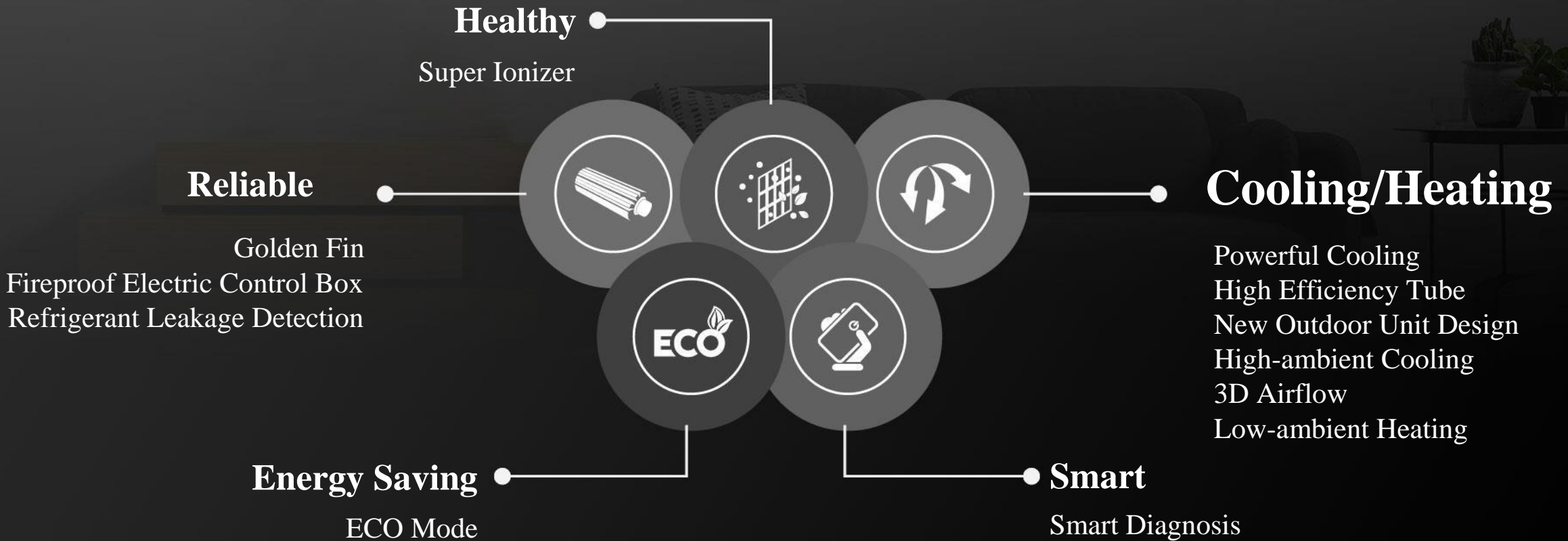


# Aurora Air Conditioner





Cooling



## Powerful Cooling

The optimized indoor and outdoor unit design improves cooling performance and generate a strong air flow as long as **12m** and air speed  $\geq 0.3\text{m/s}$ , keeping your entire room cool all through the summer.





# Cooling

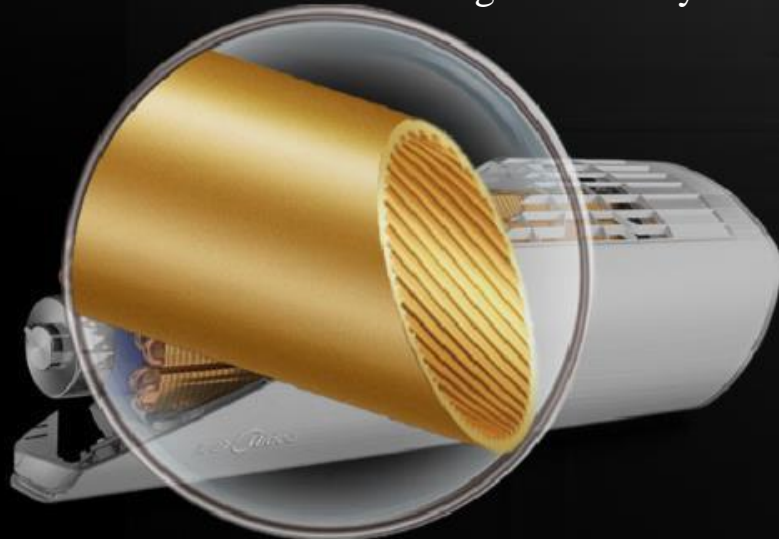
## Powerful Cooling-High Efficiency Tube

