Introduction to core technology

rotoair® AC150-F





Panel Visual Design

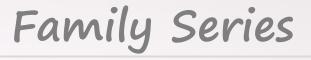
25°

(The most comfortable viewing angle)

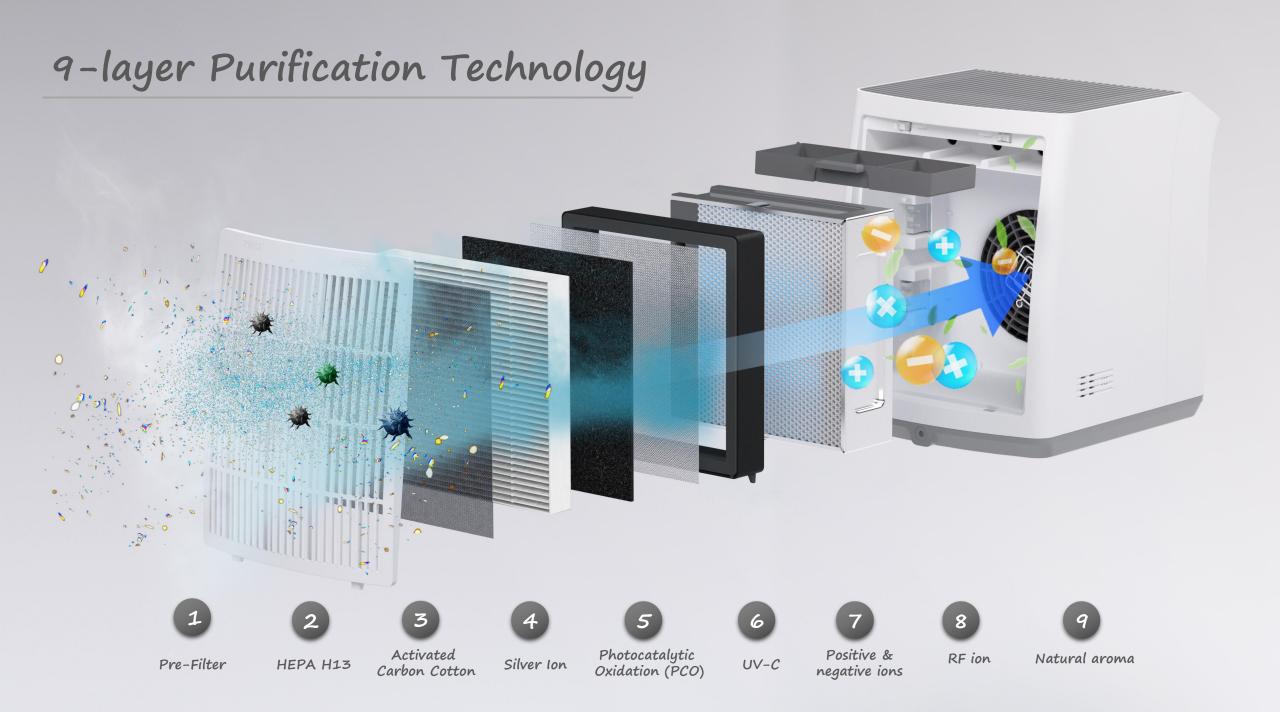
How tired is our cervical spine?

Cervical spine stress list

- When the body is upright, the head of an adult generally weighs about 5 kg;
- When watching a computer or TV, the head is lowered at an angle of about 15 degrees, and the pressure on the cervical disc increases to 12 kg;
- When working at a desk, bow your head at an angle of about 30 degrees, and the cervical intervertebral disc bears 18 kilograms of pressure;
- When looking at the mobile phone, the head is lowered at an angle of about 60 degrees, and the pressure on the cervical intervertebral disc is 27 kg, which is equivalent to carrying the weight of a bag of rice;



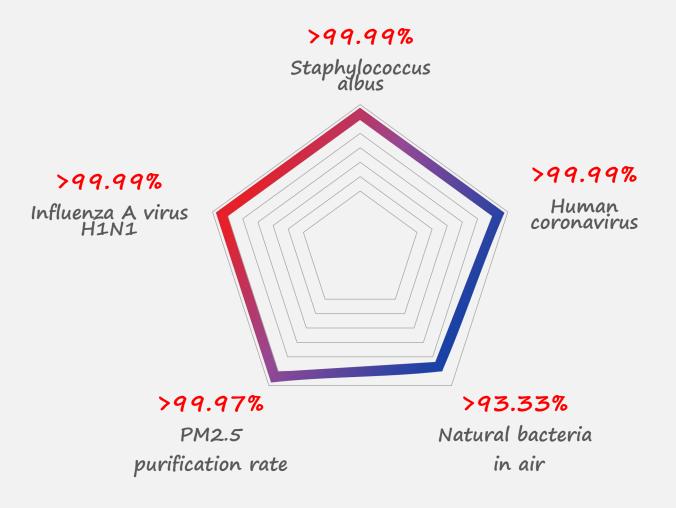




Scientific Test Data

Report No.:2021FM22638R01E

The professional purification test by an authority shows that it only takes 2 hours! The concentration of major air pollutants has dropped significantly



