

**Panasonic**



LEADING INNOVATION

**Panasonic**<sup>®</sup>

Panasonic Ecology Systems Co., Ltd.  
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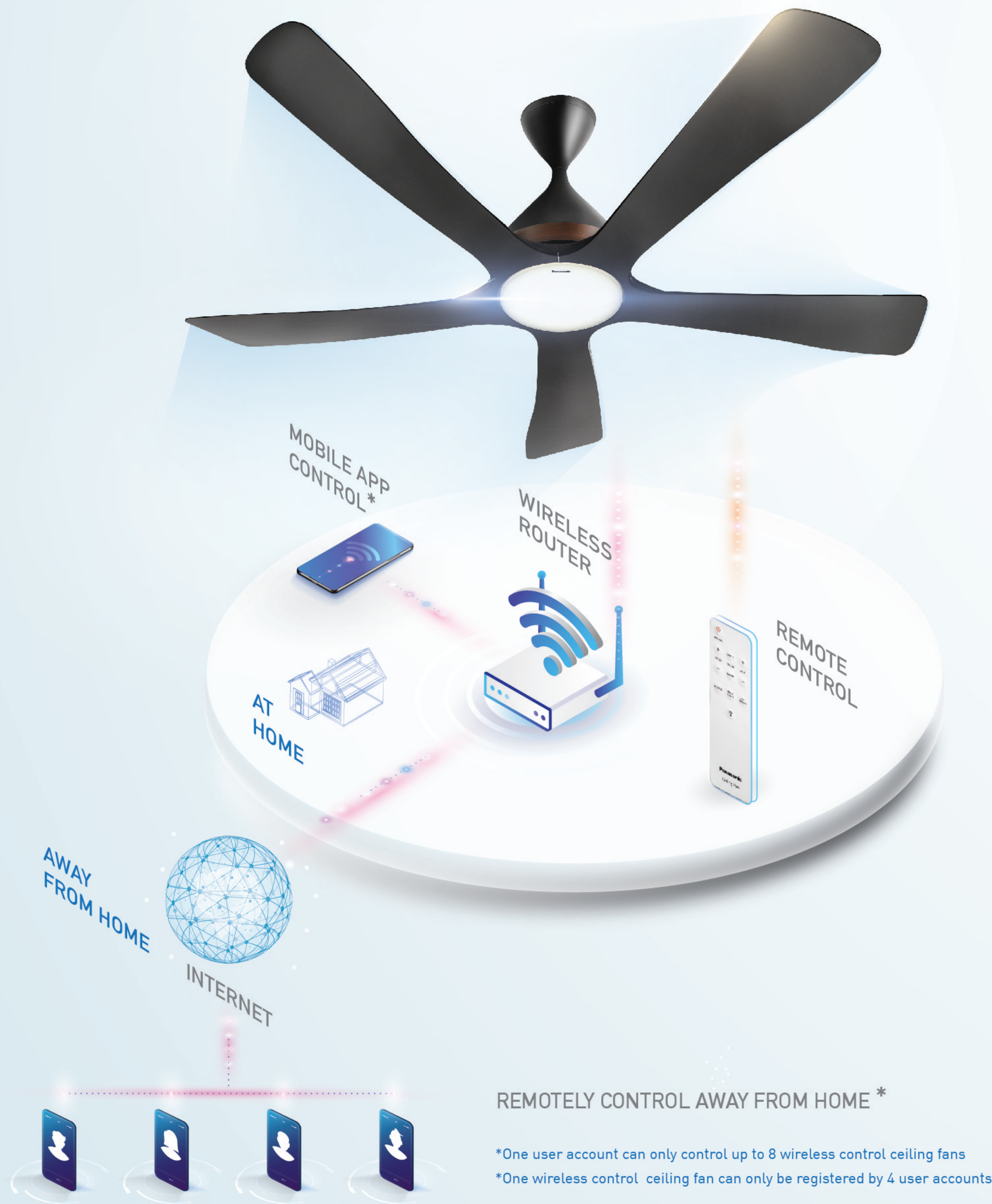
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- Specifications are subject to change without prior notice.

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## WIRELESS CEILING FAN CONNECTION



## ADVANTAGES OF MOBILE APP CONTROL

### Comfort

Remotely turns on the ceiling fan using the Mobile App before arriving home to enjoy the comfortable air.

### Convenient

Control and manage your ceiling fans from anywhere and anytime using your mobile devices.

### Customization

Preset your ceiling fan's fan and light setting according to your preferences to suit your daily activities.

### Energy Efficient

Eliminate the wastage of energy consumption from the unattended ceiling fans which are left behind by enable to turn them off even when you're away from home.

### Hassle Free

Control your ceiling fan using your mobile devices without having to search for the remote control.

### Security

Operate the ceiling fan at preset schedule (day and time) when away from home or on long vacation as a method for crime prevention.

### Timely

Make use of the "Scheduling Function", "Sleep Mode" and On/Off Timer to suits your daily activities

### Time Saving

Controls multiple ceiling fans simultaneously.



### Mobile Application Control

App-enabled\* ceiling fan that connects to your wireless network and allows user to control their fans using mobile devices.

\*Requires Android 6 and above or iOS 12 and above for the app to work.



## LED LIGHTING

(Applicable for F-60DGN & F-48DGL)



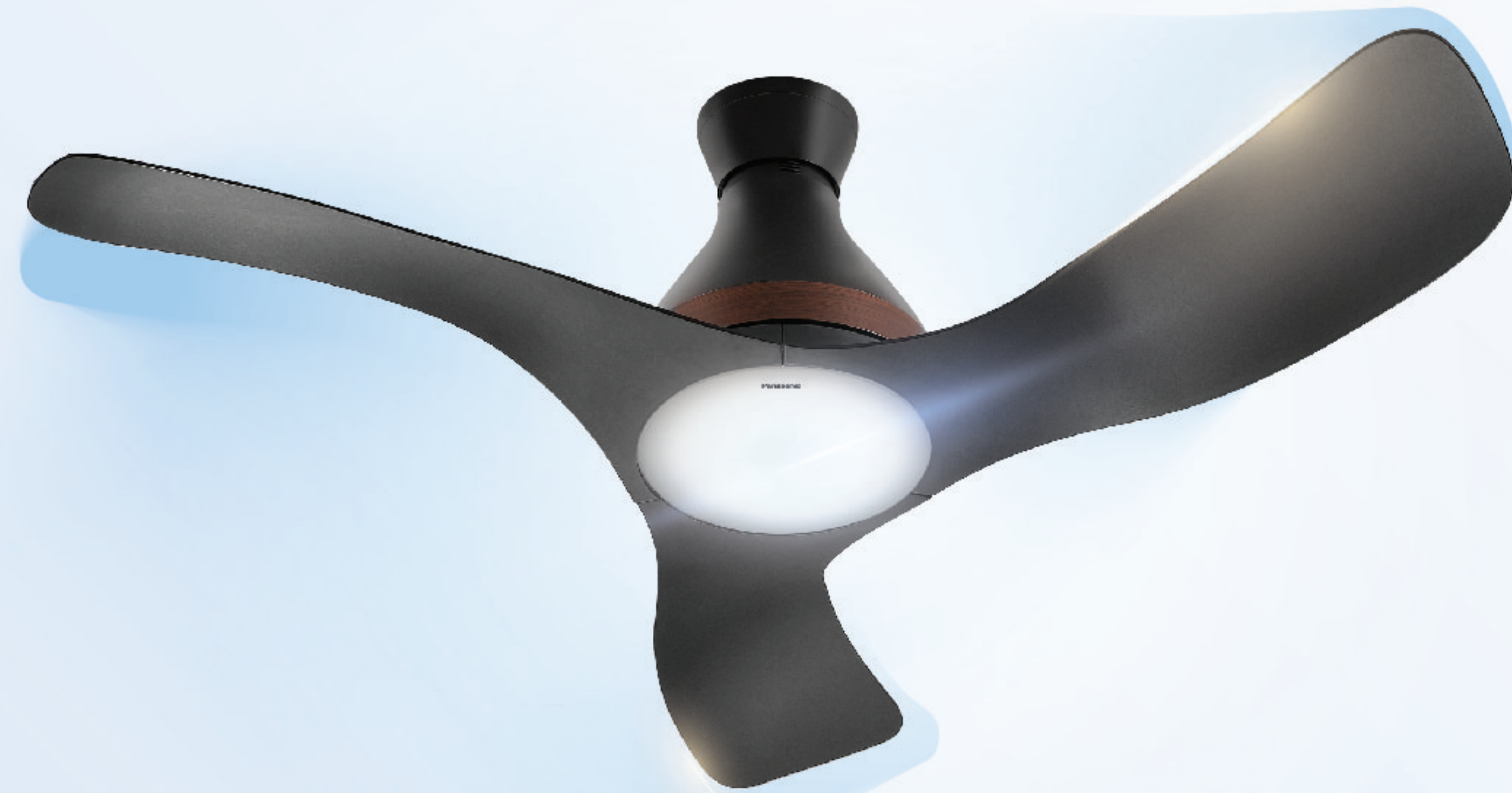
### 85% Energy Saving\*

\* LED Light compared to incandescent bulb.

### Hassle-free

With the long lifespan of LED light, there is no need to constantly change your light bulb - and reduce garbage waste.

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



### Brightness

Brightness = Up to 200 lx\*



### Coverage\*

(HIGH) - 200lx

- 1) 4m coverage - strong lighting
- 2) 6m coverage - moderate lighting
- 3) 8m coverage - weak lighting



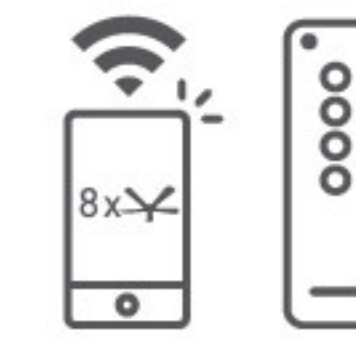
### Energy Efficient

Up to 19W\*

19W LED light = Incandescent lamp 4 x 60W

## ADJUSTABLE COLOR TEMPERATURE

(Applicable for F-60DGN & F-48DGL)



### NORMAL LIGHT MODE

Min: 25(lx)  
Max: 200(lx)



Min: 0.15(lx)  
Med: 0.60(lx)  
Max: 1.10(lx)

