

RENSAIR

Hospital-grade
air purification
made portable



- PURPOSE

Our purpose is to protect and enhance lives through clean air

In the context of the Coronavirus pandemic, air purification has never been more important.

Our mission is to get your organisation back on its feet, by making it a safer environment - for employees and customers. We destroy a minimum of 99.97% of airborne viruses, providing clean air for every person.

Like pure water from the tap, or hygienic food from the shops, people expect clean air in buildings and shared spaces. It's a human right.

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– RENSAIR GROUP: AN OVERVIEW

○ Clean air has never been more important

SARS, MERS and now Covid-19 have shown the huge impact of not having the right air quality procedures in place.

The World Health Organisation's latest advice places far greater emphasis on Covid transmission from inhaled airborne droplets (aerosols), rather than from touching contaminated surfaces.

○ Rensair delivers the highest possible air standards

Our unit's patented technology uses the most advanced H13 HEPA filter and UVC combination and is 99.97% effective. Its efficacy is documented by several independent scientific laboratories.

Its powerful fan ensures efficient air circulation, providing clean air throughout the room, as tested by Norconsult.

○ Research and Data

Over many years, we have gained extensive experience in working with hospitals and gleaned deep knowledge from numerous scientific articles and webinars.

Our advice is based on verifiable data, research and experience, which is made freely available to clients to ensure their decision making is well informed.

○ Full Service

Rensair provides tailor made air purification solutions as well as risk mitigation strategies against Covid19 airborne transmission.

All projects take into account a client's particular location, floor plan, existing ventilation systems and premises usage. Although the product is very low maintenance, we can arrange service contracts if required.

○ Trusted technology

The Rensair air purifier was developed by Henrik Hendriksen, a highly experienced Danish ventilation engineer, 18 years ago. It was originally developed with Scandinavian hospitals, to meet their strict air quality requirements.

It has since been adopted by doctor and dental practices, care homes and hospitals worldwide.

○ Rensair distributes to more than 15 countries in 4 continents

Rensair has expanded our operations to meet commercial demand driven by Covid-19. We have operations in Europe, North America, and Asia.

Since the onset of the Covid pandemic, we have provided air purification solutions to multinationals, manufacturers, educational establishments, and the hospitality sector.



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- COVID-19: PRESS

The New York Times

Why opening windows is a key to reopening schools

TIME

Covid-19 is transmitted through aerosols. We have enough evidence, now it is time to act

FT FINANCIAL TIMES

An airborne virus is a threat worth taking seriously

theguardian

Understanding 'aerosol transmission' could be the key to controlling coronavirus

THE TIMES

Airborne coronavirus can linger for hours indoors

The Telegraph

What we know about how Covid is spread – and what we can do to stop it

El País

A room, a bar and a classroom: how the coronavirus is spread through the air

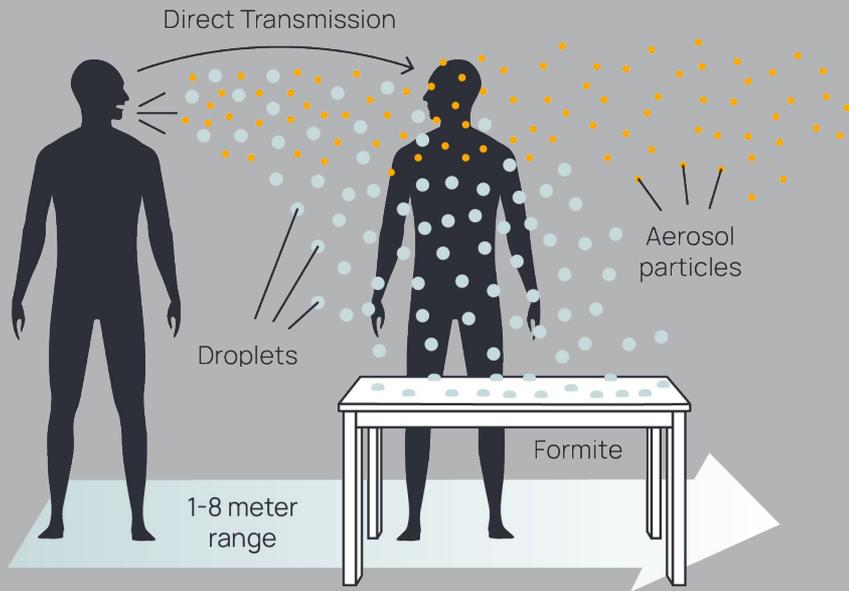
BBC

Coronavirus: WHO rethinking how Covid-19 spreads in the air

THE WALL STREET JOURNAL

CDC acknowledges Covid-19 can spread via tiny air particles

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Fomites

- Objects or materials which are likely to carry infection, such as clothes, utensils, and furniture.
- Generally assumed that Covid-19 can be caught by touching virus infected fomites/surfaces.
- Many scientific research papers cast doubt about fomite Covid-19 transmission between humans.
- The WHO now notes that "Despite consistent evidence as to SARS CoV-2 contamination of surfaces and the survival of the virus on certain surfaces, there are *no specific reports which have directly demonstrated fomite transmission*".²
- In conclusion, the WHO, CDC³ and scientific research⁴ all suggest that the risk of Covid-19 transmission through fomites is very low.

