

Bagless vacuum cleaner tackles allergens

Allergic disorders specifically of the nose are very common in Southern Africa and affect about two out of every ten people according to the [Allergy Society of South Africa](#). But with good technology, tackling household allergens needn't be an impossible task.



The [Dyson Cinetic vacuum cleaner](#) is engineered to capture allergens 200 times smaller than the width of a human hair. Using 54 highly efficient cyclones each with an oscillating tip, nasty particles are sucked up and spun through the cyclone. Particles are separated from the airflow using high centrifugal forces and captured in the bin. The patented Dyson technology is so effective the machine actually expels air cleaner than the air you breathe. And it doesn't have filters to touch, wash or replace.

"An average carpet can contain up to 1,000 dust mites per square metre. They feed on human skin, and during their three month life can produce as many as 2,000 droppings - imperceptible particles that trigger allergic reactions. Dyson Cinetic combines microbiology expertise and engineering know-how to capture these microscopic particles, lessening the threat of allergens in your home," says Toby Saville, a microbiologist at Dyson.

Most vacuums rely on bags and filters to capture dust. Over time, they clog and the vacuum loses suction; meaning they can struggle to capture household allergens. Leaky seals and filters mean dust and bacteria expelled back into the air you breathe. Even HEPA filters, without the right seals, can fail to do the job.

Dyson Cinetic has small cyclones that are just 3.3mm in diameter, generate higher centrifugal forces and capture minute particles. But the tighter the cyclone, the more likely it is to block. Dyson engineers created cyclones with flexible tips, creating oscillation and preventing dust from blocking the cyclones - keeping them clear, and maintaining no loss of suction.

Dyson Cinetic captures 99% of all dust, bacteria and allergens that it has removed from the home.

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