### NIGHT LIGHT MODE

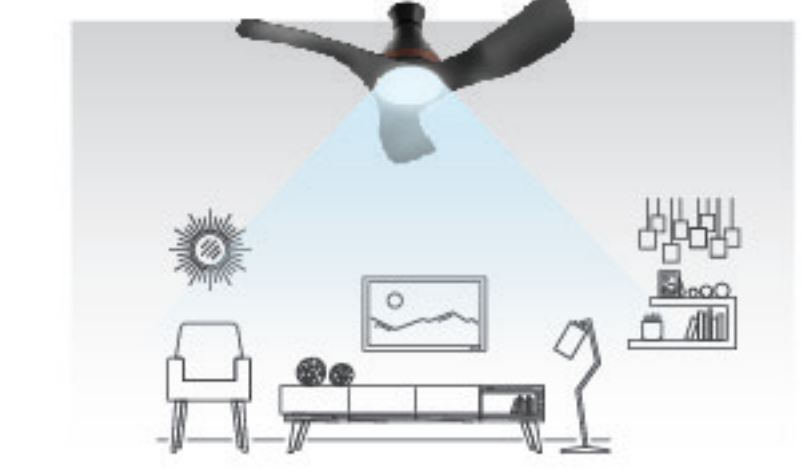
### WARM



### MIX (WARM WHITE)



### WHITE (COOL DAYLIGHT)



### WARM

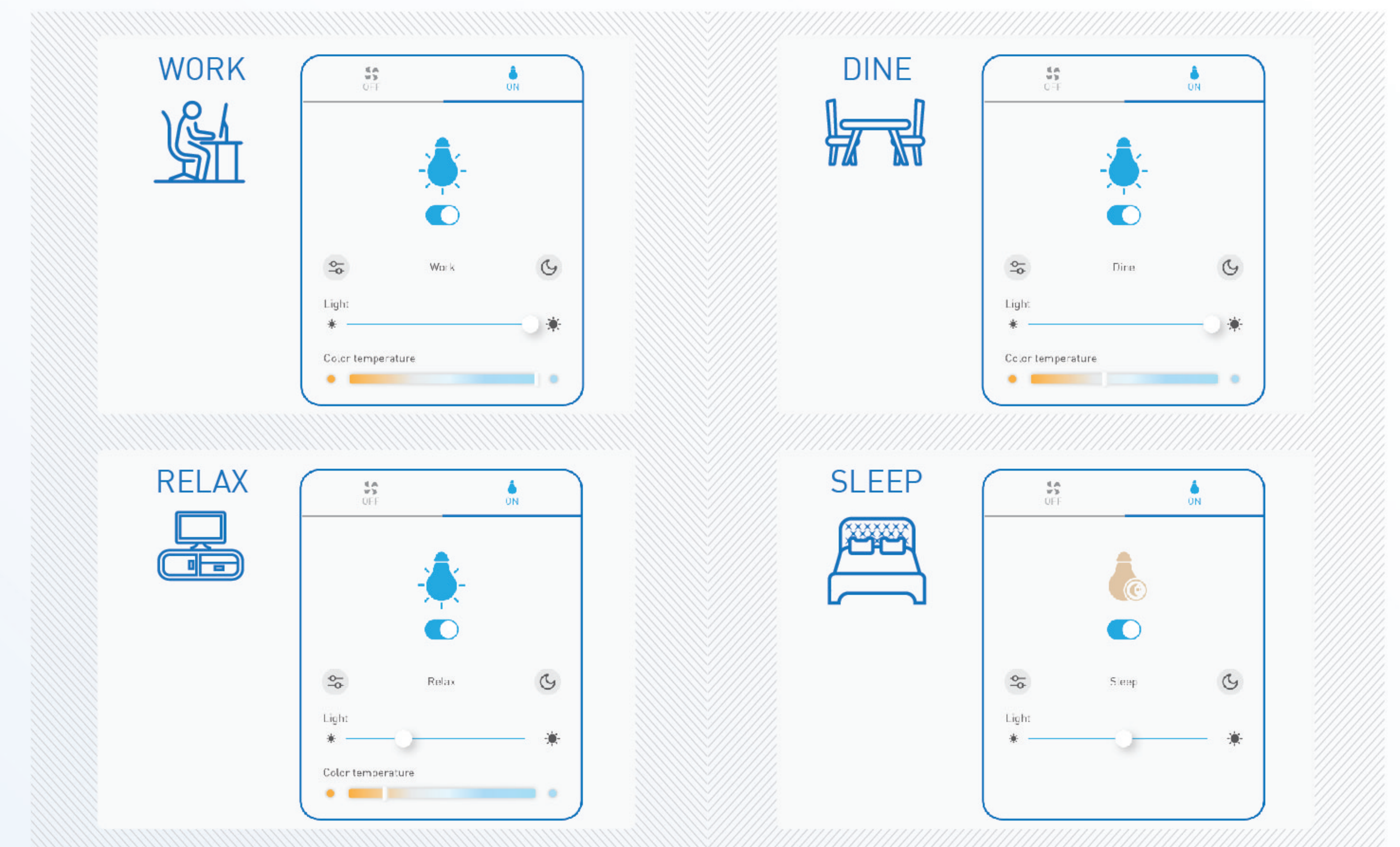
## PRESET LIGHTING SCENE SETTING

(Applicable for F-60DGN & F-48DGL)



Preset with 4 light setting for 4 common daily activities.

The preset scene can also be overwritten by adjusting the light setting according to your preferred comfort level and save the setting for easy 1-Touch access.





## INNOVATIVE BLADE DESIGN



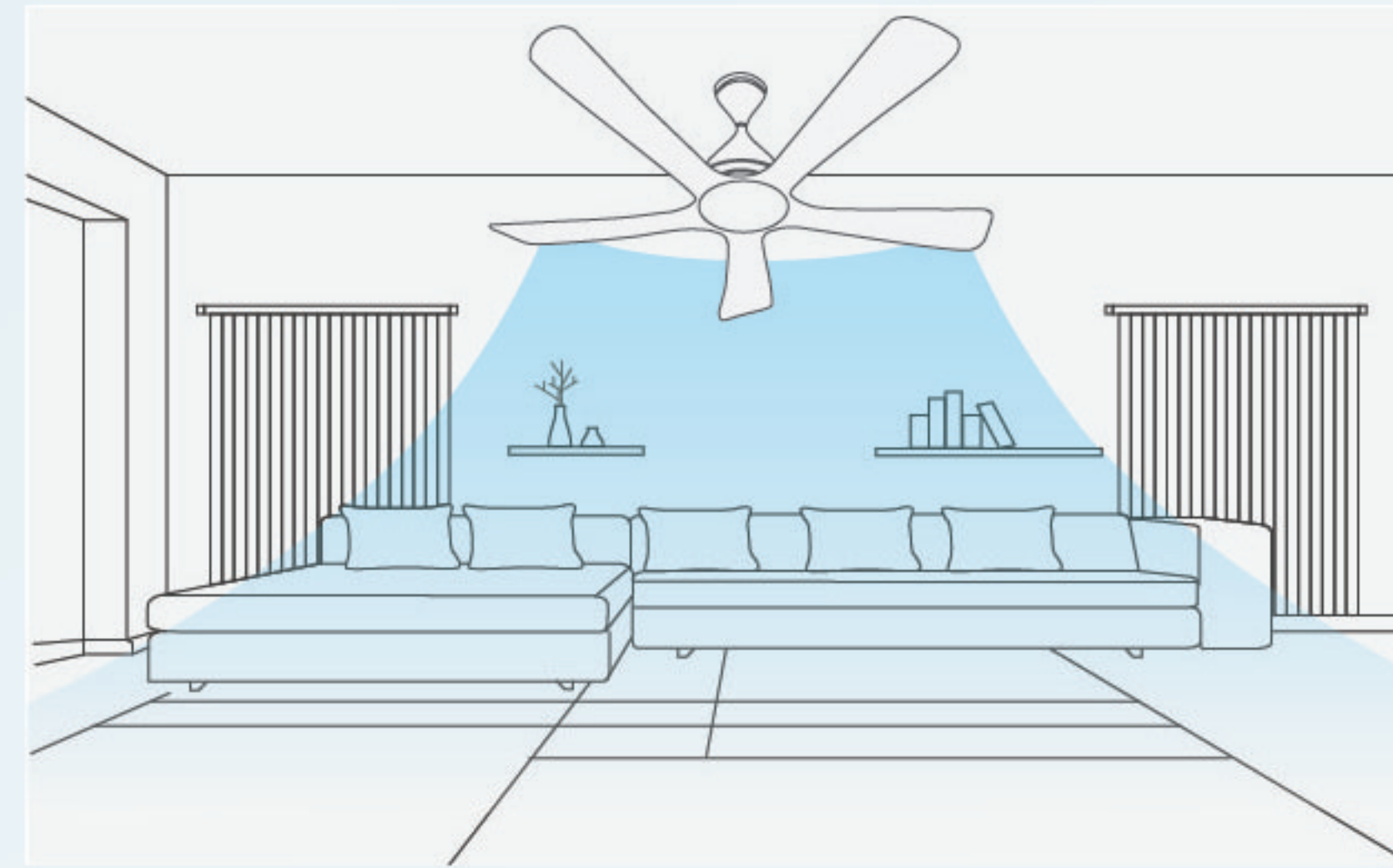
Applicable for F-60DGN, F-60DHN

**60"  
Blade**

### Wider Air Delivery

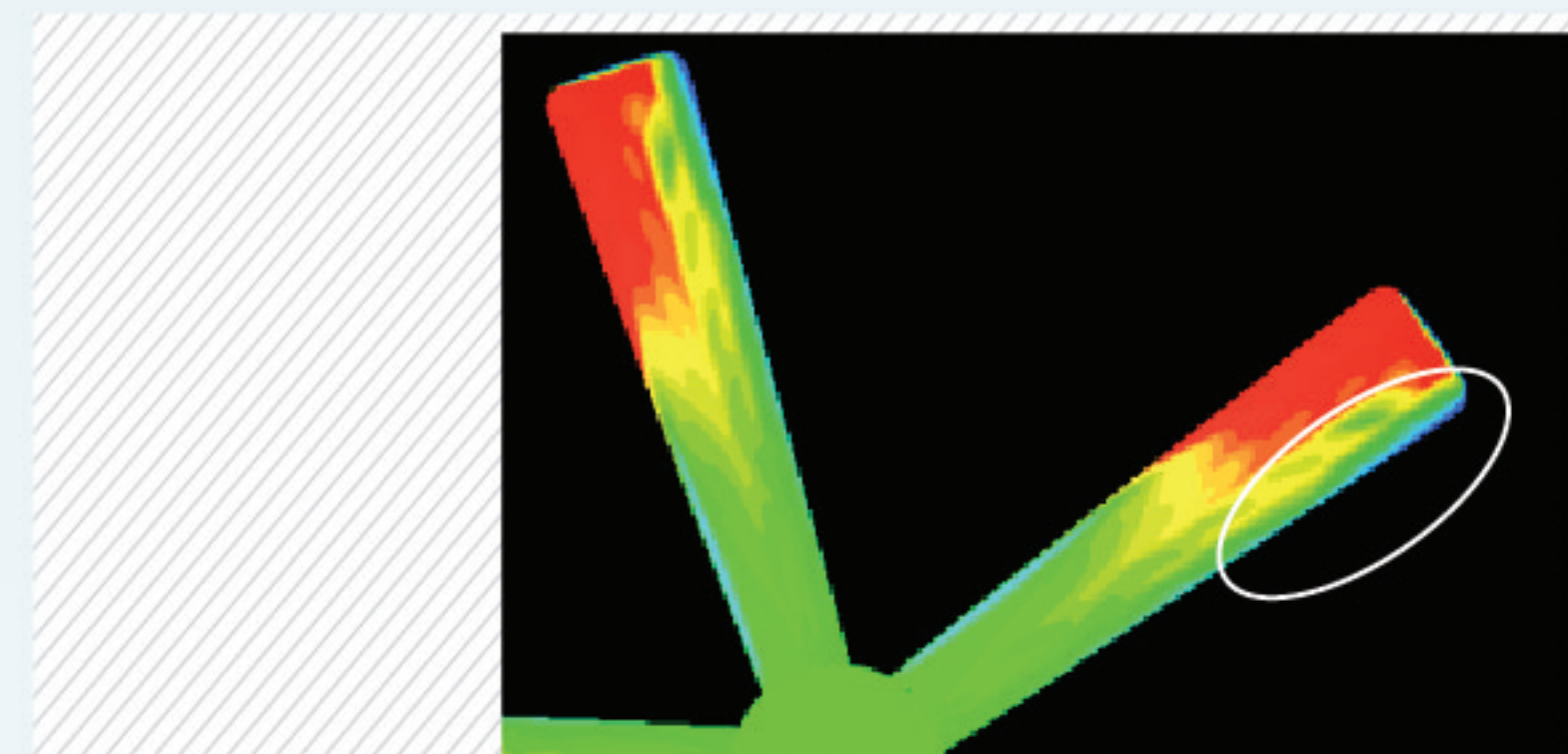
Blade shapes like an eagle's wings for wider and stronger air flow.

