

INTRODUCTION

Ceiling fans are popularly used in homes nowadays. Besides creating a wide span of airflow for cooling effect, they can also improve the circulation of air generated by the air conditioning system.

KDK recently launched a series of new models with DC motor technology: Sensa series and Nikko.

The Sensa series come in 2 models. Sensa 4 (140cm/56") comes in 4-blade design suitable for bedrooms while Sensa 5 (150cm/60") comes in 5-blade design with two different fan rod length, excellent for bigger space like living halls.

On the other hand, Nikko (150cm/60") comes in 5-blade design with LED light that best suits most modern interiors.



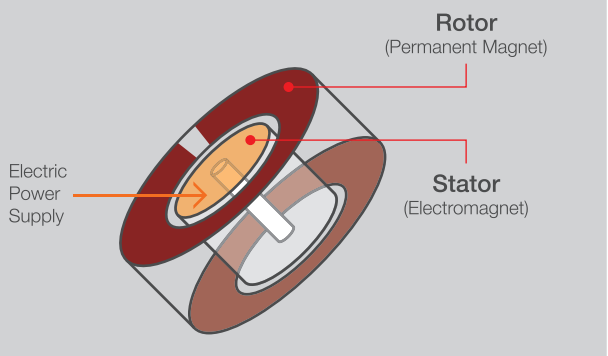
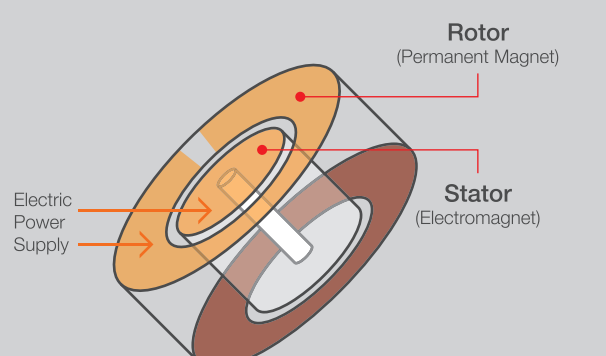
What is AC motor and DC motor?

AC (Alternative Current) motor sends power to the outer coils that make up the stator. The coils are energised in pairs, in sequence, producing a magnetic field that rotates around the outside of the motor.

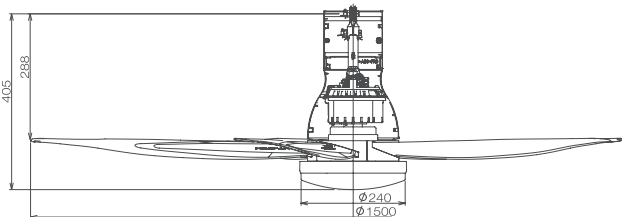
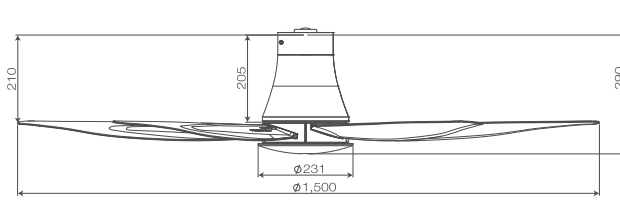
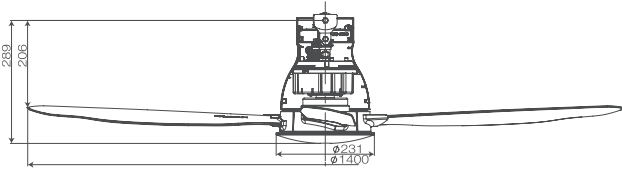
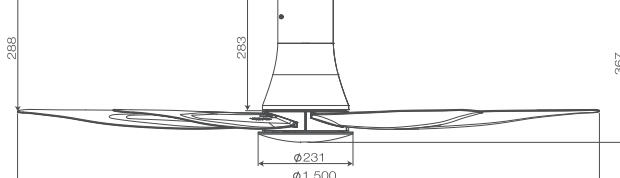
DC (Direct Current) motor uses an internal array of magnets of opposing polarity that creates a magnetic field. It energises the torque required to rotate the motor's rotor. This process requires less electrical energy, translating into greater reduction in power consumption over standard AC motors.

