

Integrated HVAC Control & Zoning Solutions

EASYZONE IAQ
FLEXA 3.0
AIDOO RANGE





Treat indoor air quality with Airzone Solutions

For more than 20 years, Airzone has offered smart control solutions that enable the management and improvement of the **energy performance of HVAC systems with different heating and cooling units**, both for commercial and residential applications. The Airzone model is based on technology research, industrial development and European manufacturing.

All Airzone systems can be integrated and controlled remotely, and they can be interconnected in the same project. It is possible to manage the air conditioning systems (direct expansion, VRF, hydronic, etc.) and to combine underfloor heating or cooling, as well as all single-zone units (ceiling cassette, wall mounted, floor standing, etc.).

In addition to managing the thermal comfort of users, Airzone offers now a new feature to control and improve the indoor air quality, with Easyzone IAQ.



Indoor air quality

What is air quality?

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

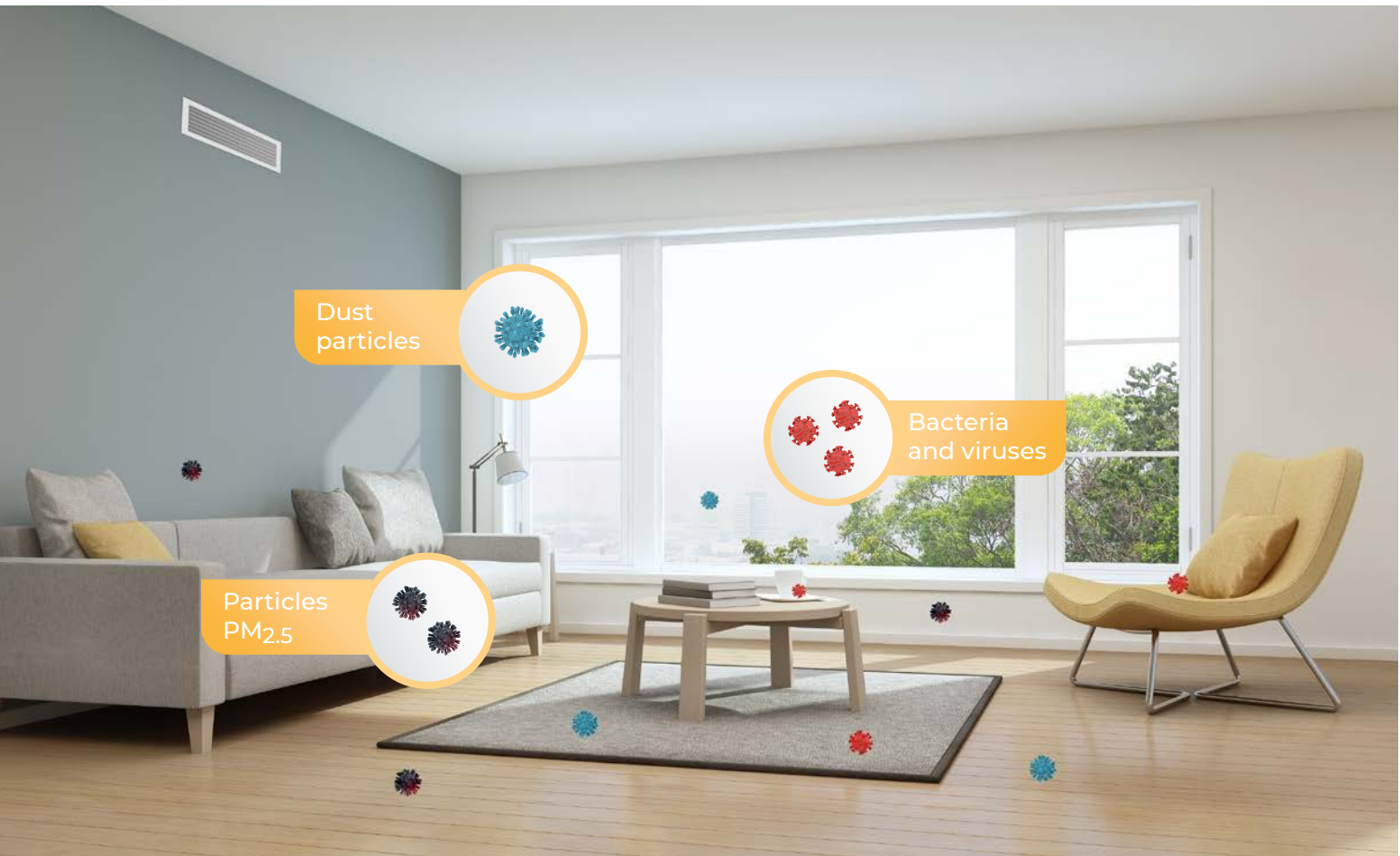
Temperature, humidity, CO₂, and **particles in the air** such as dust, dust mites, VOCs and mixtures such as air fresheners or smoke all **affect indoor air quality**.

