

BONECO
healthy air

TRADITION SINCE 1956
 A SWISS COMPANY

BONECO CLEAN & PROTECT

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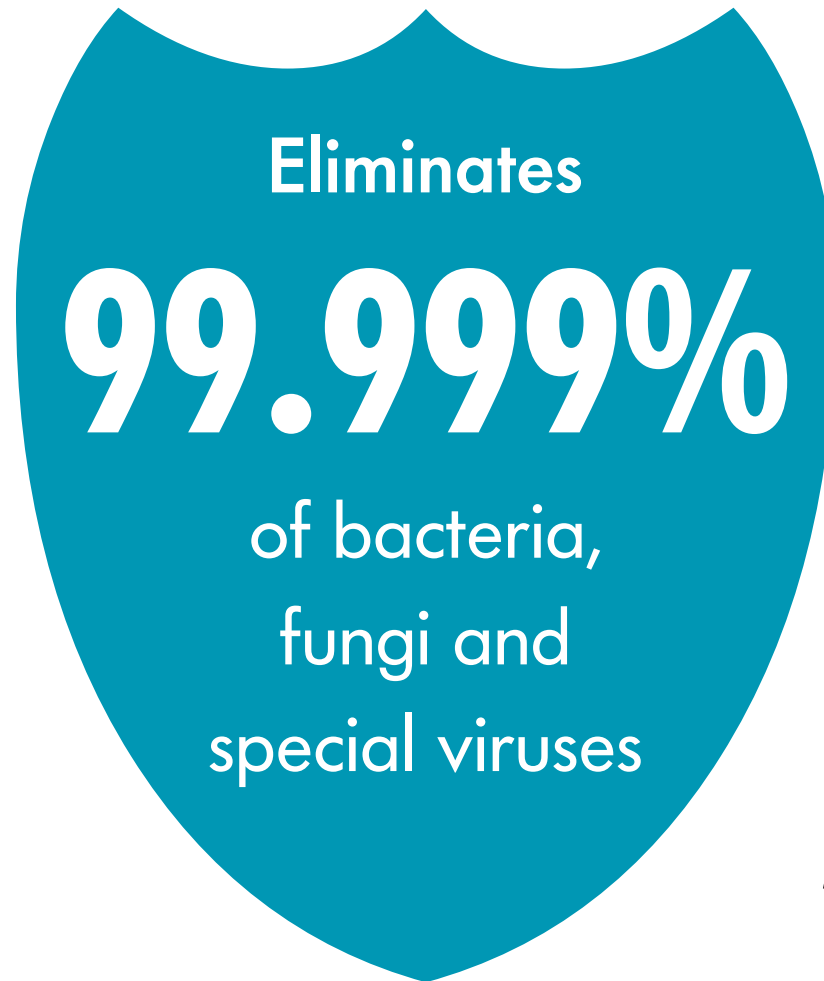
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BONECO CLEAN & PROTECT

WORLD NOVELTY



**Made in Germany
Patented Technology**

High Humidity Leads to Loss of Infectious Influenza Virus from Simulated Coughs

John D. Noti^{1*}, Francoise M. Blachere¹, Cynthia M. McMillen^{1,2}, William G. Lindsley¹, Michael L. Kashon¹, Denzil R. Slaughter¹, Donald H. Beezhold¹

¹ Health Effects Laboratory Division (HELD), National Institute for Occupational Safety and Health (NIOSH), Centers for Disease Control and Prevention (CDC), Morgantown, West Virginia, United States of America, ² Department of Microbiology, Immunology and Cell Biology, School of Medicine, West Virginia University, Morgantown, West Virginia, United States of America

At a humidity level of 20 percent, infectious viruses remain suspended in the room for 4 to 5 hours after coughing.

Figure 1. Three-dimensional view of the simulated examination room. National Institute of Occupational Safety and Health (NIOSH) samplers collected aerosols through the mouth, 10 cm on either side of the manikin's mouth, and at 3 other positions (P1, P2, P3) as shown. The mouths of the coughing and breathing simulators and sampler inlets at P1, P2, and P3 were located 152 cm above the floor (approximate mouth height of a patient sitting on an examination table and a standing healthcare worker). All dimensions adjacent to white arrows within the room are in centimeters.
doi:10.1371/journal.pone.0057485.g001

