IMPORTANT OF INDOOR AIR QUALITY (IAQ)

It's the air that human consume the most in a day.

**AIR**
- 18 kg/person-day
- Protect unnecessary material from the outside

**WATER**
- 1.2 kg/person-day
- Distribution of air within an enclosed space (antibacterial, deodorization & etc)

**FOOD**
- 1.3 kg/person-day
- Exhaust unnecessary material to the outside

IAQ Solution

We propose to improve IAQ by optimized “supply”, “circulation” and “exhaust” products from the residential house to commercial building.

Air pollution material PM2.5

- **Supply**
- **Circulation**
- **Exhaust**

Polluted material inside the house

- human
- life act
- furniture + instrument
- combustion gas

- exhaust gas
- NOx, SOx, SPM
- animals
- plant
dust, bacteria
- [mold, virus]
- insects

- natural phenomena
- wind, dust, moisture, dry, heat
CEILING FAN

Enjoy a Natural, Comfortable and Relaxing Environment

Ceiling fans create a strong airflow and also aid the circulation of cool air from air conditioning systems. Panasonic Ceiling Fans combine innovative technology with beautiful contemporary designs.
Compact. Quiet. Saves.

**DC Motor**

How it works?

- AC motor VS DC motor
  - AC (Alternative Current) motor connects directly to a power source where it creates the moment of force required to rotate the motor’s rotor.
  - As for DC (Direct Current) motor; the direct (AC) power source will be connected to a transformer which converts the power to DC. The effect will decrease the amount of power used by a direct current instead of the alternating current. The motor’s rotor will then be rotated by using a system of magnets of opposing polarity where this process requires less electrical energy.

DC Motor is more compact & half the size of AC motor

- Advantages of a DC motor:
  1. Uses less energy ~ up to 35% compared to AC motor
  2. Quiet operation
  3. More compact and lighter motor


**ECONAVI**

1. **ECONAVI Integrated Circuit**
   - This intelligent microprocessor analyses information from the sensor and adjusts the fan speed to optimum conditions.

2. **Temperature Sensor**
   - Detects surrounding temperature.
What is ECONAVI?
ECONAVI Intelligent Sensor detects unconscious waste of energy using the temperature sensor. It is able to monitor surrounding temperature and adjust the fan speed automatically to give the most comfortable air to human body. While adjusting the fan speed, it saves energy efficiently with uninterrupted comfort and convenience.

How it works.
Senses
ECONAVI features intelligent surrounding temperature detection that sensors every 3 minutes.

Self-Adjusts
ECONAVI feature will adjust speed automatically to give the most comfortable air to human body according to the surrounding temperature and room conditions.

ECONAVI-Temperature Sensor
56% energy saving when in ECONAVI mode
Accumulated 15 minutes after start.

Saves
ECONAVI with smart eco sensor now has the abilities to detect and reduce energy waste. You can now enjoy more saving of up to 64%*
Benefits of Ceiling Fan

If Ceiling Fan with Econavi operation is used
Almost the same sensible temperature is maintained by changing of wind velocity according to variations in temperature.

If Air Conditioner and Ceiling Fan with Econavi operation are used
- Maintain amenity before the air conditioning reaches the preset temperature.
- Even air conditioning pauses when the desired temperature is reached, cool feeling is retained.
- Energy saving is realized as power consumption is reduced while optimum performances of both ceiling fan and air conditioner are achieved.

Air conditioner and ceiling fan is used with Econavi

Room Temperature
30°C

Comfort
9-Norch

Sensible Temperature
27.8°C

Comfort Eco
26.7°C

Above figure illustrates the effect of using air conditioner and ceiling fan with Econavi. The fan speed is adjusted according to room temperature mentioned by the intelligent thermal sensor. Room temperature decreases to 28°C over a period, while the sensible temperature could be maintained to 26.7°C, which is said to be most comfortable to human body*.

* By ASHRAE American Society of Heating, Refrigerating and Air-conditioning Engineers Input at Near 1971.

Air conditioner and ceiling fan is used without Econavi

Room Temperature
30°C

For Speed
9-Norch

Sensible Temperature
27.8°C

Cold
28.9°C

This figure illustrates the effect of using both air conditioner and ceiling fan without ‘Econavi Mode’. The fan operates at high speed continuously. Room temperature decreases to 28°C over a period, while the sensible temperature decreases to 26.9°C, possible resulting the human body to feel cold.

Only air conditioner is used

Room Temperature
30°C

Sensible Temperature
31.4°C

HOT
29.4°C

This figure illustrates the effect of using air conditioner only. The air conditioner operates without a ceiling fan. Room temperature decreases to 28°C over a period, while the sensible temperature is kept at 29.4°C that unable to achieve the optimum efficiency.
Benefits of Ceiling Fan

1. Thermal Sensor detects room temperature
2. Motor speed is adjusted changing of wind velocity according to measured data
3. Actual data is monitored temperature difference around the ceiling fan is corrected by actual measured data.

