AIRZONE

Airzone Technology

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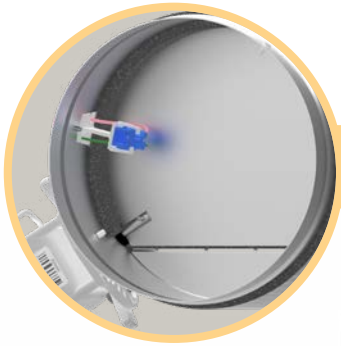
We have designed **cutting-edge air purification technology** to improve indoor air quality. We apply the ionisation technique to Easyzone, one of our most popular systems.

The total control of reversible heating integrated into home automation systems, combined with the improvement in air quality achieved with Airzone, guarantees **healthier and more sustainable living and working spaces for the future.**

Reduction of **50%** particles in the air and suspension time*.

Measurement of particles



Ionisers in the dampers

Elimination of odours due to the reduction of VOCs.

Inhibition of **bacteria, viruses and other** pathogens.

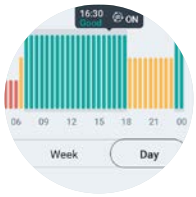
COMPREHENSIVE STUDY:
airzonecontrol.com/support/downloads

* Data taken from the Airzone IAQ technology performance report: **airzonecontrol.com/support/downloads**
VOCs: Volatile Organic Compounds. | $PM_{2.5}$: very small particles with a diameter of less than 2.5 microns.

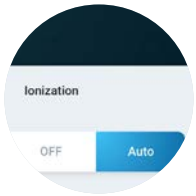
Air quality from the application

With the Airzone Cloud app, **you can monitor the indoor air quality** of your residential and commercial spaces **anytime and anywhere.**

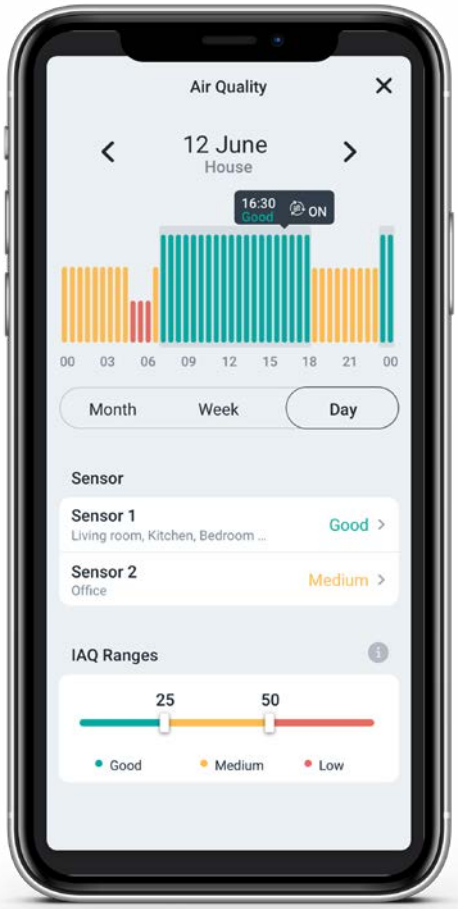
3 levels of measurement of 2.5 µm particles.



Graphic visualisation of air quality.

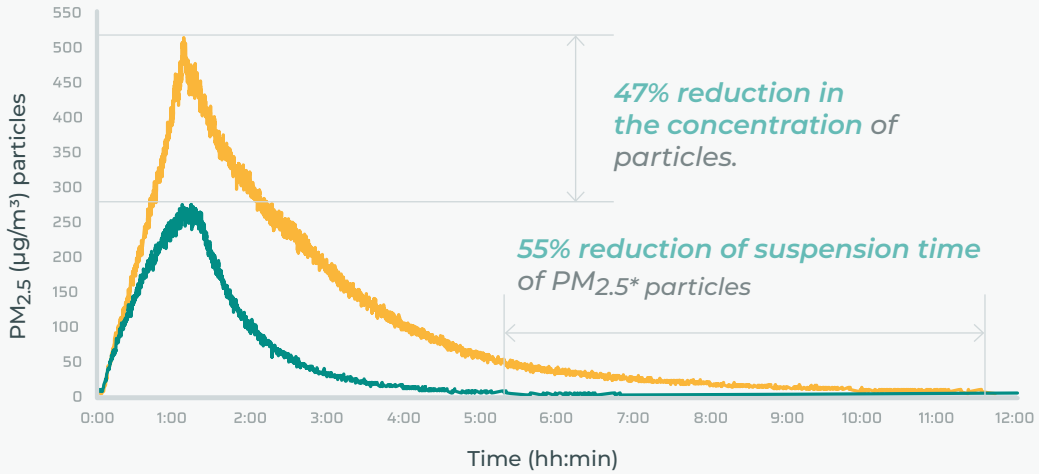


Operation **modes: on, off and automatic.**



Evolution of the concentration of $PM_{2.5}$ particles*

- Airzone technology activated.
- Airzone technology deactivated.