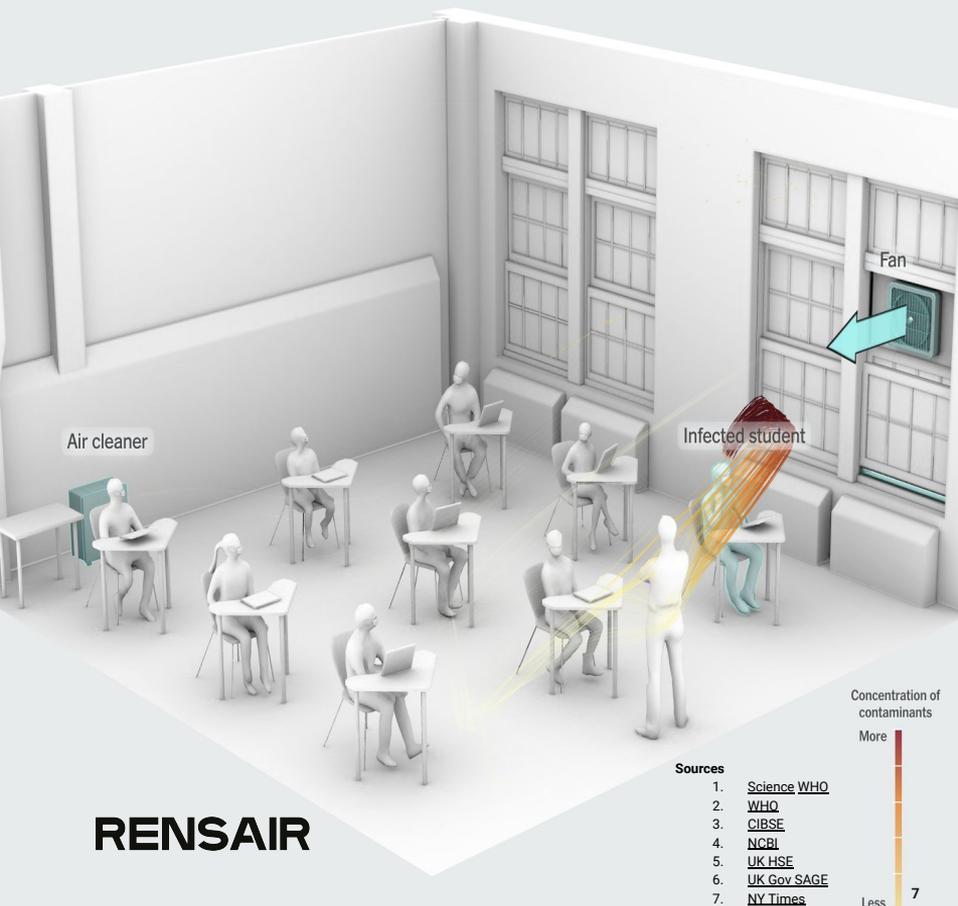
Large Droplets⁵

- Fall quickly to a surface, but can be inhaled.
- Direct inhalation leads to infection and illness.

Small Droplets (Aerosol Particles)⁵

- Can remain suspended in the air for hours and are inhaled.
- Aerosols can travel long distances.⁶
- Smaller particles penetrate into the lung, causing more serious illness.

- COVID-19: RISK MITIGATION STRATEGIES: SARS COV-2



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Large Droplets

- The WHO and UK Government recommend maintaining a “safe distance” and mask wearing.
- The “safe distance” policy is to ensure that people are not in a range of any falling large infected droplets.
- Mask wearing prevents infected people spreading large droplets and for healthy people to not inhale droplets.¹

Small Droplets (Aerosol Particles)

- The WHO recommends enhanced ventilation, bringing outside clean air indoors. If that ventilation cannot be achieved, the WHO recommends the use of HEPA air filtration machines.²
- The WHO and UK Government guidelines stipulate that good indoor ventilation is achieved by providing 10 litres of fresh air per second per person (l/s/p), equivalent to 36 cubic meters per person per hour.³
- The UK HSE and SAGE committee recommend that where enhanced ventilation of external fresh air is not possible, to use air purifiers that utilise HEPA filters and/or UVC light.^{4, 5, 6}
- The UK SAGE Committee disapproves of other unproven technologies for air purification purposes, including those that use plasma, ionisers, ozone generators and chemical “foggers”.
- Strong recommendations are made that only air purifiers with independent testing should be considered for Covid risk mitigation strategies.
- The Healthcare Industry works on different standards, achieving minimum required “Air Changes per Hour” (ACH).

Science MAGAZINE

Researchers call for a paradigm shift to combat indoor respiratory infection

(May 14, 2021).

"We expect to have clean water from the taps. We expect to have clean, safe food when we buy it in the supermarket. In the same way, we should expect clean air in our buildings and any shared spaces."

The Economist

Indoor-air quality has attracted little government attention. But achieving clean, pathogen-free air in buildings and indoor public spaces is possible.

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NASA

HEPA filters are most efficient - almost 100% at 0.01 micron - at capturing ultrafine particles below the 0.3-micron HEPA test standard.

(May 1, 2016)

SARS-CoV-2 virion is spherical shaped, approximately 50 - 200 (average 125) nanometers (0.125 microns) in diameter.