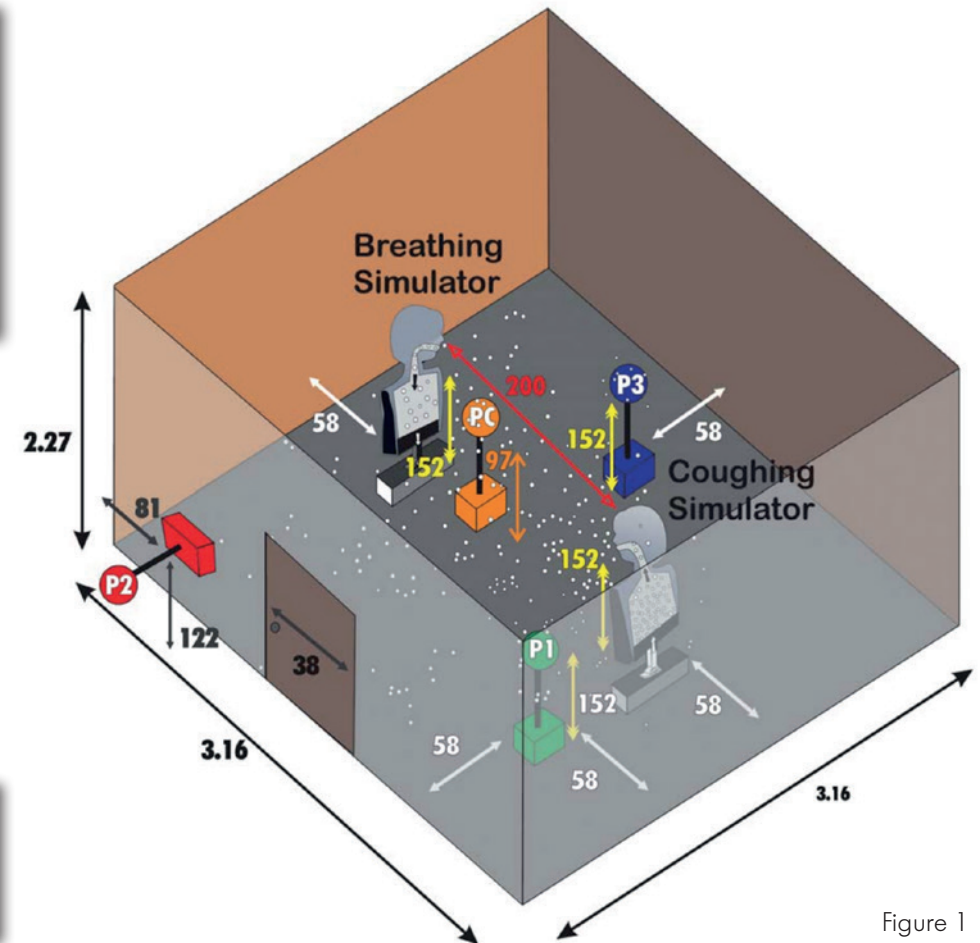


Figure 1
[Source](#)

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WHAT KEEPS US SAFE?



The optimal humidity and sanitized air keeps us safe!

After 2 years of work the market launch is now
New liquid for BONECO "HYBRID Humidifiers
& Air Purifiers" and "Air Washers".



3-in-1 System

Humidification of the room air ✓

Keeps rooms humidity to the ideal range of 40–60%. 20% humidity means 80% more risk to keep viruses floating!

Disinfection of the room air and surfaces ✓

When used undiluted, it eliminates 99.999% of special viruses, bacteria, fungi, mites, and germs in the air and on surfaces!

Purification of the room air ✓

Cleans up to 98.5 % of PM1 particles in your the room!



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Whether at home, office, public buildings, schools, hotels, retirement homes, or wherever you are:

BONECO CLEAN & PROTECT with a BONECO "HYBRID Humidifier & Air Purifier" or an "Air Washer" is a highly effective way of air treatment.



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Healthy and clean air is
more important than ever!

BONECO CLEAN & PROTECT

Yale researchers have pinpointed a key reason why people are more likely to get sick and even die from flu during winter months: low humidity. [Source](#)

- Eliminates 99.999% of bacteria, fungi and special viruses ✓
- No labeling obligation ✓
- Contains no alcohol and surfactants ✓
- Can reduce in the first two hours 50 percent of viruses and bacteria in the air and on surfaces* ✓









HYBRID Humidifier & Air Purifier



Humidifier Air Washer



* Depending on the room size, the BONECO device and the performance level

Active ingredient	Use	GHS hazardous substance labeling
BONECO CLEAN & PROTECT	Surfaces, instruments, water, air	NO LABELLING NEEDED!
Peracetic acid	Surfaces, instruments	
Chlordioxid	Surfaces, instruments, water	
Hydrogen peroxide	Surfaces, instruments, water, skin, mucous membrane	
Sodium hypochlorite	Surfaces, instruments, water	
Chlorine	Water, instruments	
Ozone	Water, instruments, ozone for vehicles	
Chloramine	Surfaces, water, instruments, skin, mucous membrane	
Iodine	Skin, mucous membrane	

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AUTHORIZATION & PROPERTIES



BONECO CLEAN & PROTECT

Not subject to classification
Water hazard class (WGK) 0

- Ionized active ingredient combination ✓
- Virucidal: EN14476 ✓
- Levurocides: EN 1650, EN 13697 ✓

Eliminates 99.999% of bacteria, fungi and special viruses

- Bactericides: EN 1276, EN 13697 ✓
- Legionella: EN 13623 ✓
- PT 1, PT 2, PT 3, PT 4, PT 5, PT 11, PT 12 ✓