$PM_{2.5}$: very small particles with a diameter of less than 2.5 microns.

Indoor air quality

What is air quality?

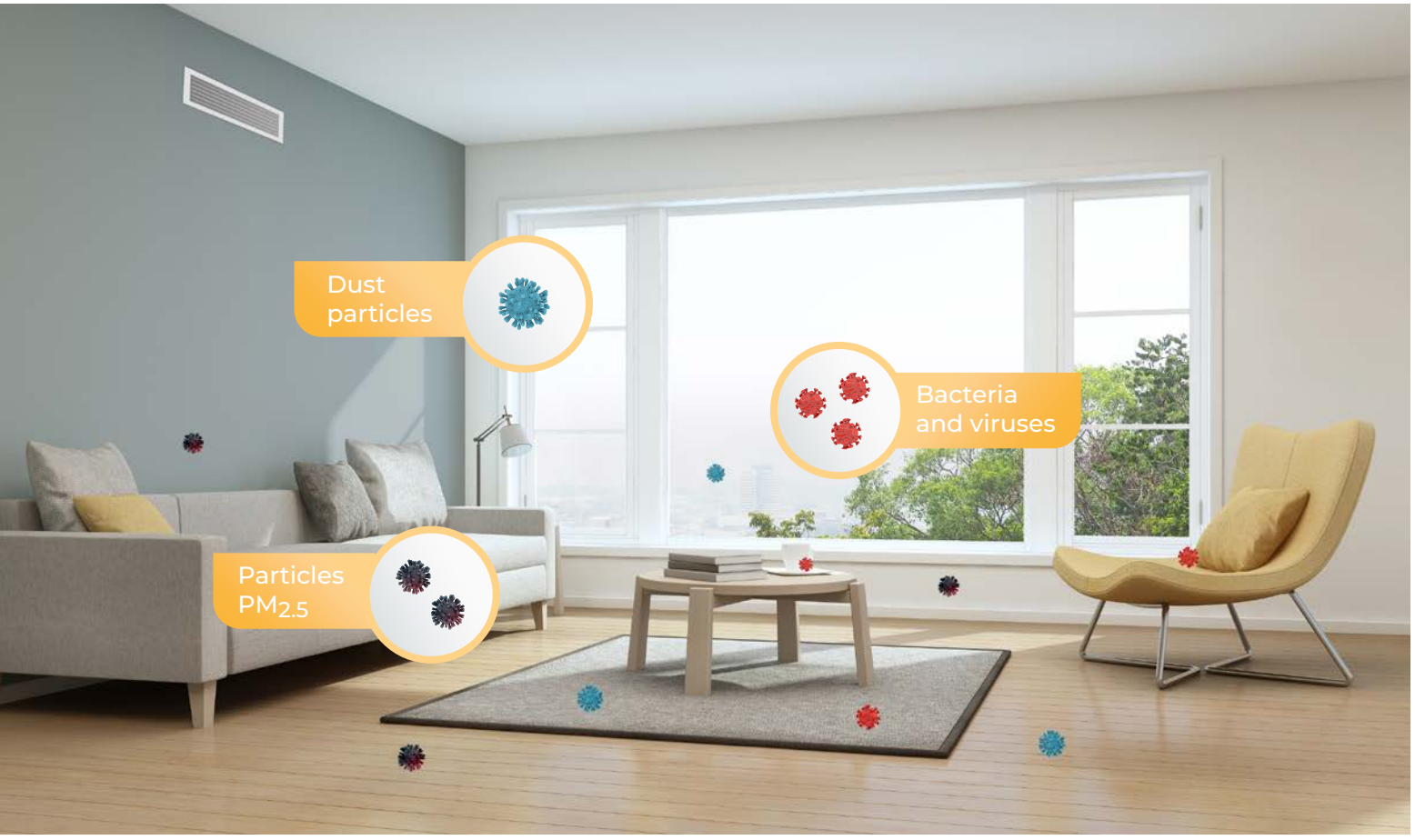
Indoor air quality (IAQ) refers to the **levels of purity of the air we breathe** inside a building.