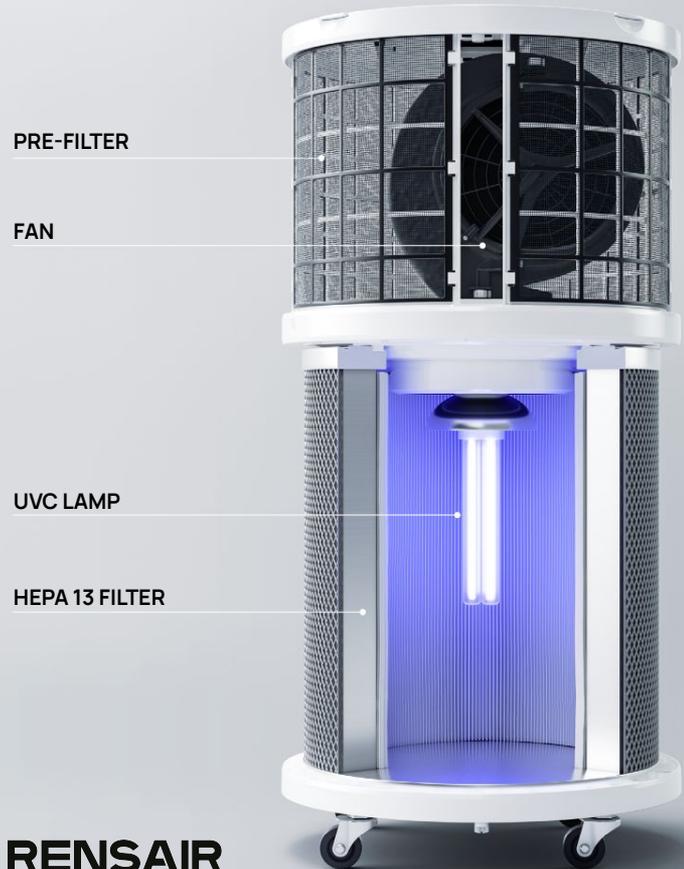
(Gastroenterology Research, June 13, 2020)



UV-C light is effective for killing COVID-19 on N95s.

(Sept 22, 2020)

- A CLEAN AIR SOLUTION



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A collaborative approach

Rensair works with clients to develop excellent air quality environments that meet building regulations, as well as government recommendations to mitigate the risks of Covid airborne transmission.

Air quality solutions utilise Rensair's portable hospital-grade air purifiers, which are simple to install and "plug and play".

In determining a solution for a client, Rensair takes into account a location's existing ventilation, occupancy, size and use of different spaces. We provide air purification calculations and advice on where to place units.

Clients receive key information about air quality, airborne disease transmission risks and full training on Rensair technology.

A product that traps and destroys

The Rensair air purifier consists of a germicidal ozone free UVC lamp placed in the centre of a cylindrical high quality H13 HEPA filter, to not only capture but also inactivate viruses and bacteria trapped on the filter surface.

The constant UVC illumination of the entire filtration area ensures a continuous disinfection process, resulting in a safer product to operate and maintain.

The Rensair air purifier is fully portable, quick and easy to install, operate and maintain, not requiring any specialist maintenance personnel.

The effectiveness of the Rensair air purifier is documented by independent laboratories including Eurofins Scientific, Norconsult, Oslo University Hospital and the Danish Technological Institute.

Airflow is critical for effective Air Purification

AIR ENTERS AT THE TOP OF THE UNIT

FEATURES

Air enters at 360 degrees at the top of unit. After passing through pre-filters, a powerful fan pushes it down into the cylinder-shaped H13 HEPA filter below.

BENEFITS

It is critical not to suck air from the bottom of the unit, as air close to the floor is considered "dirty" and this will reduce the lifespan of the filter. Furthermore, bringing air in at the top improves a room's air circulation, a necessary requirement to clean all the air in a shared space.

HIGH STATIC AIR PRESSURE

FEATURES

The effect of forcing air into the chamber creates high air pressure inside the cylinder.

BENEFITS

The high static pressure in the cylinder forces air effectively out through the dense H13 HEPA filter. By "pushing" air out through the filter, the unit achieves far higher air volumes and consumes less energy, compared to "sucking" air through the filter. Rensair uses a robust centrifugal fan, which creates much higher pressure than axial fans commonly used in other air purifiers.

Airflow, filtration & UVC work in unison to trap & destroy

H13 HEPA FILTER

FEATURES

The surface area of the H13 HEPA filter is 4m². Viruses, bacteria and other airborne microorganisms are trapped as they hit the pleated surface of the H13 HEPA filter. The continued air flow keeps the microorganisms stuck on the filter surface.

BENEFITS

The H13 HEPA filter traps more than 99.97% of viruses, bacteria and other airborne pollutants. Because of the large filter surface area, the machine creates no draft of exhaled purified air. This allows for purification of all the air in the entire room, rather than just the air around and close to the machine.

