QINGPING

Qingping Air Monitor Lite

Works with
Apple HomeKit

已接入米家
works with
mijia

24.6

23
PM2.5

Five-in-one Air Monitor

**PM2.5, PM10, CO_2,
temperature and humidity**

Product Features

- Real-time monitoring: PM2.5 + PM10 + CO_2 + temperature + humidity

- Capacitive touch bar, simple and intuitive operation

- OLED screen, clear and easy to read

- Color indicator light, know your air quality at a glance

- Accurate and data-backed sensors

- Support Mijia or Apple Home Kit, link with products for automation

Accurate Monitoring

PM2.5/PM10:

Laser scattering particle sensor with high precision

Temperature & Humidity

High accuracy sensors from Sensirion

SENSIRION
THE SENSOR COMPANY

The world's largest manufacturer of temperature and humidity sensors

CO_2 Sensor S8

SenseAir S8 Sensor

Senseair
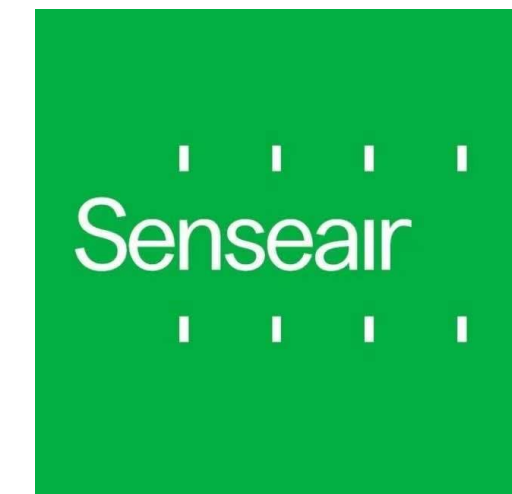
The world's largest manufacturer of CO_2 sensors

• Particle concentration screening & analysis technique using laser scattering

• High sensitivity, fast refresh speed, short response time, high correlation

• Tried and tested sensors

• High accuracy and high consistency

• Nondispersive infrared (NDIR) spectrum analysis

• High stability, precision, excellent anti-interference and sensitivity.