Temperature, humidity, CO_2 and **airborne particles** such as dust, mites, VOCs*, and other elements such as deodorants or smoke all affect **air quality.**

Poor air quality *can cause allergies, fatigue, dizziness, headaches, and irritation of the eyes, nose and throat.*

More than **90%** We spend our time indoors

BEFORE THE PURIFICATION PROCESS
LOW AIR QUALITY

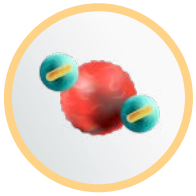


VOCs: Volatile Organic Compounds. | $PM_{2.5}$: very small particles with a diameter of less than 2.5 microns.

Air purification

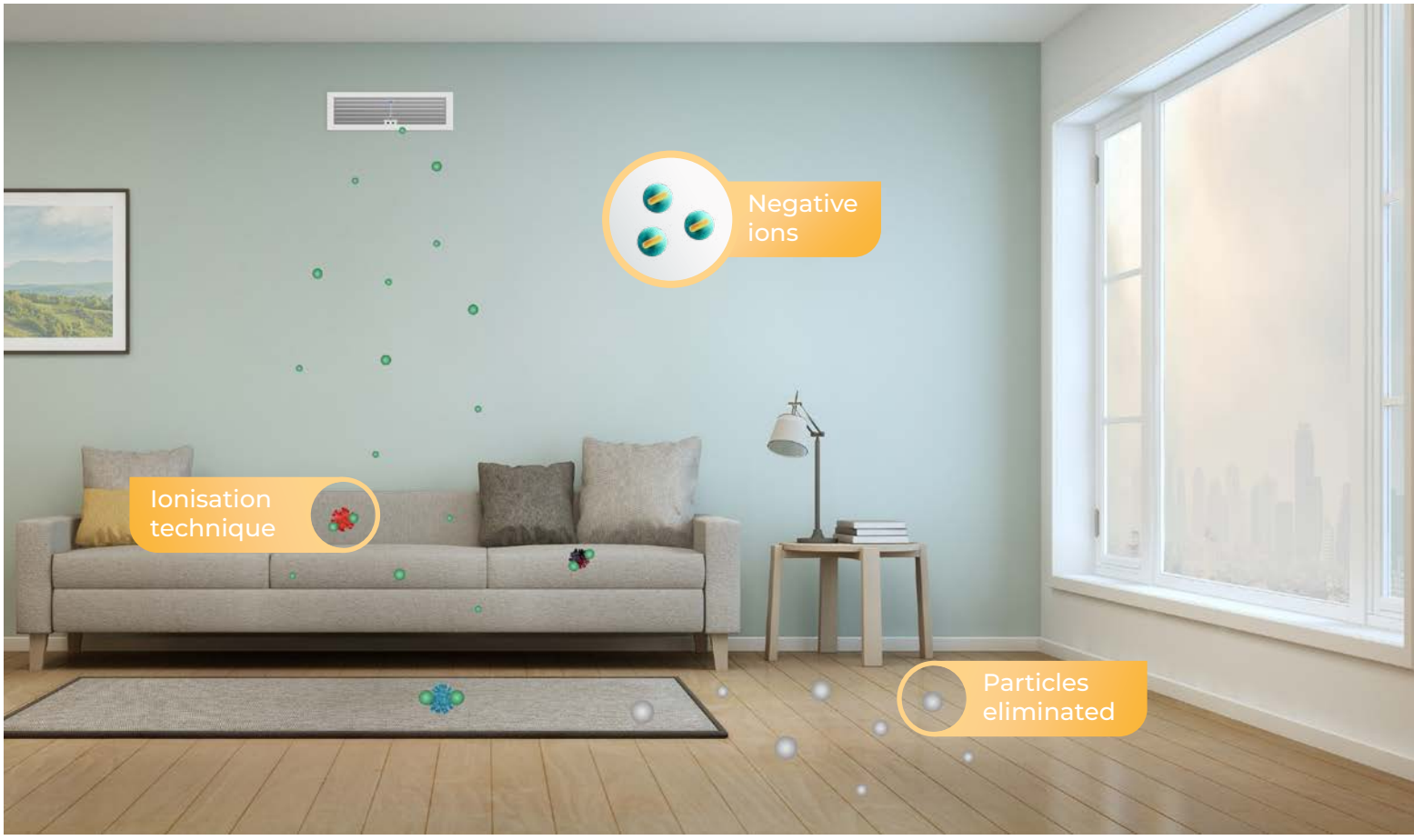
Air purification is **a process aimed at neutralising the pollutants and harmful particles** that are suspended in the air, in order to improve indoor air quality.

