

The science behind the solution: five steps to improved air quality.

1. Disrupt and diffuse

A high performing HEPA filter draws in polluted air. In a process known as Brownian Motion, nanoparticles are forced to bounce around the HEPA filter in zig zag patterns until they get stuck. This is called diffusion. Combined with impact and interception, the HEPA filter ensures particles get filtered out of the air flow.

2. Filter

An activated carbon filter removes gases (such as formaldehyde), chemicals, volatile organic compounds (VOCs) and odours from the air.

3. Disinfect

UVGI technology allows air to be circulated around UVC lamps, which emit wavelengths of over 250 nanometres (nm). Contaminants are inactivated and destroyed with the photonic energy.

4. Release

The air is released back into the environment, cleansed, and refreshed.

5. Measure

Your office machine's air quality indicator uses either a colour coded system, telling you how clean your air is, or (in the case of our KTII machine) a numeric indicator, so you will always know how well your machine is performing.