Increase the number of inner groove teeth from **45 to 54**, which enlarges the heat transfer area and increases heat transfer efficiency up by **7.3%**.

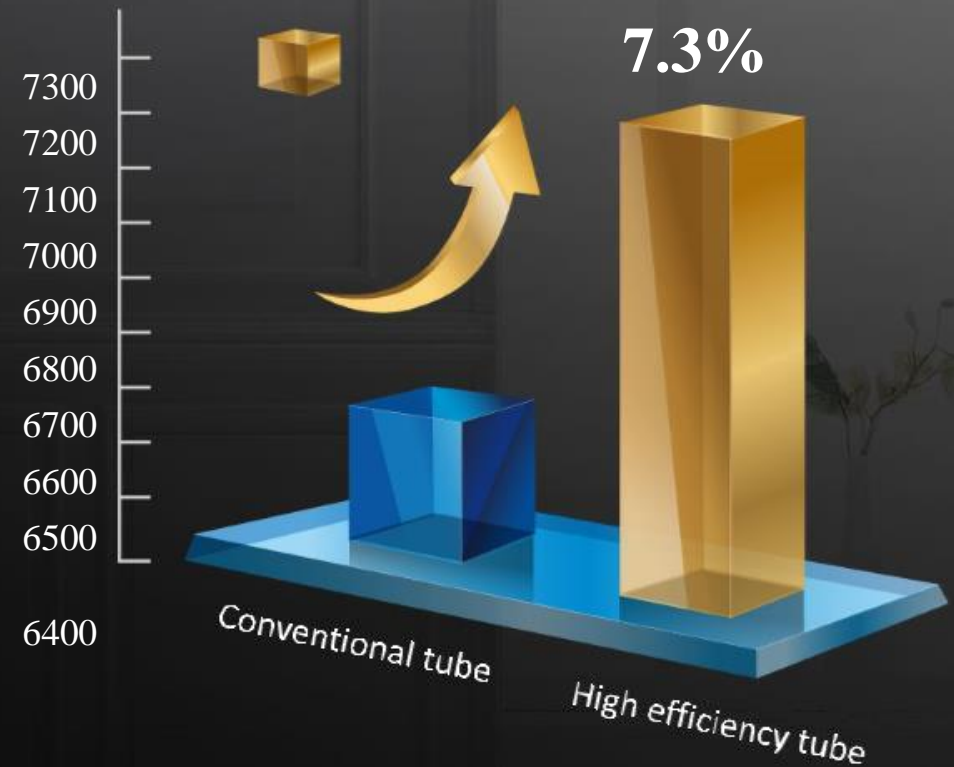


Conventional Tube

High Efficiency Tube



Total heat transfer coefficient  
(W/m<sup>2</sup>·K)



Cooling

## Powerful Cooling-New Outdoor Unit Design

Adopt the new Archimedes outlet spiral mesh enclosure design, which increases air flow by **5.6%** for better heat transfer efficiency.

Outlet Mesh Enclosure	Voltage	Air flow
Square (old)	220	1800
	230	1900
	242	1980
Round (new)	220	1900
	230	2000
	240	2100