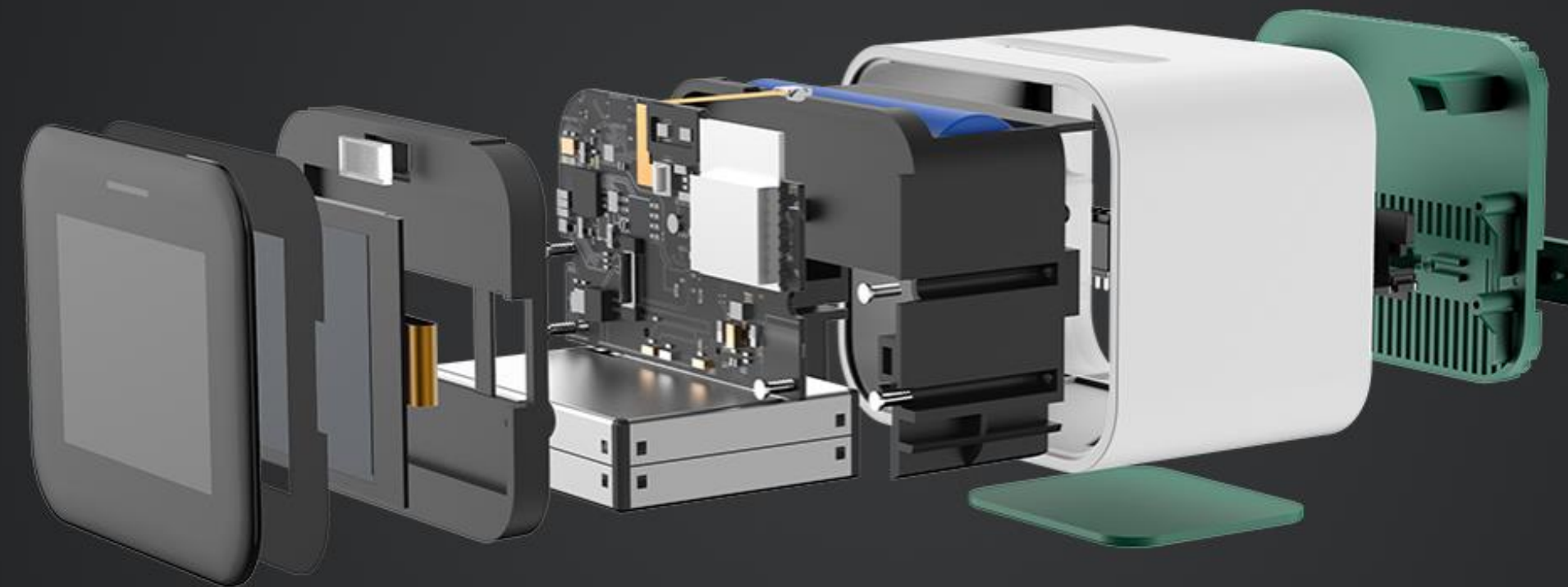# Fast response · Accurate monitoring

5	0.3 μm
5 readings per second	Smallest particle size detected

Sleek Design

Simple appearance, delicate and portable

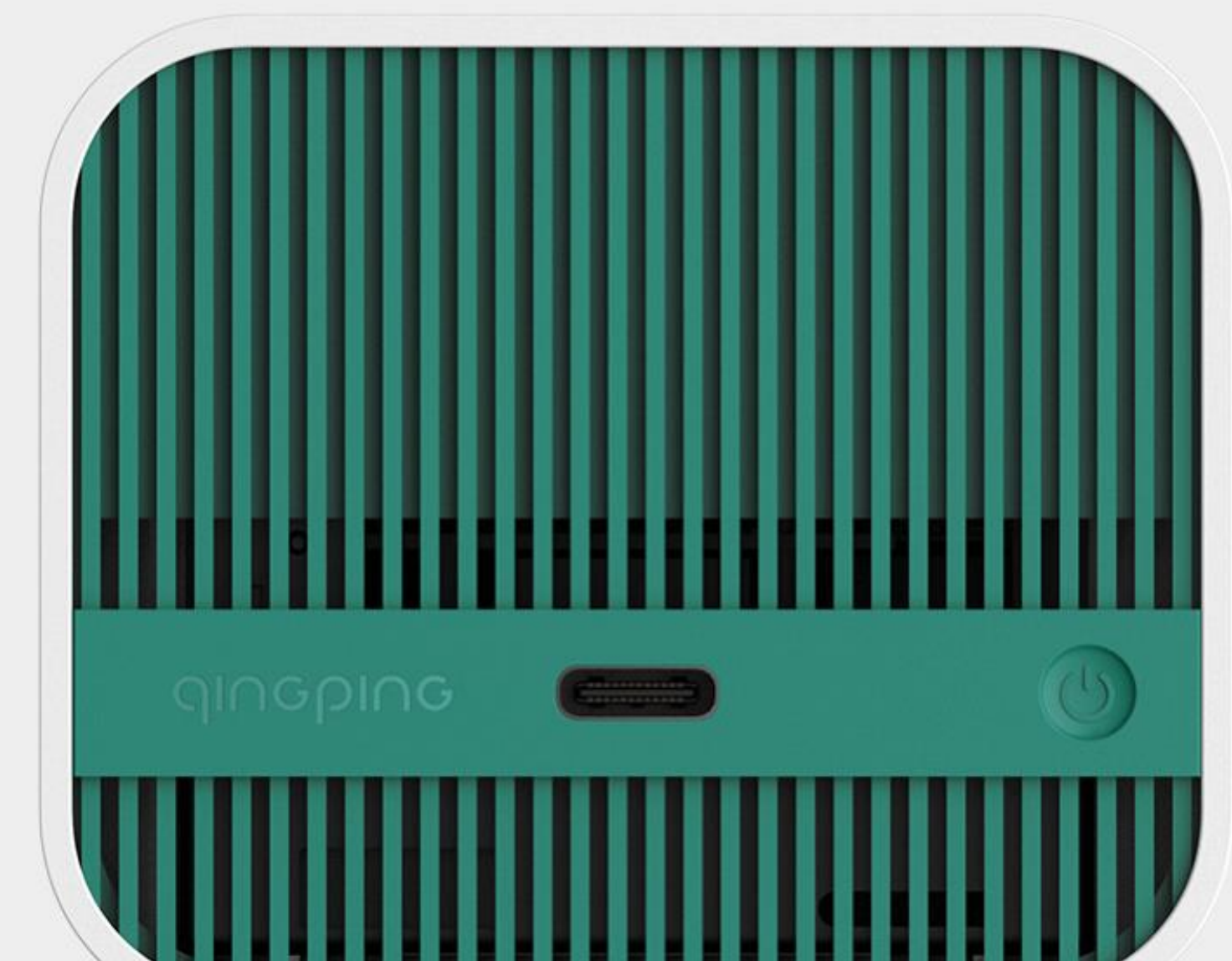Minimalist design, white frame with round screen, gentle and decent.

