



SINCE 1909  
JAPAN

# Home Ventilation

## Advices for a Better Living Environment (Living Room)



### 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 living room and dining room retain in the room, and escape to fill the house eventually. These substances may affect our health and comfort in different extent.

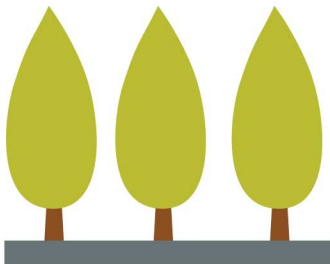


**Environmental Tobacco Smoke**  
During smoking, burning of cigarette, pipe or cigar give off tobacco smoke. This mixture contains numerous gaseous and particulate substances that are said to be hazardous to human's health.

**Odor**  
Unpleasant odor from smoking, as well as residual food smell after meal, lead to occupant discomfort, especially to those are more sensitive to odors.

### Do You Know ?

While smoking is hazardous to the health of smokers, the environmental tobacco smoke emitted from smoking also affects non-smokers. Inhalation of those gaseous substances is known as 'secondhand smoking' or 'passive smoking'. Other than causing irritation of eye, nose and throat, it would significantly increase the risk of lung illness and heart diseases in non-smokers. The most effective solution is to eliminate all smoking from indoor environment.

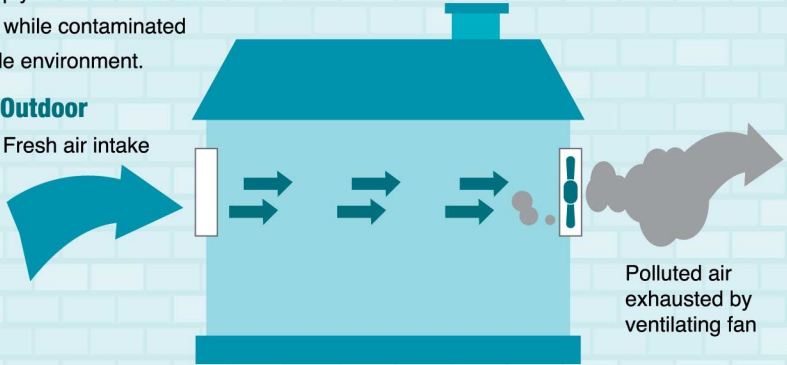


### How to improve the indoor air quality in your home?

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



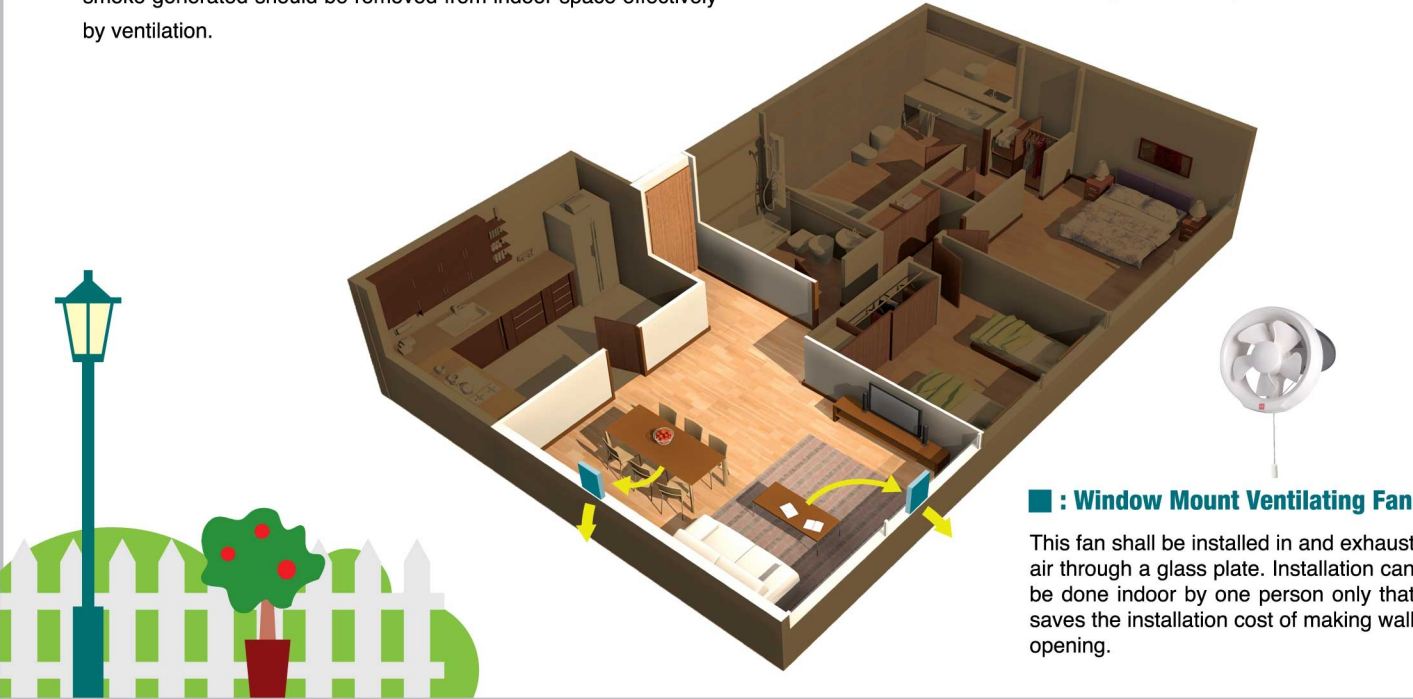
### Our Recommendation For Indoor Air Quality

Indoor activities in living room and dining room increase the production of indoor pollutants. Especially, environmental tobacco smoke generated should be removed from indoor space effectively by ventilation.



#### ■ : Wall Mount Ventilating Fan

This fan shall be installed in and exhaust air through outside wall. An opening in the wall is required for fitting the fan body.



#### ■ : Window Mount Ventilating Fan

This fan shall be installed in and exhaust air through a glass plate. Installation can be done indoor by one person only that saves the installation cost of making wall opening.

### 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



KDK Company, Division of PES  
Head Office: 4017, Takaki-cho, Kasugai, Aichi, Japan  
<http://kdk.jp>

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