KDK
SINCE 1909
JAPAN

Solutioning for better **air quality**

Capital Distributors (S) Pte Ltd

Importance of

Indoor Air Quality

In the light of the Covid-19 pandemic, a stronger emphasis has been placed on the importance of Indoor Air Quality (IAQ) in creating healthier environments. With the human body taking in up to 18kg[1] of worth of air daily, this makes us the most susceptible to pandemics.

1.2
kilograms
per person · day

WATER

18
kilograms
per person · day

AIR

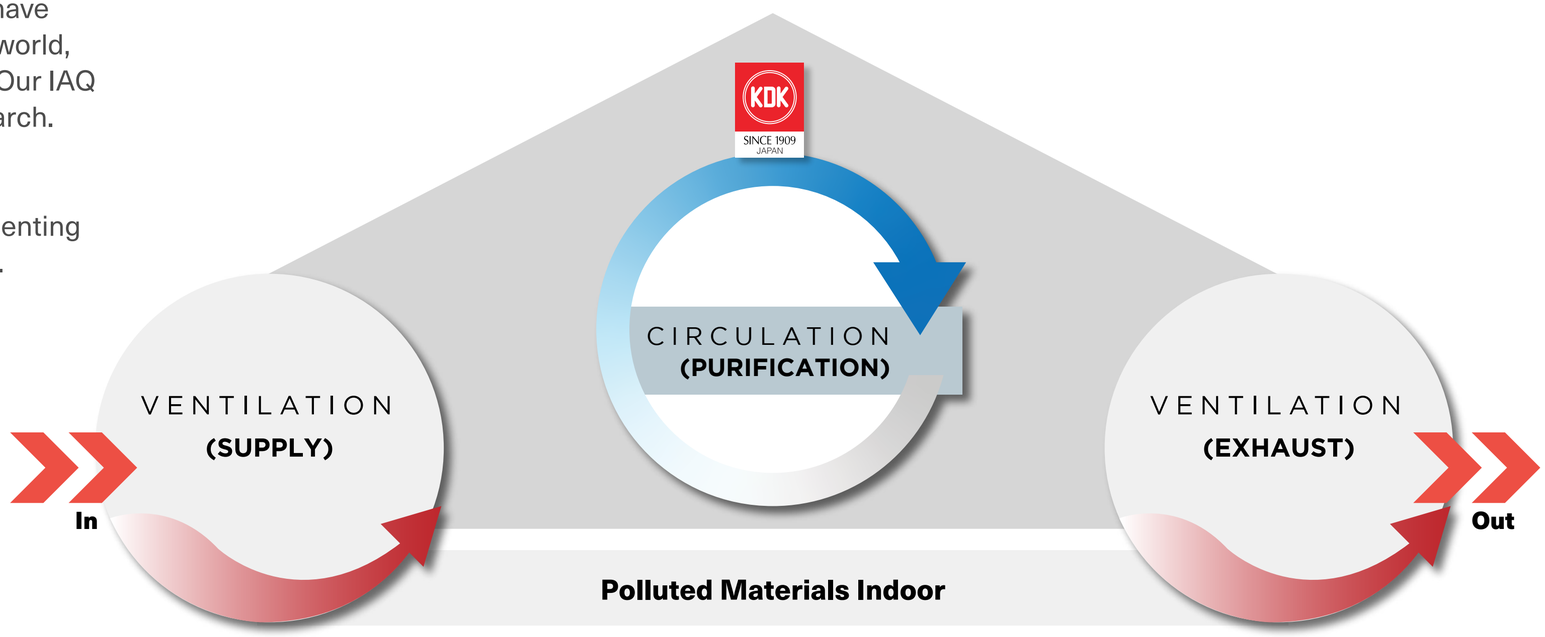
1.3
kilograms
per person · day

FOOD

Industry Pioneer
in Indoor Air Quality (IAQ)

KDK has been an industry pioneer in IAQ since its establishment in 1909. Using our extensive experience and professional know-how, we have developed and implemented countless IAQ solutions across the world, thereby creating a healthy living environment for our customers. Our IAQ solutions are based on a key concept developed by years of research.

Over the years, KDK has developed a range of products complementing this key concept with the aim of creating a healthier environment.