Pixel style UI design brings more personality and interest; OLED screen enables clear display and better visuality.

Dark green grille in the back with beauty and elegance

Silica gel base for stable placement

Click/slide, simple and intuitive

Capacitive touch bar on the top supports sliding and clicking to switch the reading, comparable to the touch screen.

- PM2.5

- PM10

- CO_2

- Temperature

- Humidity

Colorful indicator light, clear at a glance

Air quality, temperature and humidity levels are indicated by color grading, making it easy to monitor your air quality from a distance.
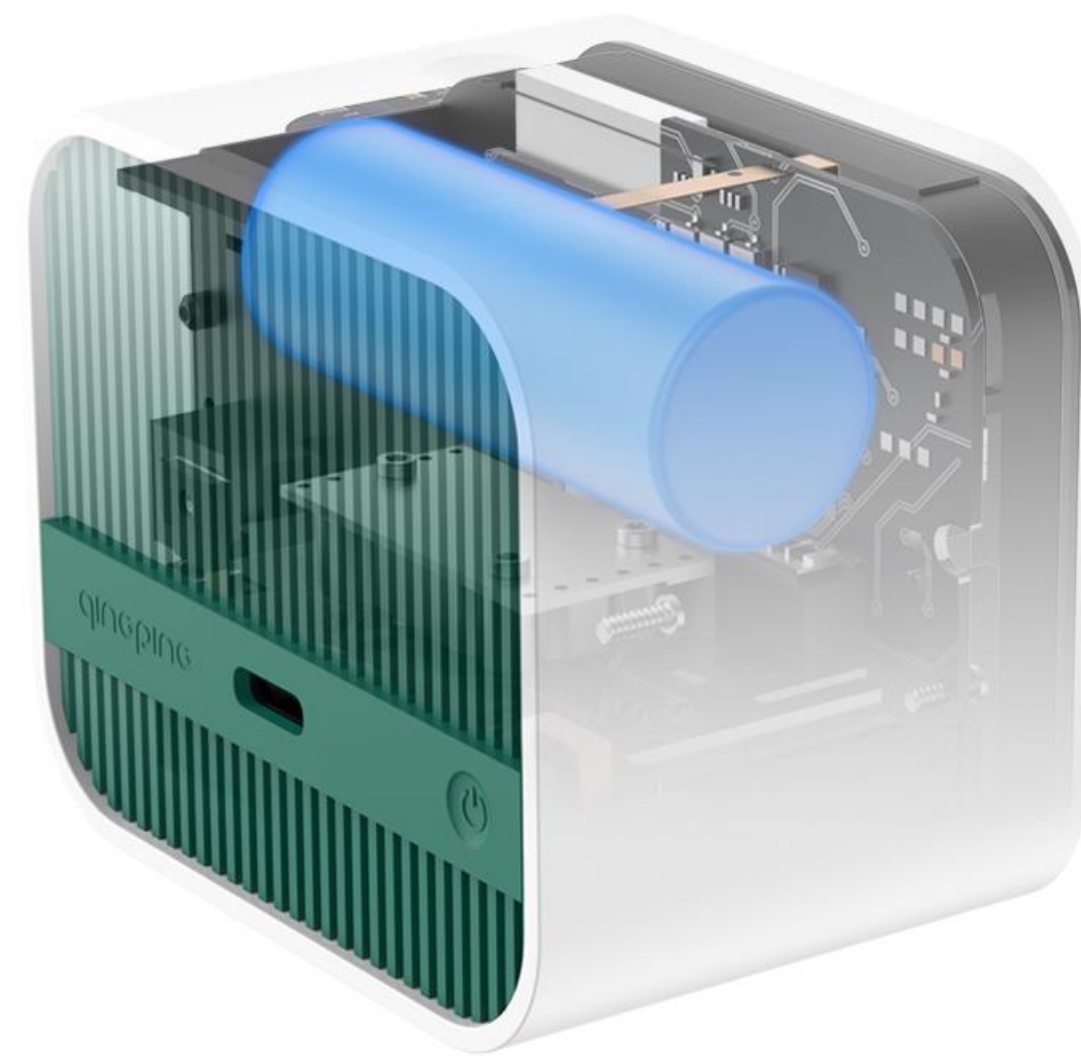