UVC LAMP

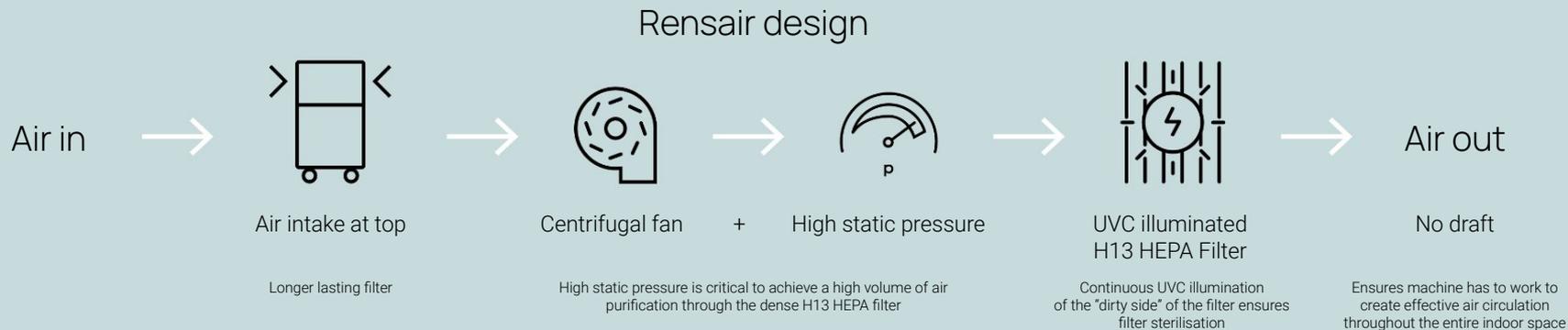
FEATURES

A 18W UVC lamp is suspended in the centre of the cylinder, permanently illuminating the entire H13 HEPA filter surface.

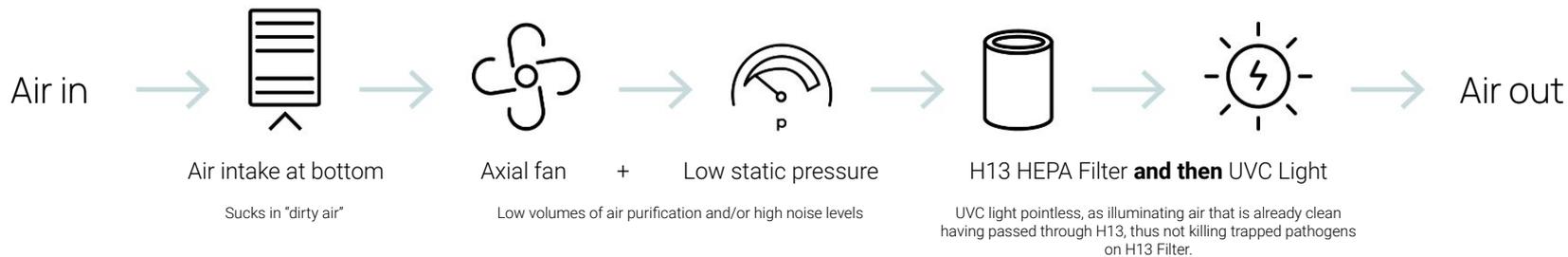
BENEFITS

The illumination of the H13 HEPA filter with UVC light ensures continuous and complete disinfection of the surface of the H13 HEPA filter, destroying the DNA and RNA in any pathogens, wherever they are trapped. This allows for safe operation and maintenance of the unit. 'Fly-by-kill' products do not subject viruses to UVC light long enough to guarantee inactivation, because they are moving targets.

- SUMMARY: BENEFITS OF THE RENSAIR PATENTED TECHNOLOGY



Common competitor design



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- GENERATING AN AIR PURIFICATION SOLUTION: INPUTS

Air Quality Requirements

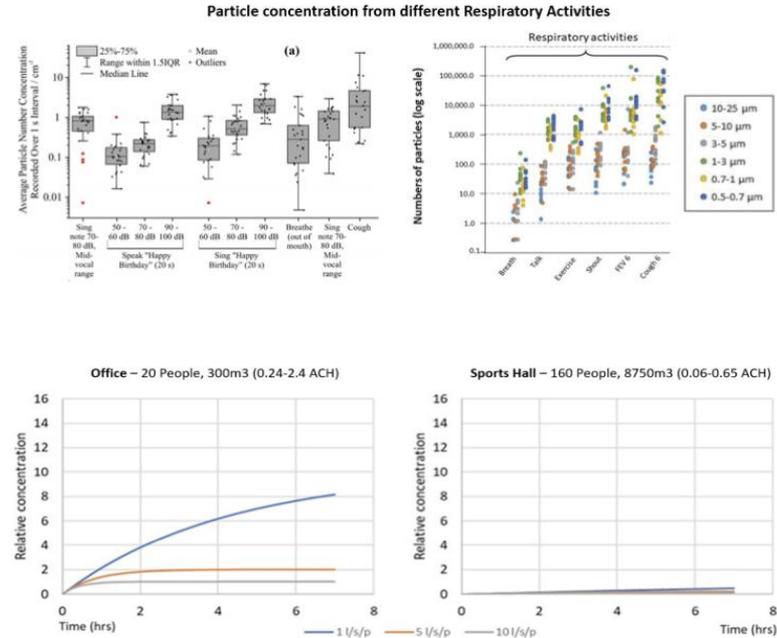
Define a good air quality standard as part of a Covid-19 airborne transmission risk mitigation strategy.

Location

Understand a location's rooms, its uses and occupancy rates, as well as its measurements.

Examine floor plans with client.

Obtain information on existing ventilation rates per space (HVAC, supply, extractor).