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

More than **90%** of our time is spent indoors



BEFORE THE PURIFICATION PROCESS
LOW AIR QUALITY

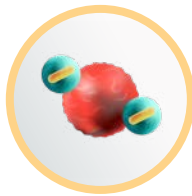




Air Purification

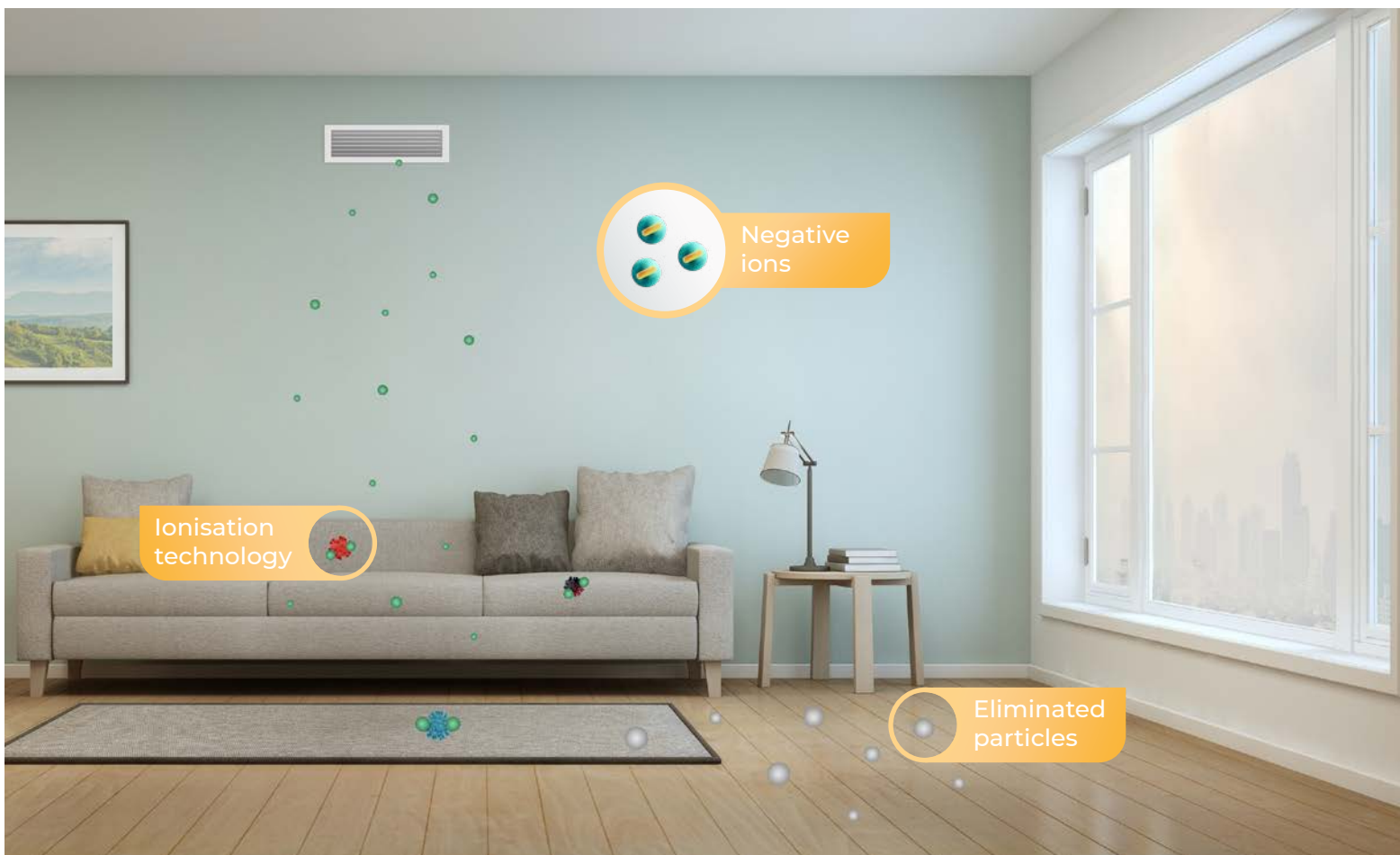
Air purification is a process to remove pollutants and harmful particles suspended in the air to improve indoor air quality.