523
CO2

以 CO_2 为例：

颜色	范围	评价
🟢	0 ~ 1000	正常
🟡	1000 ~ 2000 ppm	浓度略高
🔴	2000 ~ 3000 ppm	浓度较高
🔴	大于 3000 ppm	浓度超高

* PM2.5、PM10、CO2、温度、湿度的分级和颜色各不相同。

Grid design, efficient sensor

Grid ventilation design enables each sensor to fully contact air

USB-C port, rechargeable lithium battery

Continuous USB power supply. Built-in 2000 mAh lithium battery, up to 7 hours of battery life

Home Connectivity

HomeKit / Mijia Support

Apple HomeKit & Mijia support, allowing connectivity and automation of various products at home.

Remote monitoring with the Qingping+ App

View your indoor air quality anytime, anywhere

Available with:

- Qingping+

- Apple HomeKit*

* Remote monitoring via Apple HomeKit requires a HomeKit hub, such as HomePod, iPad or Apple TV.

Record and view historical data

Historical data of 24 hours and 30 days can be viewed through Qingping+ app, including PM2.5, PM10, CO_2, temperature and humidity.

Export data to your computer for analysis.

Product description

Product dimensions	63.6 × 46 × 54.6 mm
Product weight	143 g
Ranges	• PM2.5： 0 ~ 500 μg/m³ • Temperature： 0 ~ 60℃ • Humidity： 0 ~ 95% • CO_2： 400 ~ 5000 ppm
Power input	5V ⎓ 1A Power port： USB-C
Battery type	Lithium ion battery 2000mAh/3.7V
Battery life	7 hrs (always connected to the power supply is recommended)
Wi-Fi	Wi-Fi 2.4GHz
Screen specification	OLED Screen， 59.9 × 49.9 mm
Supported platform	• Apple HomeKit • Mijia