Indoor Formaldehyde

Combustion gas, cooking
CO2, NO2, CO, SO2

Indoor furniture/building
Wood Products, VOCs, flooring, drapery, upholstery

Airbourne Particles

Smoke sources
Exhaust, cigarettes, diesel

Particulate matters
Dust, VOCs, emmissions

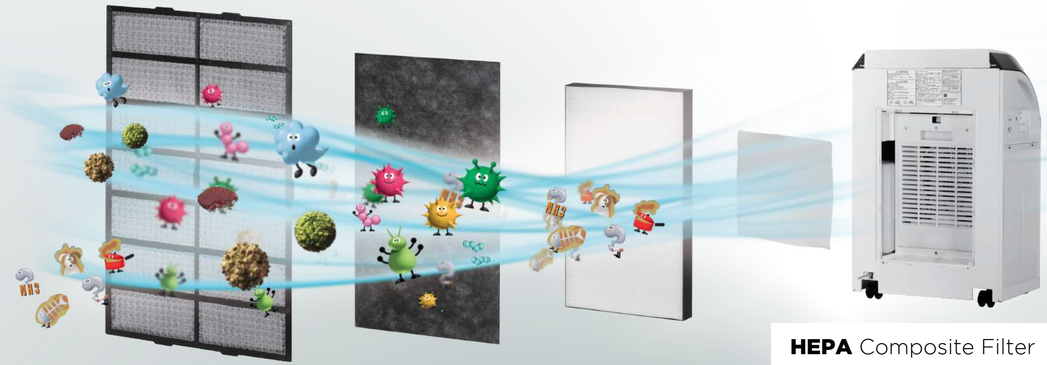
Household odors, gases

Activities/life act
Painting, cooking, smoking, air freshners, candles

Bathroom
Mould, mildew, odors

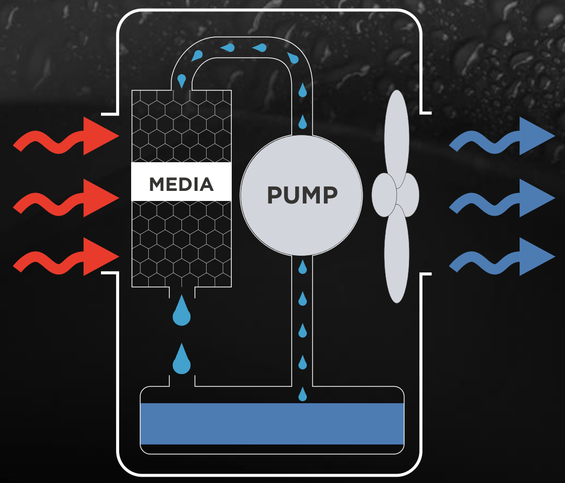
Ventilation (Supply)

Air from the outside contains bacteria, pollutants and other harmful particulate matters. This unclean air can be purified through the use of a commercial air purifier such as the KDK Smart Cooler. Designed for use in large spaces such as Offices and Childcare Centres, the KDK Smart Cooler is equipped with a HEPA composite filter that can capture 99.97% of 0.3 µm particles. It has also been endorsed by the British Allergy Foundation for its results in significantly reducing allergen contact.



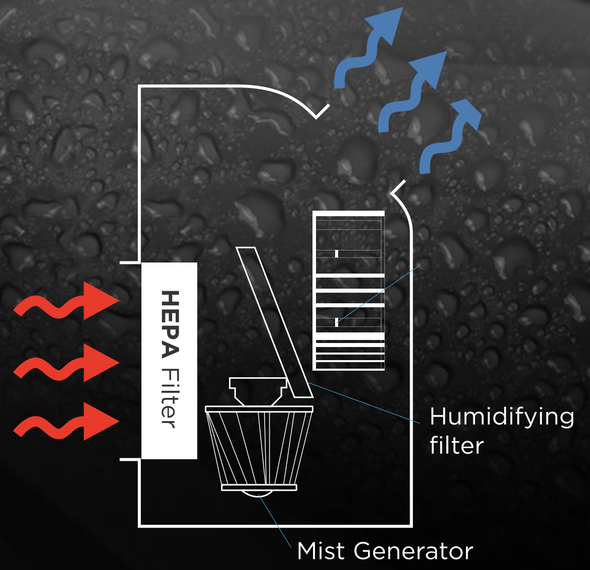
HEPA Composite Filter

Why KDK Smart Cooler?



A typical evaporative cooler

Cools the air by evaporating water. This result in a mixture of air and water molecules. It uses a fan to draw air through a wetted media, which provides a large surface area for the evaporation of water into the air.