Ionisation as a purification technique is based on **the diffusion of ions carrying a negative charge** in order to attract particles carrying a positive charge.



Thanks to ionisation, ***the particles come together, which leads to an increase in their weight, and then they fall to the ground.***

BEFORE THE PURIFICATION PROCESS
BETTER AIR QUALITY



Full control heating and cooling systems

Integration of the main technologies

Our solutions allow centralised control of the **main heating and cooling technologies on the market**, for both multi-zoned and single zone systems.

- Air-to-Air heat pump
- Air-to-Wate heat pump
- VRF
- Multisplit and monosplit Inverter
- Domestic hot water
- Boiler

Protocols certified by the manufacturers

We work with industry leaders to ensure **two-way communication.** By using the same communication protocols, we keep the original functions of the unit intact. **We develop communication gateways as well as control algorithms** which, together, make it possible to obtain a high level of comfort and a decrease in consumption.

Controlled mechanical ventilation

Airzone control by means of Easyzone motorised plenums makes it possible to **use the same ductwork for thermal treatment and air renewal,** while keeping them independent and autonomous.

Eco-Adapt: temperature optimisation and limitation

The Eco-Adapt algorithm dynamically adjusts **the set-point temperature** of the unit according to the return temperature. Eco-Adapt ensures optimum comfort for the user, as well as an improvement in the performance of the unit, since it operates as long as possible at partial load. By applying zone control to a space, **a 20 to 30% increase in performance of the unit is obtained, compared to its rated performance.**

Q-Adapt: control of the speed

Function that enables selecting **the fan speed of the zoned AC units according to the zones on demand.** The solution is thus adapted to the particularities of the application and the needs of each zone in terms of flow. Depending on the system, it is possible to regulate the flow rates:

- By assigning weights to each zone.
- Thanks to 5 preset modes.

Combined control of the air and radiant elements

The control of air stages and radiant elements in cooling and heating mode is combined on a single thermostat. Thanks to the efficiency algorithms, optimum levels of comfort and maximum performance of the application are obtained.

First, we apply state-of-the-art technology to control the thermal inertia of the floor and offer a more pleasant feeling of warmth.

In addition, the air stages provide an immediate sensation of warmth, which allows you to obtain the desired comfort and stabilise unforeseen variations in temperature.

This combination of systems avoids overheating the zones and reduces energy consumption.

MANUFACTURERS

AUX · AERMEC · AIRCALO · atlantic · BAXI · biniclima · BOSCH · Carrier · CHAPPEE · CIAT · CLIMAVENETA · CLIVET · DAIKIN · daitsu · De Dietrich · EAS ELECTRIC · EKOKAI · FUJITSU · Fuji Electric · Galletti · GENERAL · giatsu · GREE · Haier · HEIWA · HOKKAIDO · Hisense · HITACHI · HIYASU · HTW · johnson · kosner · LG · MULTIWARM · MUNDOCLIMA · Midea · MITSUBISHI ELECTRIC · MITSUBISHI HEAVY INDUSTRIES LTD. · NIPPONAIR · OLIMPIA SPLENDID · Panasonic · SABIANA · SAMSUNG · systemair · TOSHIBA · TRANE · VIESMANN

altherma · ecodan · Midea · Open Therm · YUTAKI

Airzone Blueface

Enjoy control using a touch screen

Wired | Configurable as primary

- On/Off
- Temperature control
- Indoor air quality[1]
- Humidity reading
- Selection of the mode[2]
- Basic configuration
- Navigation by zone
- Eco-Adapt function[2]

[1] Available only with the Easyzone system. [2] Available if thermostat is configured as primary.

Wireless

Configurable as primary

- On/Off
- Temperature control
- Indoor air quality[1]
- Humidity reading
- Selection of the mode[2]
- Basic configuration
- Navigation by zone

Airzone Think

Control with capacitive keys

[1] Available only with the Easyzone system.
[2] Available if thermostat is configured as primary.

