Wall Fan

F-MU44R-WT

Features

- Full Multi-functional Remote Control With On/Off Function, 3-speed Control, Timer Setting And Oscillation Control
- 1,3,6-Hour Timer
- Ball-bearing Motor
- Thermal Safety Fuse

Blade Size

Width: 40cm (16")

Colour

White







F-MU453VBHH

Features

- 3-speed On/Off Pull Switch
- Oscillation Control By Pull Switch
- Durable Condenser Motor With Permanently Lubricated Ball-bearing Assembly
- Transparent Plastic Blades
- Thermal Safety Fuse

Blade Size

Width: 45cm (18")

Colour

Dark Grey





F-MU408-WT / F-MU308-WT

Features

- 3-blade design for Better Air Delivery
- 3-speed On/Off Pull Switch
- Oscillation Control By Pull Switch
- Durable Condenser Motor With Permanently Lubricated Ball-bearing Assembly
- Transparent Plastic Blades
- Thermal Safety Fuse

Blade Size

40cm (16") - F-MU408-WT 30cm (12") -F-MU308-WT

Colour

White



F-MU408-WT



F-MU308-WT





F-MU405VBHH

Features

- 5-blade design for Better Air Delivery
- 3-speed On/Off Pull Switch
- Oscillation Control By Pull Switch
- Durable Condenser Motor With Permanently Lubricated Ball-bearing Assembly
- Transparent Plastic Blades
- Thermal Safety Fuse

Blade Size

Width: 40cm (16")



Dark Grey









Airflow surrounding for normal wall fan and F-MU405VBHH

Silent Operation low noise with 52dB





F-MU405VBHH

Features

- Thermal Safety Fuse
- Regulator 5-speed Selection
- Transparent Plastic Blades
- 360° Oscillation Circle
- Durable Condenser Motor
- Adjustment Angle 15°, 30° And 50°

Blade Size

Width: 40cm (16")

Colour

Dark Grey / White







Healthy Air Exchange for a Healthy Living Environment

Panasonic Ventilation Fans ensure you and everyone in your home can enjoy a healthy, fresh environment.

Benefits

What are the existing indoor air quality problems in your house?

Recently, there are reports showing that people having poor physical conditions. It is due to chemical substance emission from new-built or reformed houses which causes indoor air quality problem.

The symptoms due to poor indoor quality include eyes/throat nausea, feeling unwell, skin irritation, headache, dizziness, breathing problem and so on. Furthermore, chemical substances like formaldehyde, can lead to deterioration of allergic illness.

Hazardous indoor chemical substances can be categorized into 3 groups

Chemicals Substance	Origin
Formaldehyde (HCHO)	Plywood Board, Flooring,
Volatile Organic Compounds	Furniture, Wall Paper
• Toluene, Xylene, Trimethyl Benzen	,
Phosphoric Acid Triester (TCEP)	Non-Flammable Vinyl Cloth
Organnic Phocphoric	Pesticides



Materials like adhesives used on walls and floors will continuously release chemical substances over a period of time.



Floor and bathroom sinks are targeted area for termites to inhabit

High humidity from bathrooms (especially the floor) will attract termites to inhabit.





Water vapor created from cooking attracts molds to grow Water vapor is created from burning fuels. Also, the dirt from the burning fuels speed up the growth of molds.



Chemical substances from the floor Although natural flooring material looks safe, gloss wax from the floor (for example) may emit chemical substances.



Fabric sofa and stuffed toys Scurf and dander from human and pets attract mites. Thus, it is important to be cautious with fabric sofa and stuffed toys

in your homes.



Bathroom with high humidity inhabits mold

Bathrooms which are known as area with high humidity can cause the formation of mold. You are advised to clean the bathroom without leaving any soap residue.

Mites

There are around 30 types of mites which can be found in homes. In general, most



mites do not cause any harm to humans. However, sting mites like House Mite and Dust Mite group can cause allergen.