What is Sensible Temperature?
Sensible Temperature is the temperature felt by human being. It is not the same as the thermometer reading. Surrounding air circulation is one of the important factors reflecting the effect of the temperature. We lose heat when we expose to cold air. The greater the wind speed, the faster we lose heat.

For instance, compared with the one under light breeze, you may feel much colder if you are exposed to strong wind, even if the room temperature is the same.

Sensible Temperature

Comfortable - 1/1 Yuragi* [Natural Breeze]
(Applicable for F-M156W, F-M120X YE00, F-M15H5, F-M14W, F-M15E2 & F-M14E2)

These fans are equipped with 1/1 Yuragi function which is a fluctuating pattern to generate a gentle breeze. By this sophisticated formula, in varying air velocity and controlling wind force, these new ceiling fans gives you a peaceful and comfortable feeling.

Current function: rhythm breeze
Speed notch toggles by 4 seconds regularly

This regular pattern decreases the body temperature after a period of time. Therefore, you may feel anxious and uncomfortable when the wind velocity changes.

New function: 1/1 Yuragi
Speed notch toggles based on Yuragi pattern

Incorporated with this human-concerned technology, this kind of rhythm maintains your external body temperature by giving you a feeling of natural wind when there is a change of wind velocity.

Comment after 20 minutes usage

<table>
<thead>
<tr>
<th>Cold</th>
<th>Comfort</th>
</tr>
</thead>
<tbody>
<tr>
<td>15%</td>
<td>36%</td>
</tr>
<tr>
<td>27%</td>
<td>27%</td>
</tr>
</tbody>
</table>

Less Heat released at exposed body parts
More Continuous Wind

1/1 Yuragi Wind Flow
While enjoying the comfortable cooling effect, it prevents body temperature from dropping.

Less Heat released at exposed body parts

Body will get less if exposed to constant air velocity for a long time.
Features

Excellent - 3D Blade
( Powerful Airflow)
(Applicable for F-M15SW, F-M120XVBH01H, F-M150X, F-M140X, F-M152X, F-M142X)

With the exclusive and unique 3D blade design, it provides a smooth and strong air flow while maintaining operating noise in low level.

Caring - Sleep Mode
(Applicable for F-M15SW, F-M120XVBH01H, F-M150X, F-M140X, F-M152X, F-M142X)

These fans are equipped with Sleep Mode, by which fan speed and timer will gradually reduce until the fan is off. This function not only creates an optimal sleeping environment but also enhances energy saving as well.

ON TIMER
(Applicable for F-M15SW, F-M120XVBH01H, F-M150X, F-M140X)

With the 'ON TIMER', the ceiling fan can now be set to switch on automatically after the selected hours. It is best used to compliment with your air conditioner when you sleep at night. You can now set your fan to automatically ON to cool your room before you get home on a hot day.

Convenient - LCD Remote Controller
(Applicable for F-M15SW, F-M120XVBH01H, F-M150X, F-M140X)

All functions can be operated by simply using the LCD remote controller. With clear speed selection, timer indication and mode selection displayed at the LCD panel, it provides great convenience and ease for you to operate.

1 On/Off Button
Press On/Off Button to activate or deactivate the ceiling fan.

2 Speed Button
Press to switch speed to cooling environment or fan speed (F-M15SW, F-M120XVBH01H, F-M150X, F-M140X).

3 Kururi Button
One touch button for natural breeze.

4 Sleep Mode Button
Gradually reduce fan speed according to the timer setting.

5 Timer Select Button
Press to select timer: On timer, 30 minute timer, 60 minute timer.

6 Time Set Button
Press to set time.

7 Auto Mode Button
Press to set or release auto mode (F-M150X, F-M140X)

8 Light Mode Button
Press to on and off light (F-M150X, F-M140X)
Safety Features

To pursue a higher quality of life, ceiling fans are expected to have more functions and value-added features. However, it is also crucial to consider the safety and reliability features of the fan when you select a ceiling fan.

Safety Policy by Panasonic

Preventive Measures
For Safety Panasonic aims to minimize and reduce accidents to occur. Thus, Panasonic practices safety policy to prevent any dangerous mishaps.

Cut-off Safety Switch

Problem
If there is any damage at either the shaft or the bolt due to improper installation, abnormal wobbling from fan will occur when it operates. The damage will cause the shaft or the bolt to break if the fan continues to operate.

Preventive Measures
When there is excessive wobbling, the cut-off safety switch will be triggered and power supply will be cut off. The cut-off switch works by detaching the lever from the switch and the fan will stop.

If Motor stops
Stops using immediately and seek contact for qualified installers or authorized Panasonic service dealers for assistance.

Safety Blade Hook

Problem
The fan blade may detach from the fan motor should there be improper installation coupled with the fan blade wearing off, deformed blade shape or stronger wind blowing to the fan.

Preventive Measures
The broken blade will be visibly hanging with the aid of safety blade hook when the fan is functioning as shown in the picture as an indication.