Airzone Lite

Simplify control and increase or lower the temperature by 3 degrees

Wired and wireless

Data configurable via the Blueface thermostat and/ or the Airzone Cloud app.

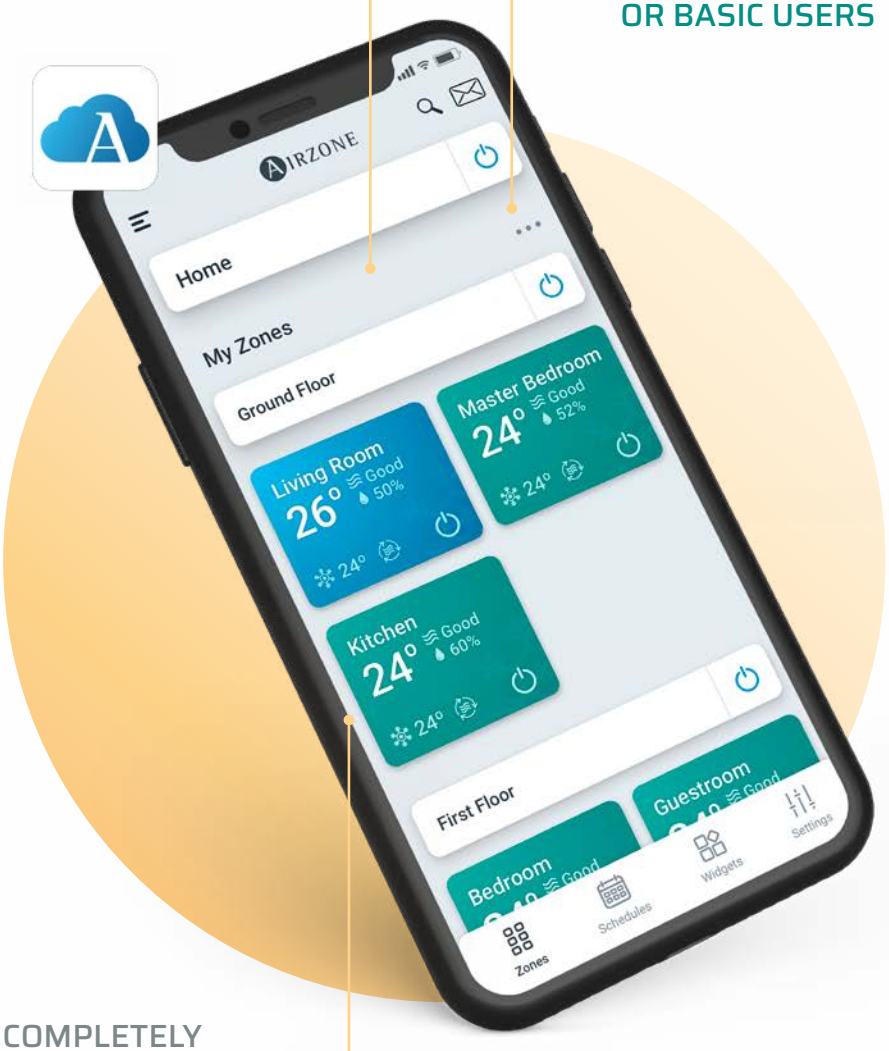
- On/Off
- Temperature control
- Humidity reading
- LED lights

