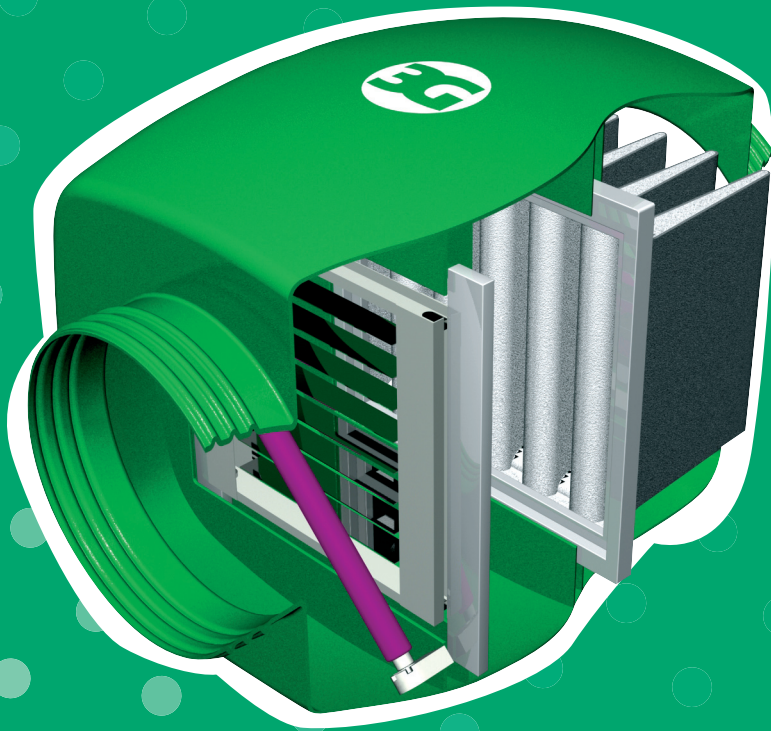


INSTRUCTIONS FOR DIMENSIONING



HEPAeSORB TJ-models



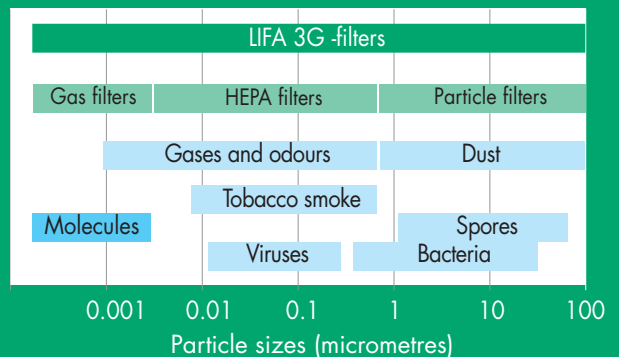
3G HEPAeSORB Filters are designed to maintain healthy indoor air by preventing typical airborne contaminants, like particulate matter, VOCs, ozone, and odours, from entering the room air. They are installed as an integrated part of the ventilation system.

This guide is applicable to all TJ-models. Once you know the air flow and desired filtration efficiency, it becomes easy to estimate, plan and choose the right model for the place in question.

Patented 3G technology enables high filtration efficiency combined with very low pressure drop ($\Delta P/Pa$), leading to both very high and long lasting loading capacity.

All TJ models are equipped with electric charger and UV-light in order to guarantee 100% microbe-killing efficiency.

Can be integrated into building automation systems (e.g. LON local operating network)

