



SINCE 1909  
JAPAN

# Home Ventilation

## Advices for a Better Living Environment (Bathroom)



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



**Moisture**  
Heavy amount of water vapor can be produced in a short period of time during bath. These moist air may stay in the room for long time after bath, especially in humid season.

**Foul Smell**  
As long as foul smelling air particles are not removed, no matter what kind of air freshener is used, the unpleasant odor would remain in the room.

### Do You Know ?

In general, inside a house, bathroom is a common source of mold. Water vapor during bath can cause moisture problems, which will lead to mold growth. Mold requires water or moisture to reproduce and it breeds faster when humidity increases. Mold not only damages appearance of the house and creates bad smell, it also has bad effects on human body, such as atopic dermatitis, asthma and so on.



Mold Grows on The Wall

### 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



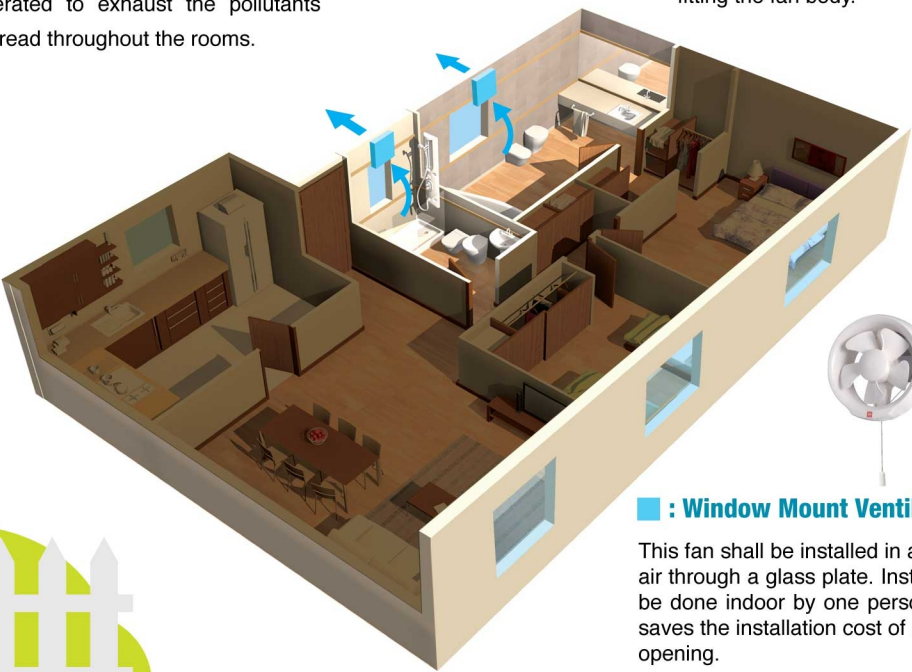
### Our Recommendation For Indoor Air Quality

Bathroom and toilet are the places with high concentration of odors and moisture 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.



#### ■ : 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.



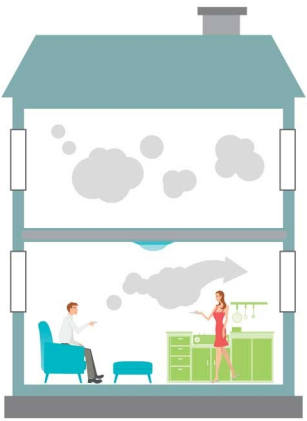
#### ■ : Window Mount Ventilating Fan

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



SINCE 1909  
JAPAN

**KDK Company, Division of PES**

Head Office: 4017, Takaki-cho, Kasugai, Aichi, Japan  
<http://kdk.jp>

CATALOG NO.: K-VM005  
Printed in Hong Kong 02.10