AIRZONE

Play Store App Store Demo

UNIFIED CONTROL OF AIRZONE AND AIDOO SYSTEMS

MULTI-USER: ADD ADVANCED OR BASIC USERS



COMPLETELY RENEWED INTERFACE

Airzone Cloud

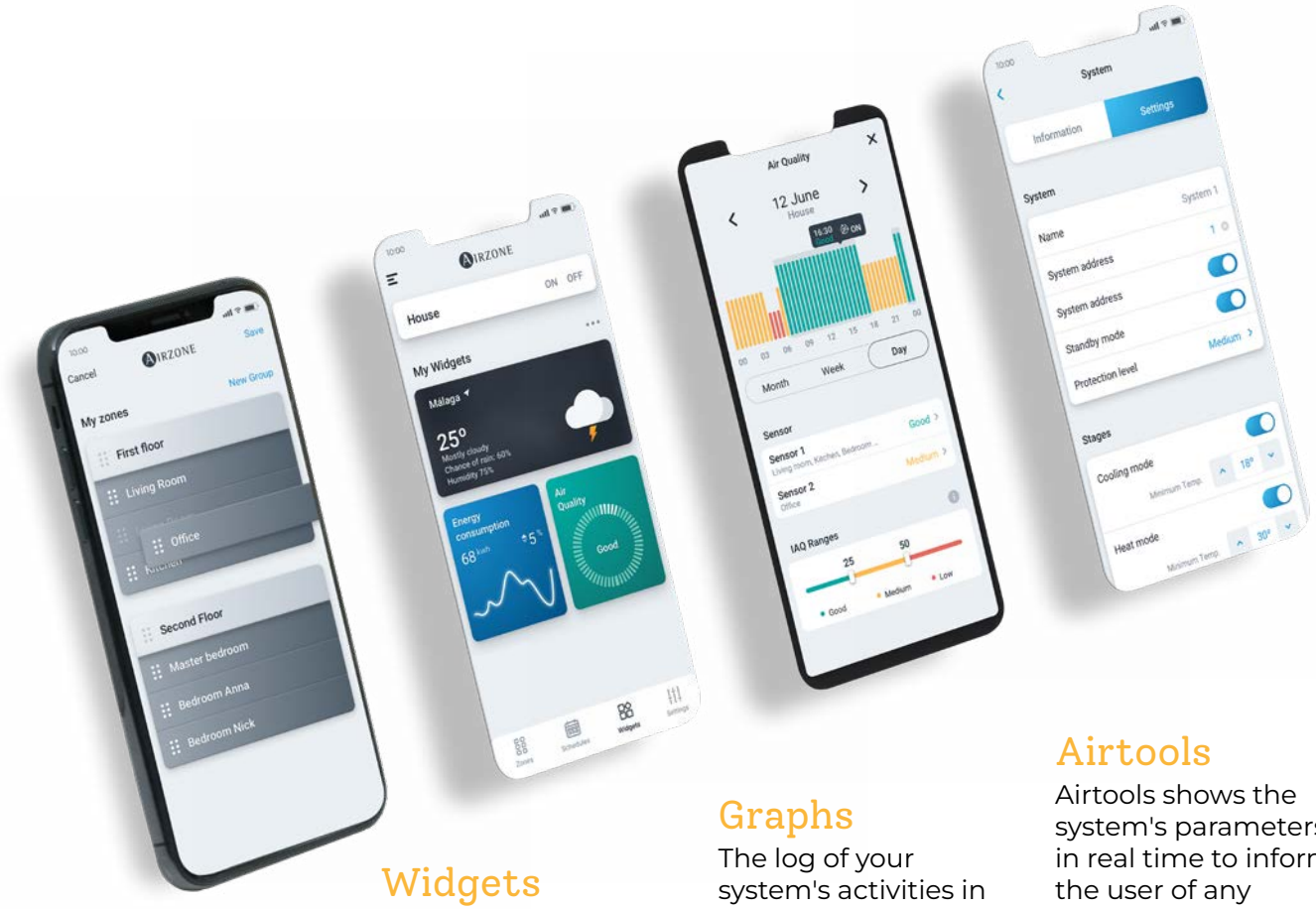
Control your entire system using the new Airzone Cloud application

- On/Off
- Temperature control
- Indoor air quality*
- Humidity reading
- Selection of the mode
- Advanced configuration
- Navigation by zone
- Programming
- Eco-Adapt function

* Available only with the Easyzone system.

Connectivity, wherever you are

The Airzone Cloud application has been redesigned to offer you **optimum control** through a simple and intuitive interface* equipped with **the latest Cloud technology.**



Customisable

Rearrange and modify the display of the zones, groups and systems.

Widgets

View all the data on air quality, consumption, weather and the scenes.

Graphs

The log of your system's activities in the form of graphs.

Airtools

Airtools shows the system's parameters in real time to inform the user of any potential malfunction.

* Installation of an Airzone Cloud Webserver is required to use the application.