A Smart Cooler

Adopts KDK Mist Technology to efficiently lower room temperature. The mist absorbs warm air while humidifying filters provides an area for further evaporation. The Dual Cooling System improves efficiency, thus differing greatly from typical evaporative air coolers.

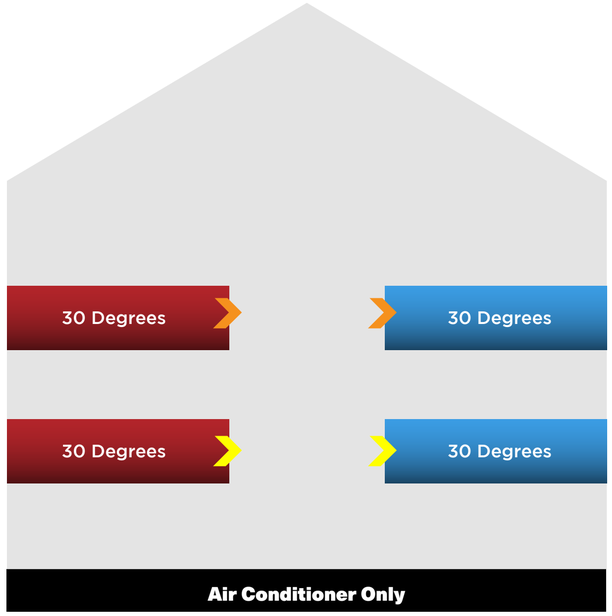
Circulation (Purification)

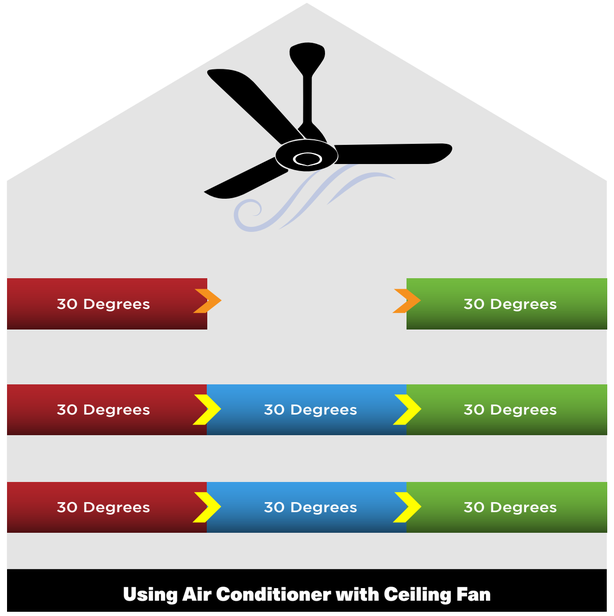
The second pillar is the concept of circulation. Given the presence of air conditioners in most indoor environments, supplementing with ceiling fans have the advantages

1. Improving the circulation of existing air within the environment
2. Reducing the amount of energy consumed by air conditioners to meet the desired temperature
3. Maintain amenity before the desired temperature is reached

Study done to show the effect of pairing ceiling fan with Air Conditioner

The fan speed is adjusted according to room temperature monitored by the thermal sensor. Room temperature decreases to 28°C over a period, while the sensible temperature could be maintained to 26.7°C, which is said to be most comfortable to human body



