

Comparison Measurements – Zehnder ComfoAir Q Filter



Zehnder ComfoAir Q 300 / 350 / 450 / 600
Original Zehnder filter set
[Filter set G4 ⓘ](#)

Article number **TOPS:** T03062
Article number **Zehnder:** 400502012
[Read more](#)

You receive	Type + Size	Class
2 x	Panel filter Z/Line cardboard 160 x 500 x 23 mm. <i>Note: Original Zehnder filter</i>	G4

VS.



Zehnder ComfoAir Q 350 / 450 / 600
TOPS House brand
[Filter set G4 ⓘ](#)

Article number **TOPS:** T03097
Article number **Zehnder:** 400502012
[Read more](#)

You receive	Type + Size	Class
2 x	Panel filter Z/Line cardboard 160 x 500 x 23 mm.	G4

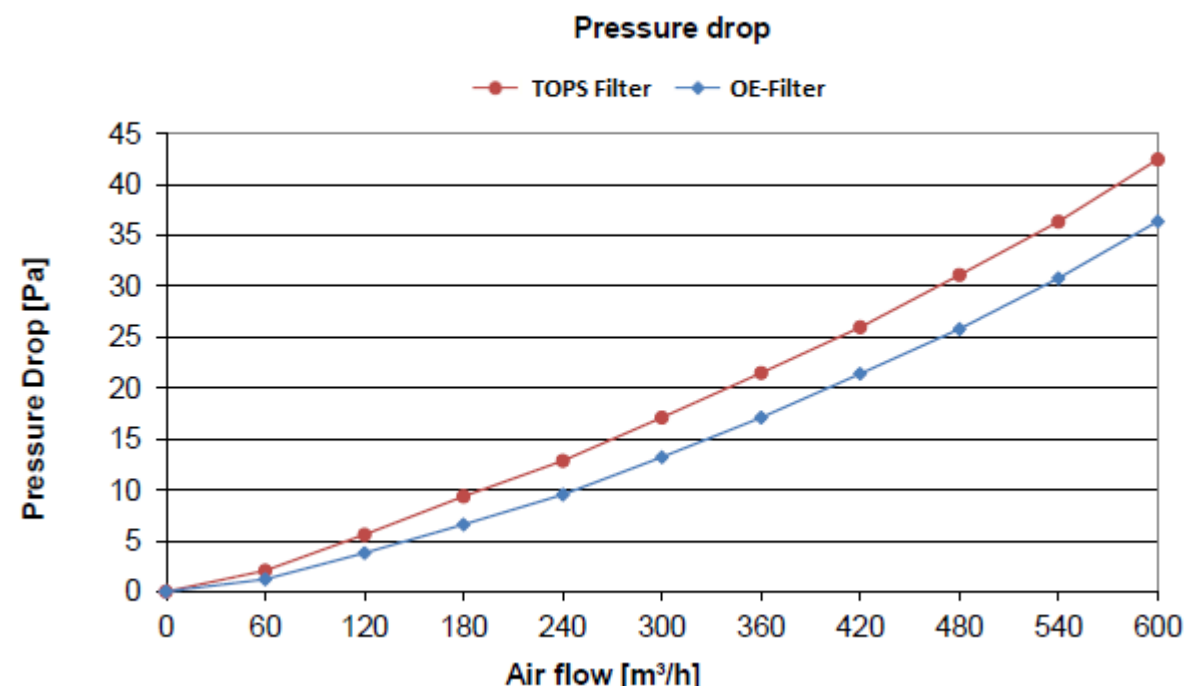
Comparison Measurements

Private label Tops Luchtfilters

- All measurements are performed in a certified laboratory in Germany.
- The comparison measurements are between the Tops filter and the Zehnder OE-filter
 - Zehnder article number G4: 400100900 and F7: 400100901.
- Measured and compared are the pressure drop and the filter efficiency.
- For the G4 filter also a dust holding capacity measurements were performed on the flatsheet.
- All performed measurements are based on DIN EN ISO 16890 and DIN 71460 standard.
- The results of the Tops filters shown are average values from at least three measurements.
- One measurement was taken of the OE-Filter.