If blade breaks:
Stop using immediately and seek contact for qualified installers or authorized Panasonic service dealers for assistance.

Safety Wire

Problem
Due to improper installation or should malfunction occur, the fan motor may detach from the pipe rod due to factors such as wearing of shaft bolt, etc.

Preventive Measures
The safety wire helps to secure the fan motor with the ceiling hook to prevent the motor from falling when the fan motor detaches from the pipe rod.

If need shorter/longer pipe
Contact qualified installers or authorized Panasonic service dealers for assistance.

Use the original pipe rod
Original pipe rod comes with the safety wire and safety cut-off switch in line with Panasonic safety policy. Also, do ensure the pipe rod is fully tightened to the motor shaft. (Bolt tightening torque is 800 ~ 1200 N·cm)

Wobbling Reduction Mechanism

Problem
Constant wobbling will cause the bolt, motor shaft and pipe rod to wear off which may cause breakage or falling of the fan to happen should the condition worsened.

Preventive Measures
The newly developed anti-wobbling structure helps to reduce wobbling between bolt, motor shaft and pipe rod. It can minimize the parts from wearing off and prevents from detaching the fan.

Panasonic CEILING FAN / SAFETY FEATURES
F-M15H5-QPI
(short pipe)

F-M15H5-RPI
(long pipe)

Features
- ECONAVI Feature
- DC Motor Technology
- Zurugi (Natural Breeze) Function
- Enhanced Safety Features
- Greater Air Delivery
- Durable Blades (PPG Material)
- LCD Remote Control with 9-sequential speed selection
- 1-8 Hour Off Timer
- 1-8 Hour On Timer
- 2-8 Hour Sleep Timer

Installation Space (unit:mm)

Dimension
- Width: 01500mm (67"
- Height: Short pipe (QPI): 290mm
- Long pipe (RPI): 367mm

Colour
- Platinum Silver

F-M14HW

Features
- ECONAVI Feature
- DC Motor Technology
- Zurugi (Natural Breeze) Function
- Enhanced Safety Features
- Greater Air Delivery
- Durable Blades (PPG Material)
- LCD Remote Control with 9-sequential speed selection
- 1-8 Hour Off Timer
- 1-8 Hour On Timer
- 2-8 Hour Sleep Timer

Installation Space (unit:mm)

Dimension
- Width: 01400mm (56"
- Height: 289mm

Colour
- Platinum Silver
LED Ceiling Fan

LED ceiling fans provide greater space with the lighting incorporated into the fan. It is used due to its long lifespan and also simply because it is energy saving.

85% Energy Saving*  
* LED light compared to incandescent bulb.

Hassle-free - No Bulb Replacement Needed
With the long lifespan of LED light, there is no need to constantly change your light bulb - and reduce garbage waste.

Brightness
Brightness: Up to 200 lx*

Power Consumption
Up to 22W**
22W LED light - Incandescent lamp 4 x 60W

Coverage*
< HIGH > 300lx
- 4m coverage - strong lighting
- 5m coverage - moderate lighting
- 6m coverage - weak lighting

Colour
<table>
<thead>
<tr>
<th>Model</th>
<th>Brightness</th>
<th>Light color</th>
</tr>
</thead>
<tbody>
<tr>
<td>High</td>
<td>FM15GW</td>
<td>Cool White</td>
</tr>
<tr>
<td>FM158K</td>
<td>150 lx</td>
<td>Cool Day Light</td>
</tr>
<tr>
<td>FM15E</td>
<td>150 lx</td>
<td>Cool Day Light</td>
</tr>
<tr>
<td>Mid-low</td>
<td>FM156W</td>
<td>Warm</td>
</tr>
<tr>
<td>FM157K</td>
<td>140 lx</td>
<td>Cool Day Light</td>
</tr>
<tr>
<td>FM15E</td>
<td>140 lx</td>
<td>Cool Day Light</td>
</tr>
<tr>
<td>Low</td>
<td>FM15KW</td>
<td>Warm</td>
</tr>
<tr>
<td>FM15E</td>
<td>75 lx</td>
<td>Cool Day Light</td>
</tr>
<tr>
<td>FM15E</td>
<td>75 lx</td>
<td>Cool Day Light</td>
</tr>
</tbody>
</table>

Light Evenness
LED cover has diffusion material that produces even light distribution

* Subject to selected models

Image of Room
General Lighting

LED Lighting Coverage*

Day Time
Ceiling fan in use without lighting

Night Time
Shadowed by lighting near the ceiling fan

4m
Strong light coverage

5m
Moderate light coverage

Fan without lighting

Night Time
Provides a uniform lighting to living space

8m
Weak light coverage

Fan with lighting

Installation Space (unit:mm)