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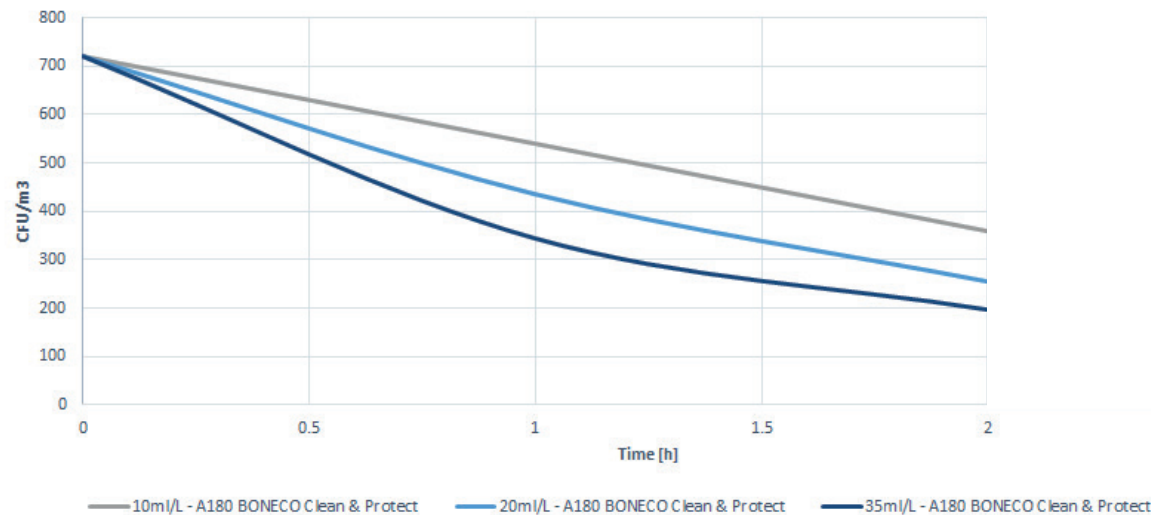
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CLEAN AIR THANKS TO THE AIR WASHER SYSTEM



Use:

- Fill either into the water base or into the water tank of all BONECO "HYBRID Humidifier & Air Purifier" and "Air Washer" units
- Sustainable elimination of odors
- Removes special viruses, bacteria, fungi, mites and germs



Recommended dosing volume:

5 ml per liter:

Small air disinfection, maximum hygiene

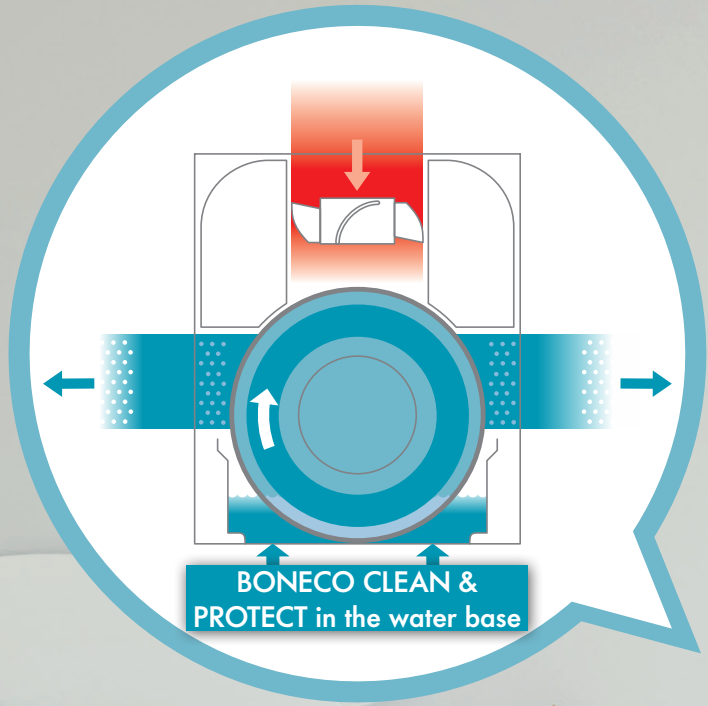
10 ml per liter:

Medium air disinfection, maximum hygiene, with a freshness effect

From 20 ml per liter:

High air disinfection, maximum hygiene, with a high freshness effect

The laboratory values listed reflect the conditions at the time of sampling.