Advantages of DC Motor

- Use less energy - up to 55% less than an AC motor
- Greater control - more SPEED options, OFF and ON timer etc.
- Quiet operation
- The motor design is slimmer and light weight

Direct Current (DC) motor	MOTOR TYPE	Alternative Current (AC) motor
		
DC motor is more compact and half the size of AC motor		
Electric power supply to magnetise ROTOR only	POWER INPUT	Electric power supply to magnetise both STATOR and ROTOR
41W	POWER CONSUMPTION	82W

SPECIFICATIONS

		K15UW	K15Z5-QEY	K15Z5-REY	K14ZW
Blade	Blade Size (mm)	1500			1400
	Blade Material	PPG 3D Blade			
	Number of Blade	5			4
	Blade Holder Material	ABS-GF			
Performance	R.P.M	Hi	235	235	235
		Low	80	80	81
	Wattage	Hi (Fan Only)	41	41	41
		Low (Fan Only)	3	3	2.5
		Hi (Fan & Light)	63	N / A	
		Low (Fan & Light)	25		
	Air Delivery (m3/min)	245	245	245	225
	Air Velocity (m/min)	210	210	210	185
Feature	Noise Level (dB)	53	54	54	51
	Speed Control	1 ~ 9			
	On & Off Timer	1 ~ 8			
	Sleep Mode	2 ~ 8			
	1/f Yuragi	Yes			
Remote Control Type		LCD			
Colour		Elegant Grey			
Weight		6.2	5.1	5.3	4.9
K15UW		K15Z5-QEY			
					
K14ZW		K15Z5-REY			
					

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DC (DIRECT CURRENT) SERIES

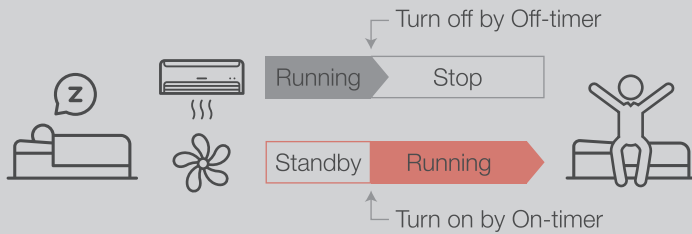


ON TIMER

On-timer can be incorporated with air conditioner to realise economy and comfortable operation. It can minimise excessive cold feeling and save power consumption during your sleep.

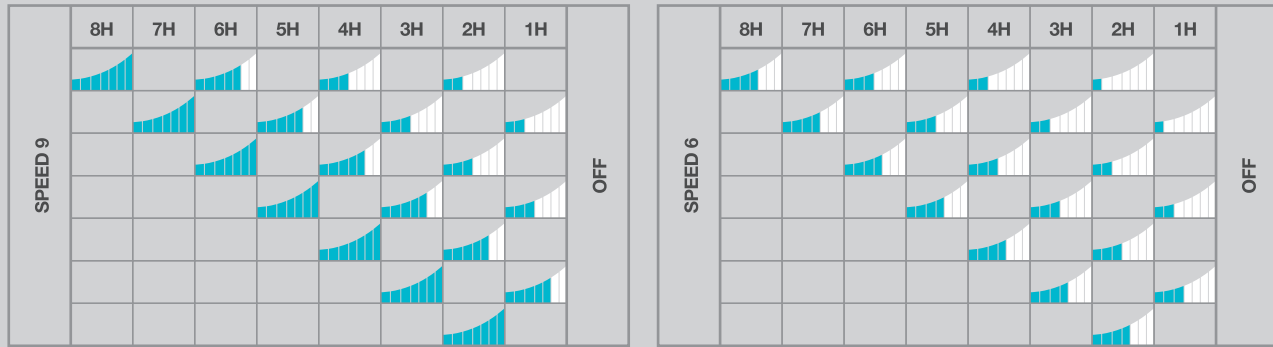
- 9 sequential speed control
- ON-Timer: Preset your fan to turn on after selected time (1-8 hours)

Sleep Time Example



SLEEP MODE

The sleep mode will gradually reduce the fan speed before it switched off automatically. Body temperature decreases when one is sleeping. This feature provides a comfortable feeling without causing unpleasant cold feeling at the middle of the night.

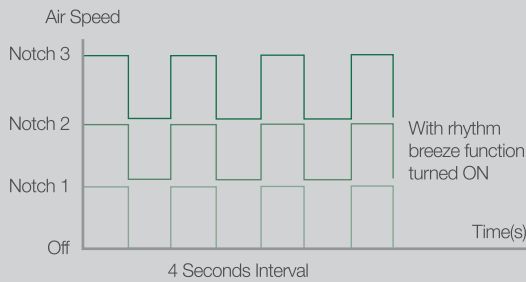


- Note:
- Sleep mode function is disabled at speed 1 and 1 hour setting
 - Operation pattern will be different subject to different model and setting, please refer to the operation instruction for details.