Test results ISO-Coarse filter – Pressure drop

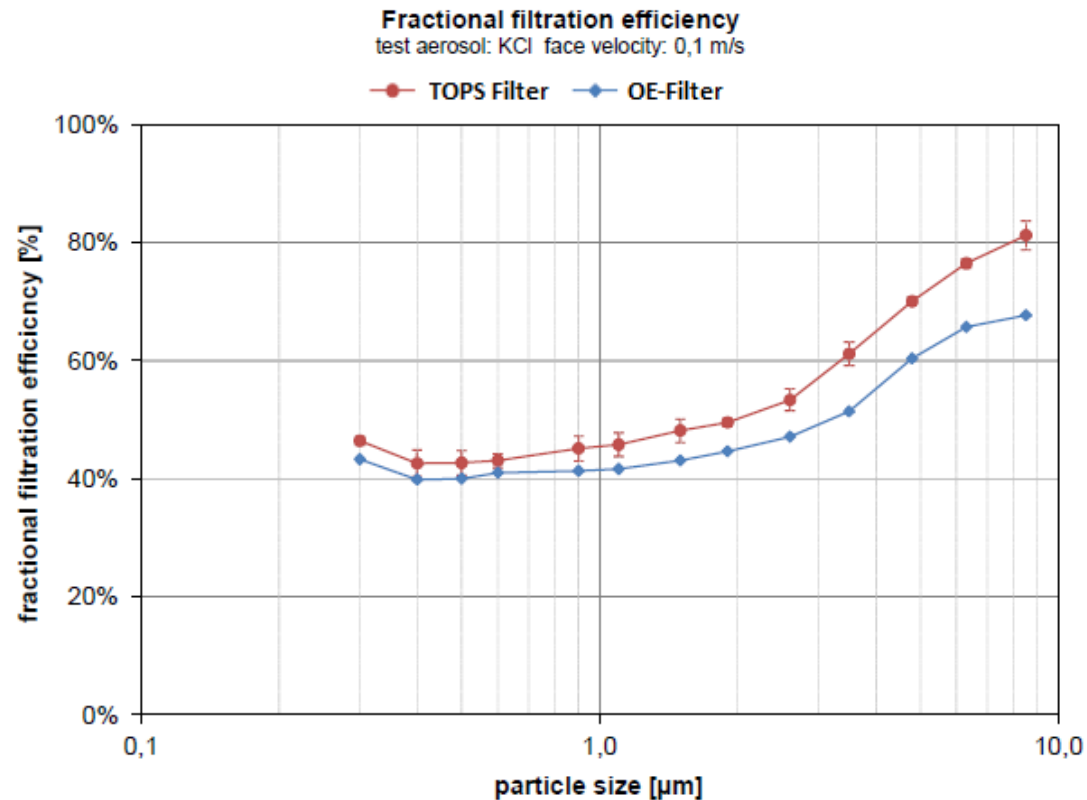
Private label Tops Luchtfilters



- Both filters were tested under identical conditions from 60 m³/h – 600 m³/h air flow.
- The Tops filter shows an average pressure drop that is only 4 Pa higher than the OE-filter.

Test results ISO-Coarse filter – Filtration efficiency

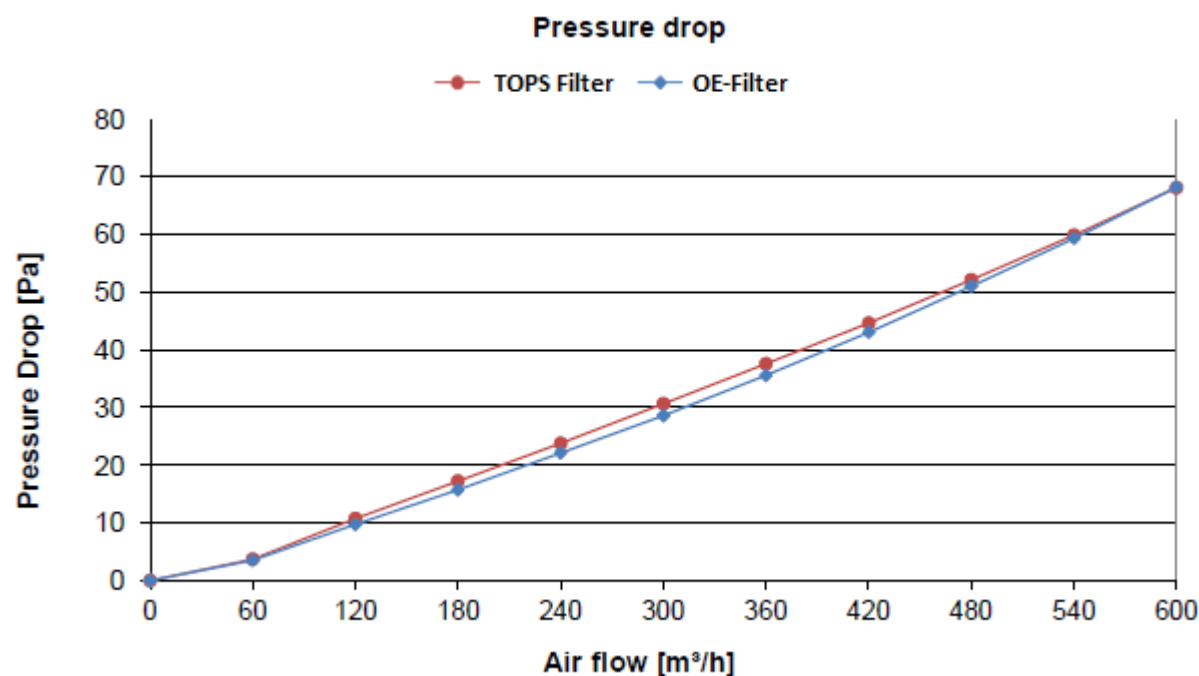
Private label Tops Luchtfilters



- The efficiency of the filter was measured with potassium chloride (KCl).
- The Tops filter shows a better filter efficiency than the OE-filter.