Features
- LED lighting - 4 mode selection
- DC Motor Technology
- Yuragi (Natural Breeze) Function
- Enhanced Safety Features
- Greater Air Delivery
- Durable Blades (PPG Material)
- LCD Remote Control with 9-segment speed selection
- 1-8 Hour Off Timer
- 1-8 Hour On Timer
- 2-8 Hour Sleep Timer

Dimension
Width: 1500mm (60"")
Height: Short pipe (QPI): 327mm  
Long pipe (RPI): 405mm

Colour
Platinum Silver
F-M12GX VBHQH

Features
- LED lighting - 3 mode Selection
- DC Motor Technology
- Yuragi (Natural Breeze) Function
- Enhanced Safety Features
- Greater Air Delivery
- Durable Blades (PPG Material)
- LCD Remote Control with 9 Sequential Speed Selection
- 1-8 Hour Off Timer
- 1-8 Hour On Timer
- 2-8 Hour Sleep Timer

Installation Space (unit:mm)

Dimension
- Width: Ø1000mm [40"
- Height: 337mm

Colour
Dark Grey
**F-M15E2**

**Features**
- 5-blade design
- Yuragi (Natural breeze) Function
- Enhanced Safety Features
- Remote Control With 5 preset speed
- Greater Air Delivery
- 1, 3, 6 hour Off and Sleep Timer
- Durable Blades (PPS material)

**Installation Space (unit:mm)**

- **Dimension**
  - Width: Ø1500mm (60")
  - Height: 401mm
- **Colour**
  - Silver

---

**F-M14E2**

**Features**
- 4-blade design
- Yuragi (Natural breeze) Function
- Enhanced Safety Features
- Remote Control With 5 preset speed
- Greater Air Delivery
- 1, 3, 6 hour Off and Sleep Timer
- Durable Blades (PPS material)
- Most Suitable For Low Ceiling

**Installation Space (unit:mm)**

- **Dimension**
  - Width: Ø1600mm (63")
  - Height: 330mm
- **Colour**
  - Silver Grey
New Blade Design
Innovative blade design optimizes air delivery while ensuring quiet, smooth operation. Suitable for any decor.

Speed Control
Correct fan functions with a simple touch.

1, 3, 6-hour Off Timer
Reset your fan to shut off after selected time range, regardless of selected speed.

3, 6-hour Sleep Timer
Gradually decreases fan speed till it powers off while you sleep.

Enhanced Safety Features
- Blade hooks prevent any mishaps should blade screws give away.
- Thermal safety fuse protects fan from electrical surges.
- Safety limit switch shuts off fan if any malfunctions occur.

Installation Space (unit:mm)

<table>
<thead>
<tr>
<th>Features</th>
<th>Dimension</th>
<th>Colour</th>
</tr>
</thead>
<tbody>
<tr>
<td>6-blade design for Better Air Delivery</td>
<td>Width: Ø1400mm (55&quot;)</td>
<td></td>
</tr>
<tr>
<td>Enhanced Safety Features</td>
<td>Height : 499mm</td>
<td></td>
</tr>
<tr>
<td>1, 3, 6-Hour Off Timer</td>
<td>Dark Grey</td>
<td></td>
</tr>
<tr>
<td>3, 6-Hour Sleep Timer</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**F-M14D5 VBPH**

**BAYU 5**

- 6-blade design for Better Air Delivery
- Enhanced Safety Features
- Remote Control with 3-Preset Speed
- 1, 3, 6-Hour Off Timer
- 3, 6-Hour Sleep Timer

**Installation Space (unit:mm)**

- Width: 914mm
- Height: 429mm
- Colour: Brown

**Dimension**

- Width: 914mm
- Height: 429mm

---

**F-M14D5 WT**

**BAYU 5**

- 6-blade design for Better Air Delivery
- Enhanced Safety Features
- Remote Control with 3-Preset Speed
- 1, 3, 6-Hour Off Timer
- 3, 6-Hour Sleep Timer

**Installation Space (unit:mm)**

- Width: 914mm
- Height: 429mm
- Colour: White

**Dimension**

- Width: 914mm
- Height: 429mm
F-M14C5 DG

**Features**
- 4-blade Design
- Enhanced Safety Features
- Remote Control with 3-Preset Speed
- 1, 3, 6-Hour Off Timer
- 3, 6-Hour Sleep Timer

**Dimension**
- Width: 1140mm (45")
- Height: 385mm

**Colour**
- Dark Grey

**Installation Space (unit:mm)**

---

F-M14C5 VBPH

**Features**
- 4-blade Design
- Enhanced Safety Features
- Remote Control with 3-Preset Speed
- 1, 3, 6-Hour Off Timer
- 3, 6-Hour Sleep Timer

**Dimension**
- Width: 1140mm (45")
- Height: 385mm

**Colour**
- Brown
F-M12D2

Regulator Ceiling Fan

5-speed Electronic Regulator
Provides you a variation of speed – from soothing breeze to the strong breeze selection to suit your needs

Enhanced Safety Features
Safety limit switch cuts the power supply should any malfunctions occur
Blade safety plate prevent any mishaps should blade screws give way.
Safety wire keeps the fan intact to prevent mishaps.
Thermal safety fuse protects fan from electrical surges.