- GENERATING AN AIR PURIFICATION SOLUTION: OUTPUT
(i) COMMERCIAL SPACES

Solution

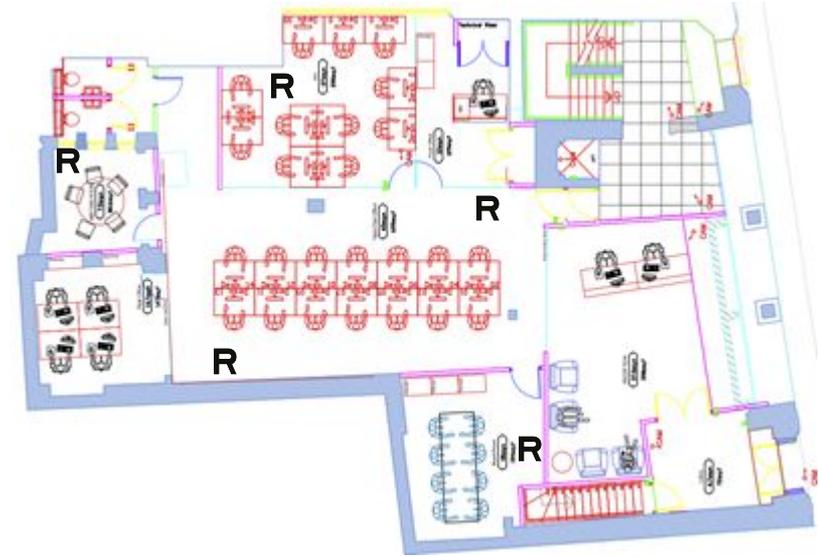
Calculate required ventilation rates for each room to meet air quality requirements, taking into account

- occupancy
- room size
- noise tolerance
- existing ventilation rates

Present a solution with Rensair units (together with floor map installation where possible).

Provide a detailed quote with shipping schedule (units are normally delivered within 48 hours).

Explain installation, operation and maintenance in full detail.



Required Ventilation		36 m ³ /person/hour				Units Required and ACH					
Existing ACH		4 ACH				A		B		C	
Room (Metres)	Area (m ²)	Volume (m ³)	# of Occupants	Required Room ACH	Required Purification ACH	Low 300m ³ /50db		Medium 430m ³ /60db		High 560m ³ /67db	
						Units	ACH	Units	ACH	Units	ACH
Meeting Room	8	22	5	8.3	4.3	1	13.9	1	19.9	1	25.9
Rear Office	14	38	4	3.8	-	-	-	-	-	-	-
Open Plan Office	14	38	15	14.3	10.3	2	15.9	1	11.4	1	14.8
Side Office	27	73	11	5.4	1.4	1	4.1	1	5.9	1	7.7
Board Room	18	49	8	5.9	1.9	1	6.2	1	8.8	1	11.5
Reception	37	100	5	1.8	-	-	-	-	-	-	-

**- GENERATING AN AIR PURIFICATION SOLUTION: OUTPUT
(ii) HEALTHCARE SPACES**

Calculate units required to achieve required Air Changes Per Hour (ACH):

- Obtain the room's measurements to calculate its volume.
- Discuss ACH requirement (see table with examples).
- Decide the fan setting based on noise tolerance and type of room and its use.
- Calculate the number of Rensair units required.

The ACH provided by an air purifier is cumulative to that provided by natural or mechanical ventilation.

ACH Changes per Hour (ACH) : the amount of

- Outside fresh air that is introduced into a room in 1 hour OR
- the volume of a room's air that is purified in 1 hour in relation to the volume of the room.

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Air Changes Per Hour	
1	Minimum
6	Hospital Ward
8	ICU
10	Dentists/AGPs
25	Operating Theatre

Rensair airflow volume	Cubic metres (m3) / hour	Noise level	Power usage
Low setting	300	45 dBA	160 W
Medium setting	430	52 dBA	180 W
High setting	560	59 dBA	220 W

Room Size	Metres
Length	5.0
Width	4.0
Height (if empty, assumes 2.7m)	2.7
Airflow setting (default is Low)	Low setting
Room size, cubic metres (m3)	54

Client Requirement

Room Air Changes/Hour Required **8 ACH**

Client Solution

Number of Rensair units required to get minimum 8 ACH on Low setting **2 Units**

Air changes per hour from 2 Rensair Unit on Low setting **11.1 ACH**

Time between air changes **5 minutes**

$$\text{Air Change per Hour} = \frac{\text{Volume of Fresh Air being Introduced (or being Purified) in 60 minutes}}{\text{Volume of the Room}} \quad \text{e.g. } 3\text{ACH} = \frac{300\text{M}^3/\text{Hour}}{100\text{m}^3}$$

- SAFETY & MAINTENANCE

Safe and Simple

- The HEPA filter becomes loaded with contaminated particles.
- Constant illumination of the HEPA filter by UVC light ensures the destruction of all live bacteria or viruses trapped on the filter.
- Rendered safe, no specialist staff are required for maintenance.
- The Rensair air purifier will run for 9000 hours (~1 year) before the HEPA 13 filter and UVC lamp need to be replaced.
- A 'service indicator' on the display panel on the unit will automatically alert when the parts need to be replaced.
- Changing the HEPA 13 filter and UVC lamp is straightforward and can be undertaken in five minutes.
- Instructions on how to change the filter and lamp are included in the replacement part box.

9000 Hours		
Hours (per day)	Days (per week)	Replace after (years)
24	7	1
12	6	2.4
12	5	2.9

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- SUMMARY: A CLEAN AIR SOLUTION