Termites

Termites are terror to the house as they will cause damages to furniture, floor, wall, roofs and



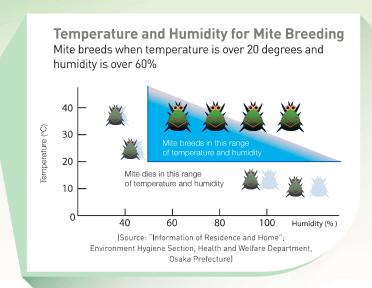
Formaldehyde (HCHO)

Volatile Organic Compounds (VOC) like Formaldehyde generated from building materials and/or home furniture can easily cause

indoor air



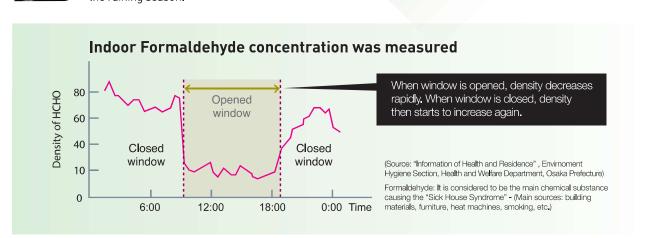
pollution.



Mold



when humidity increases. Mold not Mold breeds faster only damages our home appearance, it also emits bad odors and it is bad for health. The growth of mold increases during rainy season and its spores will disperse around at the end of the raining season.

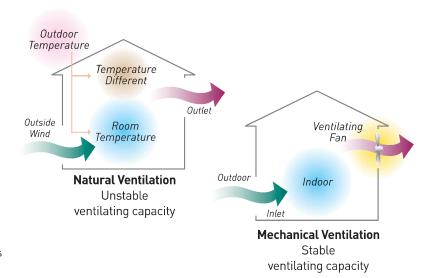


Ways to Improve Indoor **Air Quality**

The first step to improve indoor air quality is to reduce or remove the source of pollutants. Unfortunately, indoor air pollutants are virtually impossible to eliminate completely.

The alternative towards improving indoor air quality is via ventilation. Ventilation is divided into two types: Natural Ventilation and Mechanical Ventilation.

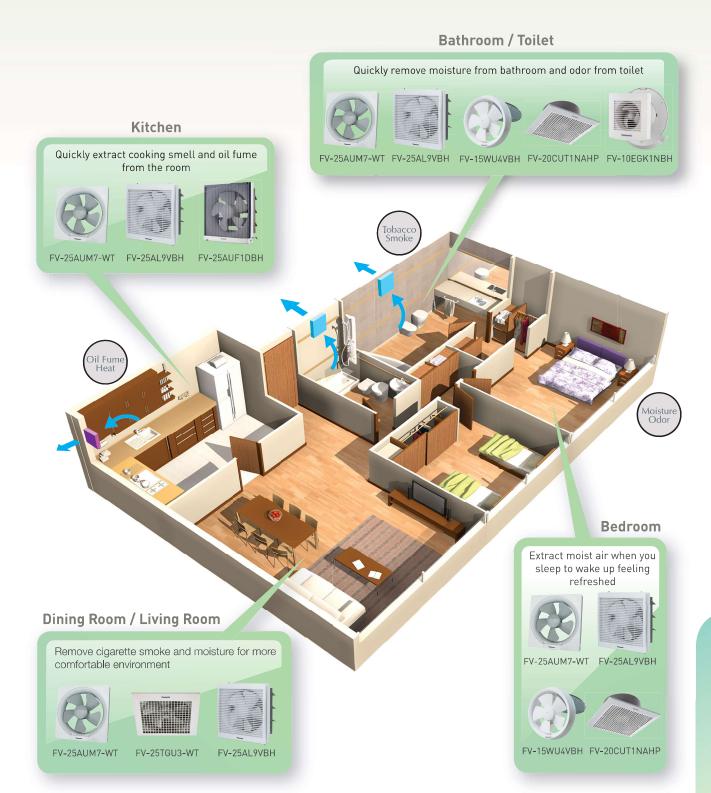
Natural Ventilation is neither consistent nor reliable since it heavily relies on wind and weather conditions. Mechanical ventilation removes stale, moist, polluted air and replaces it with fresh air by using a ventilating fan.



Benefits

Our Recommendation For Indoor Air Quality

Bathroom, toilet and kitchen are the places with high concentration of contaminants. When these places are being used, ventilation fans should be operated to extract the pollutants directly to outside before they spread throughout the rooms.