Viruses
Bacterias



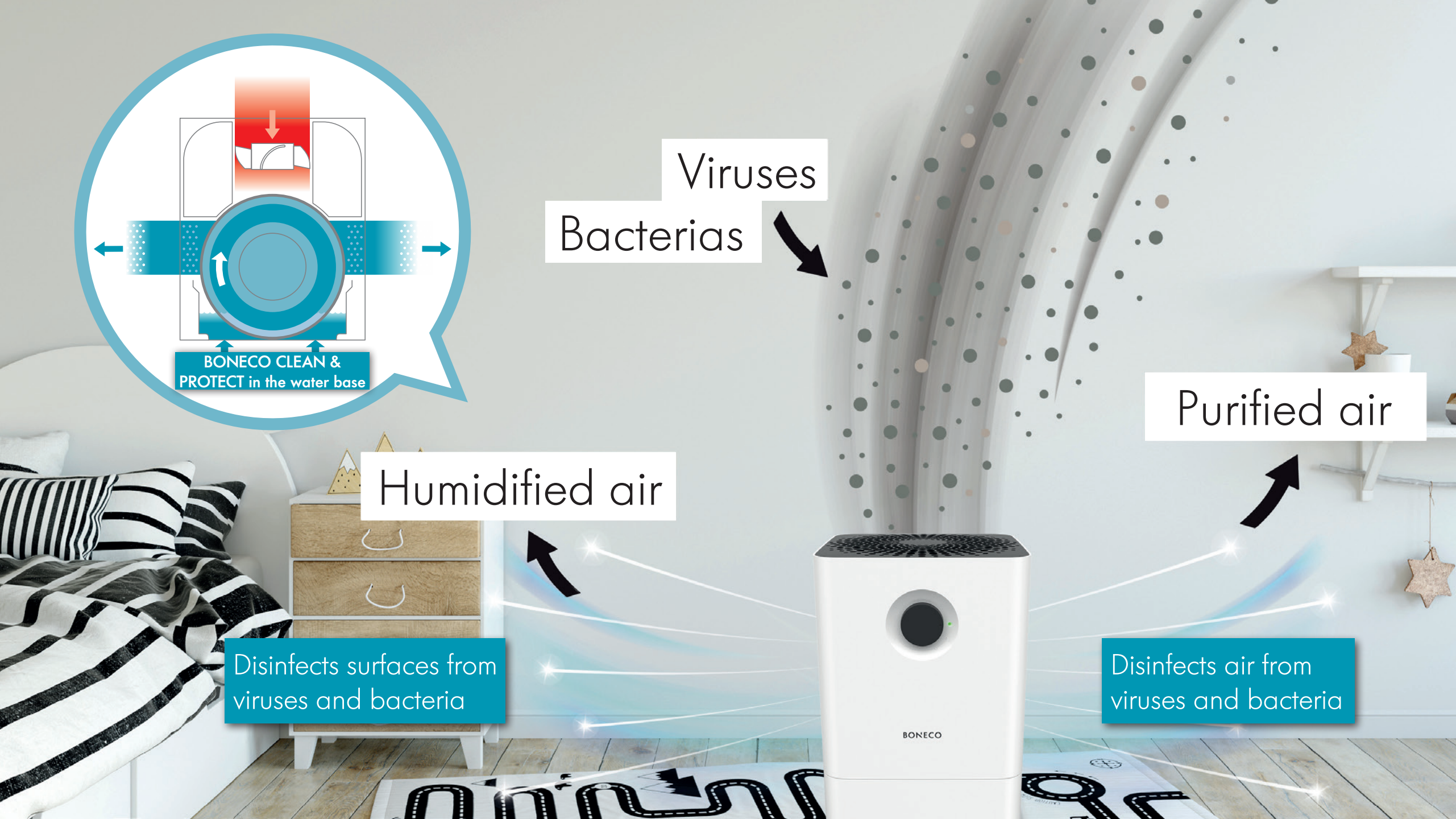
Purified air

Humidified air

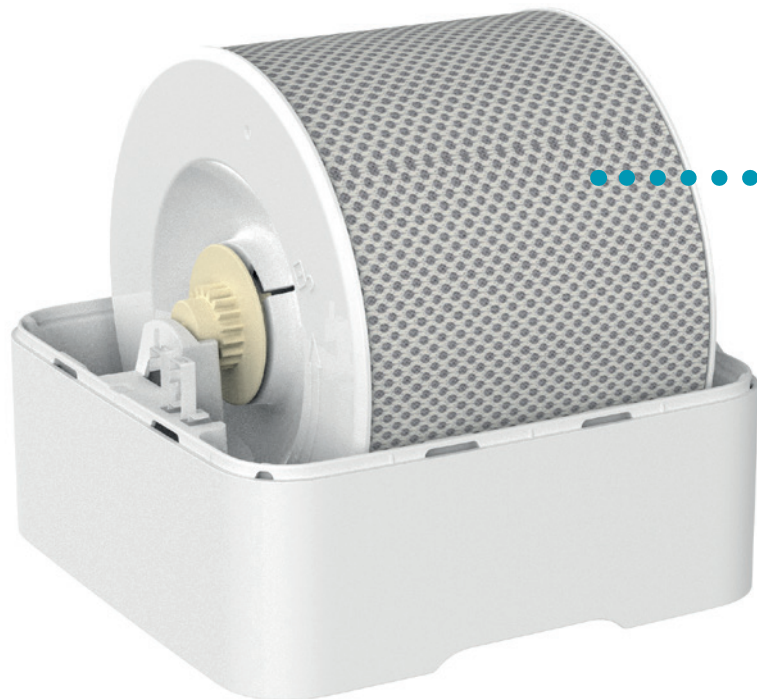


Disinfects surfaces from viruses and bacteria

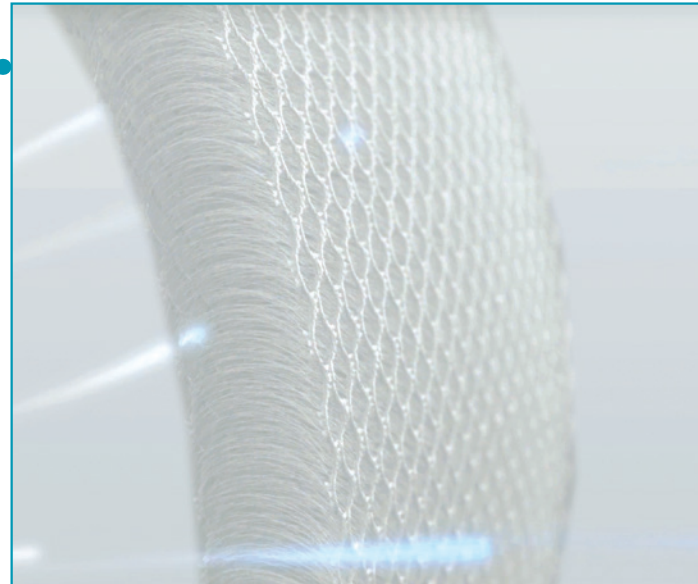
Disinfects air from viruses and bacteria