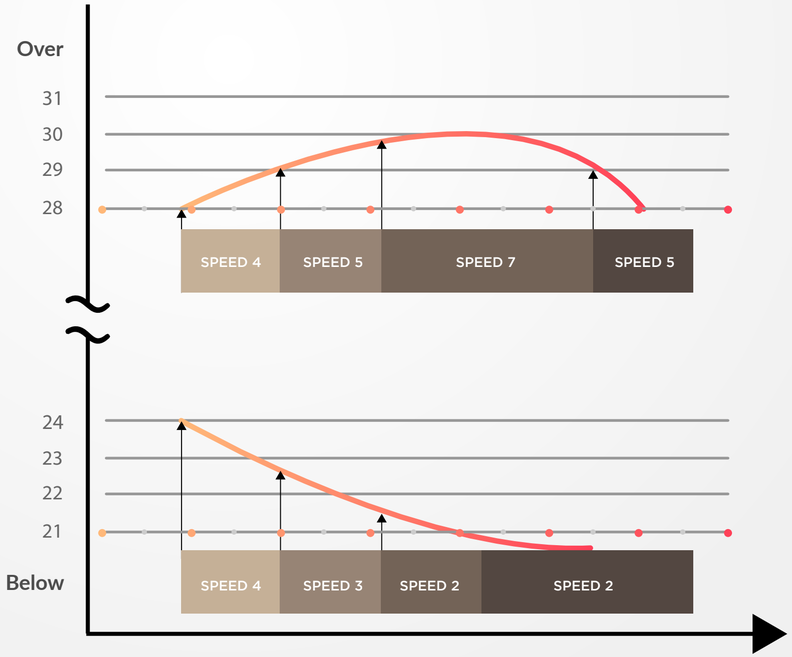


Leader in **Fan Technology**

KDK has developed several state-of-the-art features for our ceiling fans

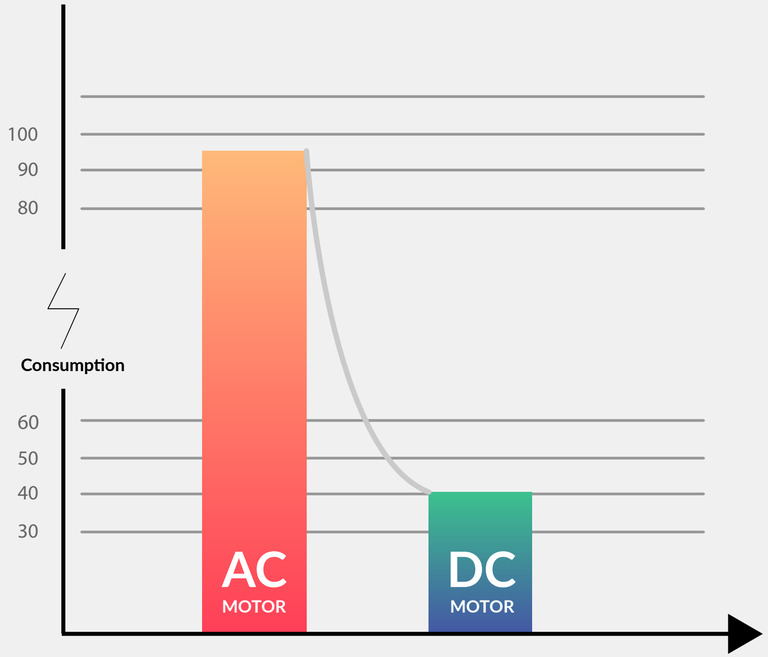
Intelligently Built Ceiling Fans

KDK Ceiling Fans such as V56VK & T60AW are intelligently built with a thermal sensor which is able to monitor the temperature change in the room and adjust its air velocity automatically.



Best in Class DC Motor

KDK has developed a range of DC Motor Ceiling Fans. With savings of up to 50% in power consumption as opposed to AC Motors, KDK DC fans are energy efficient, silent and provide best in class performance



Ventilation (Exhaust)

The final pillar would be the use of mechanical ventilation to purge unclean air to the outside. This can be achieved through KDK's range of ventilating fan. A study by our team of engineers have scientifically proven the performance of our ventilating fan via the monitoring of droplet nuclei.