Ventilation Schedule

	l: Type of room	II: Ne	cessary frequen	cy of ventilation per hour	
	I	Ш		T.	II
Hotel	Dance Hall	8	Photo Studio	Dark Room	10
	Dining Hall	8	School	Laboratory	6
	Kitchen	15		Cooking Room	15
	Hallway	5		Auditorium	6
	Toilet	5		Gymnasium	8
	Lavatory	10		Toilet	12
	Boiler Room	20		Library	6
	Laundry	15		Classroom	6
Hospital	Waiting Room	10	Theatre	Auditorium	6
	Clinic	6		Hallway	6
	Ward	6		Smoking Room	12
	Bathroom	5		Toilet	10
	Office	6		Projection Booth	20
	Restaurant	8		Workroom	6
	Kitchen	15		Telephone Switch Board Room	6
	Gallery	5	Factory	Painting Room	20
	Toilet	10		Dynamo Room and Substation	20
	Boiler Room	10		Condenser Room	15
	Laundry	15		Office	6
	Operating Room	15	Restaurant &	Restaurant	6
	Disinfecting Room	12	snack bar	Kitchen	20
	Room for the Patients Receiving		Office	Office	6
	Medical Treatment for	10	Building	Waiting Room	10
	The Diseases of Respiratory Organs			Conference Room	12
Public Toilet		20		Display Room	10
Vessel	Passenger Room	6		Toilet	10
Home	Kitchen	15			
	Parlor	6	Rooms where po	isonous or Inflammable gas is produced	More
	Living Room	6			than 20
Library	Reading Room	6			

Benefits

Wall Mount Ventilation Fan

These fans shall be installed in and exhaust air through a wall. They are equipped with outside shutters which will open when the fan is on and vice versa. There is a wide range of products, either blade size or functions, that can fit to various requirements.

Filter type collects oil effectively that is ideal for the use in kitchen. Louver Type provides additional safety protection from finger reach while the Bathroom Series has a powerful exhaust capacity to remove moisture and smell in bathroom and toilet.

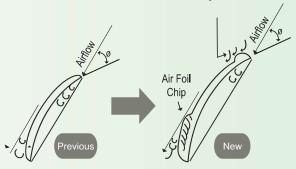


Advanced Blade Design

New blade design applies advanced aerodynamic principle that minimizes any obstacles against the airflow.



Leading Edge forms no obstacle to airflow that streamlines airflow from every direction



Air Foil Chip is to reduce turbulence at rear edge, and curvature of front edge is improved for smooth airflow that minimizes fan noise as well.

New HP Motor & Bearing

Compared with previous models, new models adopt high performance condenser motor and long life bearing that prolong the product durability, from average 30,000 hours life time to 60,000 hours. It enables saving by reducing power consumption down to average 13%.





Features (Applicable for FV-10EGK1NBH / FV15EGK1NBH)

Compact and Stylish

Compact size with powerful exhaust capacity can fit most bathrooms up to 7.5m³ and 15 m³ respectively. Moreover, the slim and elegant design of front louver match any modern decor perfectly.

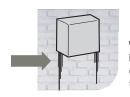
All Accessories Included

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



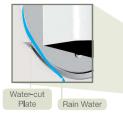
Trace-Prevention

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



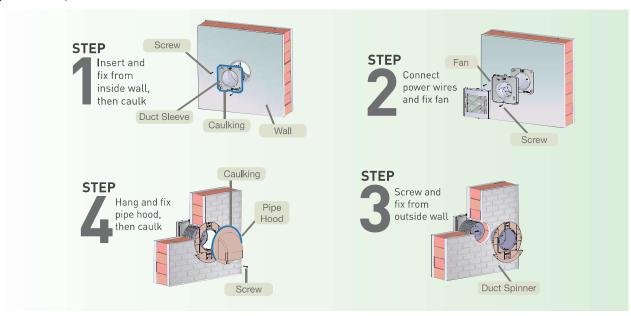




The water-cut plate of duct ring leads water flow over the wall to avoid forming of trace mark on the wall