Wider air delivery without having any additional air moving products to enjoy comfortable wind.

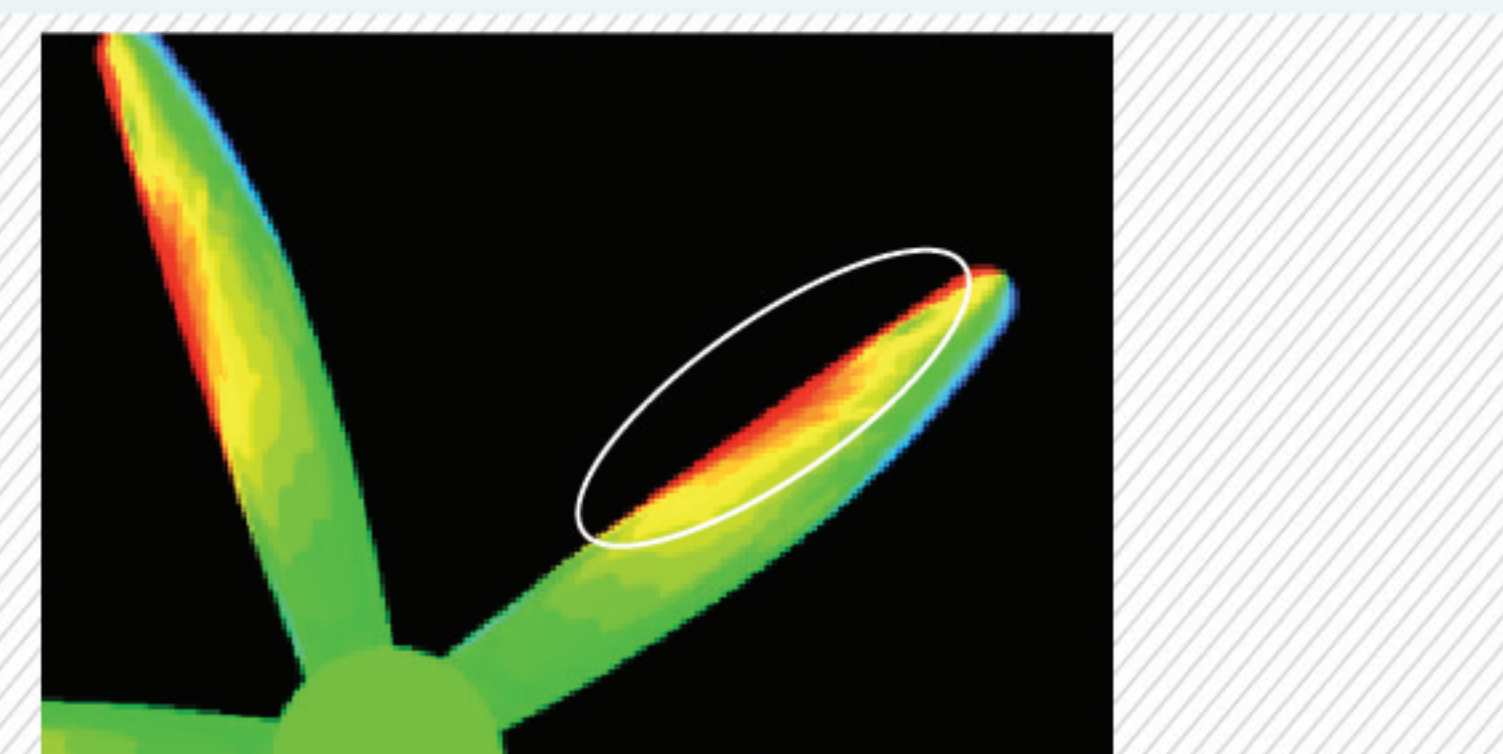


### NEW BLADE

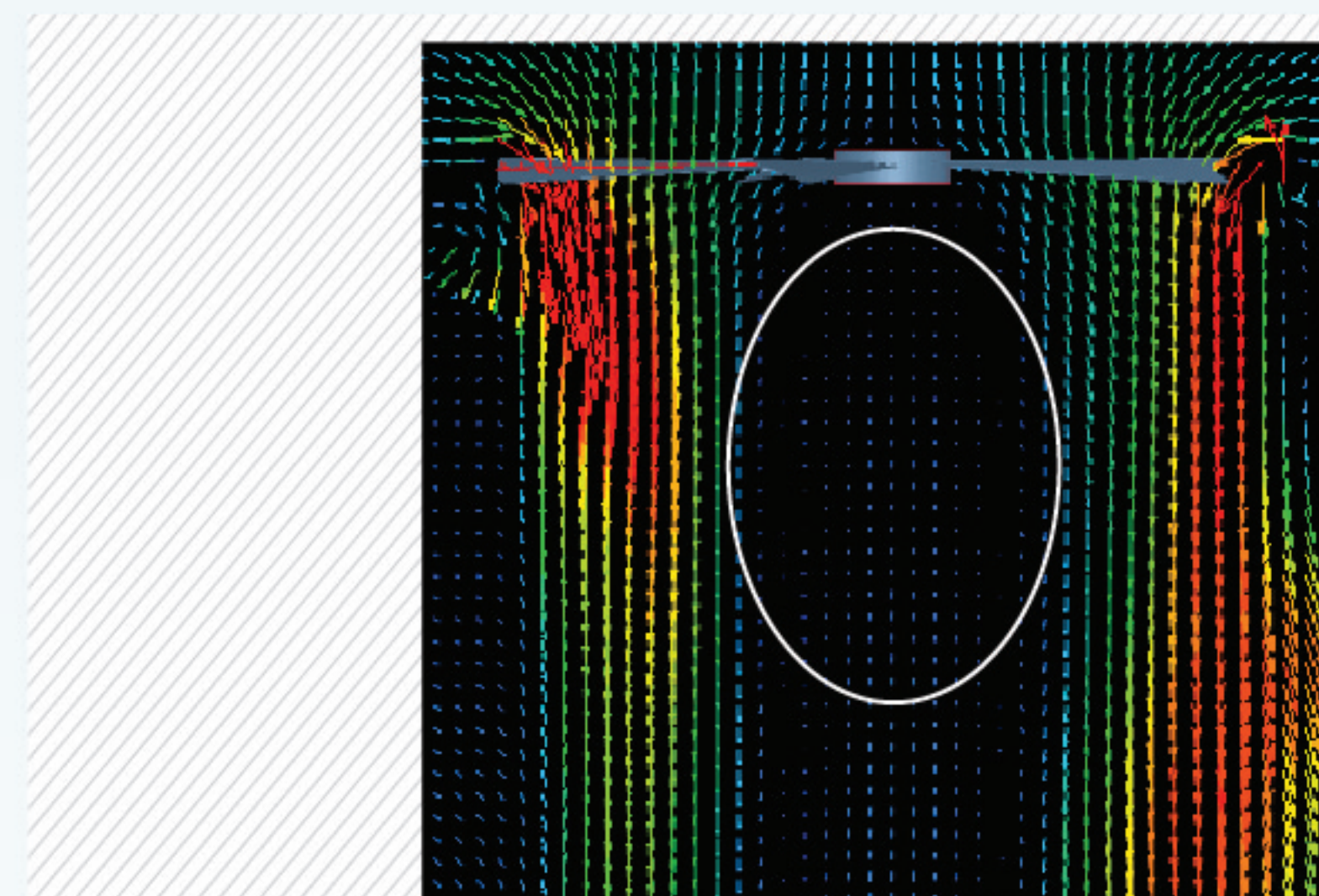
Torque at the edge of blade for wider wind spread



