



SINCE 1909  
JAPAN

**Bathroom  
Type**



10EGKA  
15EGKA

Suitable for  
bathroom  
7.5m<sup>3</sup> to 15m<sup>3</sup>

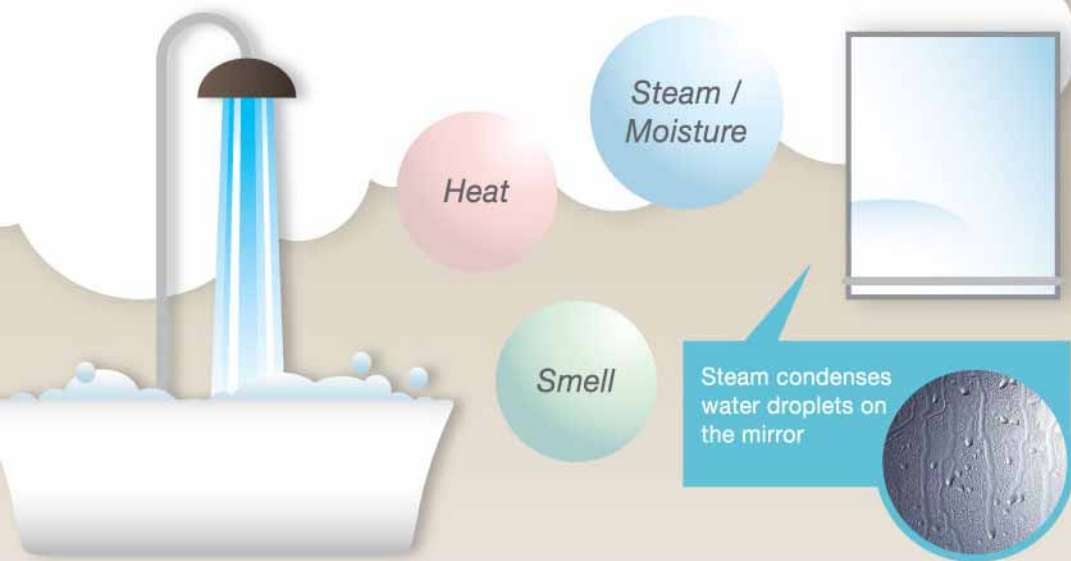
Ventilating Fan (Bathroom Type)  
**Moisture & Smell Exhauster**  
Solutions For A Better Living Environment



# Why Do You Need Moisture & Smell Exhauster in Bathroom?

## During Shower Bath

Whenever you take shower bath, the bathroom will fill with steam, Steam will become water droplets as it cools that may cause mold problems in the bathroom.

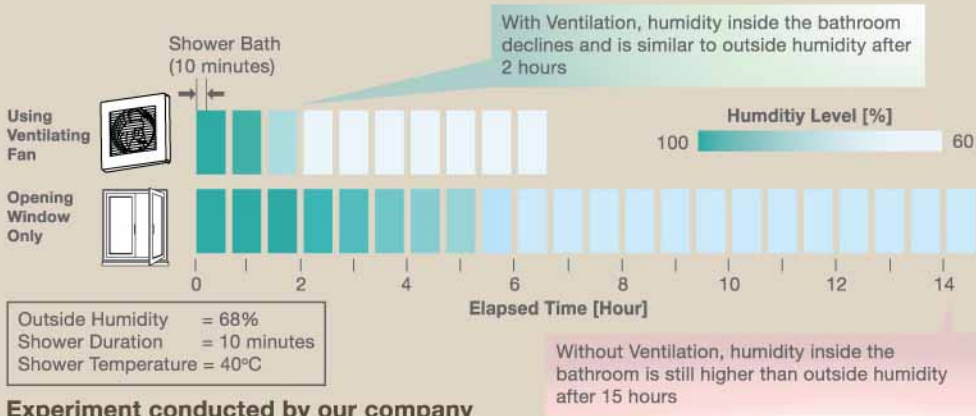


Without ventilation, steam spread throughout the bathroom and may leak to the house



The Exhauster removes steam from the bathroom that keeps the room clear and dry

# Comparison of Humidity After Shower Bath



Experiment conducted by our company

## Effect on Excess Moisture

Excess moisture not only affects occupants' comfort, it also provides a nice condition for molds to grow. Molds may influence durability of house, and have potential health effects to human being.

Molds grow on everywhere



To restrain the growth of mold, humidity in bathroom should be maintained in low level. Ventilating fan can quickly remove dampness from the bathroom and keep the humidity in low level effectively.



