

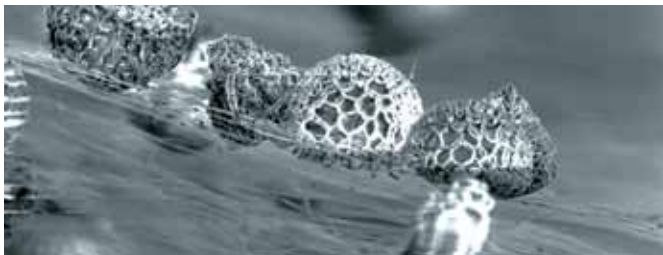


Seta filters



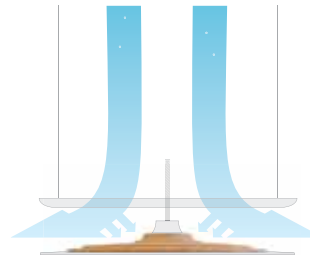
Introducing Seta diffuser filters - the end of the line for harmful dust and bacteria

Seta Filters are an example of the latest natural technology in home filtration. Used in conjunction with the deep pleat HRV filter, it offers homeowners a complete filtration system. Seta filters capture microscopic particles* in the same way as a spider web catches a fly. This breakthrough natural process, using natural products, is a breath of fresh air for any homeowner seeking better indoor air quality.



A microscopic view of nanofibres at work catching spores. Seta nanofibres are 1000 times thinner than a human hair, less than 1 micron. Using electrospinning, Seta creates a web of these fibres which act as a second

stage filtration barrier to help reduce dust and allergens entering the home. As you can see, even the smallest of spores are caught like flies in a spiderweb.



Air moving through the ducting makes contact with the Seta filter.



Airborne spores, allergens and bacteria are trapped in a dense web of fibres.

Natural antibacterial activity of plant extracts takes over to inactivate the trapped particles.

Feature	Benefits
Approximately 30KMs of fibre on each pad.	Large amounts of fibre create a very sticky surface to catch microscopic spores and particles (the more fibre the stronger the more electrostatic forces are around) this is because there are millions of overlapping fibres attracting each other. This allows the pad to last six months.
Biodegradable - made from Potatopak.	Great for the environment. Throw away into the compost heap when they are finished.
Two stage filtration.	All clean rooms and hospitals around the world have two stage filtration. Whatever the first one misses the second one captures. The new HRV 'Complete filtration system 'creates a safe environment for all the family in times of high dust and pollen counts (about four times a year).
Easy as a light bulb to change.	No need to get an installation crew in!
Capture infinitely small particles.	Whatever the first HRV Synsafe Ultra filter misses the second one endeavours to capture however infinitely small.
World first technology.	Complete differentiation from anything else on the market place (Patent pending). HRV leading the world in home ventilation filtration.
Fibre made of collagen.	Made from natural non toxic collagen the building blocks of skin. No nasty effects on the environment. Made from a sustainable resource.
Fibres impregnated with natural antibacterial properties.	Antibacterial properties such as Manuka and grape seed extract help to kill what they capture, not only does the filter capture infinitely small particles the fibres also deactivate what they capture. A unique world first.



Questions & Answers



The Seta Filter is the latest natural technology in home filtration, used in conjunction with the deep pleat HRV filter it offers home owners, **two-stage filtration.**

Stage One: Using 'pass through filtration', the core HRV filter captures 80% of toxins and airborne particles at the core deep pleat HRV filter in your roof.

Stage Two: The Seta Filter, sitting at each diffuser outlet in your home, applies 'pass over filtration' to help capture remaining particles in the same way a spider-web catches a fly. The anti-bacterial activities of plant extracts in the filter then take over to de-activate bacteria and microbes and ensure no re-growth.

Q. Why do I need another filter?

A. It is standard air purification practice worldwide to rely on a two-stage filtration system in order to create as pure an environment as possible. Even the smallest percentage of allergens that do escape into your home can create an allergic response. At peak allergen times of the year the allergens can be 1000 times higher than normal. If anything should get through the HRV

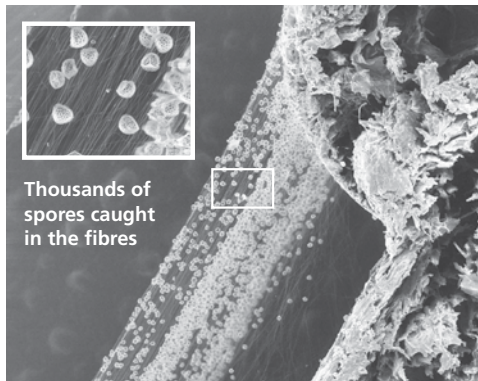
Pass Through Filter, the Seta Pass Over Filter, situated at the last point of contact before entering the room, will endeavor to capture the rest.