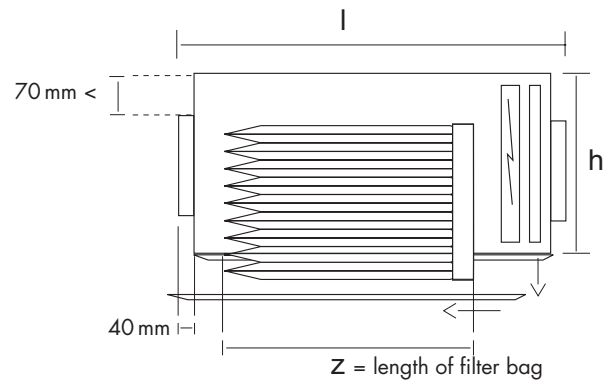
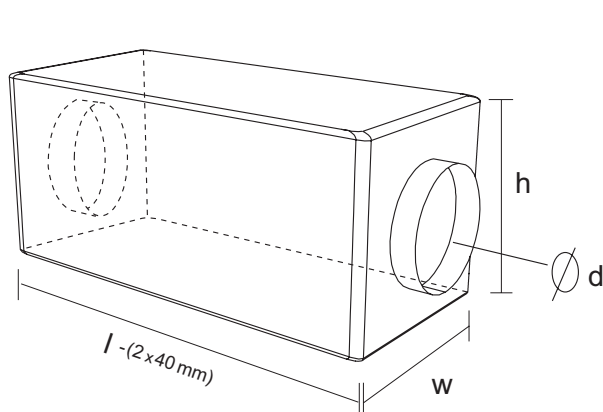


Guide no: IfD TJ v. 01/08

LIFA 3G HEPAeSORB Filters are the most effective way of cleaning all airborne contaminants. These advanced low flow resistance, high efficiency LIFA supply air filters are designed to remove both particulate and gaseous contaminants from the supply air, without extensive building modifications. Their unique design translates into significant financial and safety benefits.


www.3Gfilters.com



TJ-models 3G Filter system to be installed as an integrated part of the ventilation system



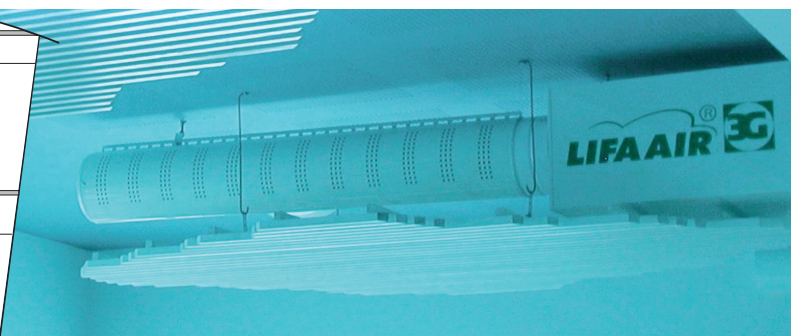
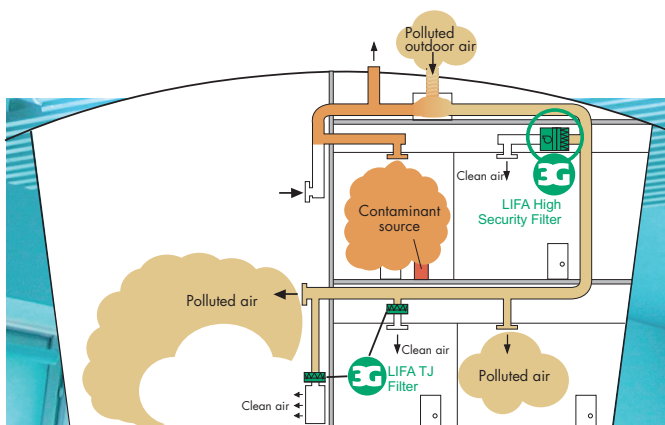
Change of filter: space/opening needed in false ceiling is $Z \times W$ = filter size in minimum