Technologically Advance Motor
Durable motor that provides you maximum breeze without minimal noise.

Features
- New 3-blade Design
- Enhanced Safety Features
- Remote Control with 3-Preset Speed
- 1, 3, 6-Hour Off Timer
- 3, 6-Hour Sleep Timer
- No hook required
- Hanger plate included

Installation Space (unit:mm)

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Width: 61200mm (4ft)</th>
<th>Height: 295mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Silver</td>
<td></td>
</tr>
</tbody>
</table>

Panasonic CEILING FAN / PRODUCT LINE-UP
F-M15A0
Regulator Fan

Features
- 5-speed Electronic Regulator
- Low Noise
- Wider Sweeping Blades
- Enhanced Safety Features
- Durable, Technologically Advanced Motor

Installation Space (unit:mm)

Dimensions
Width: Ø1500mm (60"
Height: 639mm

Colour
White

F-M15A0 GY
Regulator Fan

Features
- 5-speed Electronic Regulator
- Low Noise
- Wider Sweeping Blades
- Enhanced Safety Features
- Durable, Technologically Advanced Motor

Installation Space (unit:mm)

Dimensions
Width: Ø1500mm (60"
Height: 639mm

Colour
Dark Grey
F-M15B0
Regulator Fan

Features:
- 5-speed Electronic Regulator
- Low Noise
- Wider Sweeping Blades
- Enhanced Safety Features
- Durable, Technologically Advanced Motor

Installation Space (unit:mm)

Dimension
Width: 01200mm (48")
Height: 439mm

Colour
Mid Gold

F-M12A0
Regulator Fan

Features:
- 5-speed Electronic Regulator
- Low Noise
- Wider Sweeping Blades
- Enhanced Safety Features
- Ideal For Small Rooms and Spaces

Installation Space (unit:mm)

Dimension
Width: 01200mm (48")
Height: 439mm

Colour
White
Feel a Greater Breeze Experience

Panasonic General Fan keep you in mind right out of the box. With easy assembly and maintenance, durable motors and one-touch oscillation angles.
Stand Fan
F-MT405

Features
- Thermal safety fuse
- Fully automatic oscillation
- Condenser motor
- 1-6 Hour timer

Dimension
Width: 40cm [16”]

Colour
- Drie forest brown

Stand Fan
F-MX405

Features
- Thermal safety fuse
- Fully automatic oscillation
- Condenser motor

Dimension
Width: 40cm [16”]

Colour
- Drie forest brown
- Champagne
- Purple blue

Table Fan
F-MN404

Features
- 3-Speed on/off switch
- Transparent plastic blades
- New condenser motor
- Thermal Safety Fuse

Dimension
Width: 40cm [16”]

Colour
- Aqua Blue
- Meadow green
- Grape purple

Table Fan
F-MN304

Features
- 3-Speed on/off switch
- Transparent plastic blades
- New condenser motor
- Thermal Safety Fuse

Dimension
Width: 30cm [12”]

Colour
- Aqua Blue
- Meadow green
- Grape purple
VENTILATION FAN

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 substances emission from newly built or reformed houses which causes indoor air quality problems.

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

Walls and Floors which occupies most of the area is the biggest enemy of clean air.

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

Beware of curtains, sofas and any other furniture that you brought in. Chemical substances will also be released from curtains, sofas and any other furniture.

Floor and bathroom sinks are targeted area for termites to inhabit. High humidity from bathrooms especially the floor will attract termites to inhabit.

Fabric sofa and stuffed toys can 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 inhibits 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.

Water vapor created from cooking attracts molds to grow. Water vapor is created from burning fats. Also, the dirt from the burning fat speeds up the growth of molds.

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

Mites
There are around 30 types of mites which can be found in homes. In general, most of the mites do not cause any harm to humans. However, small mites like Dust Mite and Wood Mite group can cause allergies.

Termites
Termites are terror to the house. As they cause damages to furniture, floor, wall, roof and building materials.

Formaldehyde (HCHO) Volatile Organic Compounds (VOC) like Formaldehyde generated from building materials can affect indoor air.

Mold
Mold grows on damp materials and hides in cold places. The growth of mold increases when humidity increases. Mold not only damages our health but also affects home appearance, it also emits bad smell.

Indoor Formaldehyde concentration was measured

When window is opened, density decreases rapidly. When window is closed, density then starts to increase again.

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, musty, 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 outside before they spread throughout the rooms.

Ventilation Schedule

The Number of Ventilation Fans Required

\[(A) \times (B) \times (C)\]

- **A**: Room size (M²) x (B): Necessary frequency of Ventilation per hour
- **C**: Air Volume of Ventilation Fan (M³)

**Note**:
- Room size (A) is calculated from the following equation:
- \[A = \text{Room area} \times \text{Room width} \times \text{Room height} \times 0.1\]
- If the actual room height is less than or equal to 2.8m, use a reduction factor of 0.75 in the calculation.