The BONECO Evaporator Mat technology humidifies the room air and releases the BONECO CLEAN & PROTECT into the room air.

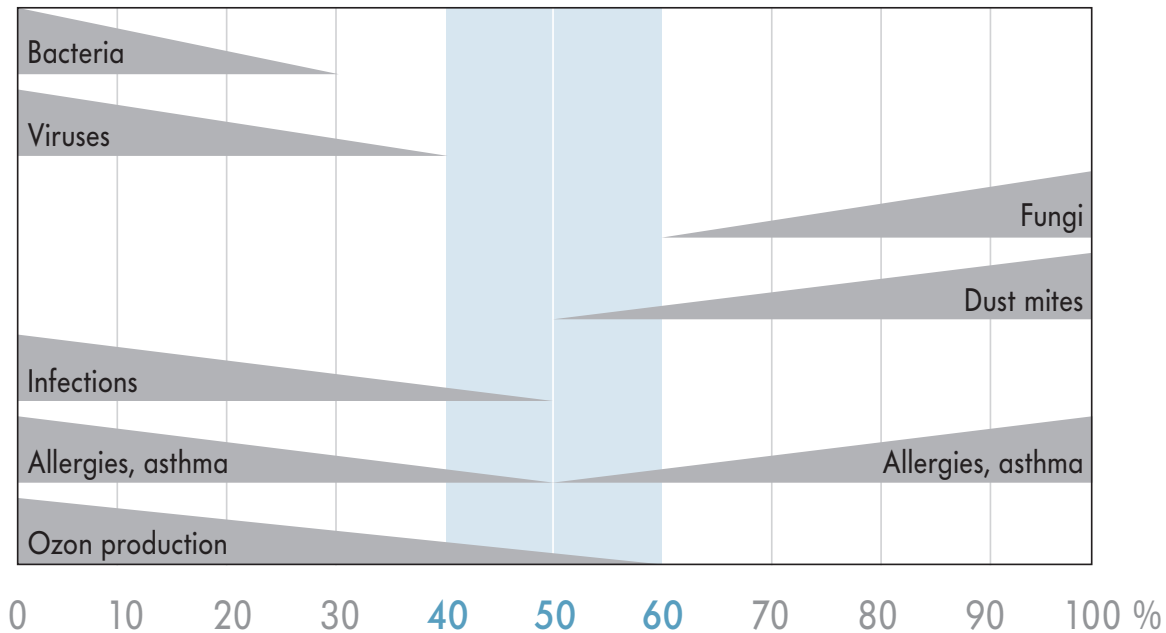


Humidification and disinfection



Humidified air
+
Sanitized air
+
Purified air
=
**Best indoor air
quality**

Relative humidity



A study by the Center for Disease Control and Prevention (CDC) shows: At a humidity level of 20 percent, infectious viruses remain suspended in the room for four to five hours after coughing.

Between 40 and 60% humidity, the viruses floating time reduces up to 80%.

Schwächt sich das Virus im Sommer ab?

SARS-CoV-2 ist ein neuer Erreger, doch zeigt er vor allem mit Erkältungs- und Grippeviren bestimmte Gemeinsamkeiten: Es sind Atemwegsinfektionen, die über direkten Kontakt mit Erkrankten oder über Tröpfcheninfektion weitergegeben werden.

Die Übertragung über Wassertröpfchen in der Luft ist sehr wahrscheinlich auch die Ursache dafür, dass Grippewellen im Sommer abflauen. Denn: Beim Niesen und Husten entstehen relativ große Tropfen, in denen Viren normalerweise nicht weit kommen. Doch nicht alle Experten sind davon überzeugt.

Wenn die Luft allerdings sehr trocken ist, zum Beispiel in beheizten Räumen im Winter, verdunstet das Wasser sehr schnell. Übrig bleiben winzige Tröpfchen, die als Infektionsherde über längere Zeit in der Luft schweben können. Eine Studie des Centers for Disease Control and Prevention (CDC) zeigt: Bei einer Luftfeuchtigkeit von 20 Prozent schweben infektiöse Viren noch vier bis fünf Stunden nach dem Husten im Raum.