Opening the lid: space needed to move in either direction L or w

Product specifications

| Product name | LIFA 3G TJ 01 UV | LIFA 3G TJ 02 UV | LIFA 3G TJ 03 UV | LIFA 3G TJ 04 UV | LIFA 3G TJ 05 UV |
|--------------------------------------|---|---|--|---|---|
| |  |  |  |  |  |
| Item number | 6420281023 033 | 6420281023163 | 6420281020032 | 6420281023460 | 6420281023804 |
| Size (exterior) mm | | | | | |
| width x height x length | 360 x 320 x 590 | 600 x 320 x 670 | 510 x 470 x 612 | 600 x 470 x 715 | 645 x 615 x 940 |
| diameter (Ø d) | 200 | 200 | 250 | 315 | 400 |
| Parts | | | | | |
| UV-light | 15 W / 251 nm | 17 W / 251 nm | 17 W / 251 nm | 17 W / 251 nm | 17 W / 251 nm |
| Charger | 7 W / 8 kV | 9 W / 8 kV | 10 W / 8 kV | 10 W / 8 kV | 12 W / 8 kV |
| Input | 100 – 240 V / 50 – 60 Hz | 100 – 240 V / 50 – 60 Hz | 100 – 240 V / 50 – 60 Hz | 100 – 240 V / 50 – 60 Hz | 100 – 240 V / 50 – 60 Hz |
| 3G Filter bag size w x h x z (mm) | particle/active carbon 305 x 305 x 285 | particle/active carbon 550 x 305 x 375 | particle/active carbon 450 x 450 x 293 | particle/active carbon 550 x 450 x 375 | particle/active carbon 592 x 592 x 600 |
| Technical information | | | | | |
| Pressure drop | 70 Pa / (100 l/s) | 66 Pa / (165 l/s) | 51 Pa / (205 l/s) | 40 Pa / (250 l/s) | 36 Pa / (352 l/s) |
| Airflow | 100 l/s | 165 l/s | 205 l/s | 250 l/s | 352 l/s |
| with face velocity of 1.0 m/s | 360 m ³ /h 212 CFM | 594 m ³ /h 350 CFM | 738 m ³ /h 434 CFM | 900 m ³ /h 530 CFM | 1267 m ³ /h 745 CFM |
| Efficiency for particles | 99.5 % (< 123 l/s) 95 % (123–190 l/s) 90 % (190–250 l/s) | 99.5 % (< 240 l/s) 95 % (240–380 l/s) 90 % (380–500 l/s) | 99.5 % (< 325 l/s) 95 % (325–525 l/s) 90 % (525–760 l/s) | 99.5 % (< 400 l/s) 95 % (400–625 l/s) 90 % (625–950 l/s) | 99.5 % (< 445 l/s) 95 % (445–700 l/s) 90 % (700–1200 l/s) |
| Efficiency for gases | 95 % (< 123 l/s) | 95 % (< 240 l/s) | 95 % (< 325 l/s) | 95 % (< 400 l/s) | 95 % (< 445 l/s) |
| Notes | no blower needed | no blower needed | no blower needed | no blower needed | no blower needed |

All the models also available without UV-light



Selection tables

Filtration efficiency for particles (0.3 μm)