HOSPITAL-GRADE TECHNOLOGY

HEPA 13 filter and ozone free light



TESTED BY INDEPENDENT LABORATORIES

Documented effectiveness



PATENTED SOLUTION

Unique system delivers industry-leading effectiveness



EASY TO USE

No installation required, simply plug it in



LARGE CLEANING CAPACITY

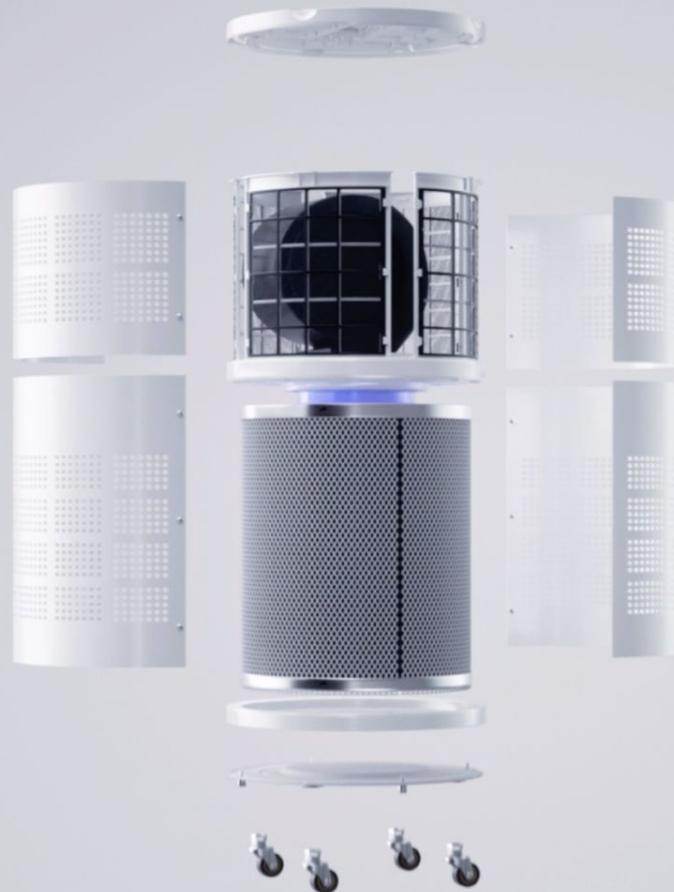
Cleans 560m³/hour (20,00ft³/hour)



LOW & SAFE MAINTENANCE

9,000 hour (~1 year) continuous run time

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- NEWSWEEK AWARD

Rensair has been included in Newsweek's list of Best Infection Prevention Products 2021.

Newsweek, in partnership with the Leapfrog Group, an independent nonprofit that evaluates health care quality, compiles and publishes an ongoing series of ratings for healthcare facilities and products.

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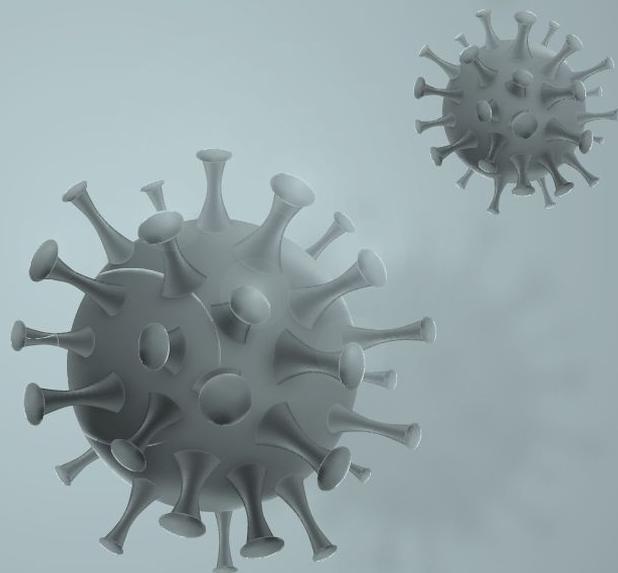


To make the list, a selection committee evaluated the product using four criteria: effectiveness, safety (to both patients and healthcare workers), successful real-world implementation and the stability of the company (to support future implementations).

Leapfrog also evaluated the quality of research studies demonstrating the product's effectiveness by looking at reproducibility, closeness between lab data/results and real-world application of the data/results, and closeness of fit between the choice of test or method of testing and what was being tested for.

- APPENDICES

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– APPENDIX A: VALIDATION OF RENSAIR UNITS



The report on Rensair by **Eurofins**, widely considered one of the leading laboratories in the world, states:

“The test of the air cleaner’s excretory degree (efficiency) indicates excretory degrees of 99.89% and 99.96% for 0.3 microns and 0.5 microns, respectively”

“Germ counts indicate that the air cleaner efficiently removes microorganisms from the air.”



The **Oslo University Hospital** independent statement concludes:

“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.”



The **Norconsult** report highlights that the Rensair unit is efficient at creating full air circulation in a room:

“The results show that the air purifier, on its own, cleans the air almost equally efficiently at two selected measuring points in the 93m³ test room and is **thus little affected by placement.**”

“In a ventilated room (i.e. room with an HVAC system running), the air purifier will also be able to get help from the ventilation system to create full circulation and thus removes particles more efficiently.”



The two reports from the **Danish Technological Institute** demonstrate that:

“Rensair removed 99.98% of the airborne virus in room after the first measurement, and no detection in the air after 2nd measurement”, and

“No virus can be detected on the filter surface after test 1” - i.e. the UVC light has effectively inactivated the virus captured.”