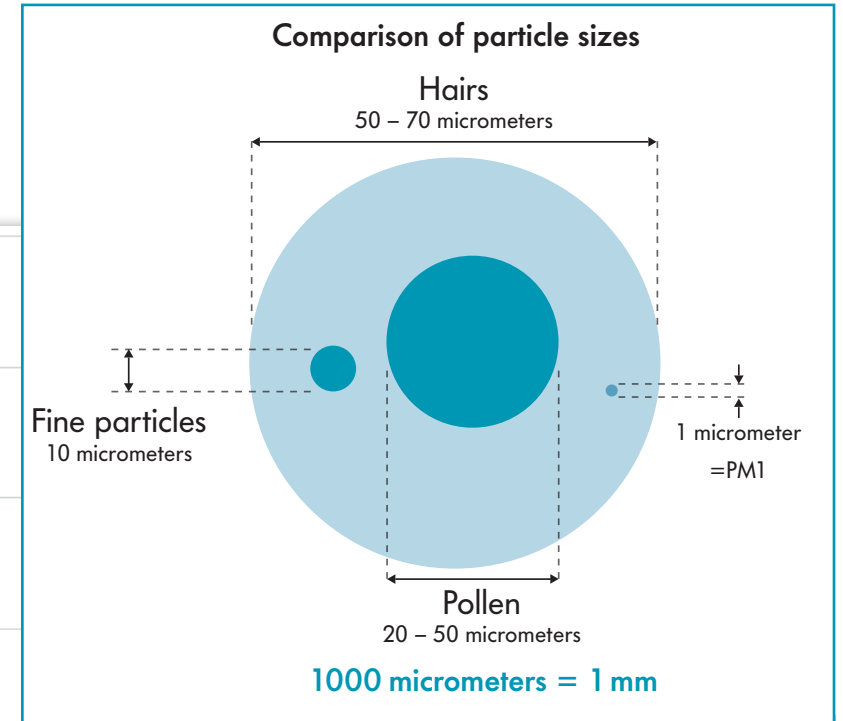
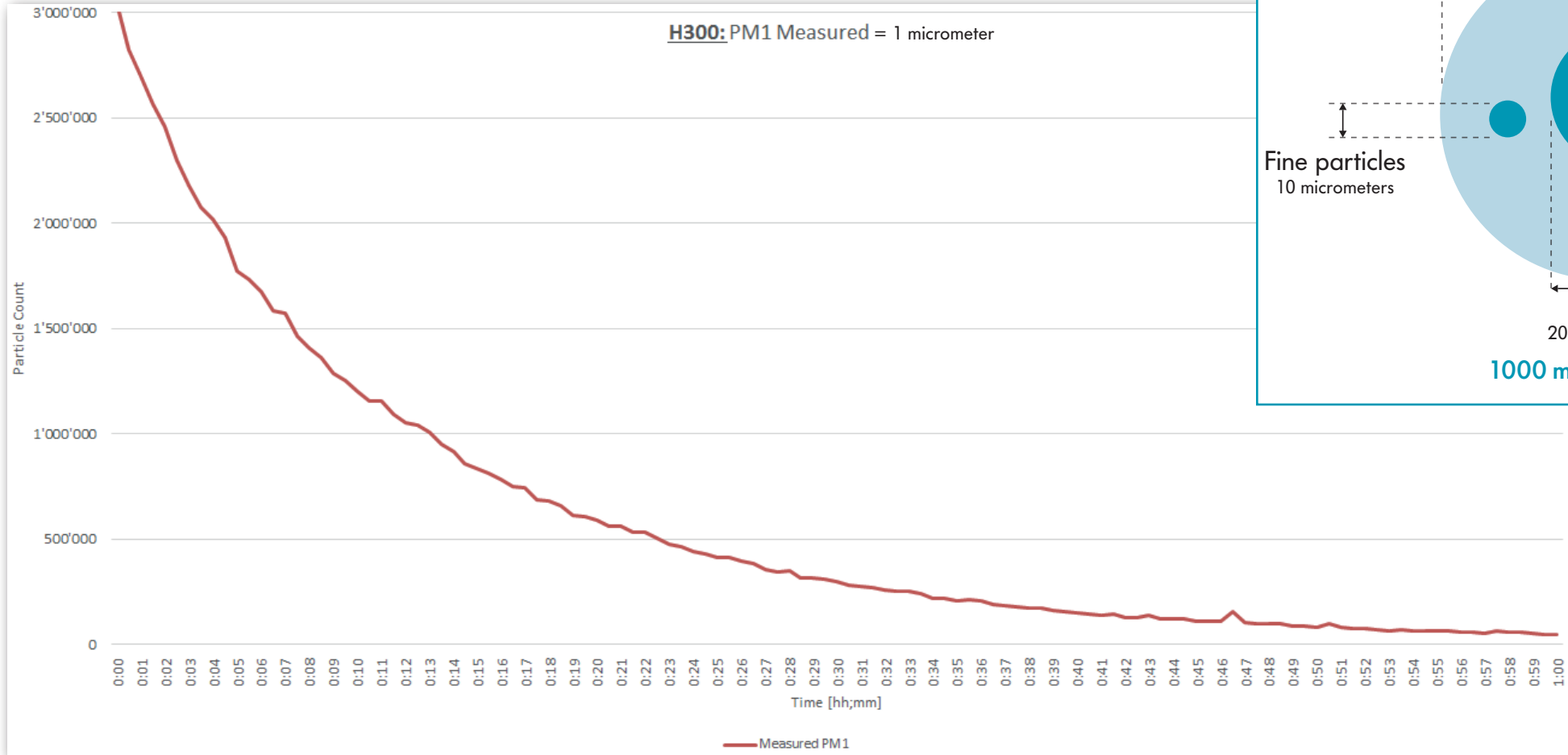
Prognose schwierig, Infektionsrate könnte hoch bleiben

"Aufgrund der ähnlichen Infektionswege mit Grippe- und Erkältungsviren gehen möglicherweise auch die Infektionen durch den Coronavirus im Sommer zurück", sagt Luka Cicin-Sain, Virologe am Helmholtzzentrum für Infektionsforschung.