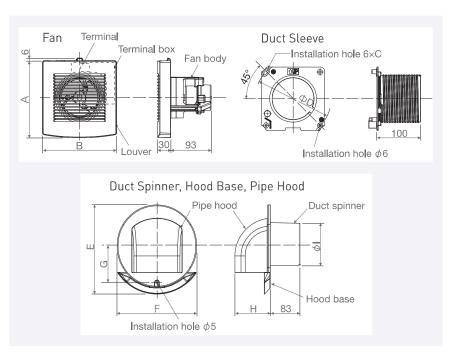
Easy Installation

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



FV-10EGK1NBH / FV-15EGK1NBH





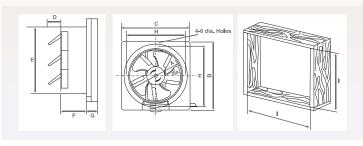
- Easy Installation
- All Accessories Provided
- (Including External Duct Cap)
- Thermal Safety Fuse
- Suitable For Bathrooms

Model	Installation Hole Dia.	Wall Thickness				m	m				
	mm	mm	Α	В	С	D	E	F	G	H	
FV-10EGK1NBH	ø135 <u>±</u> 5	100-150	176	170	9,3	177	250	220	107	99	120
FV-15EGK1NBH	ø180 <u>±</u> 5	100-150	230	220	11.5	221	310	270	142	138	165

FV-20AUM8 / FV-25AUM7-WT / FV-30AUM8

Features

- Unique Q-blades For Low Noise
- Energy-saving, High Performance Motor
- Ball-Bearing Motor For Smoother And Durable Operation
- Automatic Shutters
- Buit-in Oil Receptor
- Simple And Easy Installation (Non-duct)
- Thermal Safety Fuse
- Suitable For Kitchens



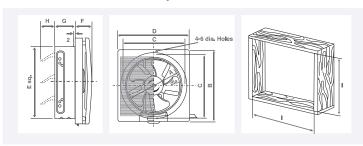


Model	Si	ze					mm				
	cm	inch	Α	В	С	D	E	F	G	H	*
FV-20AUM8	20	8	200	300	300	83	240	90	45	260	250
FV-25AUM7-WT	25	10	250	350	350	70	290	90	40	310	300
FV-30AUM8	30	12	300	400	400	81	340	90	40	360	350

^{*} Opening Hole Size

FV-20AL9VBH / FV-25AL9VBH

- New Front Louver Design For Neater Outlook And Better Safety
- New Blade Design To Improve Efficiency
- Ball-Bearing Motor For Smoother And Durable Operation
- Automatic Shutter
- Thermal Safety Fuse
- Suitable For Kitchens And Living Rooms



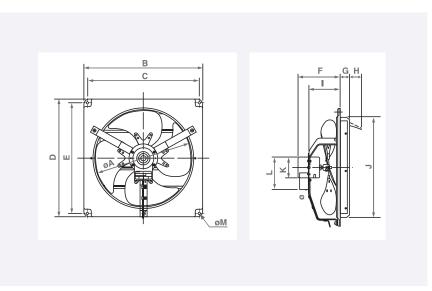


Model	Si	ze					mm				
Model	cm	inch	Α	В	С	D	E	F	G	H	I *
FV-20AL9VBH	20	8	200	306	260	302	240	88	90	80	250
FV-25AL9VBH	25	10	250	356	310	352	290	68	90	63	300

^{*} Opening Hole Size

FV-40KUTNAHP (Industrial)





- Large Metal Blade Assembly For Abundant Air Volume
- Possible To Install Horizontally
- Built-in Safety Thermal Fuse
- Powerful, Efficient And Durable Condenser Motor
- Ideal For Workshops, Bakeries & Warehouses

1	Model	Si	ze							mm						
ı		cm	inch	Α	В	С	D	E	F	G	Н		J*	K	L	M
(FV-40KUTNAHP	40	16	410	510	480	510	480	181	40	52	133	434	90	141	10

^{*} Opening Hole Size





Easy Maintenance

Our design is easy to dismantle and reassemble for cleaning.

Unique Q-blades For Low Noise

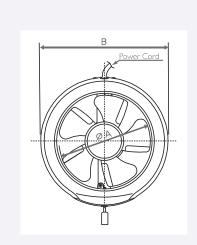
Uniquely designed blades to ensure minimal noise disruption during operation.

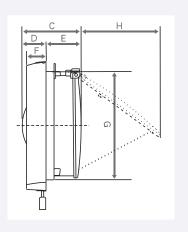
Thermal Safety Fuse

Safety fuse ensures that no accidents occur, even when there is a spike in current.