Qingping Air Monitor Lite VS Qingping Air Monitor

	Qingping Air Monitor Lite	Qingping Air Monitor
Screen	OLED screen Screen can show one sensor at a time	IPS touch screen Multiple sensor readings on one screen
Test parameter	PM2.5, PM10, CO_2, temperature, humidity	TVOC, PM2.5, CO_2, temperature, humidity
Date and time	✕	☑
Weather broadcast	✕	☑
Outdoor air quality	✕	☑
Supported app	• Apple HomeKit app • Qingping+ app	• Qingping+ app
Wi-Fi	Wi-Fi 2.4GHz	Wi-Fi 2.4GHz

Certifications

- RoHS2.0
- CE-RED
- FCC-SD0C
- SRRC
- GB4943
- BQB
- Battery IEC62133 test
- Product test report
- PM2.5 calibration certificate
- Temperature and humidity calibration certificate
- Apple MFi

Common Questions

Why do we still need an air quality monitor,
if air quality is improving?

- 99% of the world still breathes polluted air. PM2.5 levels may be improving in many countries, but they are still not safe.
- PM2.5 is not the only form of air pollution

CO_2

- High CO_2 concentrations can make people drowsy; CO_2 rises quickly in sealed rooms
- CO_2 is a way to measure freshness of indoor air:
- High concentrations generally mean room is poorly ventilated
- High concentrations may mean other gaseous pollutants are accumulating, such as aldehydes and benzene is reduced

Why do we need a standalone air quality monitor?

"My purifier already has one!"

Standalone monitors vs. built-in monitors:

- Smart Air data shows standalone monitors are more accurate than built-in monitors
- Built-in monitors measure air right next to the purifier, which may not be representative of a room's real air quality
- Standalone monitors are portable and can be used to measure air in multiple places
- Standalone monitors measure more than just PM2.5: temperature, CO2, humidity, giving a more wholistic view of air quality
- Built-in monitors are typically fixed to one AQI standard, and can't be changed (e.g. Xiaomi purifier fixed to China standard)
- Standalone monitors have bigger screens more clearly showing your air quality, and can often show forecasts
- Built-in monitors inflate purifier cost. B2C case: 2 purifiers for 2 rooms – you're paying x2 for a monitor. B2B case: 10 purifiers for one office – you're paying x10 the price for monitors

Why doesn't the monitor support test for formaldehyde?

Formaldehyde testing is not possible out of lab conditions. Monitors that say they are measuring "Formaldehyde" are lying. The Qingping monitors show tVOC to give a more accurate representation of VOCs in the air.

Appendix: significance of CO_2

CO_2 is a common atmospheric compound, accounting for about 0.04% (400 ppm) of the atmospheric volume.

CO_2 is usually produced by organic compounds combustion, cell respiration, microbial fermentation, etc. Indoor CO_2 mainly comes from human breathing.

Some people may experience feelings of drowsiness when indoor CO_2 levels are above 1,000 ppm. At levels above 2,000 ppm, some people may experience nausea and headaches. Do not stay in the environment with a CO_2 level above 5000 ppm for more than 8 hours.

Appendix: significance of temperature and humidity

- There is a sweet spot in the relative relationship between temperature and humidity