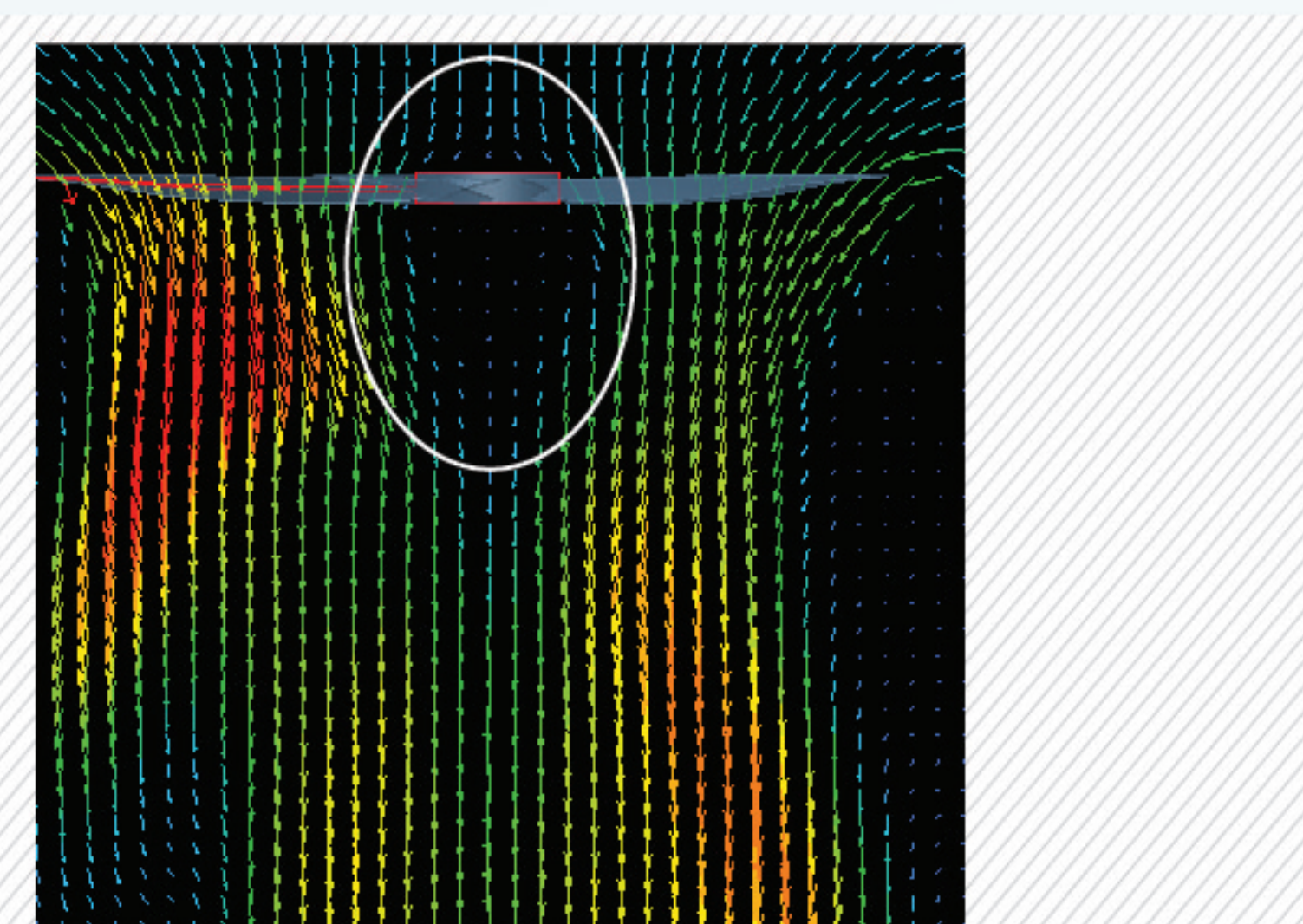
Pressure Contour



Blade designed to suppress central vortex allowing wind to spread easily



Vector Diagram



Sway towards the center due to influence of vortex and caused the wind not spreading effectively



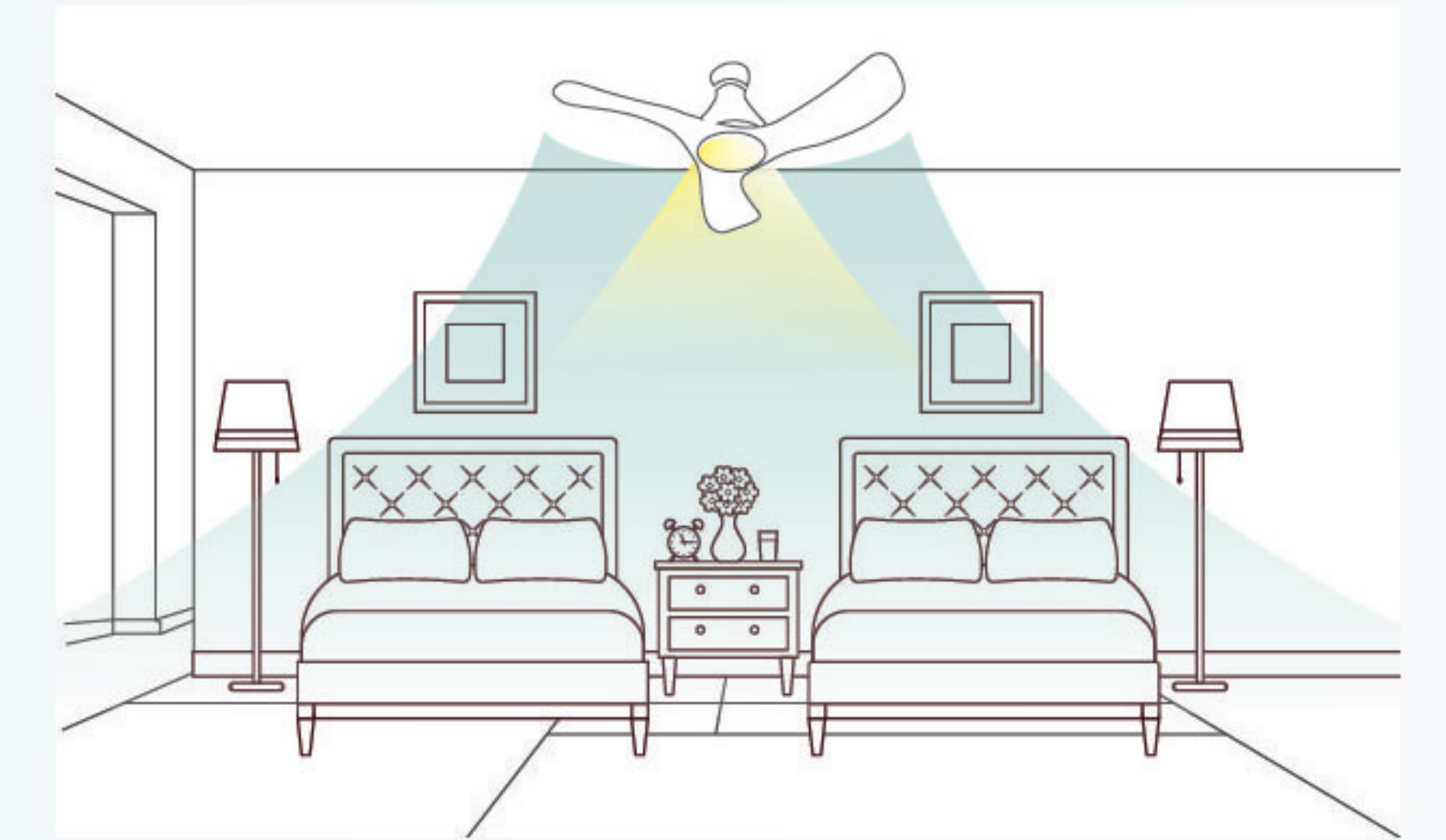
Applicable for F-48DGL

**48"  
Blade**

### More Silent And Low Noise

Blade shapes like an owl's wings for soft and silent air flow.

Silent air flow with less noise disturbance for a relaxing and peaceful sleep.

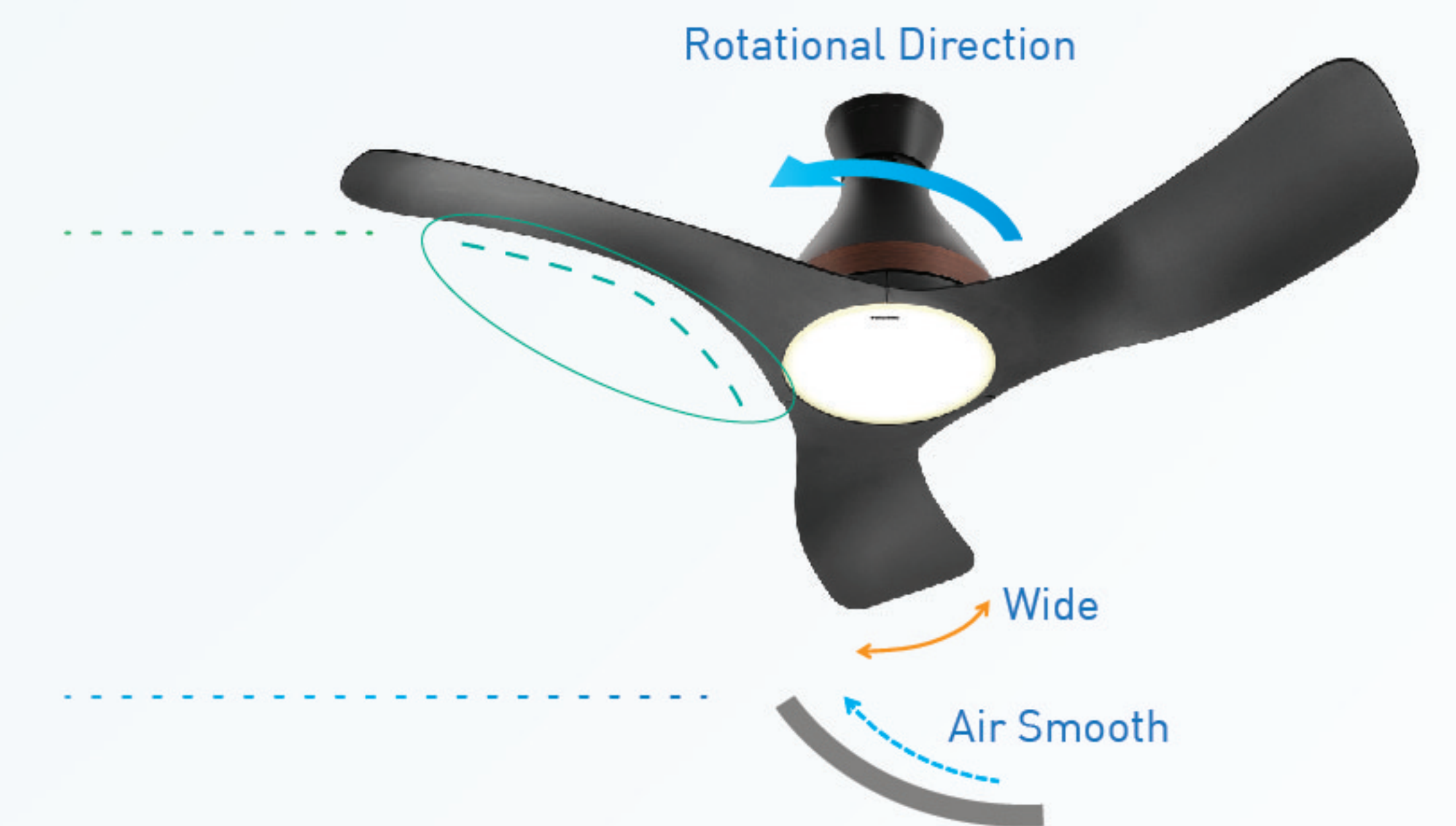


### NEW BLADE

3D Curve blade

Blade tip moves in advance to the rotational direction and does not cut air at same timing.