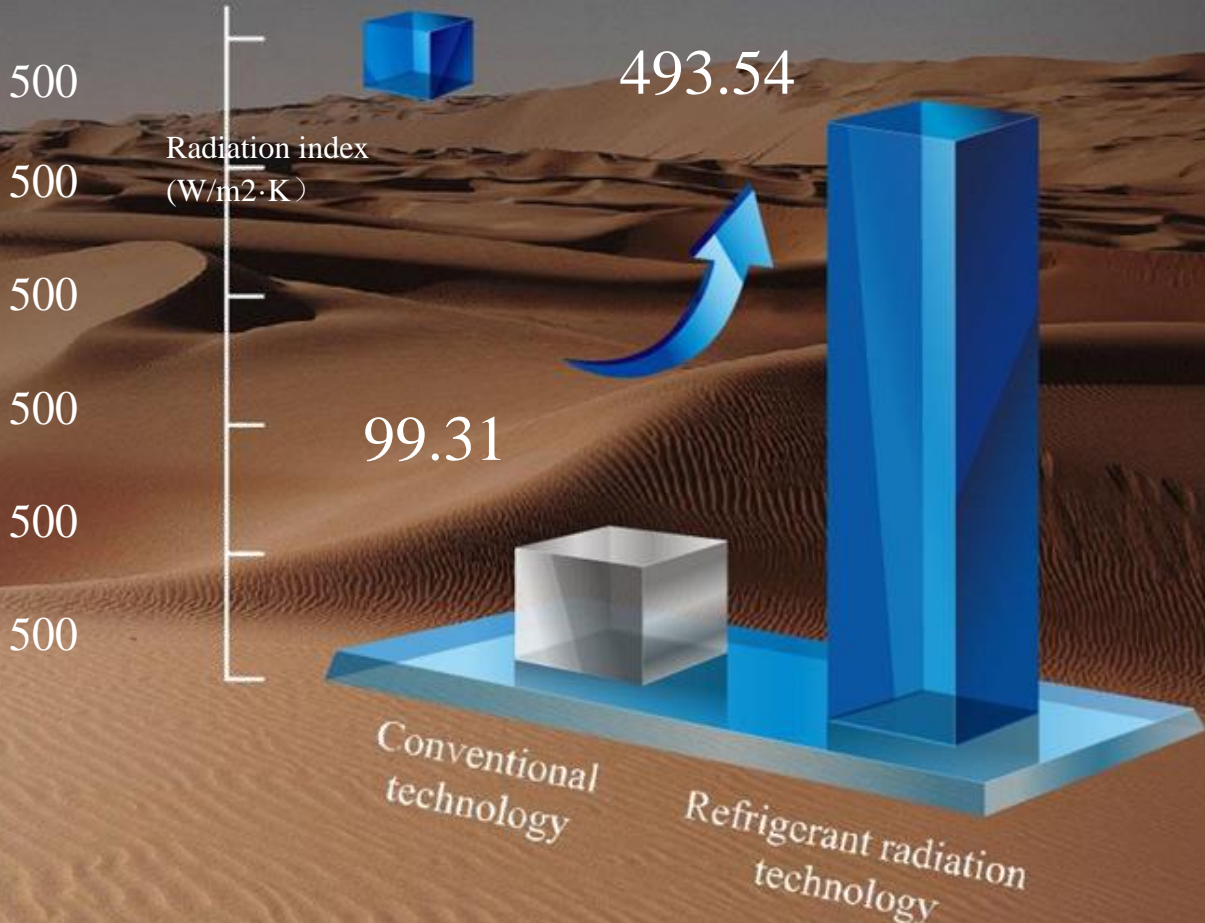




# Cooling

## High-ambient Cooling

New designed refrigerant pipe radiator utilizes low temperature refrigerant to cool the E-box efficiently, which can improve cooling performance at high ambient temperatures.