Verification Code: 12576493









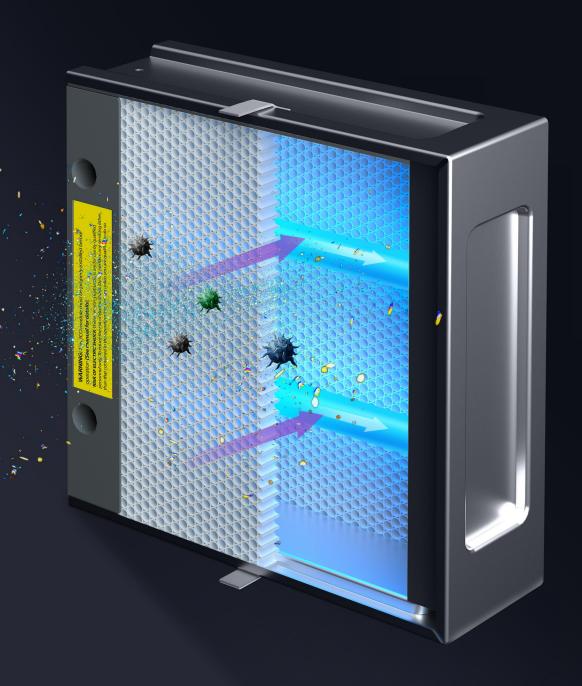


Photocatalytic Oxidation

33.6 µW/cm² (UV IRRADIATION INTENSITY)

PCO sterilization technology is a generalterm for photo-semiconductor materials with photocatalysis (UVC) function based on nano-scale titanium dioxide (TIO2).Nano-sized titanium dioxide is coated on the surface of honeycomb, under the action of ultraviolet light, it will produce a photocatalytic reaction similar to photosynthesis.

- It producesfree hydroxylgroups and active oxygen with strong oxidizing ability, and has a strong photo-redoxfunction;
- Oxidative decomposition of TVOC and other organic volatiles, and decomposition of organic pollutants into pollution-free water, carbon dioxide and otherharmless substances;
- It can effectively kill a variety of bacteria, and can decompose and harmlessly treatthe toxins released by bacteria orfungi;
- PCO sterilization technology has strong functions such as sterilization, deodorization, mold prevention, and air purification.
- Air volume 135CFM, larger PCO and larger air input.





UV Leakage Intensity

 ρ μ ν (30cm around the device)

This product complies with the maximum allowable concentration of ozone of 0.050 parts permillion by volume (ppmv) in a 24-hour period. The Health Canada Guideline 2010 recommends that the maximum exposure limit, based on an averaging time of 8 hours, is 0.020 ppmv or less whentested in a sealed, controlled room approximately 30 m³.