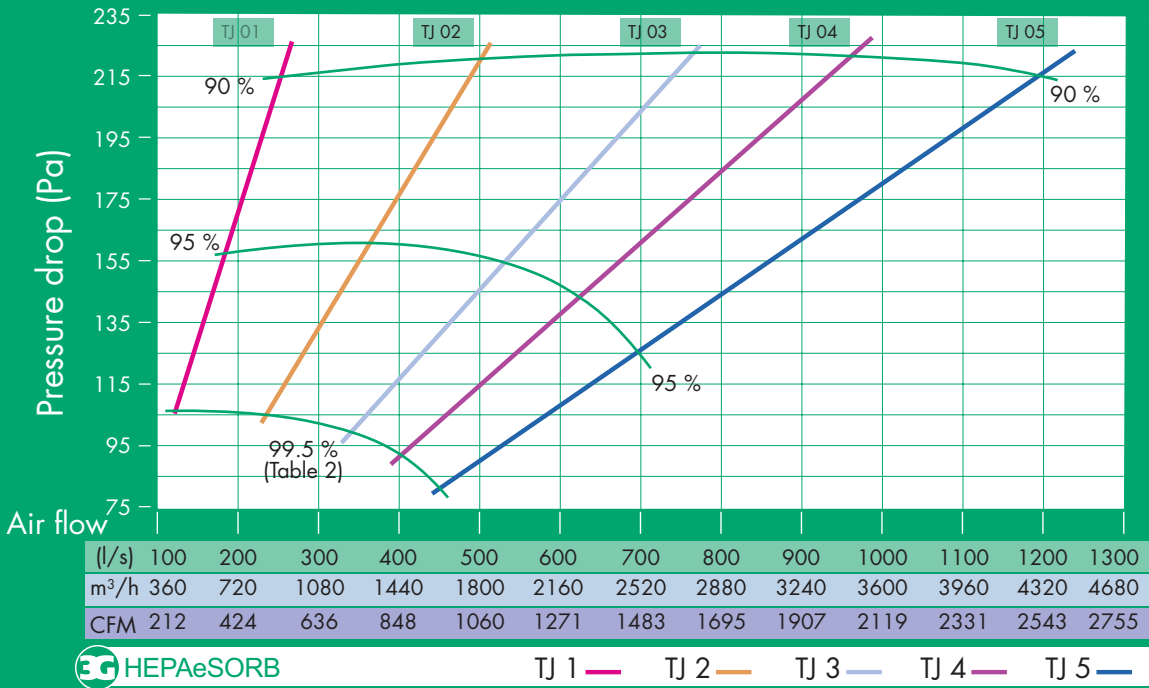


Table 1

Filtration efficiency for particles 99.5 % and for gases 95

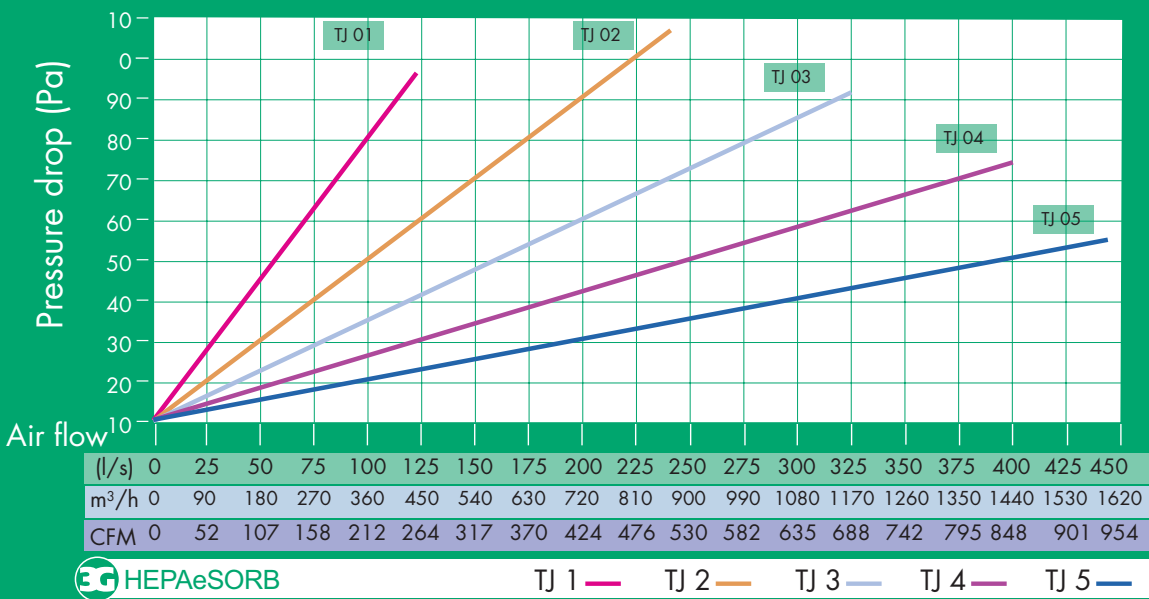
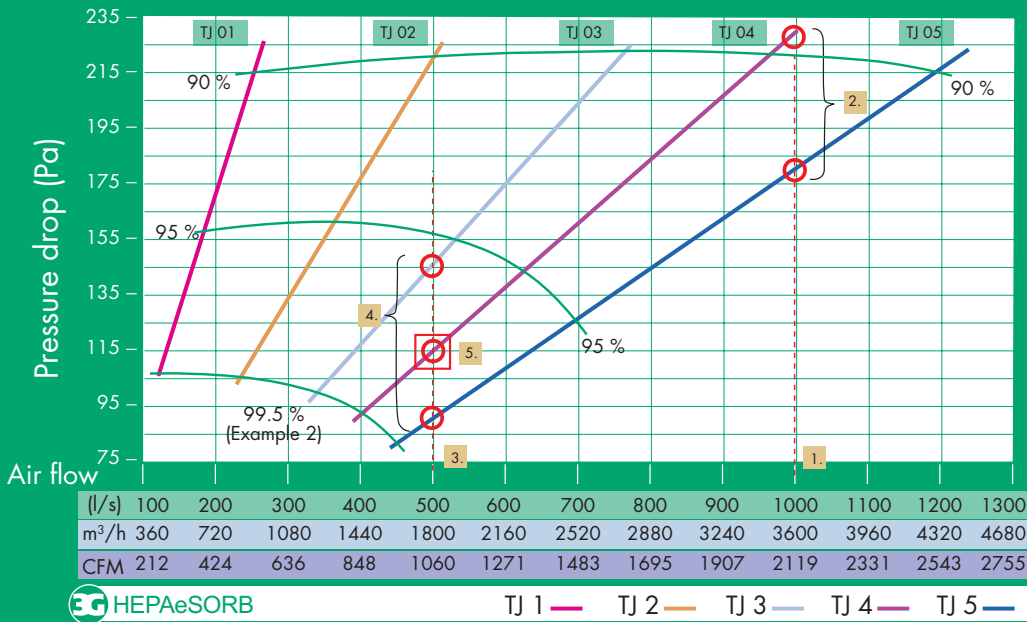