Test results ePM1 filter – Pressure drop

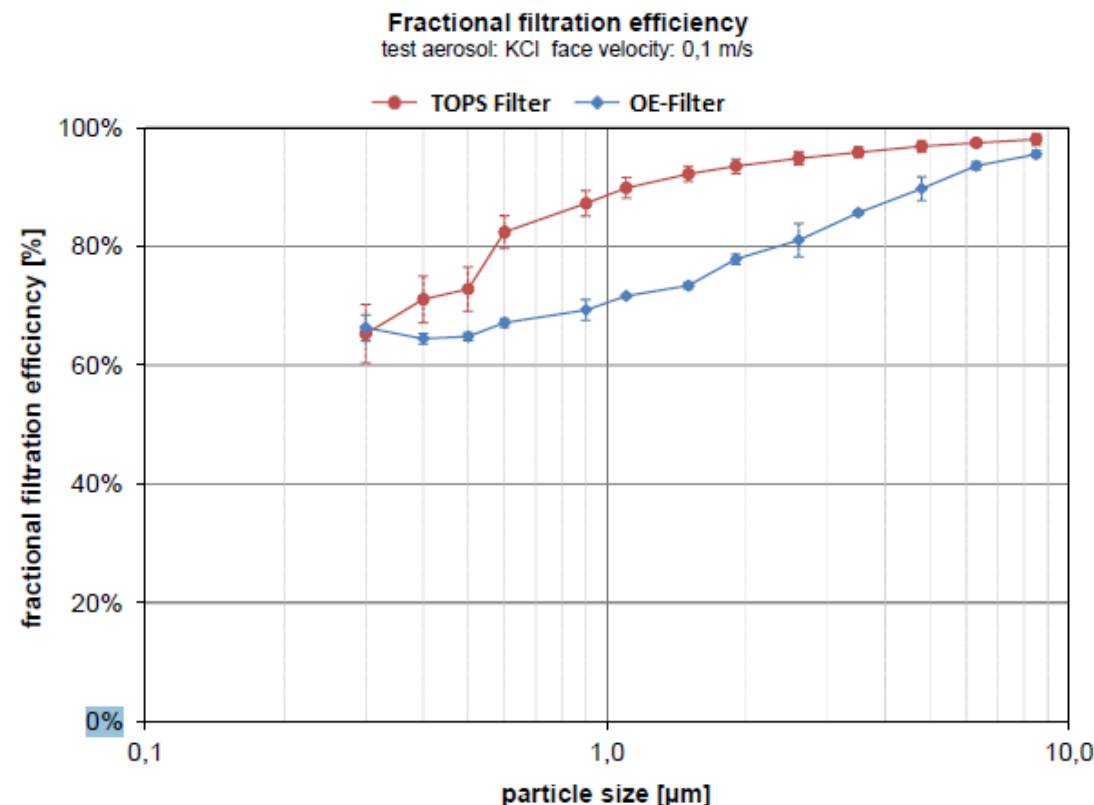
Private label Tops Luchtfilters



- Both filters were tested under identical conditions from 60 m³/h – 600 m³/h airflow.
- The Tops filters shows the same performance in the pressure drop as the OE-Filter.
- The slight deviations that can be seen here are < 2 % and negligible.

Test results ePM1 filter – Filtration efficiency

Private label Tops Luchtfilters



- The efficiency of the filter was measured in the charged and discharged state with potassium chloride (KCl).
 - Charged = filter in initial state (as delivered)
 - Discharged = the filter is neutralized in a closed system by evaporated isopropanol
- (IPA) for at least 24 h.
- The diagram shows the average of the charged and discharged measurement.
- The Tops filter outperforms the OE product in 0% the efficiency.

Summary ISO-Coarse filter

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Zehnder Comfort CA-Q

	Tops Filter	OE-Filter
Pressure drop @ 0,21 m/s	31,1 Pa	25,8 Pa
Efficiency @ 3 µm	57%	49%
Dust holding capacity + 50 Pa	17 g/m2	23 g/m2

The Tops Filter shows with these comparison measurements that the ISO-Coarse filter has a:

- Similar pressure drop to the OE-filter
- Better filtration efficiency against KCl

Summary ePM1 filter

Private label Tops Luchtfilters

Zehnder Comfort CA-Q

	Tops Filter	OE-Filter
Pressure drop @ 0,21 m/s	52,1 Pa	51,6 Pa
Efficiency @ 1 µm	89%	71%

The Tops shows with these comparison measurements that the ePM1 filter has a:

- Identical pressure drop
- Better filtration efficiency against KCl
- Higher filter class Tops ePM1 75 %, OE-Filter ePM1 65 % (based on DIN EN ISO 16890)

→ The Tops filter **outperforms** the specification