Q. I cannot see the fibres, how can it really work? How do I know they are working?

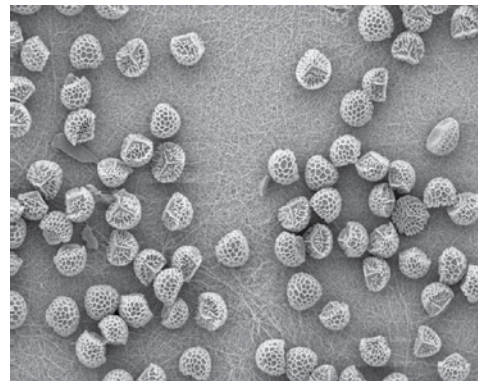
A. Particles that do you harm are invisible to the naked eye. Here are pictures that capture this, making the invisible world

visible. See how the spores stick to the Seta Diffuser Filter. Spores are captured and killed by the antibacterial properties in the fibres as they pass over the filter from the air stream. As they drop out of suspension Van Der Waals forces (the attractive bonds between molecules) come into play. At such microscopic levels these electrostatic forces act like a magnet to the particles pulling them into the fibres.

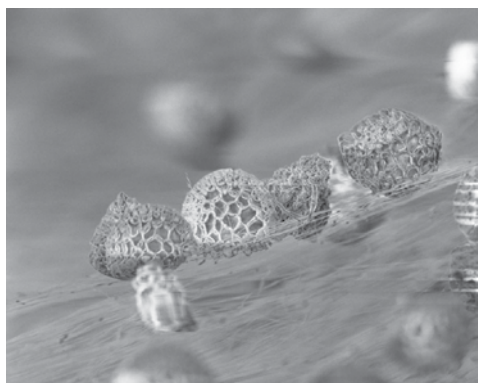
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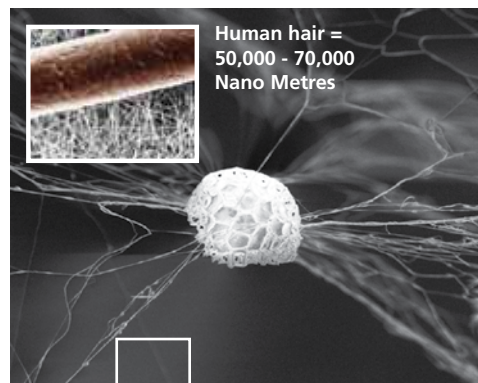
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Seta Questions & Answers

Q. What are they made of?

A. They are made of Potatopak™, which are recycled potato chips. Potatopak™ is 100% biodegradable and safe for the environment. NANO fibres, made of collagen and impregnated with natural antibacterial properties, are spun onto this base.

Q. If the filters are biodegradable, what stops them degrading in my HRV system?

A. When using natural fibres, Revolution Fibres felt it was important to support them on an equally environmentally friendly base. The Potatopak™ base is 100% biodegradable and safe for the environment. While in the HRV system they are in their perfect environment – dry and aerated. Once removed and put in the rubbish or compost, the Seta Diffuser Filter will break down in a few weeks.

Q. What makes the fibres antibacterial?

A. The fibres contain antibacterial properties such as plant extracts including Manuka with known antibacterial properties.

Q. How long are the fibres?

A. Seta Diffuser Filters contain three fibres, each kilometre's long coiled over and over each other. They are so long and sticky that they hold on tight to the filter pad.

Q. How often do I need to change them?

A. Each filter lasts six months, and can be changed easily by the customer. No serviceman is needed to change them. They are as easy as a light bulb to change.

Q. Is it sticky?

A. No, but definitely to microbes! – Although care handling them is needed to not damage the fibres on the top of each pad (refer to the installation procedure).

Q. Are they toxic? What if I touch them and then put my fingers on my face?

A. The fibres are made from naturally occurring, non-toxic, collagen fibres – the building block of skin. If the fibres ever entered the body they would immediately break down and be absorbed safely by your body.

Q. What does it do with the spores and bacteria once they are caught?

A. Once the spores and bacteria are caught they are deactivated by the antibacterial properties in the fibres.

Q. What do you do with them after six months?

A. Replace them with a new set and safely throw them away in the rubbish bin or the compost bin and they will break down in a few weeks.

Q. How long do the spares last in the box sitting in the cupboard?

A. As long as they are in a dry environment they should last indefinitely.