Table 2

How to select the right LIFA 3G product

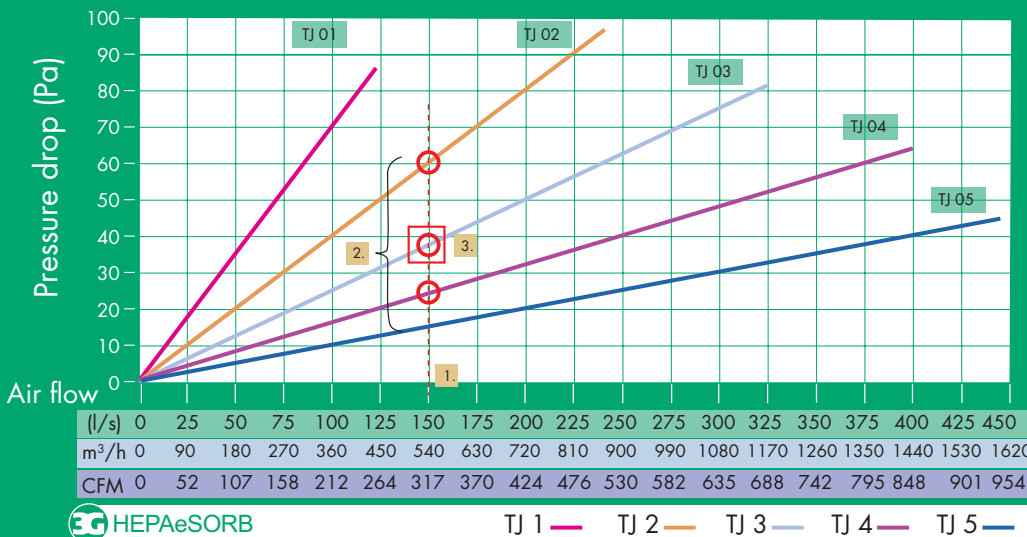
Filtration efficiency for particles (0.3 μm)



Example 1

1. Air flow 1000 l/s to be filtered with 95 % efficiency
2. Models suitable for parameters given are, TJ 04 and TJ 05, but efficiency is around 90 %
3. To achieve the 95 % efficiency, the air flow has to be divided through two units, each with air flow of 500 l/s.
4. Models suitable for parameters given are, TJ 03, TJ 04 and TJ 05, efficiency is better than 95 %
5. Model TJ 04 (2 pcs.) is chosen to optimize the required space and the energy consumption (in terms of pressure drop).

Filtration efficiency for particles 99.5 % and for gases 95 %



Example 2

2. Models suitable for parameters given are TJ 02, TJ 03, TJ 04 and TJ 05
3. Model TJ 03 is chosen to optimize the required space and the energy consumption (in terms of pressure drop).



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