Ceiling Mount
Ventilating Fan

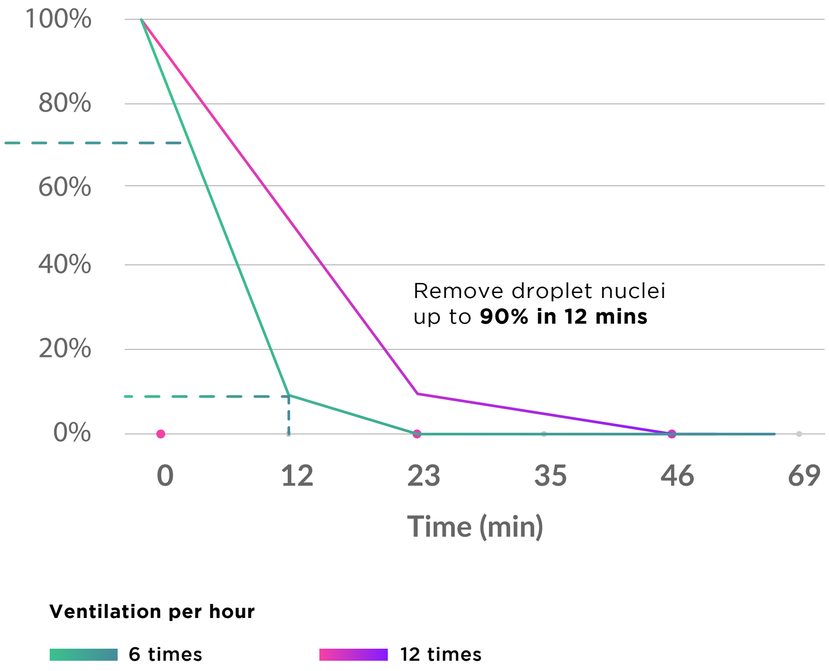
38CDG

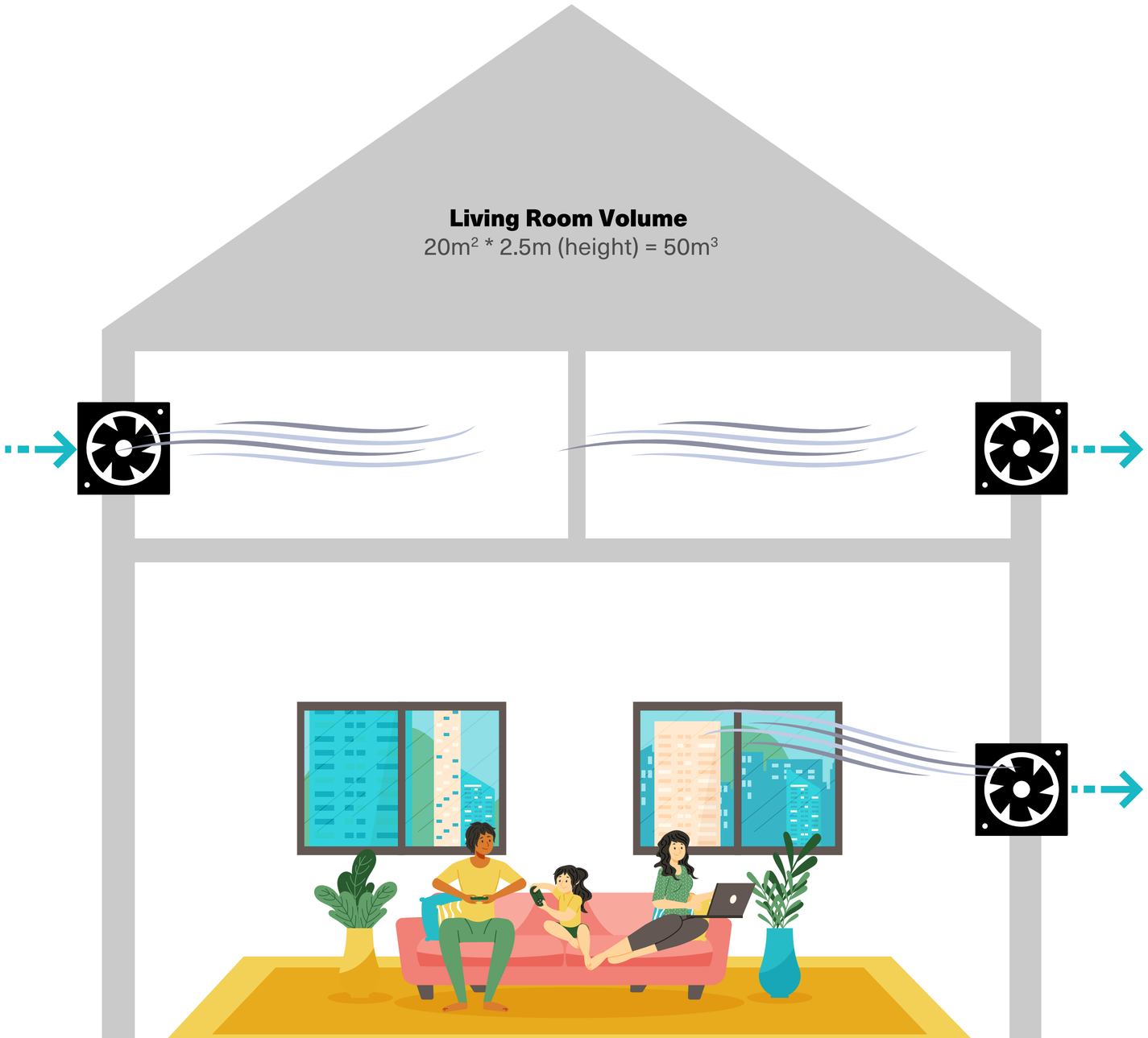
Air Volume: 590 CMH

Wall Mount
Ventilating Fan

20ALH

Air Volume: 560 CMH





Improved Ventilation

By using the above models, around 11-12 times of ventilation can be achieved per hour