Blade turn gradually causing small pressure change to create smooth and quiet air

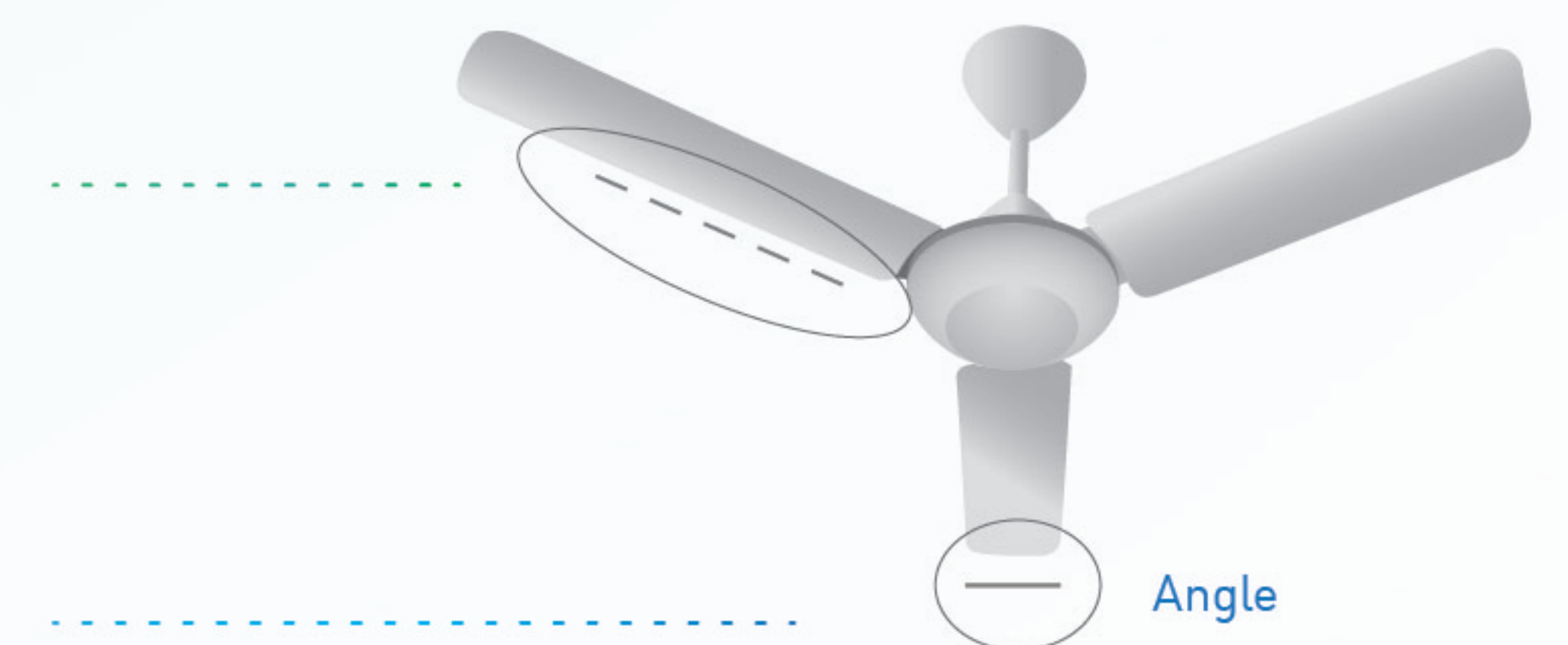


### NORMAL BLADE

Straight Blade

Cuts air at the same timing.

Blade angle & width are narrow and at the same angle.





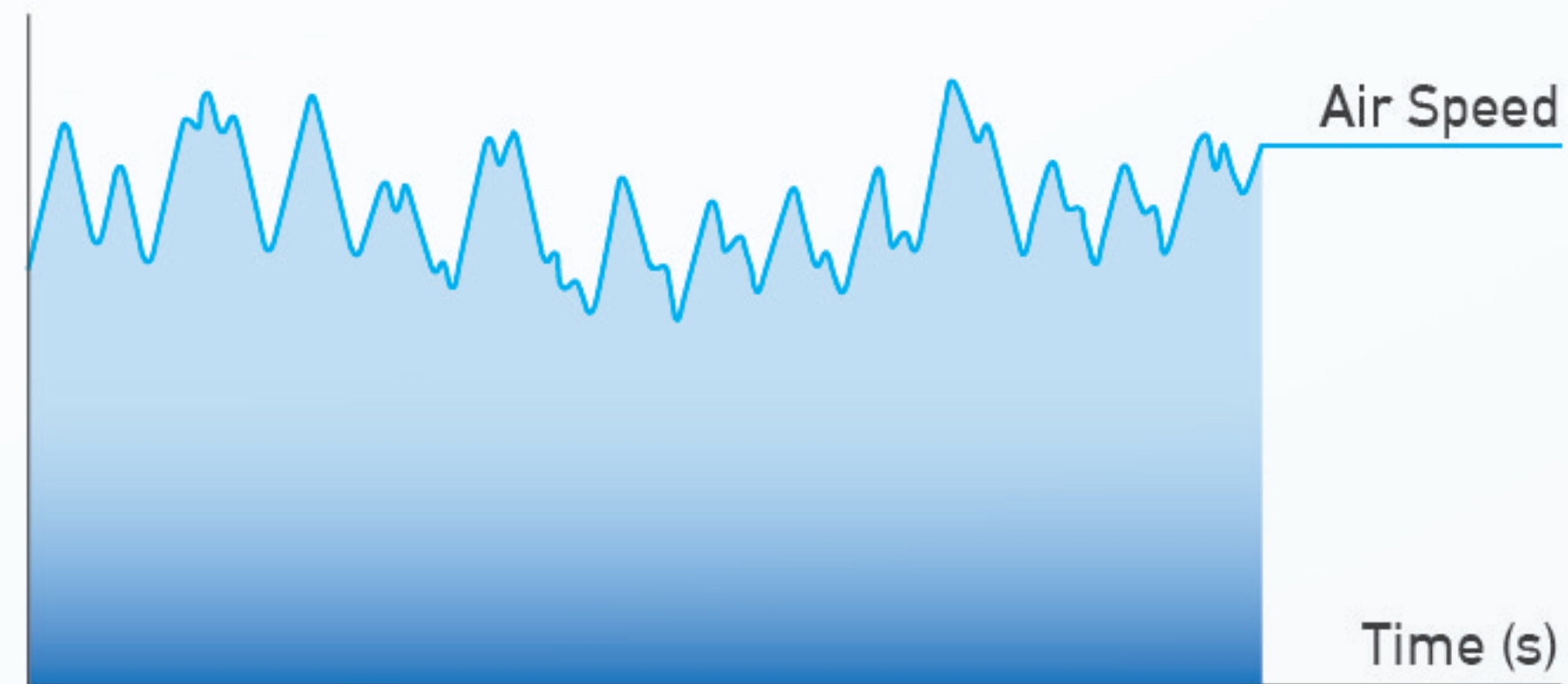
# 1/f YURAGI Natural Breeze Function



*1/f yuragi*

## Comfortable - 1/f Yuragi (Natural Breeze)

These fans are equipped with 1/f 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 give you a peaceful and comfortable feeling.