Ionisation as a purification technique is based on the **diffusion of negatively charged ions** to attract positively charged particles.



As a result of ionisation, the particles clump together, increasing their weight, and fall to the ground.

AFTER THE PURIFICATION PROCESS IMPROVED AIR QUALITY



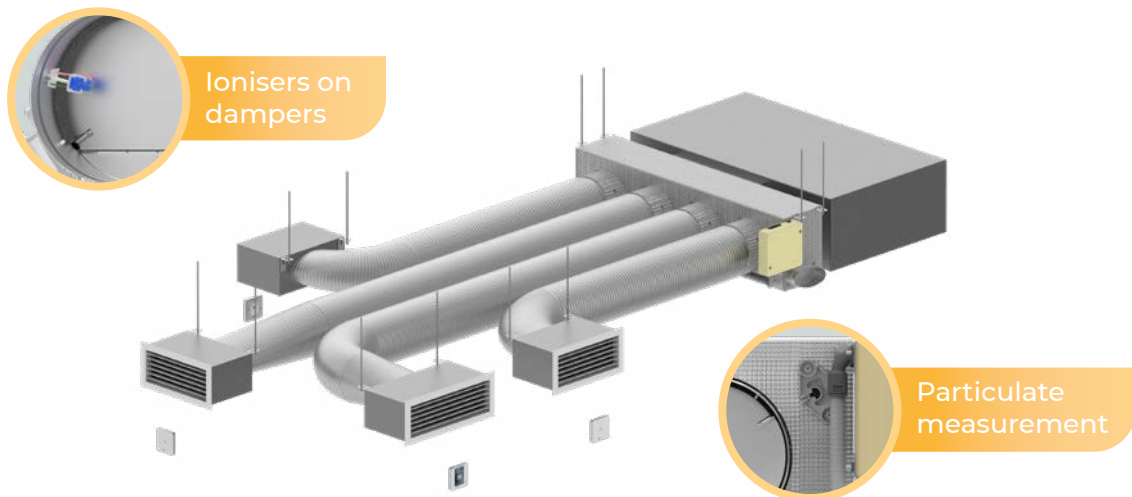
Airzone Technology



We have developed the latest **air purification technology to improve indoor air quality**. We apply ionisation technology to the Easyzone system, a bestseller zoning solution in Europe.

Total HVAC control integrated with home automation systems, together with the improved air quality provided by Airzone, guarantee the healthiest and most sustainable living and working spaces of the future.

Reduction of **50%** of airborne particles and airborne time*



Elimination of odours due to reduction of VOCs.

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



FULL STUDY:
airzone.es/en/pro/documentation

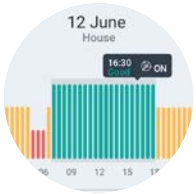
*Data extracted from the Airzone IAQ Technology Performance Report
VOCs: volatile organic compounds. | PM2.5: very small particles with a diameter of less than 2.5 microns.