Gleichzeitig unterscheidet sich die saisonale Grippe in einem bedeutenden Punkt von SARS-CoV-2. "Die Bevölkerung besitzt noch über keinerlei Grundimmunität gegen den neuen Erreger", erklärt Cicin-Sain. Das treibe die Infektionsrate wiederum in die Höhe, im Winter wie im Sommer. "Wir haben hier ein grundsätzlich anderes Szenario als bei der Influenza und

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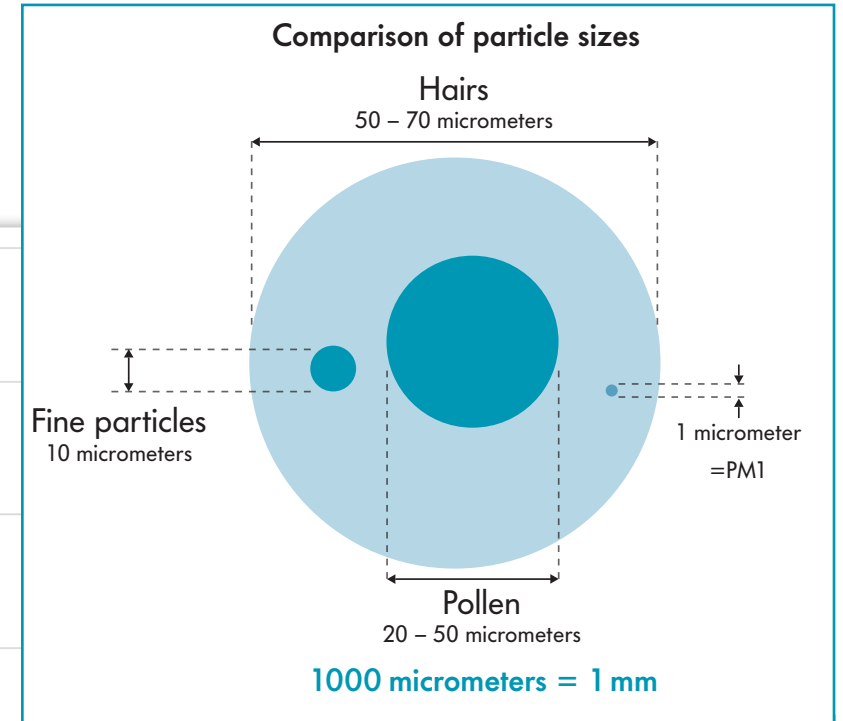
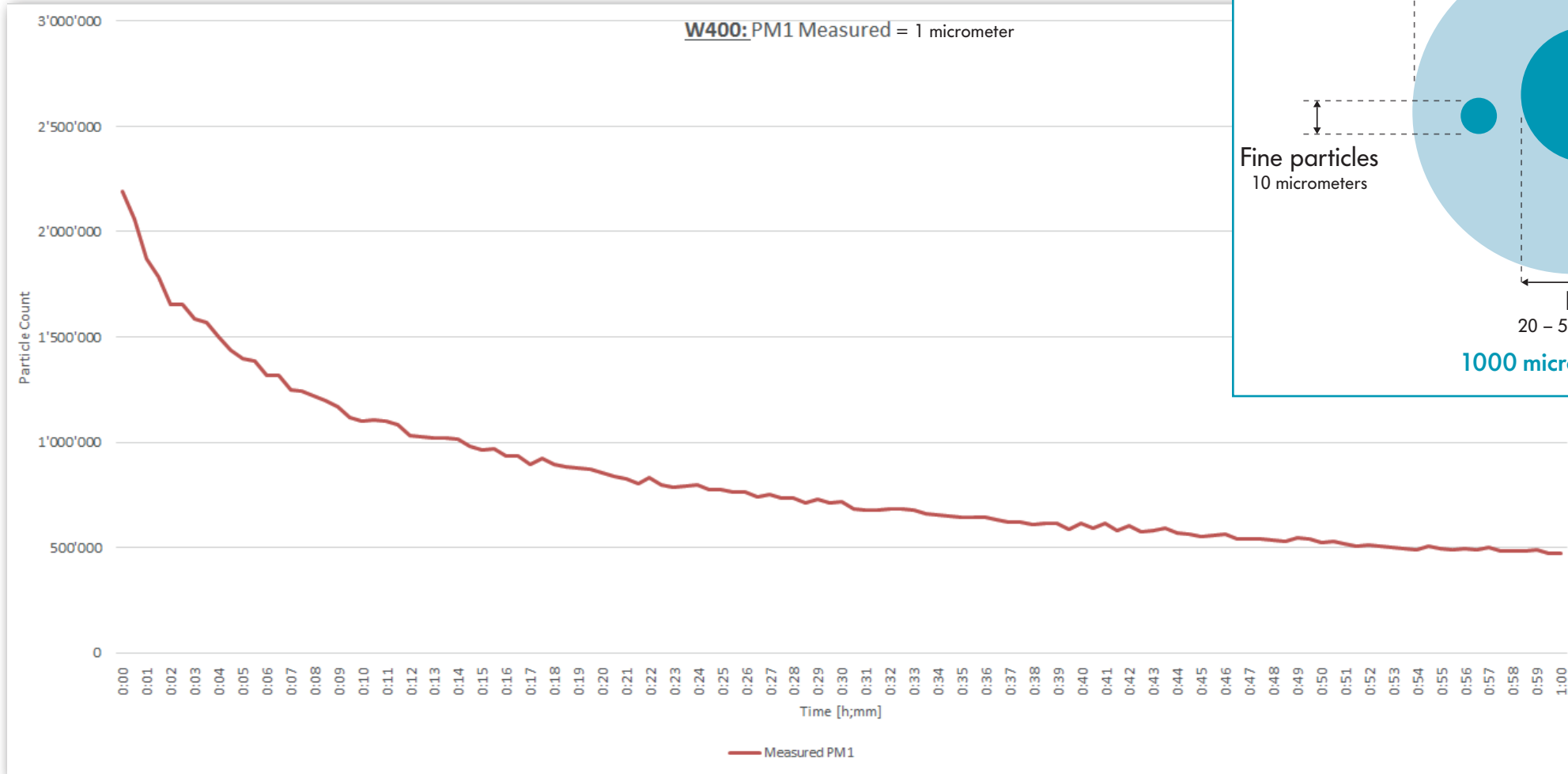