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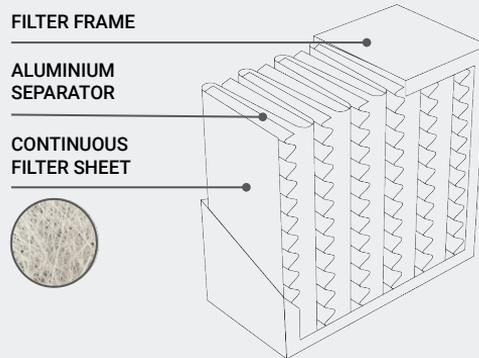
- APPENDIX B: HEPA FILTER AND UVC LIGHT TECHNOLOGY

HEPA Filter

- A High-Efficiency Particulate Air (HEPA) Filter is composed of a mat of randomly arranged fibres, with diameters between 0.5 and 2.0 microns (μm)
- Must satisfy certain levels of filtration efficiency.
- Common standards require that a HEPA H13 air filter must remove (from the air that passes through it) at least 99.95% of particles whose diameter are equal to 0.3 micron.
- Filtration efficiency increase for particle diameters both less than and greater than 0.3 microns.
- HEPA captures pollen, dirt, dust, moisture, bacteria (0.2-2.0 micron), virus (0.02-0.3 micron), and submicron liquid aerosol (0.02-0.5 microns).

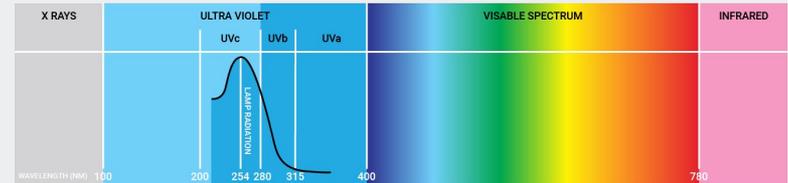


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UVC

- UV is divided into three types with reducing wavelengths and increasing energy. They are UVA, UVB and UVC. For UV sterilization, only UVC (200-280nm) has high enough energy to effectively kill microorganisms. Germicidal UVC is UVC at 254nm.
- Short- wavelength ultraviolet (or UVC) light is used to kill or inactivate microorganisms by destroying nucleic acids and disrupting their DNA.
- This leaves microorganisms unable to perform vital cellular functions.
- UVC is used in a variety of applications, such as food, air, and water purification.



- APPENDIX C: NOISE LEVELS

Nowadays, most offices are open plan.

Many companies actually pay for sound masking machines that deliberately add unobtrusive background noise to manipulate the acoustics in the room and block sound travel.

The manufactured noise is similar to airflow, so the Rensair unit is effectively doing two jobs.

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Quietly efficient

To measure noise levels we use the dBA scale, which reflects what the human ear actually hears:

- ***LOW** setting = 45dBA, an even white noise, equivalent to the recommended white noise level limit for an infant sleep machine. On a Sound Pressure Level (SPL) metre, it sits between 'quiet whisper' and 'quiet home'.
- ***MEDIUM** setting = 52dBA, equivalent to a 'quiet home' on the SPL metre.
- ***HIGH** setting = 59dBA, equivalent to a 'quiet street' on the SPL metre, which is fine for a lively place like a restaurant or pub with some background music present.

- APPENDIX D: FEATURE & PRICE COMPARISON

	HOSPITAL-GRADE			COMMERCIAL		RESIDENTIAL			NOTES
	RENSAIR	MODEL A	MODEL B	MODEL C	MODEL D	MODEL E	MODEL F	MODEL G	
Removes large airborne particles	✓	✓	✓	✓	✓	✓	✓	✓	>PM10
Removes small airborne particles	✓	✓	✓	✓	✓	✓	✓		<PM2.5
Large air flow capacity	✓	✓	✓	✓	✓	✓	✓		>300 ft ³ per minute / 510 m ³ per hour
Uses recommended technology	✓	✓			✓	✓	✓		Technology follows WHO, US CDC, UK SAGE committee recommendations
Independent scientific validation	✓	✓	✓						Laboratory tested to confirm efficiency against airborne pathogens
Claims to eradicate airborne pathogens	✓	✓	✓	✓					Utilises HEPA filtration and technology to eradicate pathogens
Successfully eradicates filtered pathogens	✓								Well engineered and laboratory tested to confirm eradication rather than just trapping pathogens
Creates full room air circulation	✓								Documentation to confirm ability to create full air circulation in a room
Fully portable	✓	✓						✓	On wheels or easy to move
Long filter life time	✓						✓		1 year+
Safe maintenance	✓								No PPE requirement due to documentation supporting sterilisation of filter
Price	£2,200	£5,000 - £11,000		£1,500 - £3,000		£300 - £1,500			Prices as at June 2021

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-APPENDIX E: FEATURES TO AVOID IN AIR PURIFIERS

WHAT TO AVOID	WHY TO AVOID IT
X Air intake at the foot of the unit.	It is best practice to take air from the top, away from the dirty zone nearest to the floor.
X Fan positioned after the filter instead of before the filter.	Sucking air through the filter is less effective than pushing it down through the filter. It decreases airflow and increases energy usage.
X Filtration alone, without UVC light.	Although virus and bacteria particles may be trapped, they are still live. That poses a health risk when maintaining the unit.
X UVC light open instead of being totally enclosed.	Can be harmful, causing severe burns (of the skin) and eye injuries (photokeratitis).
X UVC light positioned after the filter, not within the filtration area.	If the filter does its job, then the UVC is redundant. It does not disinfect what is caught in the filter, so the unit is hazardous and requires specialist maintenance.
X 'Fly-by-kill' UVC technique.	If UVC light is targeting particles that are moving, it cannot be guaranteed adequate time to ensure destruction. SARS-CoV-2 requires 67 joules/m ² to be inactivated and some mould and bacteria require significantly higher UVC dosage.
X Unproven technologies. These include catalysis, photocatalysis, plasma, ozonation, hydrogen peroxide, ionizers, reactive oxygen species, and UV disinfectant.	HEPA & UVC, which both capture and inactivate pathogens, are the only technologies recommended by the WHO and UK SAGE committee. Other technologies - primarily additive rather than subtractive - are not only unproven but can cause side effects, such as respiratory problems or skin irritation.
X UVA or UVB in lieu of UVC.	UVC light is short-wavelength ultraviolet light at a wavelength of 200-290 nanometres. It is the only form of ultraviolet light that is classified as germicidal at 254 nanometers.
X No certification.	No certification means suspect quality. Look for EU certification, HEPA EU13, EN 1822 class H13, EN IEC 60335-2-65, US ETL certification
X No wheels/casters.	Portability can be a distinct advantage, moving the unit(s) to where they are needed most depending on room occupancy.
X Ozone generation	Air purifiers that emit ozone can harm cells in the lungs and respiratory airways. Even when used at extremely high, unsafe levels that pose a serious health risk, ozone is only partially effective at cleaning the air.