Air quality app

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



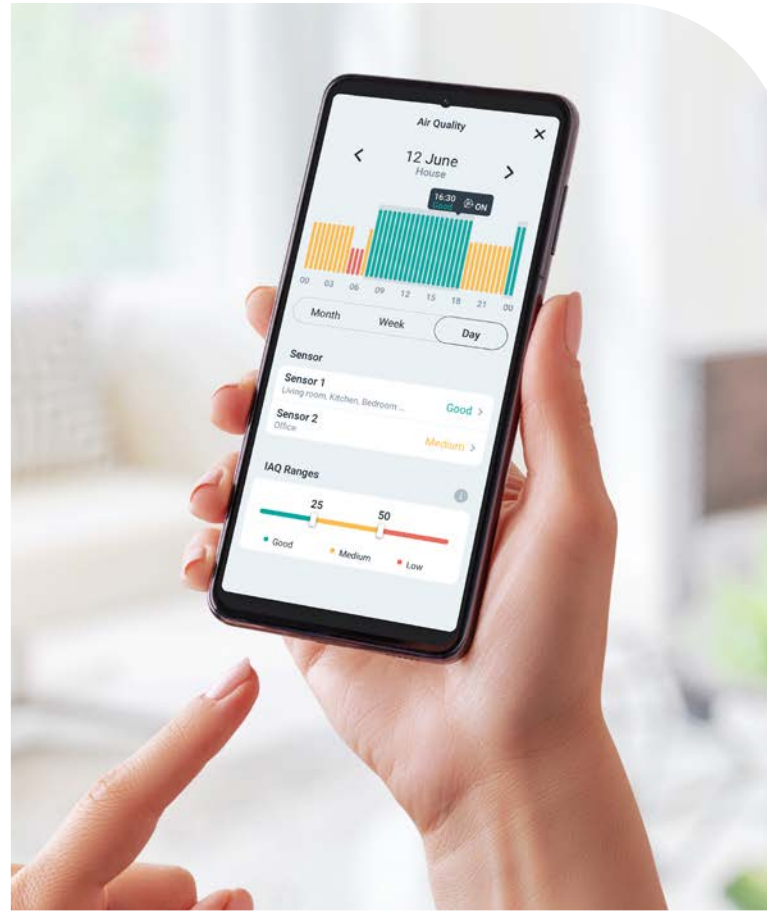
3 different measurement levels of PM2.5 particles



Graphics of air quality.

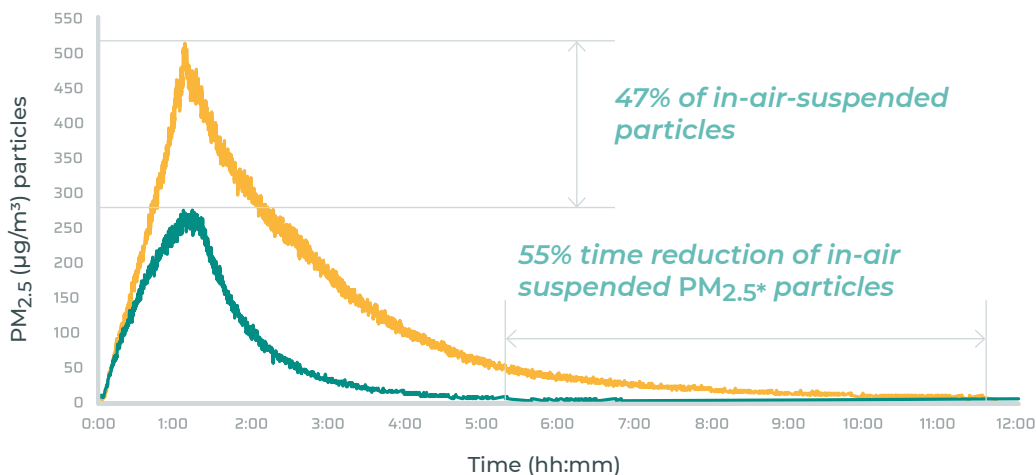


Working modes: ON, OFF and automatic.