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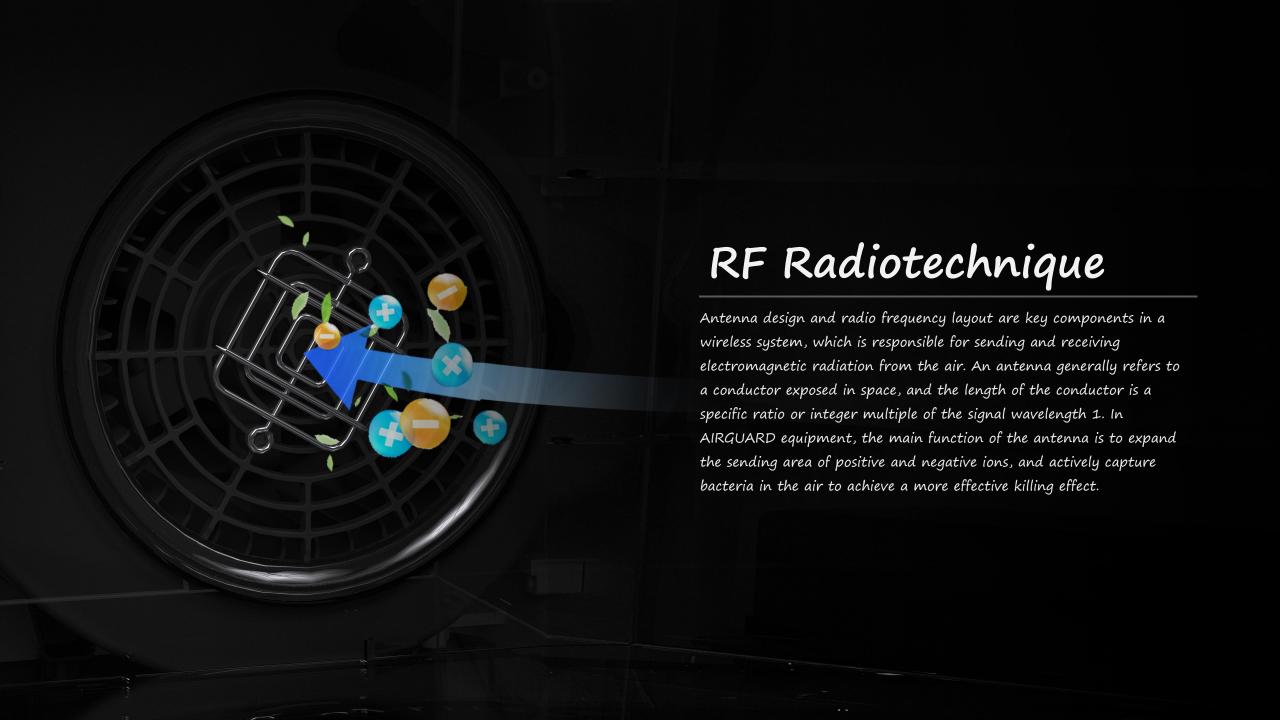
Ozone Concentration

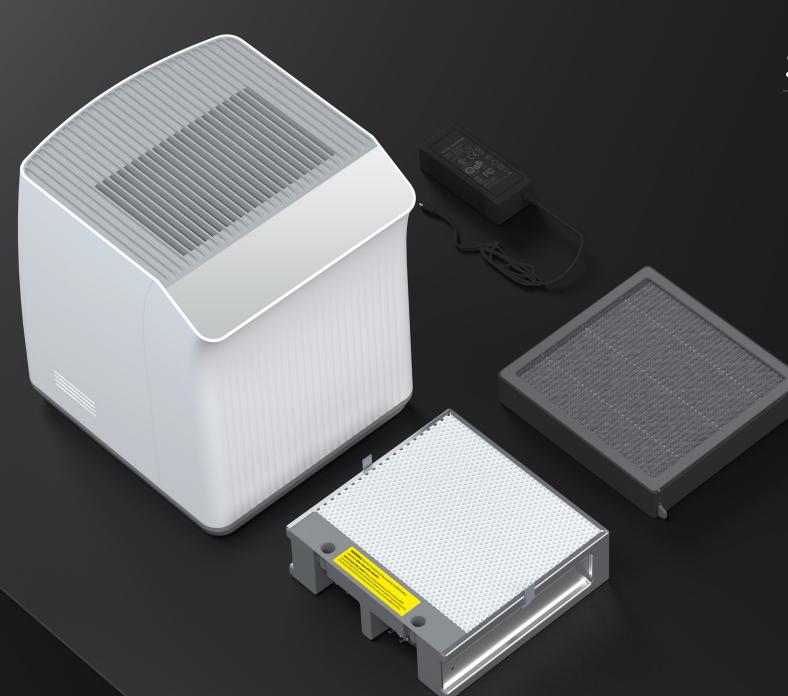
0.014 ppm (30m³ experimental space)

The perceived concentration of ozone is only 0.02~0.04ppm. At about 0.02ppm, the air will feel very fresh. The refreshing feeling in the air after a thunderstorm is due to the large amount of ozone and negative ions produced by lightning. Some scientists have concluded that if there is no ozone in nature, human beings will suffer many additional disasters, so the evaluation of ozone is "a god-sent purifier".



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Specification AC150-F

Current Product 10"

Rated Voltage 100-240V~

Rated Frequency 50/60 Hz External Power Supply

Power Adapter DC24V 2.75A

Rated Power 53W

Unit Size 25x25.5x30.3cm (9.8"x10"x11.9")

Packing Size 36.5x33x46.5cm (14.3''x13''x18.2'')

 Net Weight
 3.94kg (8.67pounds)

 CADR PM
 230m³/h (135ft³/min)

Noise SPL 46dB

Loading Qty 555 / 20'FT, 1135 / 40'HQ

PACKING LIST

Air Purifier*1 / PCO Purification Module*1 / Composite Filter*1 / Fragrance Box*1 / Power Adapter*1 / Power Cord*1/