

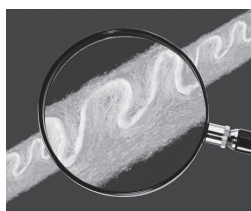
- Filter classes F6 – F9
- Filter surface area more than doubled due to the wave-like form
- No electrostatic charge
- Absolutely lowest initial pressure drops, gentle increase over the operating time
- Constantly high degree of efficiency
- Massive energy savings
- Meets all EN standards and SWKI guidelines
- Synthetic, break-proof fibres
- Extremely sturdy V-shaped pockets, no inflation or buckling
- Shaped pockets



### Use:

SynaWave® fine dust filters from Unifil are extremely effective for airborne particles like fine dust, pollen, bacteria, soot etc. The pocket filters are ideal for use as a main filter or as a pre-filter to a HEPA filter in all ventilation and air conditioning systems. They keep your system in a perfect technical and hygienic condition. The pocket filters can be used in all ventilation systems as well as in special installations. Energy costs can be considerably lowered due to the low pressure drops over the entire operating time.

### Form:



With the wave-like structure of the fine filter fibre, the size of the active surface area is more than doubled. The filter pockets therefore act as a framework and have a sturdy V-form. They do not fall together when in resting state. Lowest possible pressure drops are achieved through an adapted cone-shaped seam spacer. The typical "Unifil cut" guarantees an easy installation and prevents mutual contact while in operation. SynaWave® pocket filters can be manufactured with a plastic, wood or metal frame. We also manufacture special sizes. Given that there is no electrostatic charge with this medium, there is also no discharge.

### Performance:

The filter medium is made out of 100 % synthetic and thus break-proof fibres. The fine fibres at micro- and nanoscale guarantee a constantly high degree of efficiency and the big spaces in between the wave-forms enable a superior dust-storage capacity. During its operation, the efficiency of SynaWave® does not decrease and guarantees an optimal filtration as well as an excellent operating life.

Type	610	508	420	305	305/2	961	915	510	410
Nominal air flow* m <sup>3</sup> /h	3400	2800	2300	1700	850	5100	2550	2400	1500
Filter class EN 779, SWKI VA101-01									
<b>FW 65</b>	F6	F6	F6	F6	F6	F6	F6	F6	F6
<b>FW 85</b>	F7	F7	F7	F7	F7	F7	F7	F7	F7
<b>FW 95</b>	F8	F8	F8	F8	F8	F8	F8	F8	F8
<b>FW 98</b>	F9	F9	F9	F9	F9	F9	F9	F9	F9
Initial pressure drop Pa									
<b>FW 65</b>	58	58	58	58	58	58	58	58	58
<b>FW 85</b>	75	75	75	75	75	75	75	75	75
<b>FW 95</b>	125	125	125	125	125	125	125	125	125
<b>FW 98</b>	165	165	165	165	165	165	165	165	165
Recommended end pressure drop Pa	Initial pressure drop corresponding to the air flow x 2, max + 100 Pa								
Active filter surface area m <sup>2</sup>									
<b>FW 65</b>	12.2	9.8	7.3	6.1	2.7	19.1	9.6	8.0	4.6
<b>FW 85</b>	12.2	9.8	7.3	6.1	2.7	19.1	9.6	8.0	4.6
<b>FW 95</b>	15.2	12.2	9.2	7.6	3.3	23.9	11.9	10.0	5.8
<b>FW 98</b>	15.2	12.2	9.2	7.6	3.3	23.9	11.9	10.0	5.8
Dimensions width x height mm	592 x 592	490 x 592	402 x 592	287 x 592	287 x 287	592 x 897	287 x 897	492 x 492	392 x 392
Filter depth mm	580	580	580	580	580	580	580	580	580
Mounting frame (see Reg. 8, page 2)									
Depth 65 mm	610 x 610	508 x 610	420 x 610	305 x 610	305 x 305	610 x 915	305 x 915	510 x 510	410 x 410

\* Recommended maximum flow for FW types: 1.25 x nominal air flow

Flame resistance according to DIN 53438: F1

Temperature resistance 80°C

Nominal flow rate 2.53 m/s

Maximum end pressure drop 450 Pa

We also make special sizes

Description: FW - 65 - 610



subject to technical changes

Initial Pressure Drops of SynaWave® Pocket Filters