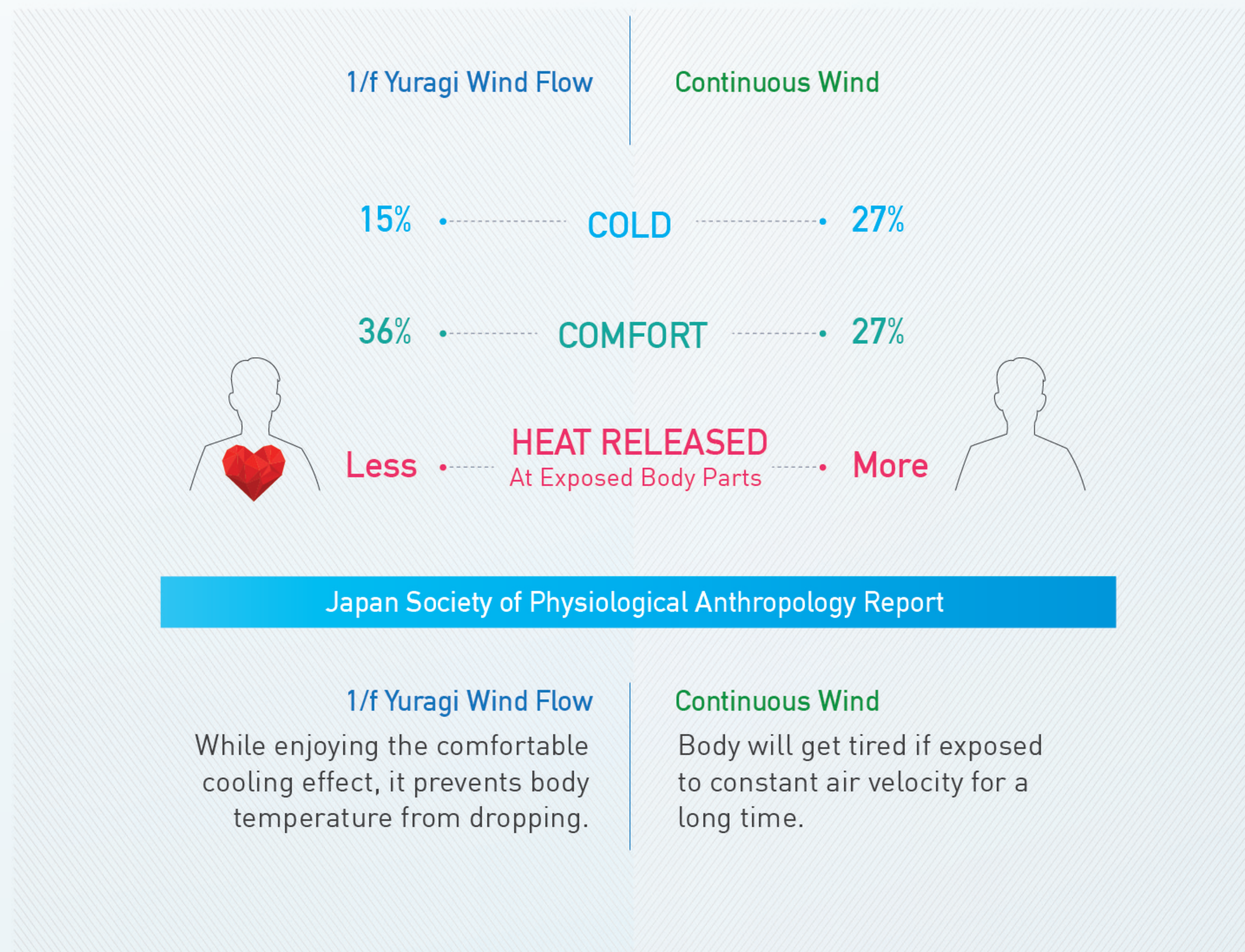


Pattern period is 570 sec

### 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



# REVERSE FUNCTION



## Even Air Flow & Comfortable Temperature

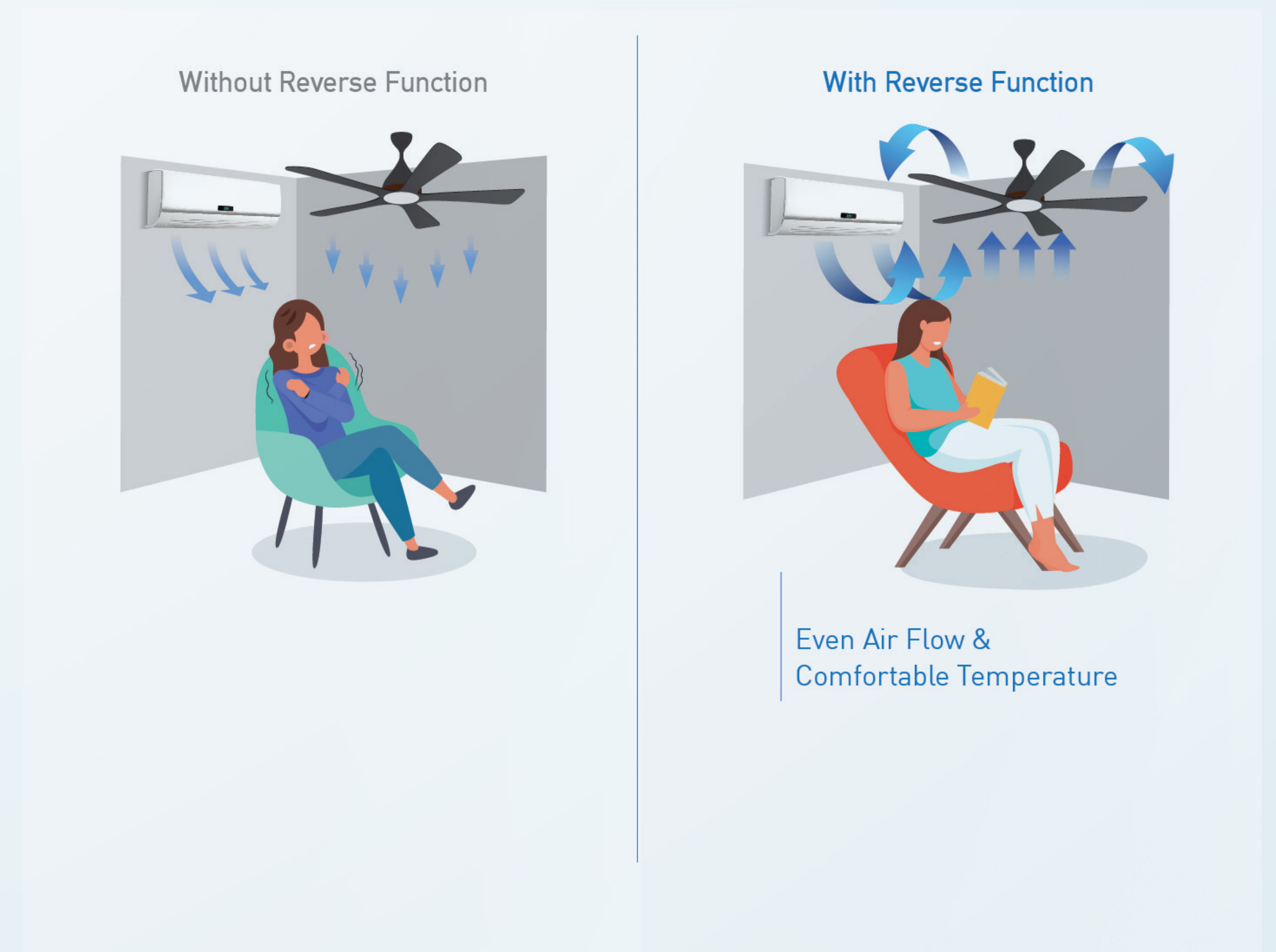
The reverse function rotates the ceiling fan in a clockwise mode and draws cool air upwards and circulates the air around the room for an even air flow and comfortable temperature.

The reverse function complements with the functions of an air conditioner and helps to maximize the effectiveness of the air conditioner.



Reverse Function Rotates Clockwise

## Comparison





## MORE FEATURES



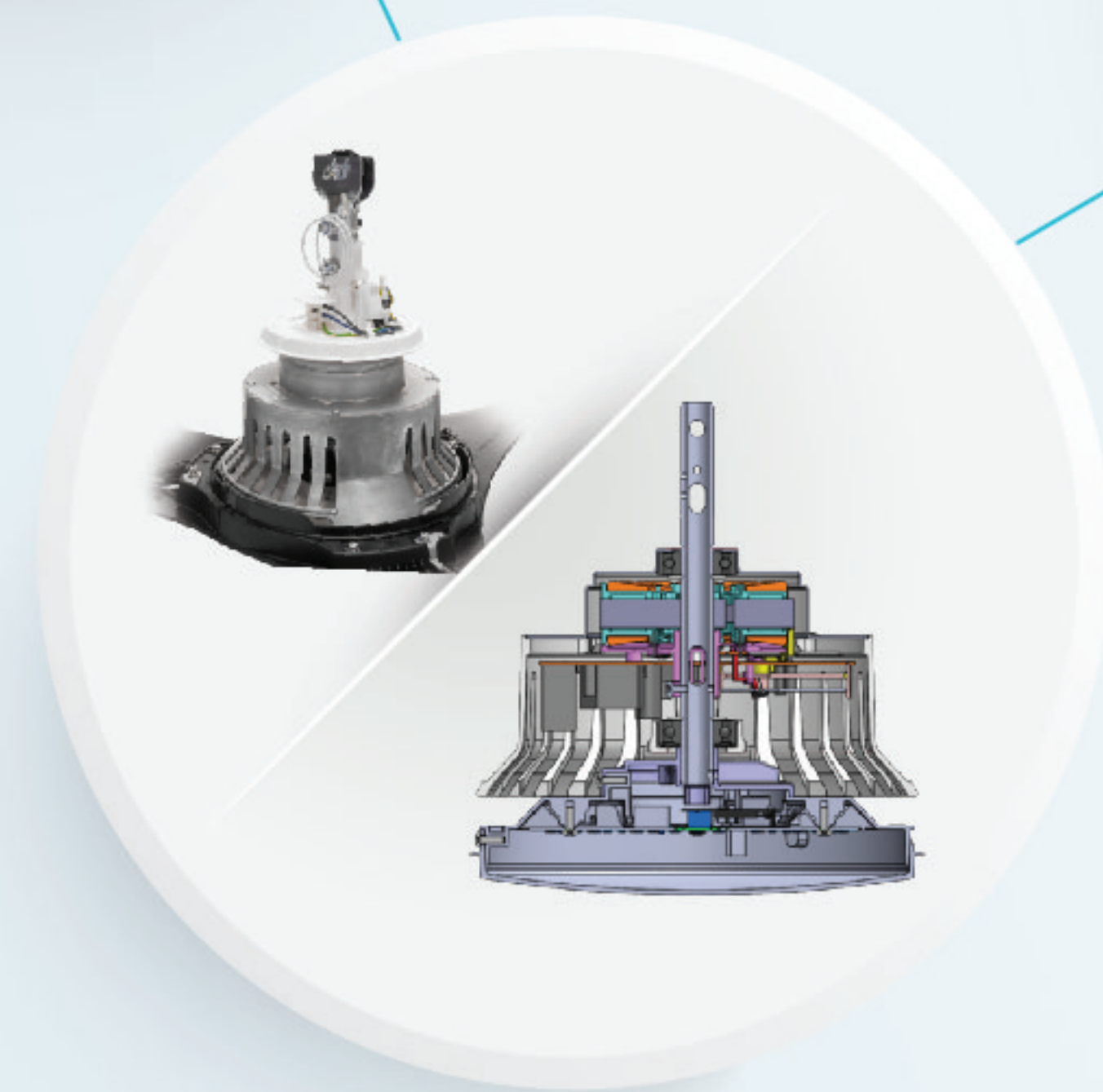
### New Generation DC Motor

#### More Compact DC Motor Unit

Built-in PCB to create a mono form outlook

#### Higher Motor Power Output

For higher air volume and wider air flow



### Scheduling Function



Helps to manage the ceiling fan according to user's setting by setting the fan to perform specific commands at specific time. E.g. Helps to turn on/off the fan and LED light\* of the fan at specific time.

\* Scheduling function for LED light setting is only available for F-60DGN & F-48DGL



### Grouping Function



Allow users to control all registered ceiling fans in their app with one operation (One user account can only register and control up to 8 Ceiling fans). This helps to reduce the time for users to synchronize setting for all registered ceiling fans and trouble-free control for those who have many ceiling fans in one house.



### Sleep Mode

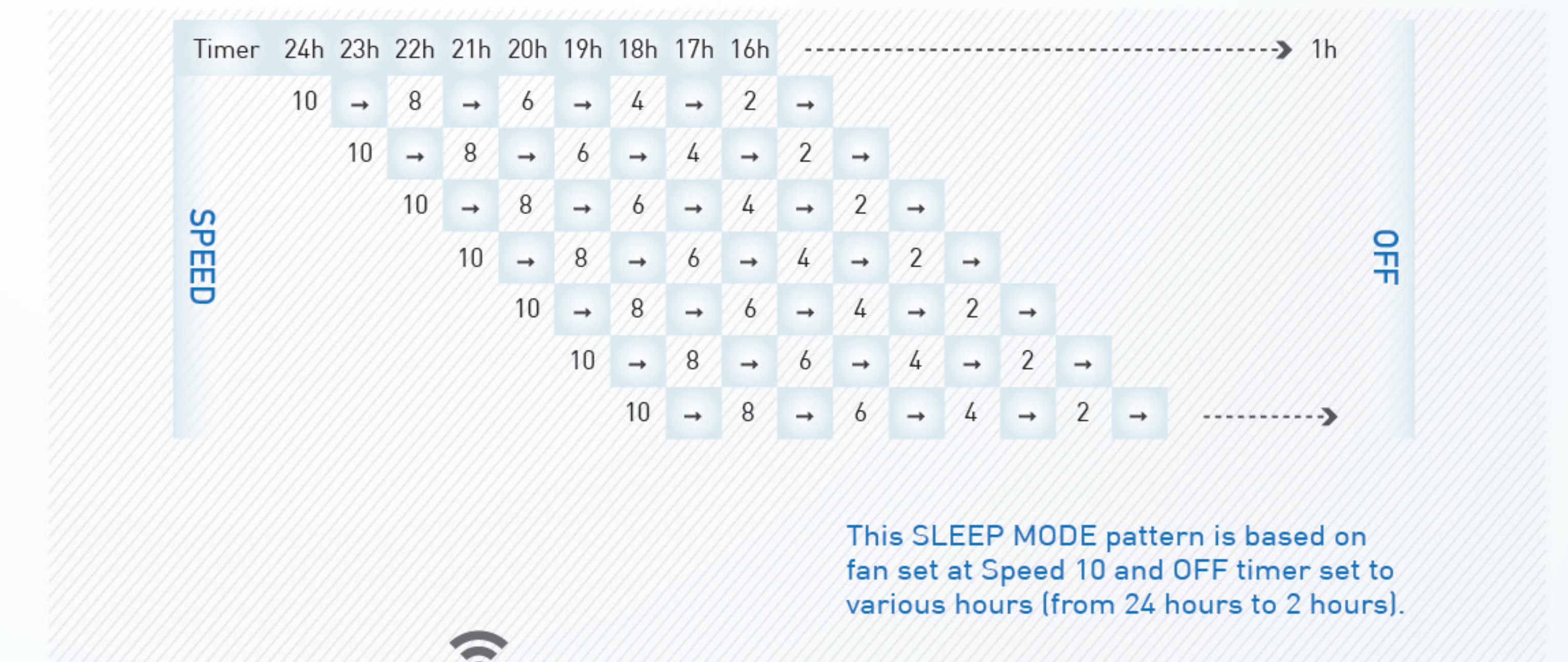


These fans are equipped with Sleep Mode, by which fan speed and timer will gradually reduce until the fan is off. Fan will reduce by two speeds after every two hours (minimum speed 1) until the Ceiling Fan is turned off. This function not only creates an optimal sleeping environment but also enhances energy saving as well.