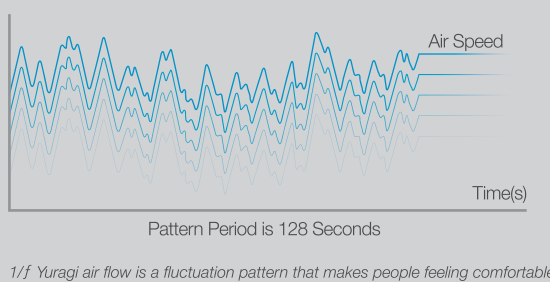
1/f YURAGI

This sophisticated feature provides a relaxing experience with it's nature breeze in fluctuated pattern.

- **Current function rhythm breeze**
Speed notch toggles by 4 seconds regularly



- **New function 1/f Yuragi**
Speed notch toggles based on Yuragi pattern



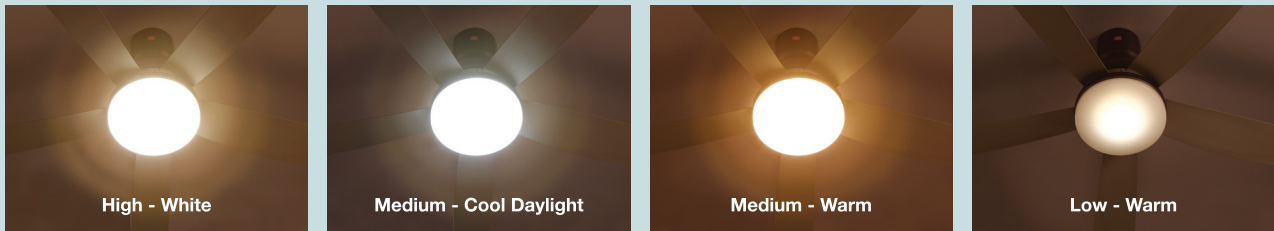
NIKKO 日光

60" 5-Blade with LED light

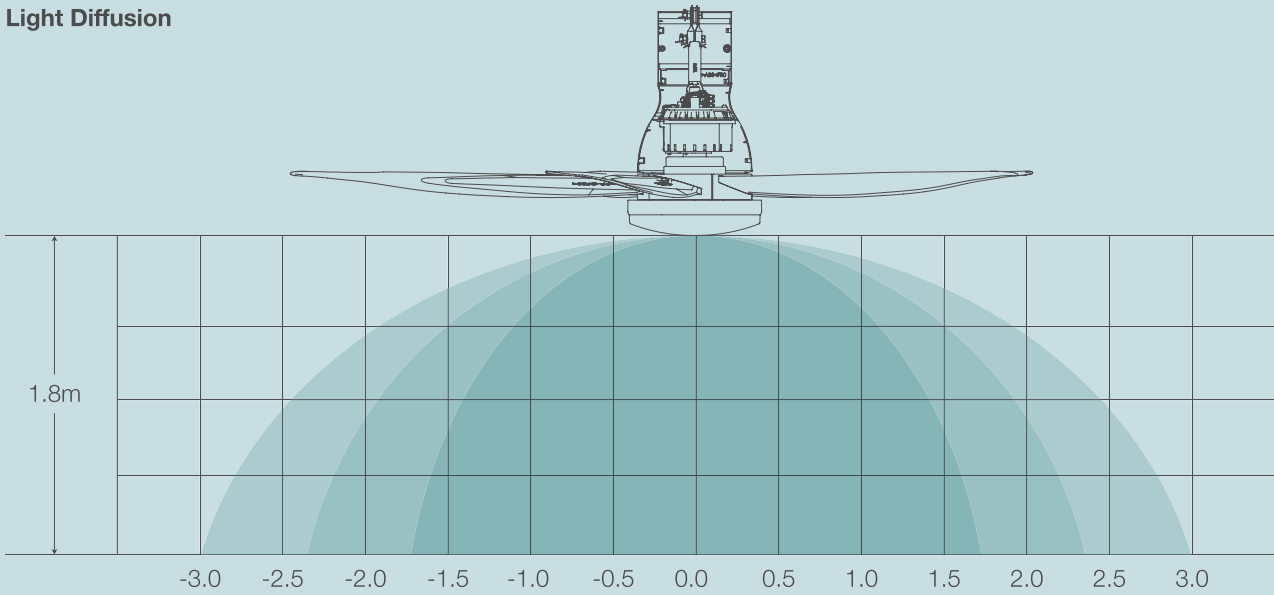
- Dual function: Fan and Light
- Efficient Lighting to daily life
 - More brightness for better usage Lighting - 200 lx
 - Selectable light color White / Cool Daylight / Warm
- Energy saving by DC-motor and LED Light.
- Luminance (Power UP)
- Diffusion (All-round LED COVER)



Being equipped with LED light, the fan has dual function. The light will shift among High, Medium, Low and OFF sequentially with every press of the 'Light Mode' button at remote control.