Time evolution of PM_{2.5}* concentration

- Airzone technology ON
- Airzone technology OFF



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

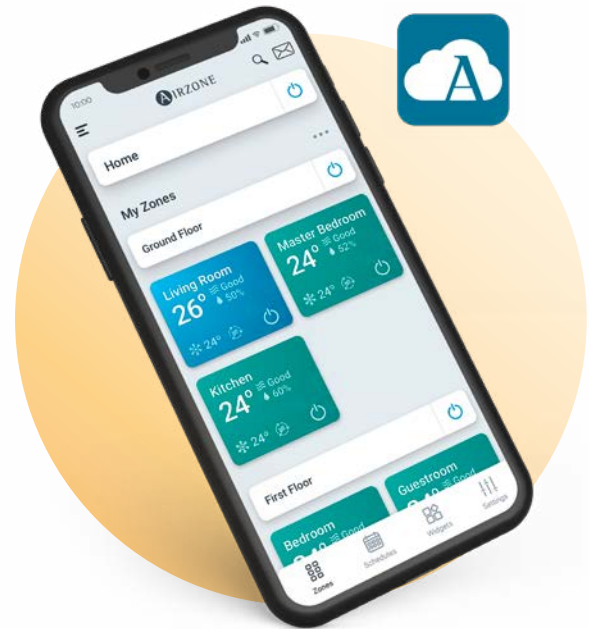
Cloud Technology

The most complete and intuitive interface

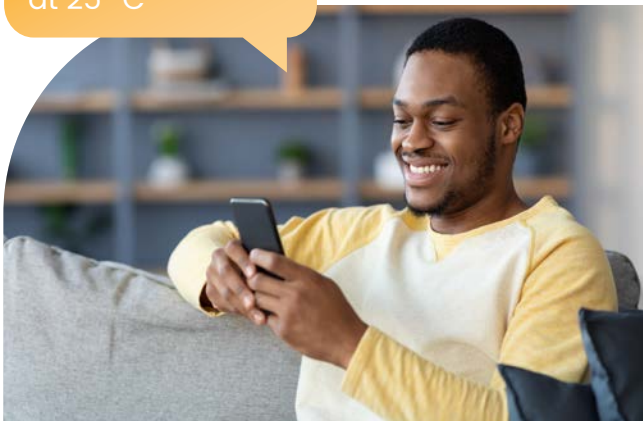
Airzone Cloud

Remote control is a fundamental feature when choosing smart control for the home or workplace. With the Airzone Cloud app, you can manage your HVAC system remotely and program the use of the thermostat to ensure the greatest efficiency.

Turning independent zones on and off, creating time schedules and conveniently checking the weather forecast are just some of the options offered by the application.



Set the living room at 25 °C



Are you ready to enjoy remote HVAC control?



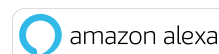
Access the demo at airzonecloud.com

DISCOVER ALL THE POSSIBILITIES OF AIRZONE CLOUD

Fast, modern, and customizable:
The new Airzone Cloud app

- System grouping in the same building.
- Renewed interface.
- Different user types.
- Widgets.
- Fast and secure technology.
- Unified control of Airzone and Aidoo systems.
- Multi-user: advanced, basic or admin profile.
- Brand new design interface.

Airzone solutions are also compatible with voice assistants of Amazon Alexa and Google which give all the user-friendly functionalities of these applications.



To discover more: airzonecontrol.com/blog

Airzone bridges the gap

Between HVAC and IoT

Full HVAC integration

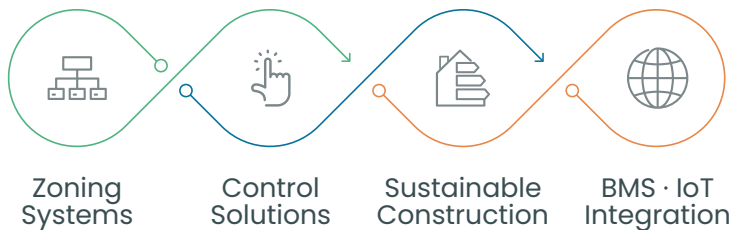
Airzone Control Systems allow the leading **Building Management (BMS)** and Home Automation (HA) Systems to seamlessly **integrate with Inverter/VRF technologies.**

- Plug & Play solutions.
- Control, combine and coordinate floor, AC and heating with one solution.
- Maximum comfort for the end user.
- Enhance energy efficiency and economic savings.
- Certified protocols, two-way communications and self-guided configuration.