In just 12 minutes, 90% or above of droplet nuclei can be removed in the room

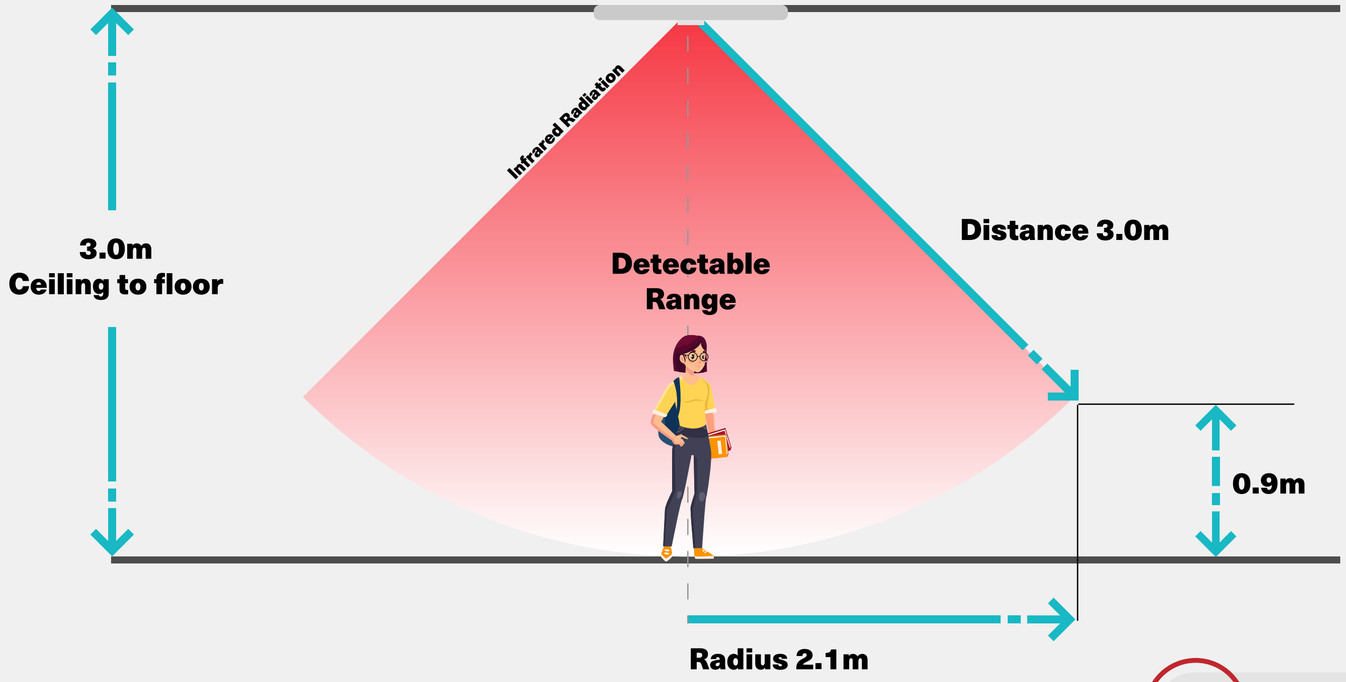
(a very effective way to prevent virus outbreak)

KDK ventilating fans are also equipped with energy-saving features

Ventilating Fan
(with motion sensor)

PIR Sensor (Passive Infrared Sensor)

detects changes in infrared radiation which occur
when there is movement by a person (or object)
which is different in temperature from the surroundings.



The Future of Offices

U60FW
Ceiling Fan

A motor that promises performance under low operating noise

24JRB
Ceiling Mount
Ventilating Fan

Purging of unclean air

T60AW
Ceiling Fan

State-of-the-art Thermal Sensor to reduce energy consumption

Smart
Cooler
Mist Technology

For purification of air in indoor spaces

Why Partner KDK

to develop your IAQ Solution

Professional advice by KDK trusted team of Engineers

Utilizing our extensive know-how, our team of engineers would study the area of implementation and propose a ventilation solution that best meets the needs of our customers

On-site team of support

With a local technical team based in Singapore, we are able to provide immediate assistance and advice to our customers when required.

Energy Efficient & Quality Products

With a local technical team based in Singapore, we are able to provide immediate assistance and advice to our customers when required.