Clean air enhances productivity

Improved indoor air quality enhances strategic thinking, boosts productivity and has a profound impact on the bottom line

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By sustaining 20% lower air pollution levels in the classroom, the development of a child's working memory can improve by 6% (Philips Foundation and the University of Manchester)

In the USA, poor air quality results in \$150 billion of illness-related costs per year. Of that, \$93 billion represents lost productivity from headaches, fatigue, and irritation associated with sick building syndrome (National Oceanic and Atmospheric Administration)

After cleaning the indoor air, employers have seen workplace productivity increase by up to 11% (World Green Building Council)

A Harvard study showed that, with better air quality, cognitive scores were 61% higher across nine functional domains, including crisis response, strategy, and focused activity level.

- APPENDIX F (contd) - WORKFORCE PRODUCTIVITY



People spend more than 90% of their time indoors



Indoor air quality is 2 to 5 x worse than outdoor quality



Indoor air pollution is ranked as one of the top 5 environmental risks to public health



50% of illnesses are caused by aggravated indoor air pollution

- APPENDIX G: CULTURE & VALUES

Our culture is shaped by pioneer Henrik Hendriksen, whose dedication to indoor air quality and societal welfare endures through his sons, Christian and Frederik, who have now taken the reins at Rensair.

Our beliefs and behaviour are driven by three core values:

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We commit to excellence

We strive for quality in everything we do, from technological innovation to customer care. We aim for the highest standards in protecting health and enhancing wellbeing & productivity.

We act with integrity

We go above and beyond to solve air quality problems and serve the best interests of our customers. Our advice is genuine, transparent and always substantiated by independent validation.

We give back

We are a force for good, actively supporting charitable causes, disadvantaged groups, community programmes and sustainability initiatives. We look after our own people too.

Clean air means quality of life

Our role is to protect and enhance lives by focusing on the indoor environment, where concentrations of pollutants are two to five times higher than outdoors. The by-products of better health are higher energy, improved productivity and heightened cognitive functions, all of which contribute to a better life.

Supporting charities

One of Rensair's core values is that we give back. Any organisation with official charitable status will automatically qualify for heavily discounted pricing, proportional to the number of units required.

Environment

We contribute \$6.50 per tonne of carbon emitted to carbonfund.org in order to fully offset our carbon footprint.

The Rensair air purifier is built to very high standards, with the aim to last a lifetime if properly serviced and maintained. The bulk of materials used to manufacture it – steel, copper and rigid plastic – can be recycled.

The filters can be treated as scrap metal and the fibreglass, rendered harmless, is simply burned off in the aluminium melting process. The UVC lamp bulb can be recycled like any other type of fluorescent bulb.

The Rensair unit uses only 160 - 220W of power, depending on the airflow level. This is equivalent to a modern day fridge-freezer found in most domestic kitchens.

GLOSSARY

Aerosol

A suspension of fine solid or liquid particles in air. An aerosol particle has a diameter typically less than 1 Micron.

Air Changes per Hour (ACH)

The amount of air that is purified in a room relative to the room's total volume. For example, if 3 ACH are achieved by a Rensair unit in a room which has a volume of 100m³, then the Rensair unit will be purifying 300m³ volume of air in 1 hour.

Fomite

Objects, materials or surfaces which are likely to carry infection, such as clothes, utensils, and furniture.

HEPA Filter

High-Efficiency Particulate Air Filter that must satisfy certain levels of filtration efficiency. Common standards require that a HEPA air filter must remove (from the air that passes through it) at least 99.95% of particles whose diameter are equal to 0.3 µm, with the filtration efficiency increasing for particle diameters both less than and greater than 0.3 µm. HEPA captures pollen, dirt, dust, moisture, bacteria (0.2-2.0 micron), virus (0.02-0.3 micron), and submicron liquid aerosol (0.02-0.5 µm).

HSE

The Health and Safety Executive is a UK government agency responsible for the encouragement, regulation and enforcement of workplace health, safety and welfare, and for research into occupational risks in Great Britain.

Micron (symbol: µm)

One thousandth of a millimetre (0.001 mm)

UVC

Short- wavelength ultraviolet (or UVC) light to kill or inactivate microorganisms by destroying nucleic acids and disrupting their DNA, leaving them unable to perform vital cellular functions. UVC is used in a variety of applications, such as food, air, and water purification.

Adequate Ventilation

The WHO, SAGE committee and UK Building regulations recommend 10 litres per second per person is provided in a room (equivalent to 36m³/person/hour).

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