**KDK**
SINCE 1909
JAPAN

# Home Ventilation
## Advices for a Better Living Environment (Kitchen)

## Is indoor air in our homes polluted?

Homes designed and built in recent years are airtight than the past. Pollutants being emitted from various indoor activities in kitchen retain in the room, and escape to fill the house eventually. These substances may affect our health and comfort in different extent.
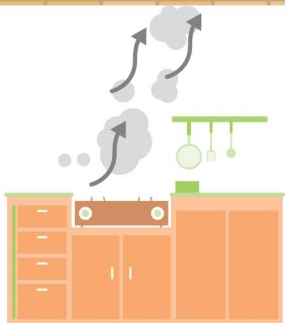
### Smell
Inside a kitchen, there are smells from food and garbage. Together with cooking smell during cooking, they may cause offensive odors to some people.

### Heat
Heat is produced during cooking and temperature in the kitchen is raised up. The hot air may leak in the house and affect the indoor environment.

### Smoke
Smokes generated from cooking fill the kitchen and retain for long time. They may escape to the house that pollute the indoor air.

## Do You Know ?

As combustion apparatus are used during cooking, carbon dioxide and carbon monoxide are produced. High concentration level of carbon monoxide in the air can be dangerous. It is not only important to expel the odor and smoke from the kitchen, but oxygen must also be replenished into the room.
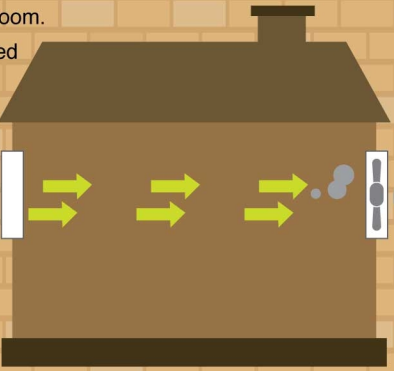
## How to improve the indoor air quality in your home?

Ventilation is a system to exhaust polluted air from and supply fresh air in a room. With an effective ventilation, clean air can be drawn indoor while contaminated air can be removed, that provides a healthy and comfortable environment.

### Effect of Ventilation
- Control of air exchange
- Deodorization
- Maintaining humidity level
- Pollutant removal
- Air circulation

**Outdoor**
Fresh air intake

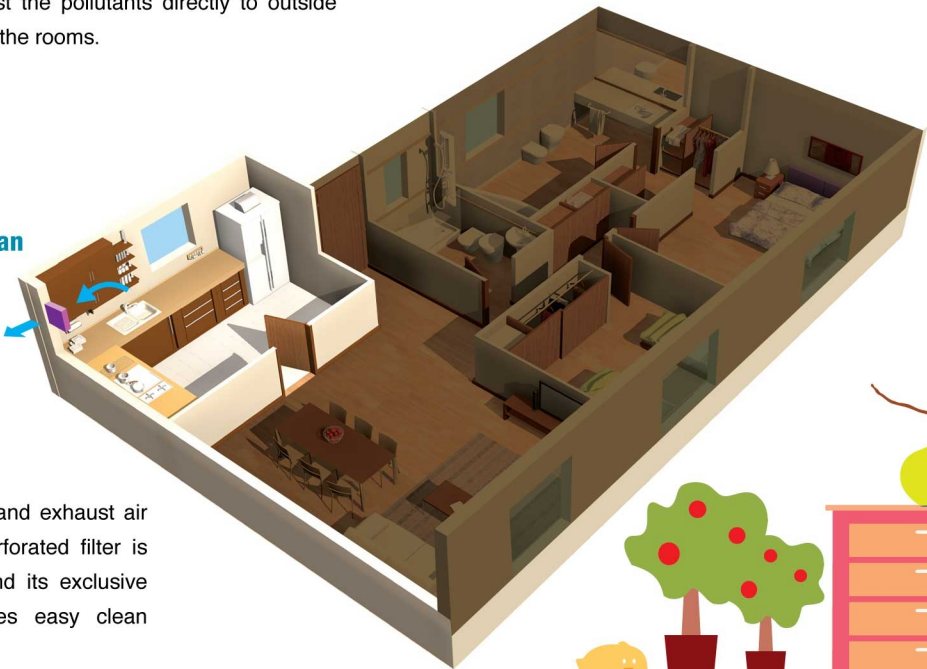Polluted air exhausted by ventilating fan

## Our Recommendation For Indoor Air Quality

Kitchen is the places with high concentration of contaminants generated. When these places are being used, ventilating fans should be operated to exhaust the pollutants directly to outside before they spread throughout the rooms.

■ : Kitchen Fan

This fan shall be installed in and exhaust air through outside wall. The perforated filter is competent in collecting oil and its exclusive 'Hydrophobic Coating' enables easy clean function.

## Natural Ventilation vs Ventilating Fan

In some cases, natural ventilation by opening window is adopted. However, it is neither consistent nor reliable since it relies heavily on wind and weather.

With appropriate ventilating fan, there will be adequate airflow to remove stale, moist and polluted air out of the house.

Window is opened to let indoor air go outside

Performance depends on environmental conditions, that cannot always meet the expectations.

Natural Ventilation

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