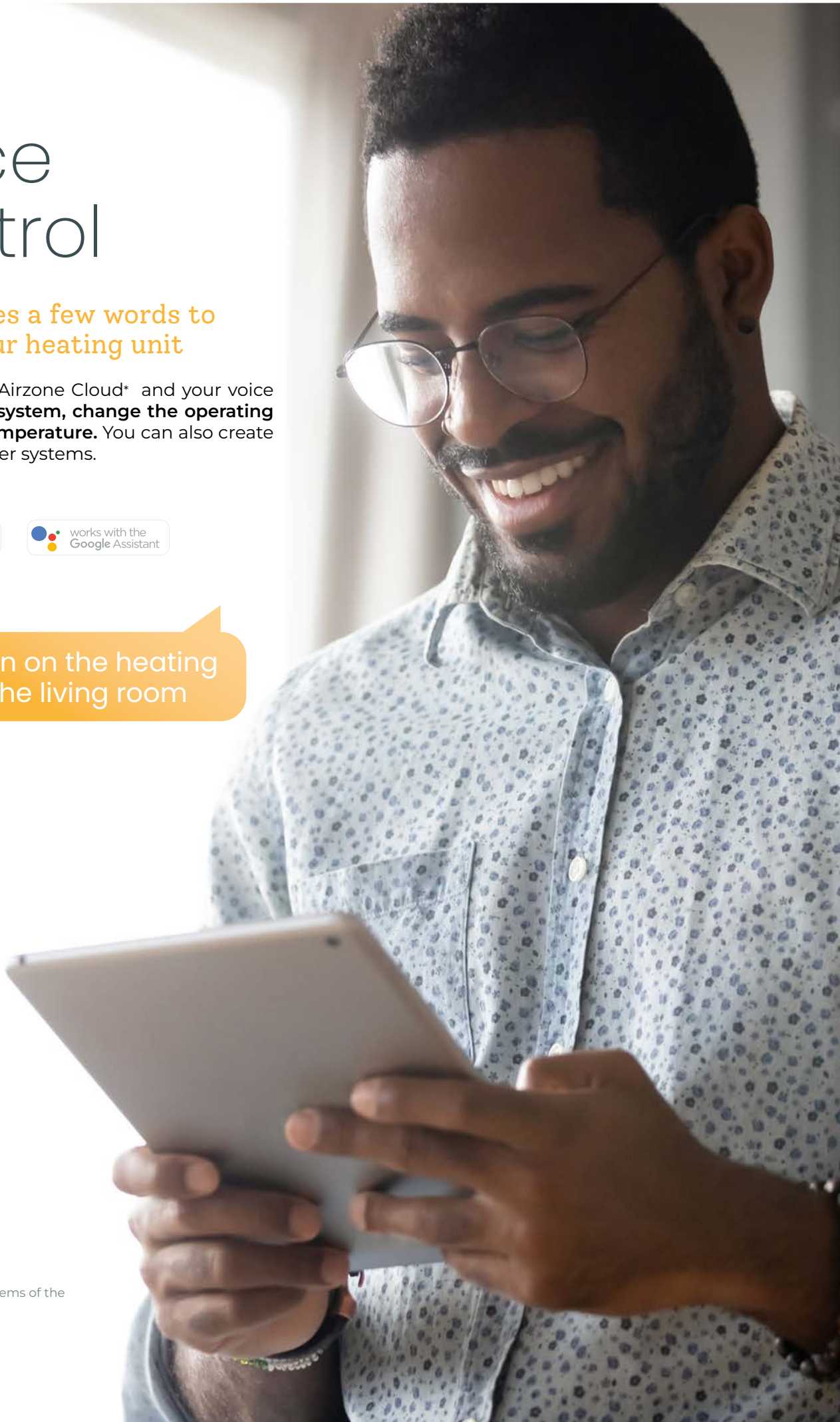
Voice control

It only takes a few words to control your heating unit

All you need is Airzone Cloud* and your voice **to turn on the system, change the operating mode or the temperature.** You can also create scenes with other systems.

amazon alexa

works with the Google Assistant



* Available only for systems of the 2016 product line.

Integration of heat pumps

Take advantage of the benefits we offer in terms of **integrating building management systems (BMS*) and home automation.** Let Airzone take care of the control of the heating and cooling systems

Quick and easy integration

Easily integrate any HVAC technology in a very short time.

Integration gateways

We have specific gateways for KNX, BACnet and Lutron systems.

Simple configuration and programming

Your systems are integrated thanks to our drivers developed with the protocols of main home automation brands.