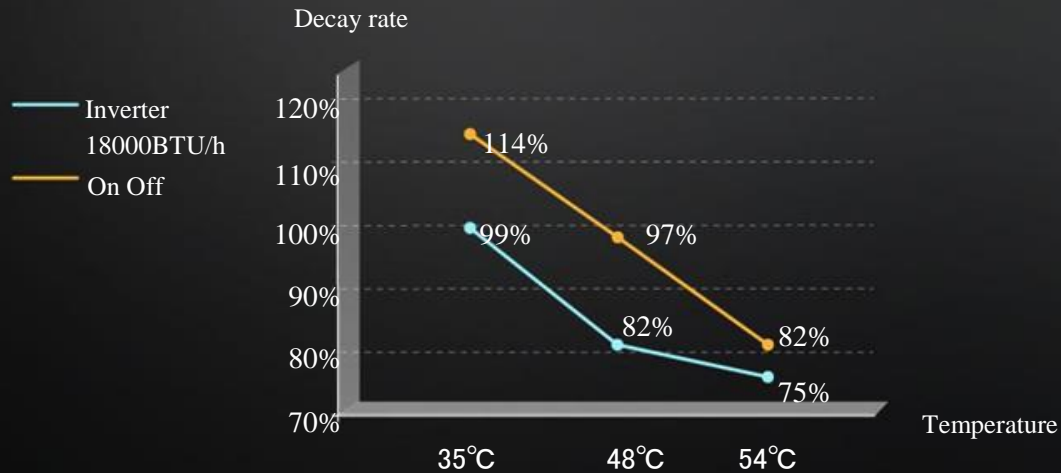
Cooling

# High-ambient Cooling

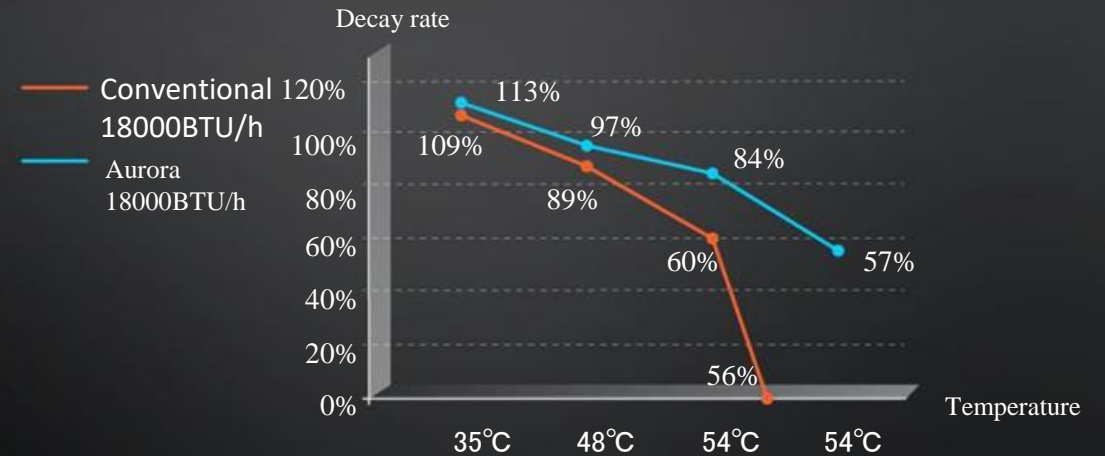


Works under temperatures as high as 67°C.\*

\*Only for selected models.



Focusing on the high-ambient temperature from 48° C~ 54° C, the inverter model has better performance than the fix speed model.



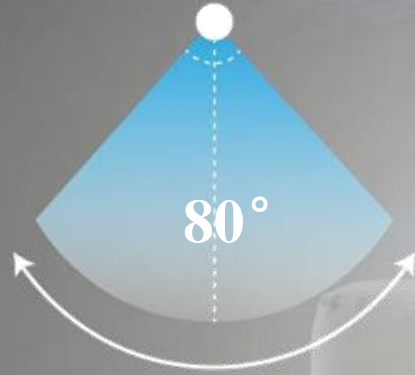
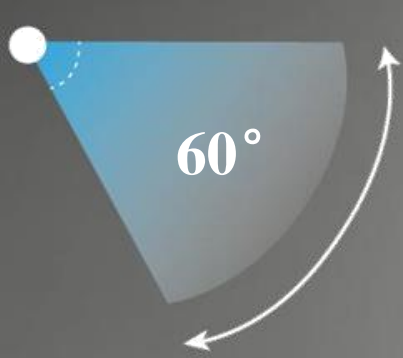
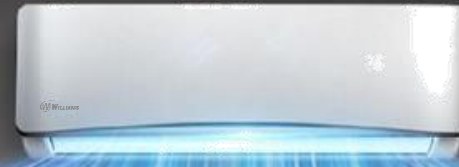
Conventional fix speed model stops working at 56° C, but Aurora's has 57% output under 60°C.