Light Diffusion



- High: 200lx / 22w (White Light)
- Medium: 150lx / 18w (Cool Daylight & Warm Light)
- Low: 3lx / 1w (Warm Light)

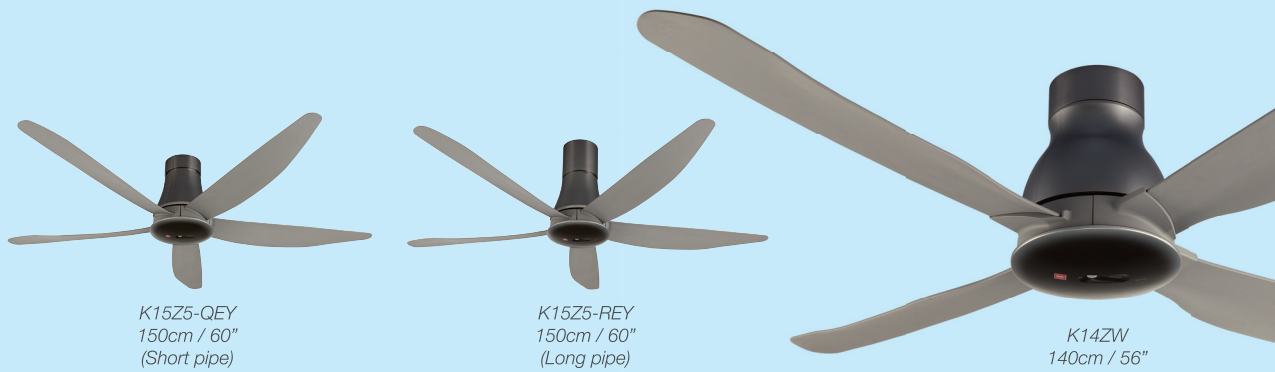
Note: 22w LED Light (Lower energy consumption) = 4 x 60w incandescent lamp

	Brightness	LED Colour	Wattage
High	200 (lx)	White	22W
Medium	150 (lx)	Cool Daylight	18W
		Warm	18W
Low	30 (lx)	Warm	1W

SENSA センサ SERIES

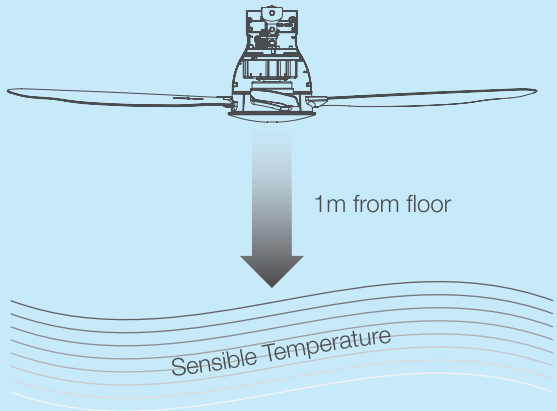
What is Sensible Temperature?

Sensible Temperature is the temperature felt by human being. It is not the same as the room temperature. Surrounding wind speed is one of the important factors reflecting the effect of the room and sensible temperature. Human being lose heat when expose to cold air. The greater the wind speed, the faster heat is lost.



Temperature Sensor (Auto Mode)

This pioneering technology has been applied in the Sensa Series, which is equipped with the temperature sensor to detect temperature changes and control the fan speed, generating the most comfortable air flow to suit the human body.



- 1 Temperature Sensor detects room temperature.
- 2 Fan speed is adjusted, changing of wind velocity according to measured.
- 3 Actual temperature is monitored. Temperature difference around the ceiling fan is monitored.

The sensor monitors the temperature change in the room and air velocity will vary automatically in accordance to below table.

- Activated 10 minutes after start
- Temperature detection every 10 minutes

	≥ 30°C	≥ 29°C	24 ~ 29°C	< 24°C
Room Temperature Zone (Simulation)	ZONE 1 : Day Time ☀	ZONE 2 : Day Time ☀	ZONE 3 : Day Time 🏠	ZONE 4 : Night Time 🏠
Room Temperature Changes	1°C ⬆️	1°C ⬇️	1°C ⬆️	1°C ⬇️
Eco Mode (9 Speed)	2 SPEED ⬆️	2 SPEED ⬇️	2 SPEED ⬆️	1 SPEED ⬇️

*Based on DC motor continuous 8 hours usage.

- Note:
- When Auto Mode is operated, speed cannot be changed and Sleep Mode cannot be activated.
 - Speed change for Auto Mode function is subject to different models.