- For example, the higher the temperature, the lower the tolerance of humidity

- ASHARE(American Society of Heating, Refrigeration and Air Conditioning Engineers) published the ASHARE-55 standard entitled Thermal Environmental Conditions for Human in 1966, which summarizes the relative relationship between temperature and humidity and put forward the concept of comfort zone. The latest version was released in 2013.
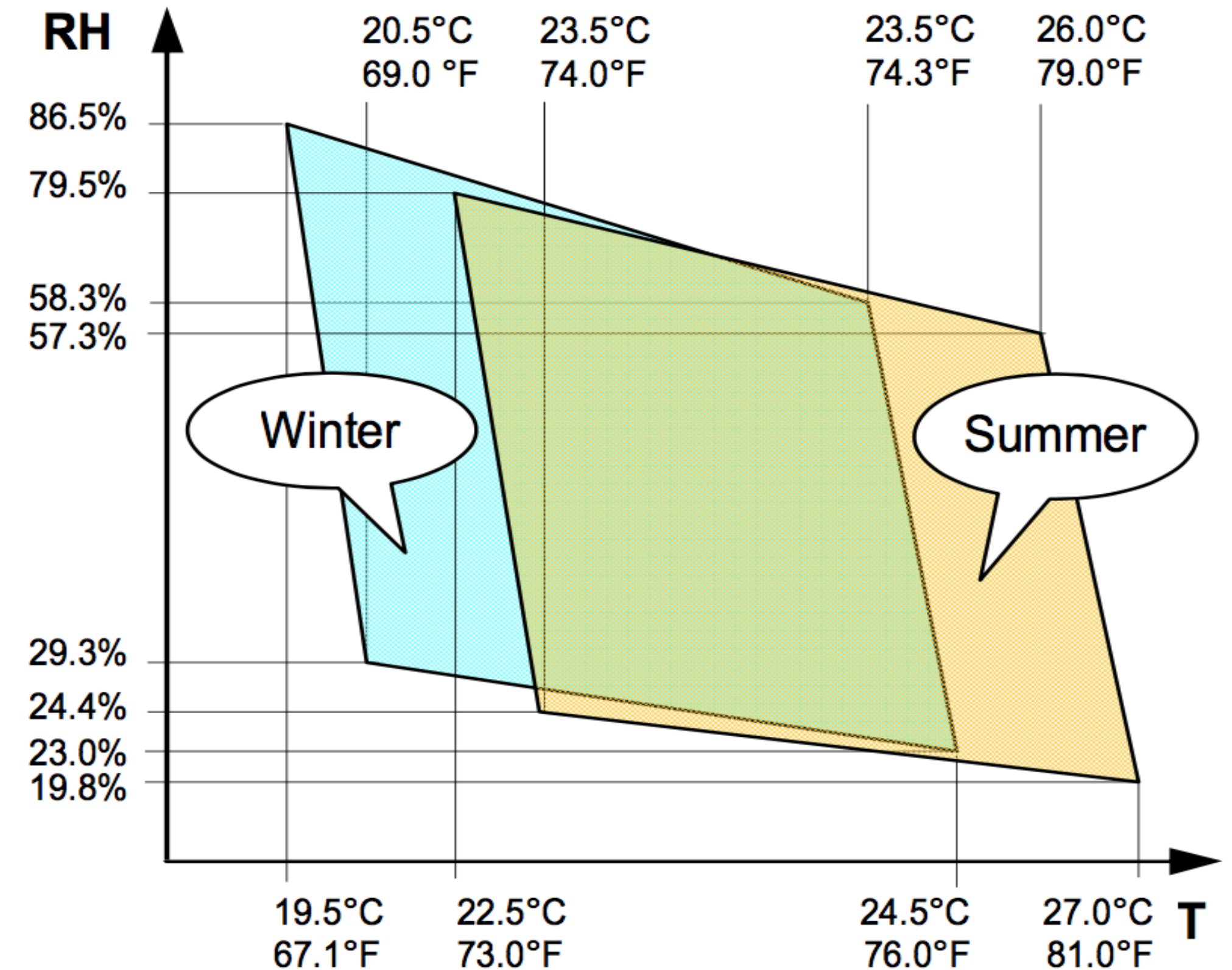

Figure 1 Relative humidity (RH) / temperature (T) diagram based on comfort zone according to ASHRAE 55-1992.

Comparison of competing products at similar prices

Brand	Qingping	Bosch	Siemens	Greensky
PM2.5	●	●	●	●
PM10	●	●		●
tVOC				●
CO$_2$	●			
Formaldehyde				●
Temperature	●		●	●
Humidity	●		●	●
Screen	OLED	Segment code LCD	Segment code LCD	Segment code LCD
Wi-Fi	●	●	●	
Outdoor air quality			●	
Supported platform	Mijia、Apple HomeKit			
Price (RMB)	499	499	718	499