Cooling

## 3D Air Flow

The unit has horizontal swing and auto vertical swing function, which supplies more even and comfortable air flow.





Heating

## Low-ambient Heating



10 minutes  
after start-up



30 minutes  
after start-up



10 minutes  
after start-up



30 minutes  
after start-up

Ordinary air conditioners

VS

Air conditioners with low  
ambient heating function



COLD

HOT

The low ambient heating inverter technology, provides heating at extreme low outdoor temperature, making you feel warm in cold winter.



Reliable

**Golden Fin**



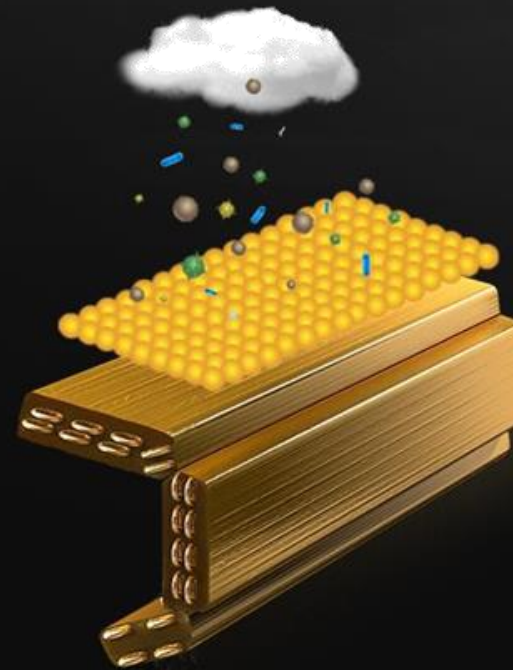


Reliable

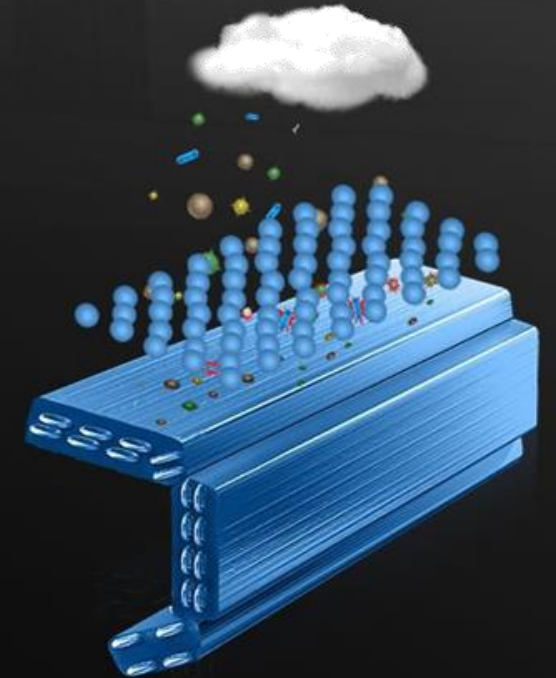
## Golden Fin



The unique anticorrosive golden coating on the heat exchangers can withstand the salty air, rain and other corrosive elements. It also effectively prevents bacteria from breeding and improves heat efficiency.



Golden Fin



Blue Fin

Reliable  
Golden Fin



Test 1



**Common Fin**



**Golden Fin**

Test 2



**Common Fin**



**Golden Fin**

**Test1:** 1000h neutral salt spray (equivalent to 10+ years of service life under normal conditions): protection level  $\geq 9.5$ , without perforation.