Without ventilation, mold grows around the room due to high level of dampness



The exhauster removes excess moisture to avoid growth of mold



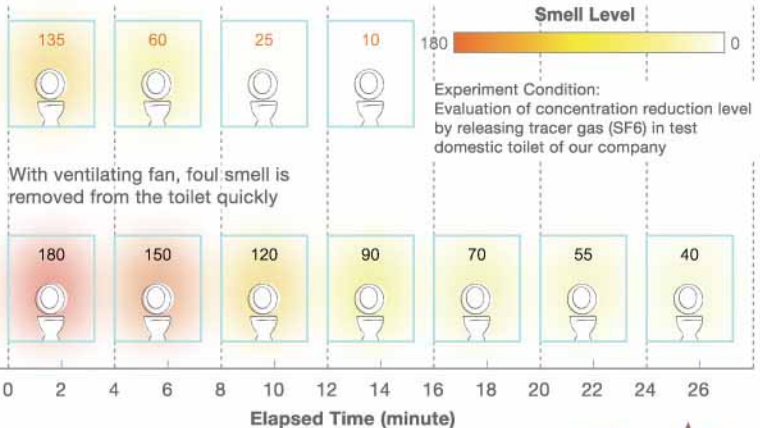
## When Toilet is Used

Foul smell may come out when toilet is used. Even the source is stopped, the offensive odor may remain in the room for long time. It may lead to the occupant discomfort.



## Comparison of Smell Dispersion

Using Ventilating Fan



Open Window Only



Experiment conducted by our company



Moisture & Smell Exhauster removes foul smell from the toilet to maintain a comfortable environment for you.

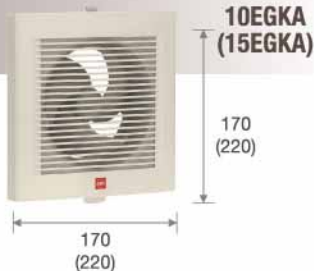




## Features - Compact & Stylish

Compact size with powerful exhaust capacity can fit most bathrooms up to 7.5m<sup>3</sup> and 15m<sup>3</sup> respectively.

Moreover, the slim and elegant design of front louver match any modern décor perfectly.



KDK recommends 10 times air change per hour (ACH) for bathroom / toilet

Air Change Per Hour (ACH) is the volume of air exhausted every hour in term of room volume.

Required Airflow = Room Volume x ACH

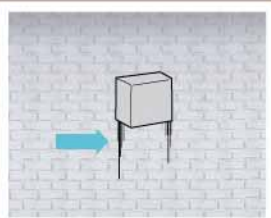
Room Area	Room Volume	Required Airflow	Applicable Model
3m <sup>2</sup>	7.5m <sup>3</sup>	7.5m <sup>3</sup> x 10 = 75m <sup>3</sup> /h	10EGKA
6m <sup>2</sup>	15m <sup>3</sup>	15m <sup>3</sup> x 10 = 150m <sup>3</sup> /h	15EGKA

Calculation base on ceiling height to be 2.5m

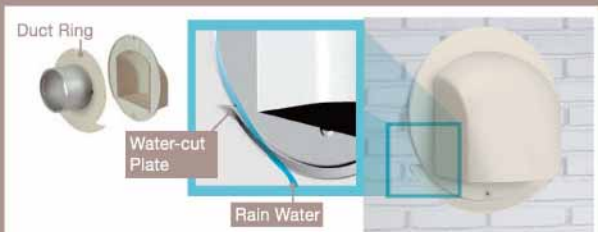


## Trace-Prevention

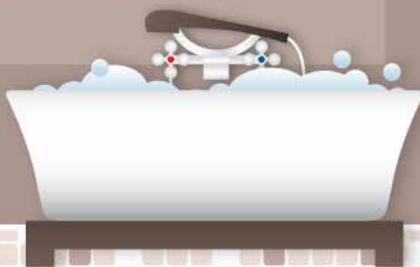
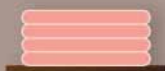
When it rains, rain water flowing along pipe hood may cause trace marks on the wall. The exclusively designed duct ring leads the water flow to get rid of traces on the wall.