Values for (B) and (C) in the above equations are given in the table below. These values were empirically found by the research scientists. Values for (C) in the above equations are given in our catalog.
**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 all effectively that is ideal for the use in kitchen. Leaver 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.
- **Airfoil 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 prolonging the product durability, from average 30,000 hours life time to 40,000 hours. It enables saving by reducing power consumption down to average 13%.

**Easy Maintenance**

Our design is easy to dismantle and reassemble for cleaning.

**Unique Q-blades For Low Noise**

Uniquely designed blades ensure minimal noise disruption during operation.

**Thermal Safety Fuse**

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

Perforated Aluminium Filter – Durable
(Applicable for FV-25AUF1)
The filter is made out of aluminium material to ensure excellent durability and is easily detachable for cleaning and maintenance.

Oil Collecting – Environment Friendly
(Applicable for FV-25AUF1)
The perforated filter is capable to collect oil. It allows the air exhausted from outdoor is clean and reduces the air pollution of the surrounding.

Easy Clean Coating – Convenient
(Applicable for FV-25AUF1)
The perforated aluminium filter is processed with an easy-clean coating name “Hydrophobic Coating”. It is basically a paint composed of fluorine compounds particles that have small affinity with water or oil. This material has low surface tension allowing oil droplets falling on without adhering to the material.

ORDINARY COATING
- Oil spreads out and sticks firmly on the surface of the ordinary coating

HYDROPHOBIC COATING
- Oil droplets form spherical shape when falling on the material that can prevent adhering to the surface

Features
- Large Oil Collector/Cup
- Durable Perforated Aluminium Coated Filter For Easy Cleaning
- Excellent Exhaust Performance
- Advanced Blade Design
- HP Half-Pitch Motor
- Thermal Safety Fuse
- Suitable For Kitchens
Features
(Applicable for FV-10EGK1/15EGK1)

Compact and Stylish
Compact size with powerful exhaust capacity can fit most bathrooms up to 7.5m² and 15m² respectively. Moreover, the slim and elegant design of front cover match any modern decor perfectly.

All Accessories Included
The Moisture & Smell Extractor 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 head may cause trace marks on the wall. The exclusively designed duct ring leads the water flow to get rid of traces 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.

1. Insert and fix from inside wall, then caulk
2. Connect power wires and fix fan
3. Screw and fix pipe hood, then caulk
4. Screw and fix from outside wall

Features
- Easy Installation
- All Accessories Provided
- Including External Duct Cap
- Thermal Safety Fuse
- Suitable for Bathrooms

<table>
<thead>
<tr>
<th>Model</th>
<th>Installation Hole Dia</th>
<th>Wall Thickness</th>
<th>A</th>
<th>B Width</th>
<th>C Depth</th>
<th>D Height</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
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<tbody>
<tr>
<td>FV-10EGK1</td>
<td>4180 x 35</td>
<td>150</td>
<td>95</td>
<td>120</td>
<td>115</td>
<td>221</td>
<td>315</td>
<td>200</td>
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<td>166</td>
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<tr>
<td>FV-15EGK1</td>
<td>4180 x 35</td>
<td>150</td>
<td>95</td>
<td>120</td>
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<td>221</td>
<td>315</td>
<td>200</td>
<td>145</td>
<td>139</td>
<td>166</td>
</tr>
</tbody>
</table>
**FV-20AUM8 / FV-25AUM7 / FV-30AUM8**

**Features:**
- Unique O-Blades For Low Noise
- Energy-saving, High Performance Motor
- Ball-Bearing Motor For Smoother And Durable Operation
- Automatic Shutters
- Built-in Oil Receptor
- Simple And Easy Installation [Non-duct]
- Thermal Safety Fuse
- Suitable For Kitchens

**Specifications:**

<table>
<thead>
<tr>
<th>Model</th>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
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</tbody>
</table>

*Opening Hole Size:*

**FV-40KUTP**

**FV-20AL9 / FV-25AL9**

**Features:**
- Non-Front Louver Design For Noiser Outflow 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

**Specifications:**

<table>
<thead>
<tr>
<th>Model</th>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
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<th>F</th>
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<td>310</td>
<td>190</td>
<td>95</td>
<td>90</td>
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</table>

*Opening Hole Size:*

**Features:**
- 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

**Specifications:**

<table>
<thead>
<tr>
<th>Model</th>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
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<tr>
<td></td>
<td>60</td>
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<td>660</td>
<td>560</td>
<td>400</td>
<td>118</td>
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</tr>
</tbody>
</table>

*Opening Hole Size:*
Glass Mount

Easy Maintenance
Our design is easy to dismantle and reassemble for cleaning.

