	40 pa	42 pa	40 pa
<b>Max. recommended final difference of pressure</b>	128 pa (possible to 256 pa)					

\*\* in accordance with the applied colour



# AEREM FILTERS

## Efficiency comparison

Paint type Filter	Laquer	High Solid	Polyester Bi Component
<b>The Original</b> 	Storage capability <b>10 kg/m<sup>2</sup></b>  Degree of separation <b>90%</b>	Storage capability <b>15 kg/m<sup>2</sup></b>  Degree of separation <b>97%</b>	Storage capability <b>18 kg/m<sup>2</sup></b>  Degree of separation <b>98,5%</b>
<b>HC</b> 	Storage capability <b>13 kg/m<sup>2</sup></b>  Degree of separation <b>91%</b>	Storage capability <b>20 kg/m<sup>2</sup></b>  Degree of separation <b>97,5%</b>	Storage capability <b>28 kg/m<sup>2</sup></b>  Degree of separation <b>98,8%</b>
<b>HE</b> 	Storage capability <b>9 kg/m<sup>2</sup></b>  Degree of separation <b>97%</b>	Storage capability <b>15 kg/m<sup>2</sup></b>  Degree of separation <b>98,5%</b>	Storage capability <b>20 kg/m<sup>2</sup></b>  Degree of separation <b>99,2%</b>
<b>HH</b> 	Storage capability <b>11 kg/m<sup>2</sup></b>  Degree of separation <b>95%</b>	Storage capability <b>17 kg/m<sup>2</sup></b>  Degree of separation <b>98%</b>	Storage capability <b>22 kg/m<sup>2</sup></b>  Degree of separation <b>99%</b>
<b>HP</b> 	Storage capability <b>16 kg/m<sup>2</sup></b>  Degree of separation <b>97,2%</b>	Storage capability <b>21 kg/m<sup>2</sup></b>  Degree of separation <b>98,6%</b>	Storage capability <b>29 kg/m<sup>2</sup></b>  Degree of separation <b>99,3%</b>
<b>Starter</b> 	Storage capability <b>10 kg/m<sup>2</sup></b>  Degree of separation <b>90%</b>	Storage capability <b>15 kg/m<sup>2</sup></b>  Degree of separation <b>97%</b>	Storage capability <b>18 kg/m<sup>2</sup></b>  Degree of separation <b>98,5%</b>

These achievements are indicated only as comparison, they can change in accordance with the use conditions and the paint type.

updated on: September 2023