Air purification performance
Besides humidification and disinfection, the H300 cleans up to 98.5 percent of PM1 particles in your room.

Based on test report 1002-19-WW-19-PB001 from SLG

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Air purification performance

Besides humidification and disinfection, the W400 cleans up to 80 percent of PM1 particles in your room.

Based on test report 1036-19-WW-19-PB001 from SLG

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BENEFITS



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Benefits:

- Dermatest: EXCELLENT
- Contains no alcohol and surfactant
- Disinfection based on sea salt
- Effective in 30 seconds
- No fragrances or preservatives
- Non-toxic, non-flammable, and non-caustic
- Does not contain any dangerous components to be named (SVHC list)
- Dosing cap 50 ml included
- Shelf life 12 months after opening
- Easy and safe handling



With the addition of 10 ml per liter
BONECO CLEAN & PROTECT, the
maximum cost is 1 Euro per day.

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SQUARE BOTTLE WITH DOSING CAP



BONECO CLEAN & PROTECT

Designation	Square bottle E 1000/40 OV
Nominal volume	1,0 l
Colour	nature
Material	HDPE
Weight	50 g
Approval for hazardous goods	none
Length outside	89.0 mm
Depth outside	69.0 mm

External height	222.0 mm
Estuary	40.0 mm
Filling opening	32.0 mm
Thread type	OV 40
Originality	Grid ring on lock
Accessories	Dosing cap 50 ml included
Closures	ø 40 mm OV fitting with foam insert

HYBRID Humidifier & Air Purifier



Humidifier Air Washer



Perfect humidified,
sanitized and
cleaned air

Please follow all the instructions of hand hygiene, keeping distance, ... and the guidelines of your government.

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LANGUAGE VARIATIONS BOTTLE LABELS



BONECO CLEAN & PROTECT

Version 1:

The following languages are created as standard languages and labelled by BONECO.

	Languages front side	Languages back side
1	English	French
2	German	French
3	English	Russian
4	English	Chinese

Version 2:

The front is in English, the back must be labelled in the respective national language.

	Languages front side	Languages back side
1	English	Self-labelled

Current minimum order quantities version 1 and 2:

1 pallet = approx. 500 litres
BONECO CLEAN & PROTECT

Variant 2 backside labelled | from minimum order quantity 500 litres | additional costs per litre €0.4

Version 3:

From a certain order quantity, BONECO creates a new language version, including labelling.

	Languages front side	Languages back side
1	On demand	On demand

Current minimum order quantity version 3:

6 paletts = approx. 3000 litres
BONECO CLEAN & PROTECT

Languages on demand for self-labelling:

Italian	Portuguese	Swedish	Norwegian	Lithuanian	Slovenian	Japanese
Dutch	Hungarian	Finnish	Estonian	Czech	Croatian	Korean
Spanish	Polish	Danish	Latvian	Slovak	Greek	Vietnamese

According to current knowledge, BONECO CLEAN & PROTECT may be sold in Europe with the German approval.

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FUTURE ORIENTATION



PHASE IN



Available in 4 weeks after receiving your order. Depending on the availability of the bottle.
Additional sizes in planning, deadline pending.

BONECO CLEAN & PROTECT

Integration of BONECO CLEAN & PROTECT to the NEW Air Purifier Edition P5X0

Launch in Autumn 2020

- Additional products are in the pipeline
- Further information will follow