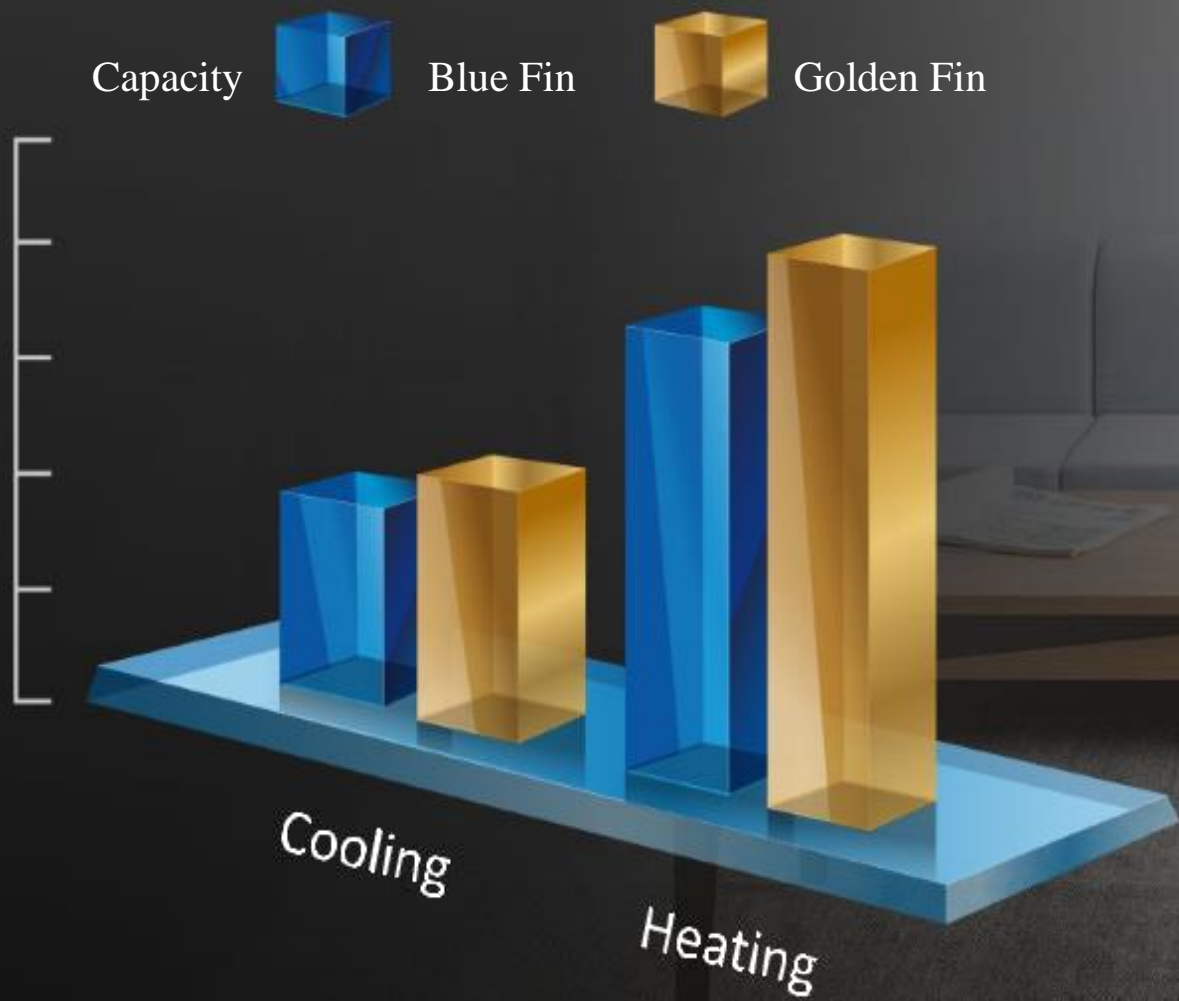
**Test2:** Acid resistance tests for 30 minutes (equivalent to 10,000 times accelerated acid rain test): corrosion area  $\leq 0.5\%$ .