AC and Radiant Heating integrated through a single interface

VRF · Multi-split/Split Inverter AC



Airzone bridges the gap

Between HVAC and IoT



BMS/HA Control

Quick and easy installation

- Easily integrate any HVAC system regardless of its complexity with the leading BMS/HA standards in no time.

Simple configuration

- Just download the drivers, select the preferred parameters and you are all set.
- No more complex and time-consuming programming.

API Cloud and API REST

- The most secure, uncomplicated and fastest 3rd party integration.

Troubleshooting and maintenance

- You can easily diagnose the problems in other areas of the BMS system and discard those beyond your liability.

Top Features

- Control independent zones with zoning.
- Setpoint temperature per zone.
- Temperature & Relative Humidity Sensor per zone.
- Air and radiant stage control.
- Set the Operation Mode of the entire application.
- Integrate 3rd party smart thermostats.

HVAC MANUFACTURERS



Airzone Interfaces

The perfect balance

The best fit for any decor

With its color graphic touchscreen interface, Airzone Blueface is **the most complete thermostat.**

Available in:

Wired



1.
**Airzone
Blueface**

2.

**Airzone
Think**



Available in:

Wireless

Low consumption
wireless technology.

Available in:

Wireless | Wired

Simplest control for
the most common needs.



3.
**Airzone
Lite**

Easyzone IAQ

Discover the **all-in-one solution** for zoning and air quality control

Easyzone is the **Plug&Play solution** for zoning an indoor unit with flexible ducts. Control from **2 to 8 zones independently** and anytime & anywhere via the **Airzone Cloud app**.



Inverter



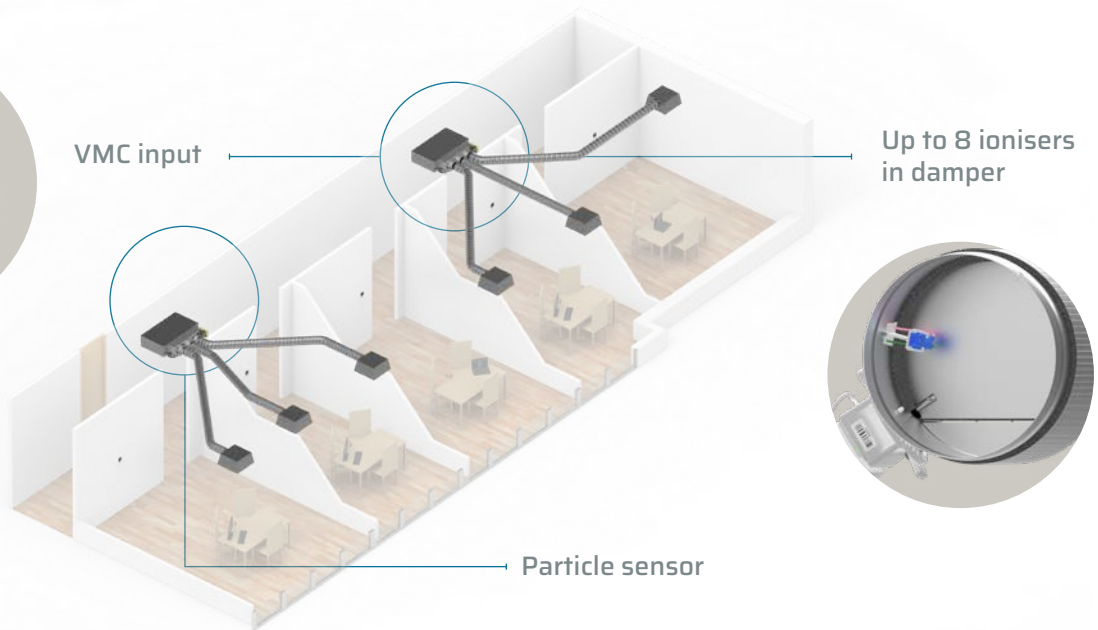
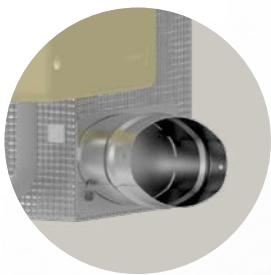
VRF



