

BIOZONE SCIENTIFIC

# FRESHCARE ALLERGEN GUIDE



# Indoor Allergens

Indoor allergens are substances commonly found inside homes that can trigger allergic reactions or exacerbate respiratory conditions. Understanding these allergens and their effects can help you manage and reduce exposure, leading to a healthier living environment.



## Pollen

Pollen is a fine powder produced by plants for reproduction. It can enter homes through open windows, doors, and on clothing.

**Health Impact:** Pollen is a common trigger for seasonal allergies (hay fever), causing symptoms like sneezing, runny nose, itchy eyes, and throat irritation. Indoor exposure can prolong these symptoms.



## Pet Dander

Pet dander consists of tiny flakes of skin shed by cats, dogs, and other animals with fur or feathers.

**Health Impact:** Pet dander can cause allergic reactions including sneezing, itchy and watery eyes, and nasal congestion. It can also trigger asthma attacks in sensitive individuals.



## Dust Mites

Dust mites are microscopic creatures that thrive in warm, humid environments and are commonly found in bedding, upholstery, and carpets.

**Health Impact:** Dust mites produce waste particles that can trigger allergic reactions such as sneezing, runny nose, itchy eyes, and asthma symptoms. Prolonged exposure can lead to chronic respiratory issues.



## Mould Spores

Mould spores are tiny particles released by mould fungi. They thrive in damp, humid areas such as bathrooms, kitchens, and basements.

**Health Impact:** Inhaling mould spores can lead to allergic reactions such as nasal stuffiness, throat irritation, coughing, and eye irritation. Severe exposure can cause more serious respiratory issues and exacerbate asthma.



## VOC's

VOCs are chemicals found in many household products such as paints, cleaners, and air fresheners. They are released into the air as gases.

**Health Impact:** Short-term exposure to VOCs can cause eye, nose, and throat irritation, headaches, and dizziness. Long-term exposure can lead to more serious health issues such as liver and kidney damage, and central nervous system problems.

## DID YOU KNOW...

**General Allergies:** Allergies affect over 21 million people in the UK each year, making them one of the most common chronic conditions.

**Asthma:** Approximately 5.4 million people in the UK have asthma, including 1.1 million children and 4.3 million adults.

**Economic Impact:** The cost of allergic diseases, including asthma, to the UK healthcare system is significant, with asthma alone costing the NHS around £1 billion annually.



# Importance of Air Purification

Air purification plays a crucial role in managing common indoor allergens like dust mites, pet dander, pollen, and mould spores. Our Freshcare series combines advanced technologies to effectively tackle allergens and asthma-causing particles, ensuring a healthier living environment.

## UV Lamps



UV lamps offer a proactive approach to purifying indoor air. By emitting ultraviolet radiation, they target and neutralise microorganisms such as bacteria, viruses, and mould spores. This process significantly reduces airborne allergens, providing much-needed relief for allergy sufferers.

## HEPA 13 Filters



The HEPA13 filter with activated carbon removes 99.97% of airborne particles and absorbs unwanted odours, gases and chemical VOCs. Dust mites, pollen, and pet dander are effectively trapped, preventing their circulation in indoor air.

## Photoplasma



Photoplasma™ technology is designed to sustainably enhance indoor environments. It surpasses conventional cleaning methods by utilising a combination of negative ions, hydroxyl radicals, singlet oxygen, ultraviolet light, and ozone to quickly and actively break down contaminants.

## Freshcare Features

While there are various ways to mitigate allergens and odours, Freshcare offers the easiest, least time-consuming, and most worry-free method to achieve your desired results. Freshcare models come equipped with numerous features, including a timer function and a PM 2.5 sensor. The PM 2.5 sensor monitors the air quality in your indoor environment and automatically adjusts the treatment level to enhance air quality.



### Superior Cleaning

Freshcare features a multi-stage filtration system, which makes it extremely effective.



### PM 2.5 Sensor

Monitors the air quality and automatically adjusts to make it healthier.



### Timer Function

The timer can be set up to 12 hours, letting you focus on the important things.



### Simple Maintenance

Freshcare requires just one annual lamp and filter replacement, making it cost-effective and simple to operate.

## Additional Tips

- **Regular Cleaning:** Dust and vacuum your home frequently using a vacuum with a HEPA filter. Wash bedding, curtains, and stuffed toys regularly in hot water.
- **Control Humidity:** Keep indoor humidity levels below 50% to reduce dust mite and mould growth. Use dehumidifiers and ensure good ventilation in bathrooms and kitchens.
- **Allergen-Proof Covers:** Use allergen-proof covers on mattresses, pillows, and box springs to reduce exposure to dust mites.
- **Pet Care:** Bathe and groom pets regularly to minimise dander. Keep pets out of bedrooms and off furniture.
- **Reduce Clutter:** Remove unnecessary items that can collect dust and allergens. Keep surfaces clean and uncluttered.
- **Ventilation:** Ensure proper ventilation in your home by using exhaust fans and opening windows when weather permits to reduce indoor pollutant levels.
- **Mould Prevention:** Fix leaks and address water damage promptly to prevent mould growth. Clean mouldy surfaces with appropriate cleaning agents.
- **Pest Control:** Keep food sealed and dispose of garbage regularly to avoid attracting pests. Seal cracks and crevices to prevent rodent entry.



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