FV-15WU403V/ FV-20WU403V







- Thermal Safety Fuse
- Installed Directly Into The Glass Window, Window Panel Thickness (From 3mm - 7mm)
- Easy To Remove And Disassemble For Cleaning
- Cord Operated Shutter For Easy Operation
- Suitable For Bathrooms And Toilets

Model	Si	ze				m	m				
	Wodel	cm	inch	Α	В	С	D	E	F	G*	H
ı	FV-15WU4VBH	15	6	150	210	97	43	54	37.4	177	149
Į	FV-20WU4VBH	20	8	200	271	98	36	62	36	237	201

^{*} Opening Hole Size



Ceifing Mount

Easy Maintenance

Our design is easy to dismantle and reassemble for cleaning.

Unique Q-blades For Low Noise

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Uniquely designed blades to ensure minimal noise disruption during operation.

Thermal Safety Fuse

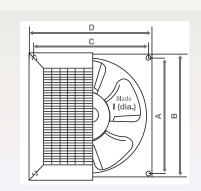
Safety fuse ensures that no accidents occur, even when there is a spike in current.

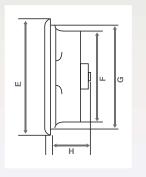
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FV-15TGUZ-WT / FV-25TGU3-WT

Features

- Q-blades For Low Noise Operation
- Automatic Oil Circulation For Smoother And Durable Operation
- Easy To Install
- Built-in Safety Thermal Fuse
- Suitable For Offices And Bedrooms



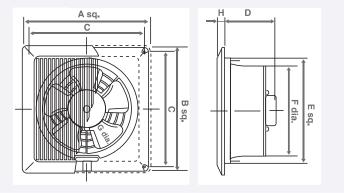


Model	Si	ze					mm				
	cm	inch	Α	В	С	D	E	F	G*	H	
FV-15TGUZ-WT	16	6.4	230	244	230	244	253	174	214	108	160
FV-25TGU3-WT	25	10	336	355	336	355	365	272	310	117.5	250

^{*} Opening Hole Size

FV-20CUT1NAHP

- Unique Q-blades For Low Noise
- Energy-saving, High Performance Motor
- Ball Bearing Motor For Smoother And Durable Operation
- Easy To Disassemble For Cleaning And Maintenance
- Easy To Install
- Built-in Safety Thermal Fuse
- Suitable For Offices And Bedrooms



Model	Si	ze		mm									
Model	cm	inch	Α	В	С	D	E*	F	G	Н			
FV-20CUT1NAHP	20	8	315	305	286	128	260	223	200	18			

^{*} Opening Hole Size

VENTILATION FAN

Features

- Energy Saving
- Quiet Operation
- Compact and Stylish
- Powerful, Efficient and Durable Ball Bearing Motor
- Easy Installation
- Easy Maintenance
- Suitable for Bedrooms, Bathrooms, Living Rooms & Offices
- Built-in Safety Thermal Fuse

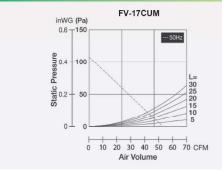
Friction Factor

- Aluminium flexible duct 0.03~0.04
- PVC pipe 0.01~0.02
- Galvanized steel pipe 0.016~0.025

Colour

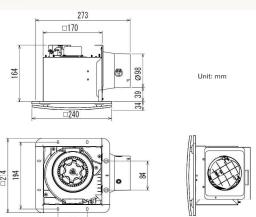
Silver

Static Pressure Performance Data



CEILING MOUNT SIROCCO FV-17CUMVBSH





Features

- Energy Saving
- Quiet Operation
- Compact and Stylish
- Powerful, Efficient and Durable Ball Bearing Motor
- Easy Installation
- Easy Maintenance
- Suitable for Bedrooms, Bathrooms, Living Rooms & Offices
- Built-in Safety Thermal Fuse

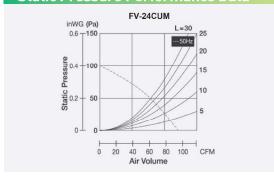
Friction Factor

- Aluminium flexible duct 0.03~0.04
- PVC pipe 0.01~0.02
- Galvanized steel pipe 0.016~0.025

Colour

Silver

Static Pressure Performance Data



CEILING MOUNT SIROCCO FV-24CUMVBSH



