rensair

May 2020

Statement by Oslo University Hospital

The following statement is written by Dr. Hilde Bånrud, Researcher at Radiumhospitalet (Oslo University Hospital), about the Rensair air cleaning technology. Oslo University Hospital is the largest hospital in Northern Europe and consistently ranked as a world leading research institution. More information can be found here.

The statement references “Busy Bee”. Busy Bee was an early brand name of what is now known as the Rensair Hospital-Grade Air Purifier.

The statement concludes that: “Based on the tests performed by accredited laboratories and scientifically published literature, one can conclude that the Rensair air cleaner effectively reduces the level of microorganisms, such as bacteria, viruses, moulds and yeasts in the air.”

Kind regards,

H. Hendriksen
Inventor and CTO
Rensair

Oslo University Hospital

STATEMENT ABOUT (BUSY BEE) MEDINA UV AIR CLEANER

(BUSY BEE) MEDINA UV-air cleaner consists of two main units; a filter unit with a pre-filter (EU5) and a HEPA-filter (EU13) supplied with a UVC-source. The maximal capacity of the air cleaner is 560 m^3 air per hour.

In addition to removing larger particles such as dust and pollen, the filters ensure an effective purification of microorganisms in the air. This applies to airborne bacteria, moulds, yeasts and viruses. As a supplement UVC, which is a well documented and broad spectrum disinfection agent, gives an effective and continuous disinfection of the filter surfaces. UVC-disinfection prevents growth of microorganisms on the filter surfaces and additionally, reduces the risk that live microbes penetrate the filter medium.

Tests performed by Eurofins Danmark (2002) show that at least 99,89% of particles larger than 0,3 μm are removed by the (BUSY BEE) MEDINA UV-air cleaner. Concurrently, it was found that the air cleaner reduced the level of airborne bacteria (bacterial count) by more than 99,6%.

The average size of bacteria (logmean diameter) vary from approximately 0,3 to 1,2 μm. Moulds and yeasts vary in diameter from approx. 1,5 to 20 μm. Airborne viruses, which are smaller than bacteria, moulds and yeasts, vary in diameter from 0,02 to 0,22 μm.

Recent scientific work have concluded that familiar airborne viruses, such as reovirus, adenovirus, influensavirus, coronavirus, morbillivirus, varicella-zoster-virus, arenavirus, parainfluensavirus, RSV (Respiratory Syncytial Virus), poxvirus vaccinia, paramyxovirus and so on are reduced by at least 99,97% in a HEPA-filter (Kowalski et al, 2002[1]).

Based on the tests performed by accreditated laboratories and scientificallly published literture, one can conclude that the (BUSY BEE) MEDINA UV air cleaner effectively reduces the level of microorganisms, such as bacteria, viruses, moulds and yeasts in the air.

Moss, 21.10.04

Hilde Bånrud
Dr. scient.

Radiumhospitalet, Oslo

rensair

For additional information please visit
rensair.com or email contact@rensair.com