With a standard pipe hood, rain water may cause trace mark on the wall



The water-cut plate of duct ring leads water flow over the wall to avoid forming of trace mark on the wall





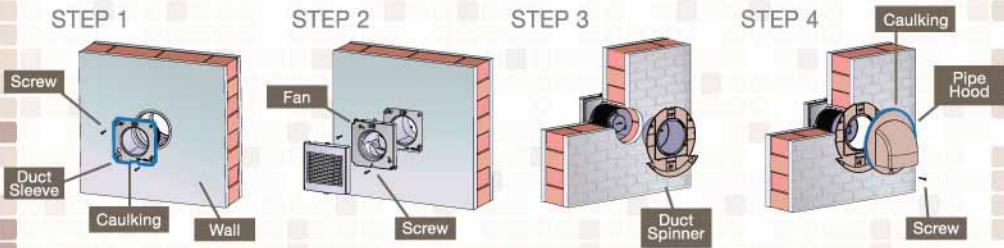
## All Accessories Included

The Moisture & Smell Exhauster includes all required accessories in the packaging. It provides you the most convenience for product purchase, and also saves your time for seeking available accessories in the market.



## Easy Installation

The Exhauster is well-designed to facilitate the installation of product. With the supplied accessories, only 4 steps are required to complete the set up of fan.



Insert and fix from inside wall, then caulk

Connect power wires and fix fan

Screw and fix from outside wall

Hang and fix pipe hood, then caulk



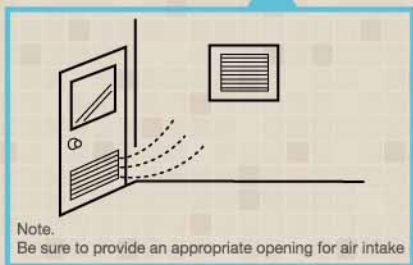


## Recommendation of Application

The Moisture & Smell Exhauster can be installed in bathrooms and toilets to exhaust excess moisture or offensive odors from the room. It lets you have a comfortable and clean bath environment.



Exhaust  
Intake



*Moisture & Smell Exhauster provides a reliable ventilation for you*



## Why Not Ventilation by Open Window?

Ventilation by opening window is neither effective nor reliable since it relies heavily on environmental conditions.

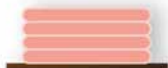
Ventilation fan is necessary to remove excess moisture from the bathroom

Air enters on the windward side



Window is opened to let indoor air go outside

Ventilation by Opening Window





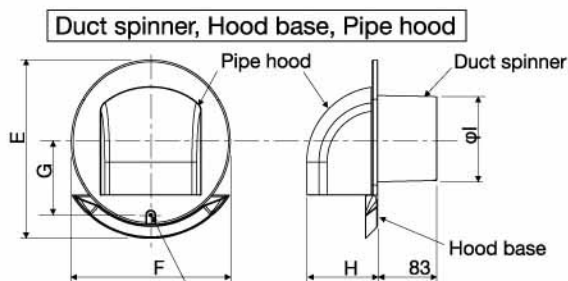
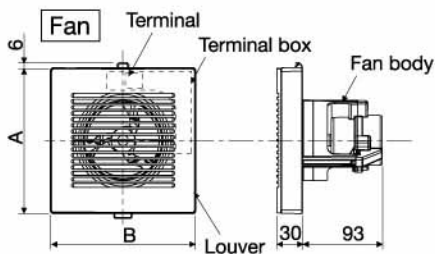
# Specification

	10EGKA		15EGKA	
	50Hz	60Hz	50Hz	60Hz
Air Volume [m <sup>3</sup> /h]	75	80	160	180
Power Consumption [W]	5.5	4.4	6.2	8.5
Noise [dB (A)]	33.0	34.0	34.0	38.0
Rotation Speed [min <sup>-1</sup> ]	2706	2888	2329	2647
Weight [kg]	1.2		1.5	

- The values in specification table are representative characteristic value at 220V.
- Values in power consumption, noise and rotation speed, are specified at static pressure of 0 Pa.
- This specifications are specified with duct sleeve , duct spinner and pipe hood.
- Rotation Speed data are reference only.



# Dimension (Unit: mm)

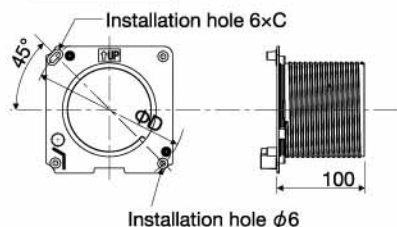


Installation hole  $\phi 5$

unit : mm

	Installation Hole Dia.	Wall Thickness
10EGKA	$\phi 135 \pm 5\text{mm}$	100-150mm
15EGKA	$\phi 180 \pm 5\text{mm}$	

## Duct sleeve



Installation hole  $\phi 6$

	A	B	C	D	E	F	G	H	I
10EGKA	170	170	9.3	177	250	220	107	99	120
15EGKA	220	220	11.5	221	310	270	142	138	165

- Specifications are subject to change without prior notice.
- Actual colors may vary slightly from those shown.



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