

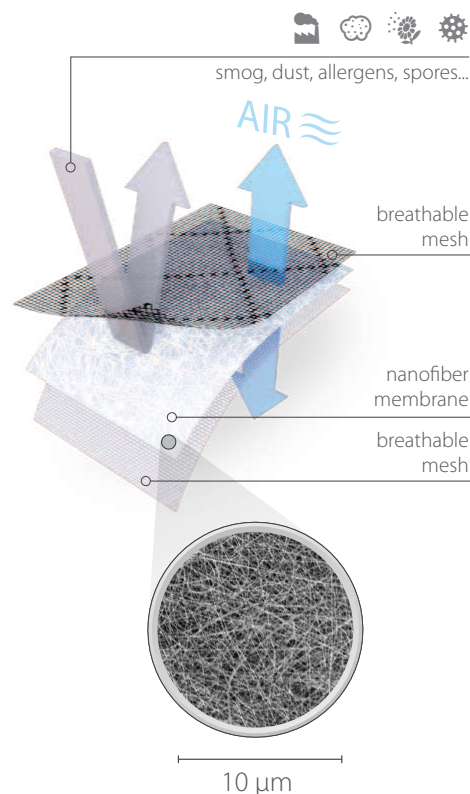
Protect your home from harmful particles



Do you know...

that one in four Americans suffers from allergies or asthma?

Every day 5,000 people from US households that aren't protected from allergens visit emergency rooms.








respilon AIR[®]



LIFE'S WORTH IT

- Nanofiber door and window membrane – a new level of protection against smog, dust, pollen, moulds, microorganisms and rain
- Best solution for allergic people – you can leave your windows open without letting in a single harmful particle
- RESPILON AIR[®] can also shield you from intense sunshine
- The membrane reduces the amount of dust in the interior, which means that you do not need to clean so often
- Practical packaging and service support make installation really easy

www.respilon.com

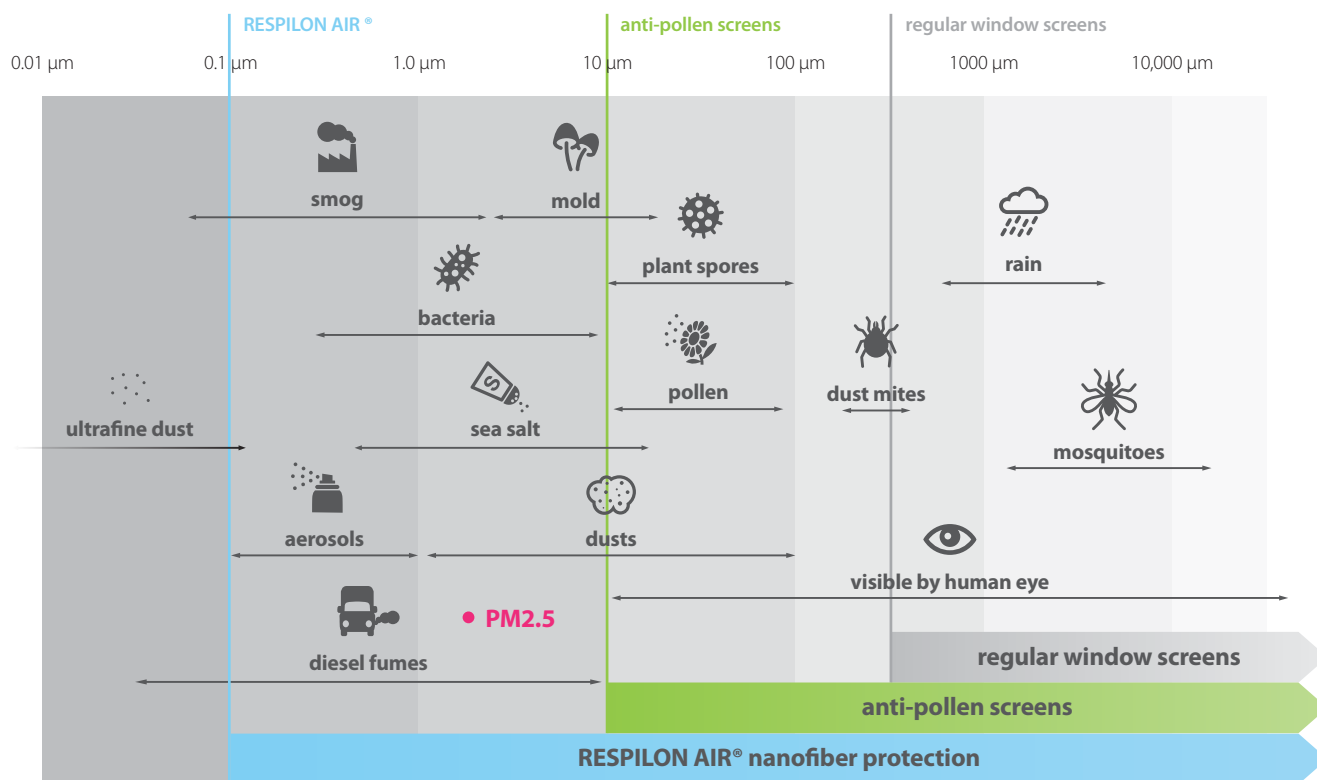
	smog	
	dust	
	allergens	
	sun	



Which particles does nanofiber membrane protect you from?