\*SLEEP MODE can only use with OFF TIMER enabled.

\*SLEEP MODE function is disabled either at Speed 1 or or less than 2-hour setting.

\*SLEEP MODE function will deactivate if Timer Setting is changed.



### ON/OFF Timer



An advanced version of ON/ OFF Timer, providing 24 hours countdown for ON TIMER and OFF TIMER.



### Constant Wattage Control

Maintain constant wattage control. Stable delivery of large air volume & wide airflow even when there is fluctuation in voltage.



### Memory Function

Memorizes last setting even when wall switch is switched off. Fan and light will operate at previous fan speed or light setting when the ceiling fan is turned on the next time.



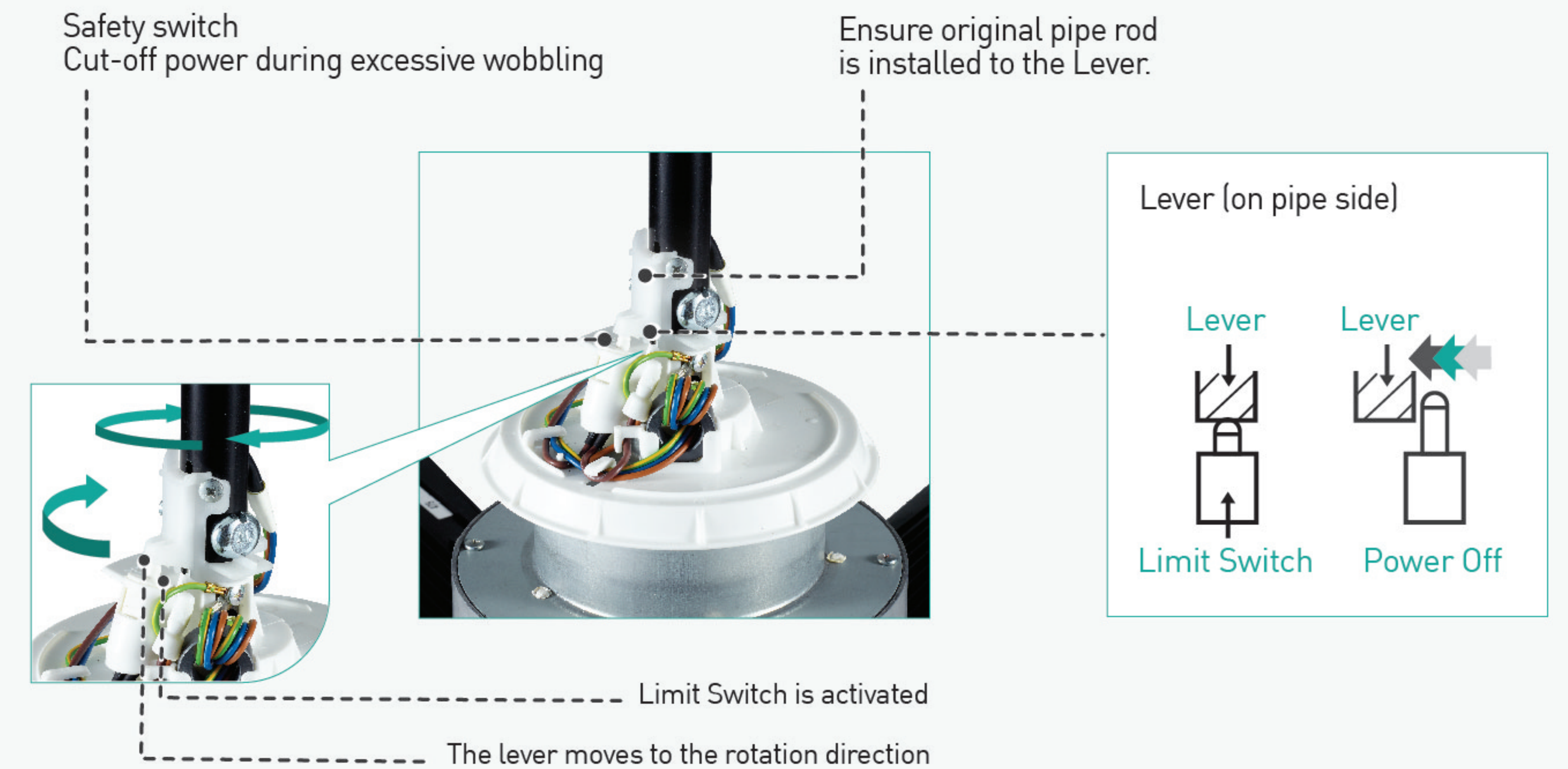
# SAFETY FEATURES



**CAUTION**

- The Ceiling Fan must be mounted above 2.3m from the floor and 1m from the wall to the Blade. It can cause unstable air flow and affect Ceiling Fan to wobble.
- Tighten the Pulley set plate firmly with the bolt and nut provided. Cotter pin must fix into bolt and nut.

## 1 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 safety cut-off 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.



## 2 Safety Wire



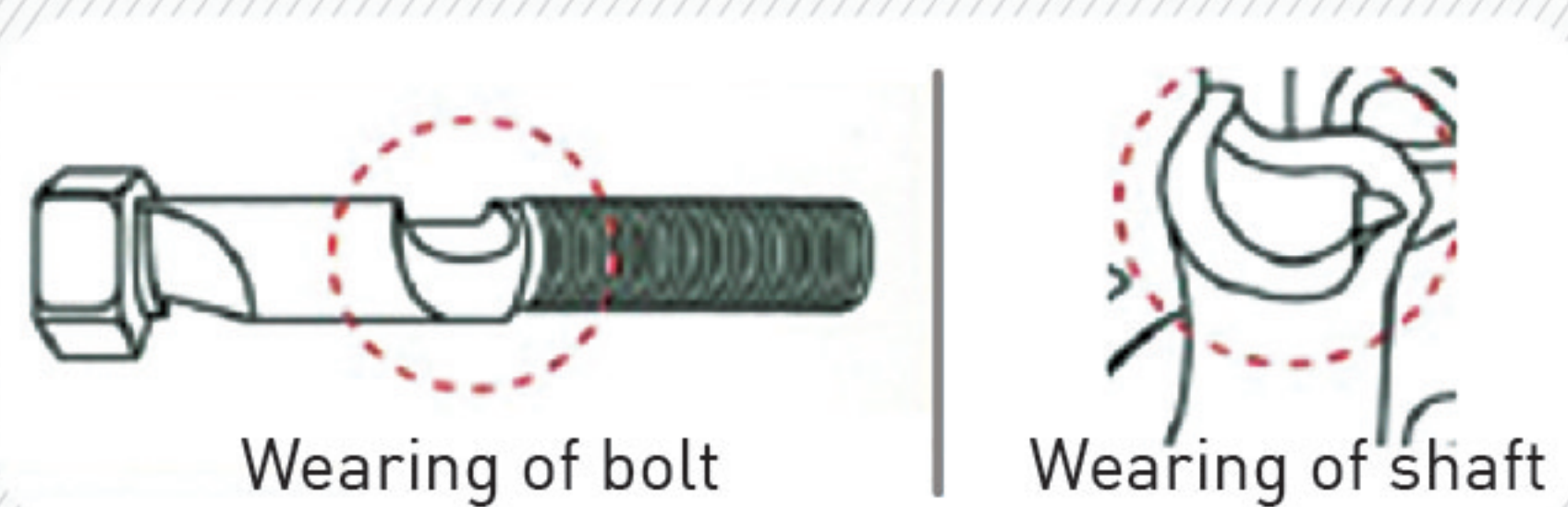
### Problem

Due to improper installation or should malfunction occur, the fan motor may detached 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.

### 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)

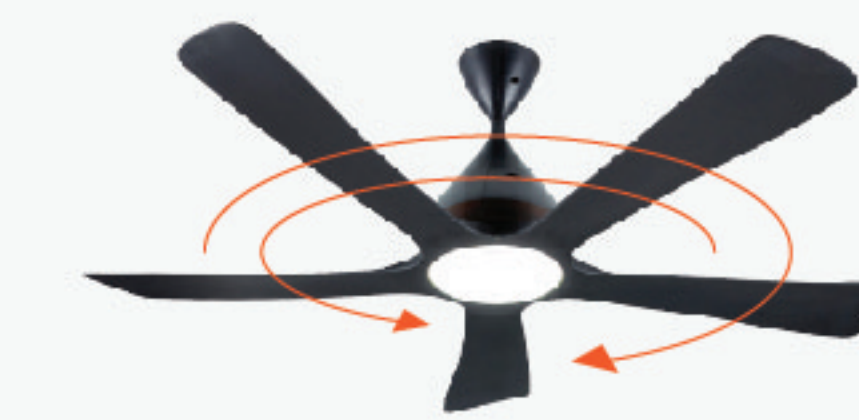
## 3 Blade Safety Plate



Blade Safety Plate (on blade frame)



Do not install near other strong mechanical fans which will blow the ceiling fan.



Do not install at area where strong natural wind will blow the fan.

### 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 plate when the fan is functioning (as shown in the picture) as an indication.