Unique D-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-15WU4 / FV-20WU4

Features
- Thermal Safety Fuse
- Installed Directly Into The Glass Window, Window Panel Thickness (From 2mm ~ 7mm)
- Easy To Remove And Disassemble For Cleaning
- Cord Operated Shutter For Easy Operation
- Suitable For Bathrooms And Toilets

<table>
<thead>
<tr>
<th>Model</th>
<th>Size</th>
<th>A (mm)</th>
<th>B (inch)</th>
<th>C (mm)</th>
<th>D (inch)</th>
<th>E (mm)</th>
<th>F (inch)</th>
<th>G (mm)</th>
<th>H (inch)</th>
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<tbody>
<tr>
<td>FV-15WU4</td>
<td>76</td>
<td>3.0</td>
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<td>FV-20WU4</td>
<td>93</td>
<td>3.7</td>
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<td>14.2</td>
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<td>2.3</td>
<td>317</td>
<td>12.5</td>
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</table>

* Opening Area 65cm²
Ceiling Mount

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-25TGU3
Features
- Q-blades For Low Noise Operation
- Automatic Oil Circulation For Smoother And Durable Operation
- Easy To Install
- Build-in Safety Thermal Fuse
- Suitable For Offices And Bedrooms

FV-20CUT1P
Features
- 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
- Build-in Safety Thermal Fuse
- Suitable For Offices And Bedrooms

Panasonic
VENTILATION FAN / PRODUCT FEATURES
**CEILING MOUNT SIROCCO**  
**FV-17CLM XVBSH/ FV-17CLM XVBBHH**

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

**Colour**
- Silver
- Grey

<table>
<thead>
<tr>
<th>Model</th>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
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<th>DUCT PIPE</th>
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<tbody>
<tr>
<td>FV-17CLM XVBBHH</td>
<td>Inch</td>
<td>12</td>
<td>120</td>
<td>198</td>
<td>185</td>
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<tr>
<td>FV-17CLM XVBBHH</td>
<td>Sp.</td>
<td>24</td>
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<td>198</td>
<td>185</td>
<td>24</td>
<td>68</td>
<td>130</td>
<td>254</td>
<td>230</td>
<td>10</td>
</tr>
</tbody>
</table>

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**CEILING MOUNT SIROCCO**  
**FV-24CLM XVBSH/ FV-24CLM XVBBHH**

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

**Colour**
- Silver
- Grey

<table>
<thead>
<tr>
<th>Model</th>
<th>Size</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
<th>DUCT PIPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>FV-24CLM XVBBHH</td>
<td>Inch</td>
<td>24</td>
<td>120</td>
<td>198</td>
<td>185</td>
<td>24</td>
<td>68</td>
<td>130</td>
<td>254</td>
<td>230</td>
<td>10</td>
</tr>
<tr>
<td>FV-24CLM XVBBHH</td>
<td>Sp.</td>
<td>24</td>
<td>120</td>
<td>198</td>
<td>185</td>
<td>24</td>
<td>68</td>
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<td>254</td>
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# Product Line-Up

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<thead>
<tr>
<th>ECONAVI</th>
<th>LED</th>
<th>NAMI</th>
<th>BAYU</th>
<th>REGULATOR</th>
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<td><img src="image4.png" alt="Image" /></td>
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<tr>
<td>5 Blades</td>
<td>F-M15H5 [60&quot;]</td>
<td>F-M15GW [60&quot;]</td>
<td>F-M14DG [60&quot;]</td>
<td>F-M14DS WT [58&quot;]</td>
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<td><img src="image7.png" alt="Image" /></td>
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</tr>
<tr>
<td>4 Blades</td>
<td>F-M14HW [60&quot;]</td>
<td>F-M14E2 [56&quot;]</td>
<td>F-M14C5 DG [56&quot;]</td>
<td>F-M14C5 WT [56&quot;]</td>
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<tr>
<td>3 Blades</td>
<td>F-M12GV V8CH [48&quot;]</td>
<td>F-M 12C2 [48&quot;]</td>
<td>F-M 14C2 [56&quot;]</td>
<td>F-M15A0 [60&quot;]</td>
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<td>- DC Motor Technology</td>
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<tr>
<td>- LED Lighting</td>
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<td>- Temperature Sensor</td>
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<td>- Yuragi</td>
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<td>- Remote Control</td>
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<td>- Enhance Safety Features</td>
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Panasonic PRODUCT LINE-UP
## Products Line-Up

<table>
<thead>
<tr>
<th>SERIES</th>
<th>TABLE FAN</th>
<th>STAND FAN</th>
<th>OSCILLATION FAN</th>
<th>WALL FAN</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Fan</td>
<td>F-MN404</td>
<td>F-MN304</td>
<td>F-MT405</td>
<td>F-MQ409/F-MQ409 DG</td>
</tr>
<tr>
<td>Size</td>
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<td>30cm (12&quot;)</td>
<td>40cm (16&quot;)</td>
<td>40cm (16&quot;)</td>
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</table>