Cloud API and REST API

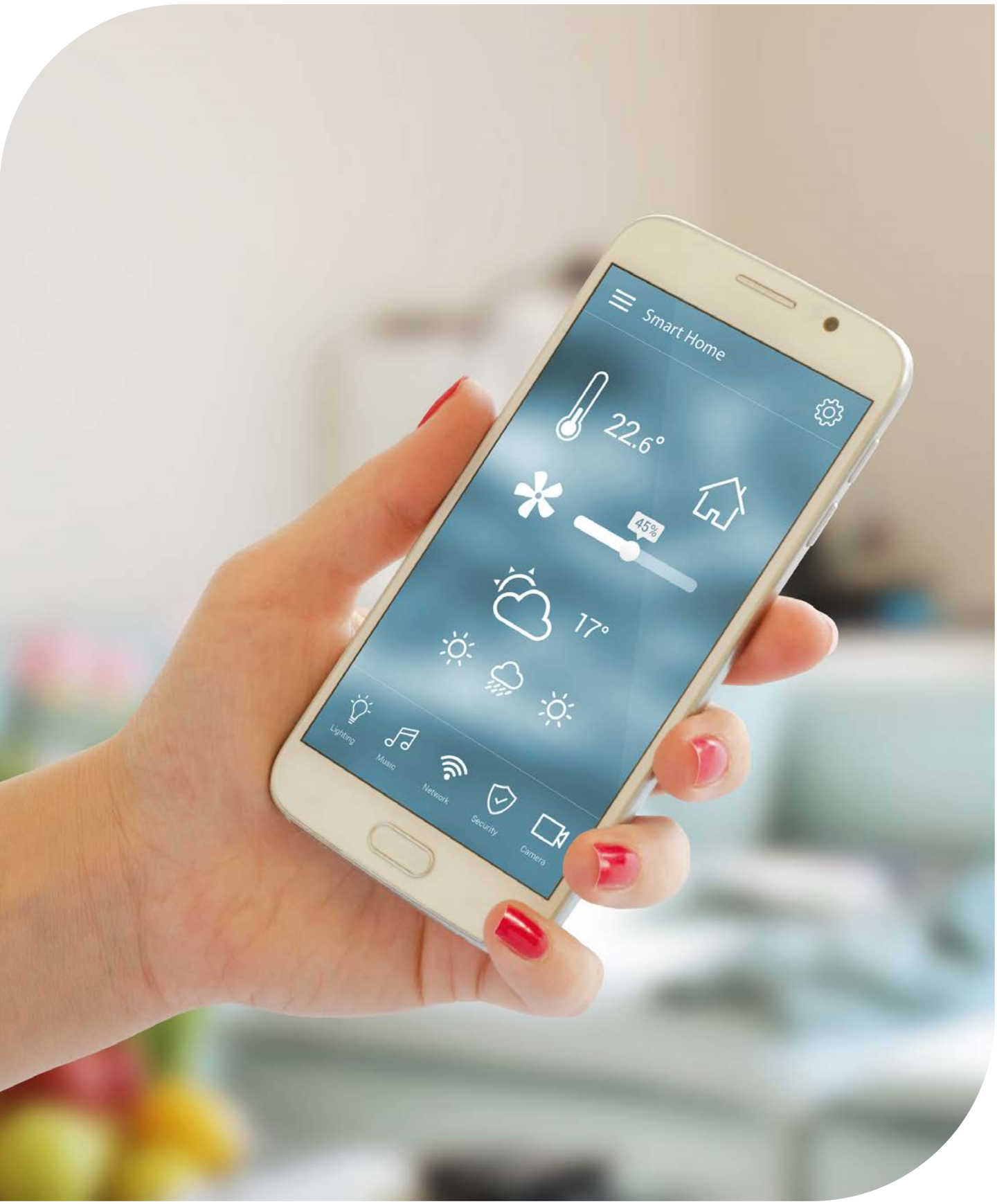
Make the most of integration with any platform.

INTEGRATED HVAC CONTROL FROM ALL INTERFACES

- Control of independent zones:
  - Set-point temperatures.
  - Zone status.
  - Reading of room temperature and humidity on the zone.
  - Management of the air stage and stage by radiant elements.
- Operating mode of the system.
- Adjustment of the fan speed of the indoor unit.
- Control of domestic hot water (DHW).
- Easy detection of HVAC unit and home automation errors with our stand-alone system.

BACnet Control4 CRESTRON eedomus fhe FIBARO FEEDOM LOXONE
KNX LUTRON Modbus RTI WAGO Z-WAVE amazon alexa works with the Google Assistant

* BMS: building management systems.


Smart Home
22.6°
45%
17°
Lighting
Music
Network
Security
Camera

AIRZONE

Designed & Manufactured in EU

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