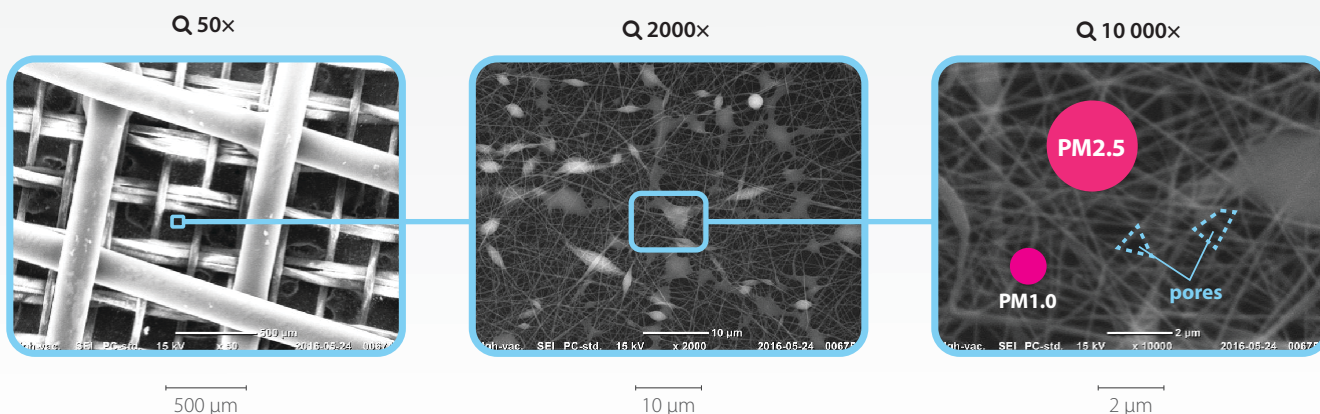
LIFE'S WORTH IT



Source: Aerosol Technology – Properties, Behavior, and Measurement of Airborne Particles. William C. Hinds, 1999.



How does RESPILON AIR® work?



Nanofiber membrane creates a mechanical barrier which prevents the penetration of dangerous particles without using any dangerous chemical substances.

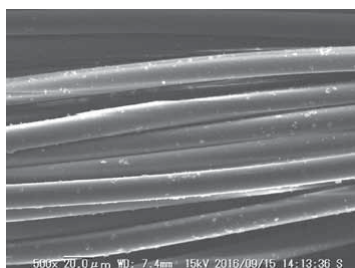


Why choose RESPILON AIR® over anti-pollen screens?

Independent filtration testing

	Leading competitor's anti-pollen screen	Competitor's anti-pollen screen	RESPILON AIR®
Filtration efficiency: 1.0 µm particles	N/A (does not capture these particles)	13 %	92 %
Filtration efficiency: 2.5 µm particles	0.6 %	21 %	94 %

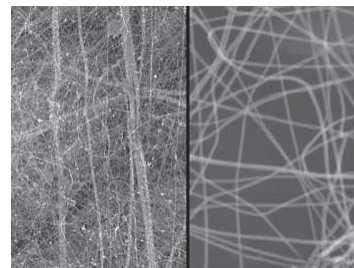
Sample:



Q 500x



Q 500x



Q 500x

Q 10,000x

Efficiency (1.0 µm @ 5.33 cm/s) was measured at 1.077 µm @ 5.33 cm/s | Efficiency (2.5 µm @ 5.33 cm/s) was measured at 2.555 µm @ 5.33 cm/s



1.0 µm = PM1.0
diesel fumes particle size

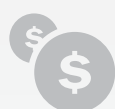


2.5 µm = PM2.5
smog particle size



Why choose RESPILON AIR® over ordinary window screens?

	Regular window screen	Nanofiber membrane RESPILON AIR®
Description:	✗ Obsolete product, not efficient against current threats	✓ Premium product, high-tech nanofiber solution against air pollution
Material:	✗ Glassfiber, aluminium, steel	✓ Nanofiber, mesh
Filtration efficiency:	✗ Fails to capture the most hazardous particles	✓ Captures even the smallest dust, smog and PM2.5 particles
Toughness:	✗ Vulnerable to corrosion, and more susceptible to mechanical damage	✓ Highly resistant because of solid nanofiber structure
Service life:	✗ Longtime exposure to external environment causes glassfiber to break down and release carcinogenic particles which are extremely dangerous to human health	✓ Polymers used in the membrane do not release any harmful substances or particles
Additional effects:	✗ Ineffective against UV light and rainwater	✓ Does not transmit the UV component of the light spectrum



How can RESPILON AIR® save money?

In countries with a hot climate, hotels have to keep air-conditioning on even during the night because if the windows were opened, wind would fill the rooms with desert sand. It costs hotel owners a lot of money because of the power consumption. RESPILON AIR® captures the sand particles, thus allowing the rooms to be aired in the night. How much money can the nanofiber membrane save?

How much can a hotel save?

Power input of an AC unit for 1 room	4 kW
Hours of night operation	8 hours
Hours of night operation per 1 year	2,920 hours
Power consumed per 1 year	11,680 kWh
Savings – 1 room per 1 year (with AC off)	USD 1,208