<table>
<thead>
<tr>
<th>FEATURES</th>
<th>Size</th>
<th>Size</th>
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<th>Size</th>
<th>Size</th>
<th>Size</th>
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<td>40cm (16&quot;)</td>
<td>40cm (16&quot;)</td>
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## WALL MOUNT

<table>
<thead>
<tr>
<th>SERIES</th>
<th>WALL MOUNT</th>
<th>WALL MOUNT (INDUSTRIAL)</th>
<th>GLASS MOUNT</th>
<th>CEILING MOUNT</th>
<th>CEILING MOUNT SIROCCO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ventilation Fan</td>
<td>FV-25AUF1</td>
<td>FV-10EGK1 / FV-15EGK1</td>
<td>FV-15M3U / FV-20M3U</td>
<td>FV-25TL</td>
<td>FV-17CLM</td>
</tr>
<tr>
<td>Size</td>
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<td>10cm (4&quot;) / 15cm (6&quot;)</td>
<td>20cm (8&quot;) / 25cm (10&quot;)</td>
<td>40cm (16&quot;)</td>
<td>15cm (6&quot;) / 20cm (8&quot;)</td>
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<table>
<thead>
<tr>
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<th>Size</th>
<th>Size</th>
<th>Size</th>
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<tr>
<td></td>
<td>25cm (10&quot;)</td>
<td>10cm (4&quot;) / 15cm (6&quot;)</td>
<td>20cm (8&quot;) / 25cm (10&quot;)</td>
<td>40cm (16&quot;)</td>
<td>15cm (6&quot;) / 20cm (8&quot;)</td>
<td>25cm (10&quot;)</td>
</tr>
</tbody>
</table>

|          | 17cm (6.8") | 24cm (9.6") |
## Specification

### Ceiling Fan

<table>
<thead>
<tr>
<th>SERIES</th>
<th>ECONAVI</th>
<th>LED</th>
<th>NAMI FAN</th>
<th>BAYU 5 FAN</th>
<th>BAYU 4 FAN</th>
<th>BAYU 3 FAN</th>
<th>BAYU JR FAN</th>
<th>REGULATOR FAN</th>
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<tbody>
<tr>
<td>MODEL</td>
<td>50Hz</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Power Consumption</td>
<td>Low</td>
<td>W</td>
<td>3</td>
<td>2.5</td>
<td>25</td>
<td>21</td>
<td>21</td>
<td>20</td>
</tr>
<tr>
<td>Fan Speed</td>
<td>High</td>
<td>RPM</td>
<td>80</td>
<td>81</td>
<td>80</td>
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<td>Air Velocity (m/min)</td>
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<td>185</td>
<td>210</td>
<td>185</td>
<td>216</td>
<td>198</td>
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<tr>
<td>Air Delivery (m³/min)</td>
<td>245</td>
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<td>245</td>
<td>225</td>
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<td>225</td>
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</table>

### General Fan

<table>
<thead>
<tr>
<th>SERIES</th>
<th>STAND FAN (WITH TIMER)</th>
<th>TABLE FAN</th>
<th>OSCILLATION FAN</th>
<th>WALL FAN (WITH REMOTE CONTROL)</th>
<th>WALL FAN</th>
</tr>
</thead>
<tbody>
<tr>
<td>MODEL</td>
<td>50Hz</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power Consumption</td>
<td>Low</td>
<td>W</td>
<td>45</td>
<td>45</td>
<td>45</td>
</tr>
<tr>
<td>Fan Speed</td>
<td>High</td>
<td>RPM</td>
<td>850</td>
<td>850</td>
<td>850</td>
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<td>Air Velocity (m/min)</td>
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### Ventilation Fan

<table>
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<th>WALL MOUNT</th>
<th>(INDUSTRIAL)</th>
<th>GLASS MOUNT</th>
<th>CEILING MOUNT</th>
<th>CEILING MOUNT SRIOCCO</th>
</tr>
</thead>
<tbody>
<tr>
<td>MODEL</td>
<td>50Hz</td>
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<td></td>
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</tr>
<tr>
<td>Air Volume</td>
<td>cfm</td>
<td>835</td>
<td>45</td>
<td>75</td>
<td>96</td>
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<tr>
<td>Motor</td>
<td>W</td>
<td>34</td>
<td>6</td>
<td>7</td>
<td>17</td>
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<tr>
<td>Fan Speed</td>
<td>RPM</td>
<td>1,100</td>
<td>2,732</td>
<td>2,085</td>
<td>1,205</td>
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<tr>
<td>Weight</td>
<td>kg</td>
<td>2.6</td>
<td>1.5</td>
<td>2.3</td>
<td>2.6</td>
</tr>
<tr>
<td>Low Noise Level</td>
<td>dB</td>
<td>42</td>
<td>33</td>
<td>35</td>
<td>37</td>
</tr>
<tr>
<td>Low Electricity Consumption 24 Hours</td>
<td>RM</td>
<td>0.18</td>
<td>0.01</td>
<td>0.04</td>
<td>0.09</td>
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</tbody>
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