F-60DGN



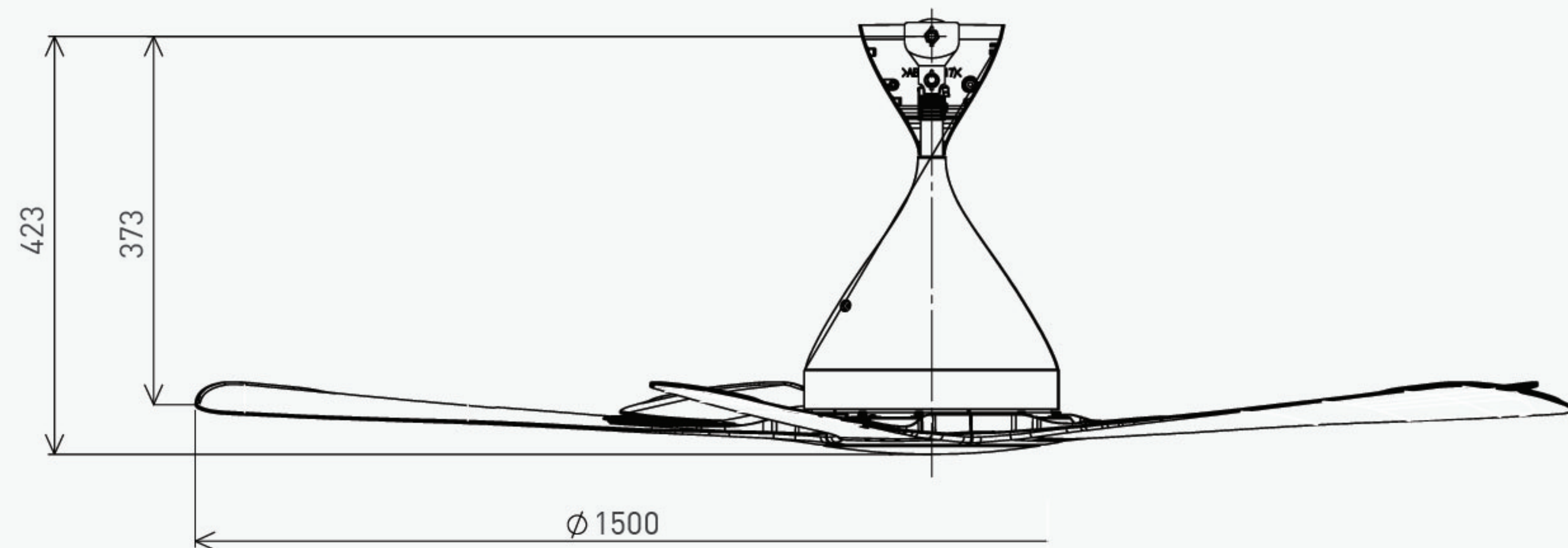
FEATURE



- 5-Blade Design
  - Wider Air Delivery
  - LED Lighting
  - Adjustable Colour Temperature & Brightness
  - Adjustable Brightness for Night Light Mode
  - Preset 4-Scene Setting\*
  - Mobile App Control
  - Simple and Contemporary Remote Control
  - New Generation DC Motor
  - Yuragi (Natural Breeze Function)\*
  - Reverse Function
  - Scheduling Function\*
  - Grouping Function\*
  - Sleep Mode\*
  - ON/OFF Timer\*
  - Enhanced Safety Features
  - Durable ABS-GF Blades
- \*Only available in the Mobile App

DIMENSIONS

Width: Ø1500mm (60")  
Height: 423mm



F-60DHN



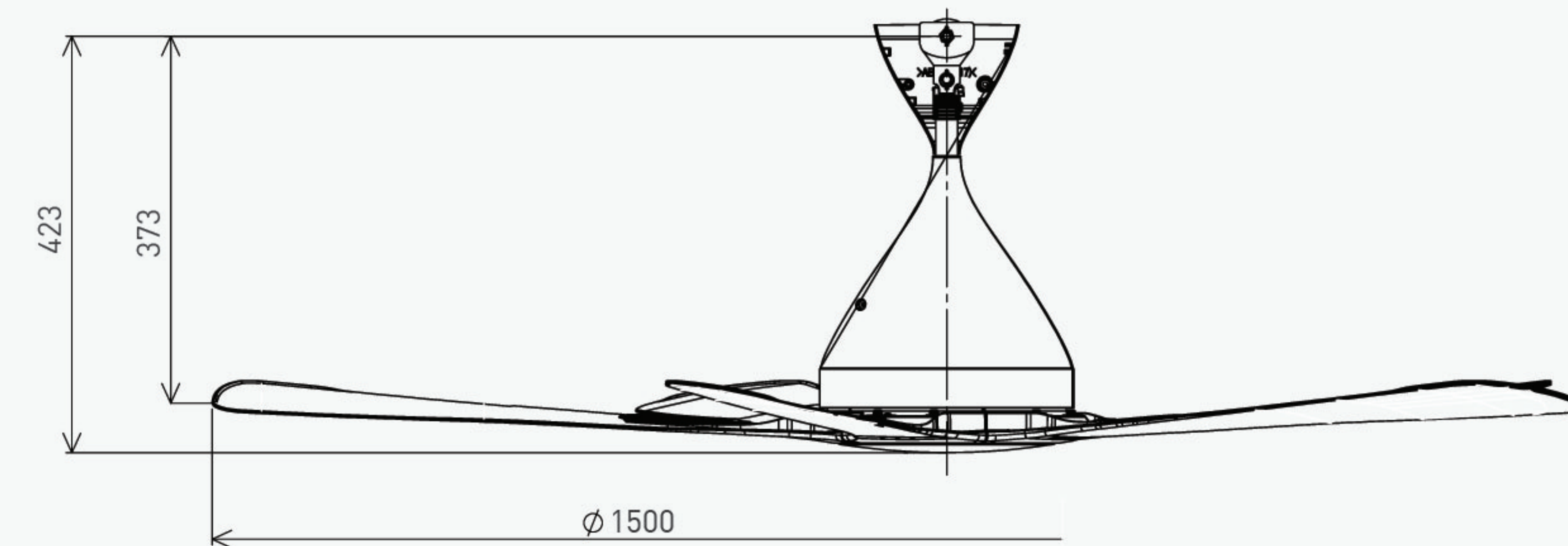
FEATURE



- 5-Blade Design
  - Wider Air Delivery
  - Mobile App Control
  - Simple and Contemporary Remote Control
  - New Generation DC Motor
  - Yuragi (Natural Breeze Function)\*
  - Reverse Function
  - Scheduling Function\*
  - Grouping Function\*
  - Sleep Mode\*
  - ON/OFF Timer\*
  - Enhanced Safety Features
  - Durable ABS-GF Blades
- \*Only available in the Mobile App

DIMENSIONS

Width: Ø1500mm (60")  
Height: 423mm







F-48DGL



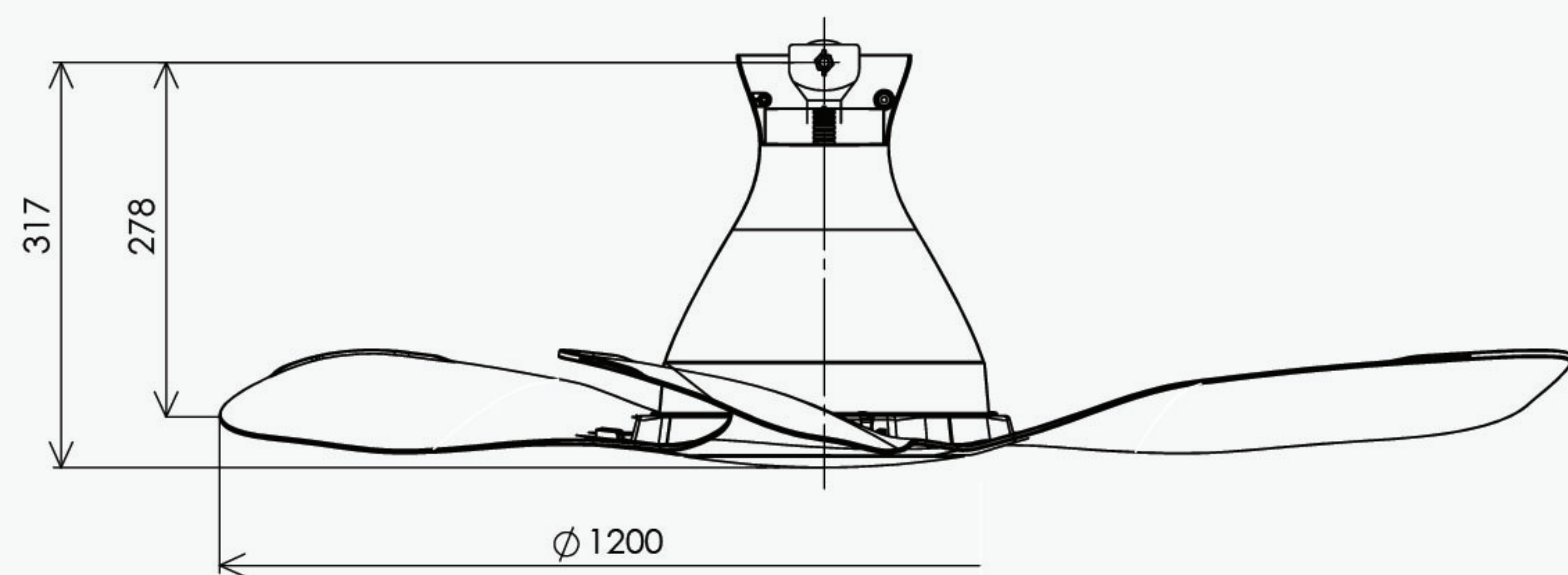
FEATURE



- 3-Blade Design
  - Gentle & Silent Air Flow
  - LED Lighting
  - Adjustable Colour Temperature & Brightness
  - Adjustable Brightness for Night Light Mode
  - Preset 4-Scene Setting\*
  - Mobile App Control
  - Simple and Contemporary Remote Control
  - New Generation DC Motor
  - Yuragi (Natural Breeze Function)\*
  - Reverse Function
  - Scheduling Function\*
  - Grouping Function\*
  - Sleep Mode\*
  - ON/OFF Timer\*
  - Enhanced Safety Features
  - Durable ABS-GF Blades
- \*Only available in the Mobile App

DIMENSIONS

Width: Ø1200mm (48")  
Height: 317mm



SPECIFICATIONS

MODEL		F-60DGN	F-60DHN	F-48DGL			
Features							
Motor Type		DC Motor (New Generation)					
LED Lighting		•		•			
1/f Yuragi		•	•	•			
Remote Control		•	•	•			
Mobile App Control		•	•	•			
Reverse Function		•	•	•			
Blade Type		ABS-GF (Glass Fiber)					
Colour		Black					
Specifications							
Dimension	Width		Ø1500 mm (60")		Ø1200 mm (48")		
	Height		423 mm		317 mm		
Weight		7.3 Kg		7.0 Kg		5.2 Kg	
Power Consumption	Fan Only	Low	W	4		3	
		High	W	54		31	
Power Consumption	Fan + Light	Low	W	23		22	
		High	W	73		50	
Forward Fan Speed	Low	RPM	80		55		
	High	RPM	245		170		
Reverse Fan Speed	Low	RPM	80		55		
	High	RPM	255		170		
Air Velocity		(m/min)	160		185		
Air Delivery		(m³/min)	300		200		
Noise Level (dB)			59		41		
Wi-Fi Frequency Range			2.4 GHz				
Mobile App OS			iOS / Android				