

Hygiene certification of IDEAL air purifier models
AP15 / 30 / 45, AP60 / 80 Pro and AP40 / 100 Med-Edition



All above mentioned air purifier models are tested according to German VDI (Association of German Engineers) directive 6022 for the use in medical areas and medical facilities. This directive is applicable for ventilation technology and indoor air quality.

The corresponding tests were performed by well-known institute Schwarzkopf in cooperation with Hygiene Institute Mainfranken (HIM). Test coordinator was Dr. Med. (MD) Schwarzkopf. He is medical specialist for microbiology and for infection epidemiology. Furthermore, he is an officially appointed specialist and a sworn expert for hospital hygiene.

All models were successfully tested regarding various criteria (see below). Therefore they are suitable for use in medical areas and medical facilities, which clearly is a unique selling point.

- ✓ Microbiologically tested (regarding viruses and bacteria)
- ✓ Mycologically tested (regarding fungi and fungal spores)
- ✓ Tested regarding particulate matter and other particulates
- ✓ Tested regarding cleanability and disinfectability of the housings
- ✓ Tested regarding noise emission

The test reports of the so-called hygiene report is exclusively available in German language. A translation of dozens or hundreds of pages for each model would be too complex for abovementioned institutes. Apart from that the hygiene report contain a lot of secret data regarding construction of the machines and their filter elements so that we unfortunately cannot provide them to our customers. However, please find below an excerpt of the hygiene reports in German language providing a short summary of the test results.

Eingesetztes Equipment zur Prüfung der Testgeräte, Messgrößen:

DustTRAK DRX Aerosol Monitor	(PM 1, PM 2,5, PM 10 und Respirationsgangige Partikel)
MetOne Laser Particle Counter	0,3 – 0,5 – 1,0 – 3,0 – 5,0 – 10,0 µm
Holbach Luftkeimsammler	Aktive Keimsammlung
Testo 417	Volumenstrommessung
PeakTech 805	Schallpegelmessung

Durchgeführte Prüfungen

Feinstaubmessung, Partikelmessung, Luftkeimmessung, Volumenstrommessung, Schallpegelmessung

Volumenstrommessungen:

Stufe 1, 2, 3, 4 je 3 x, Angabe gemittelt

Feinstaubmessungen:

Stufe 1, 2, 3, 4 je 10 Minuten

Partikelmessungen:

Stufe 1, 2, 3, 4 FED STD 209E

Luftkeimbestimmung:

Stufe 4 Bakteriell

Luftkeimbestimmung:

Stufe 4 Mykologisch (Pilznachweis)

100 Liter

Mikrobiologische Auswertung:

Es konnten bei keinem Gerät Keime in 100 Liter Luftvolumen (Stufe 4 Turbo) nachgewiesen werden.

Mykologische Auswertung:

Es konnten bei keinem Gerät Schimmelpilze in 100 Liter Luftvolumen (Stufe 4 Turbo) nachgewiesen werden.

Zusammenfassende Stellungnahme

Die Geräte erfüllen den für medizinische Einrichtungen notwendigen Hygienestandard.

Bauart bedingt kann der Filter leicht gewechselt werden. Das Gerätegehäuse selbst kann leicht gereinigt und desinfiziert werden. Somit ist es zum Einsatz in medizinischen Einrichtungen geeignet.

PD Dr. med. A. Schwarzkopf

Facharzt für Mikrobiologie und Infektionsepidemiologie

Öffentlich bestellter und beidogter Sachverständiger für Krankenhaushygiene

In case you have any questions please feel free to contact us under b.sauter@ideal-health.de