Reliable

## Golden Fin

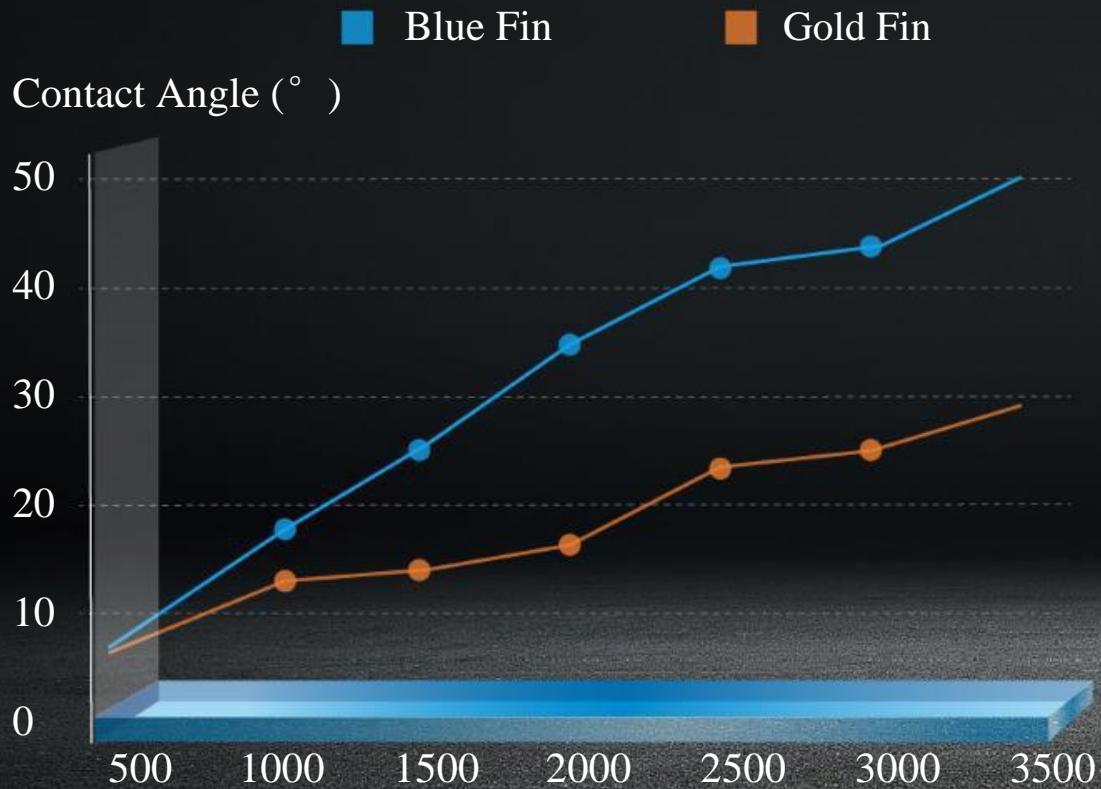
After one year of operation, the prototype with golden coating shows better performance in all working conditions than the prototype with blue coated foil.



Reliable

## Golden Fin

Dry-wet cycle tests 3000 times (equivalent to using an air conditioner for 10 years): the golden fin still has good hydrophilicity (hydrophilic angle  $\theta \leq 30^\circ$  ).





Reliable

## Fireproof Electronic Control Box



The electric control box uses ABS material with a 5VA flame retardant rating, and the outer surface is covered with sheet metal, which isolates the electric control box from fire.



Reliable

## Refrigerant Leakage Detection

Error Code



The system will stop operation automatically to ensure safety once the refrigerant leakage is detected.

 **WILLIAMS**





Energy Saving



Significant energy saving over **8** Hours



## ECO mode

The air conditioner is equipped with the ECO energy-saving technology, which perfectly synergized with highly efficient inverter technology. You can indulge in comfortable coolness while significantly reducing energy consumption over 8 hours.



Healthy

## Super Ionizer

Release high-concentration positive  
**(3,500,000 n/cm<sup>3</sup>)**  
and negative ions  
**(10,000,000 n/cm<sup>3</sup>)**  
to purify the indoor air.





# Smart Smart Diagnosis



Smart Diagnosis automatically tests 97 functions via its mobile app. Once a problem is detected, the air conditioner will display the error code “EC”. By simply swiping your finger you can give your air conditioner a checkup, allowing you to conduct maintenance in a timely manner. It’s just like having a private doctor for your air conditioner.