Chiller



Indoor air quality control



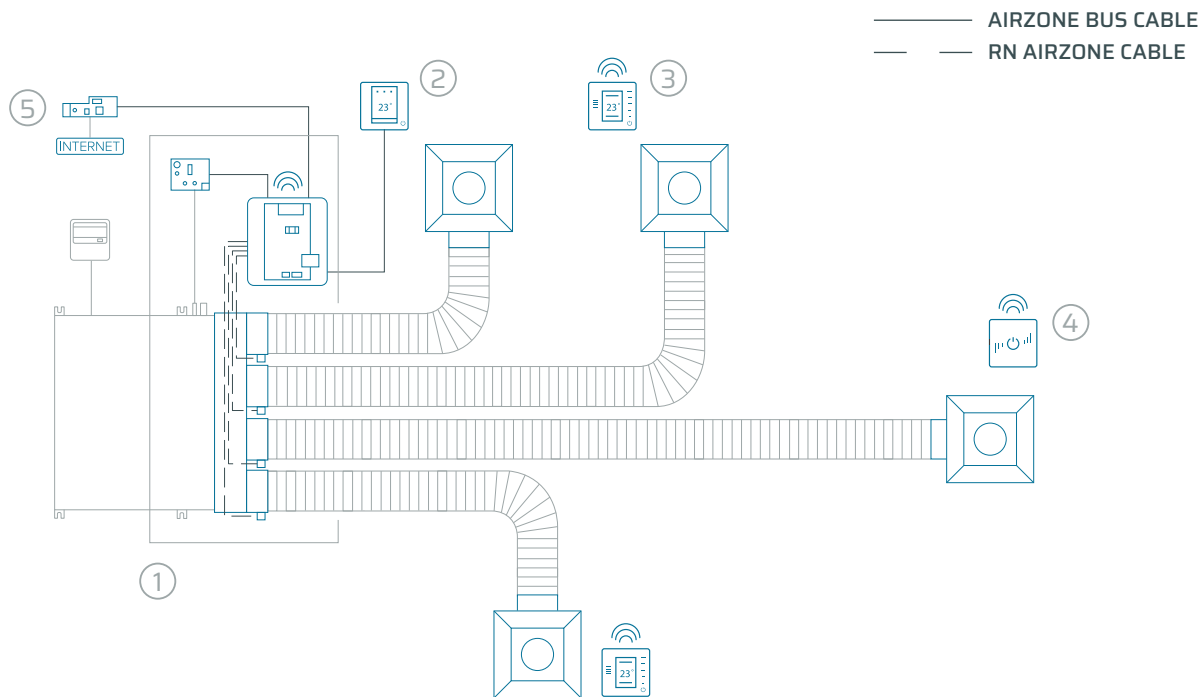
Easyzone now also purifies air by zones

Easyzone **purifies and improves indoor air quality in each zone**. Each motorised damper includes an ioniser that purifies the air, based on the detection of the air quality level.

- Dynamic control of **setpoint temperatures** for energy efficiency.


- Limitation of minimum and maximum temperatures for efficient control with the **Eco-Adapt function**.
- Custom-made plenum box for each indoor unit, **Plug&Play**.
- **Different sizes and heights** to suit the indoor unit.
- Dynamic control of setpoint temperatures.

VMC: controlled mechanical ventilation.



Reference	Description	Units
1	AZEZ8MHI [ST/SL/BS] 4x [200/150]	1
	Easyzone IAQ [Standard + CMV / Slim + CMV / Medium] IB8 Mitsubishi Heavy 4x [200/150] 01M	
	Airzone Gateway Controller 3.0 - [brand]	
	Airzone Flexa 3.0 system Control Unit - Innobus Pro8 - 8 zones	
2	AZCE6BLUEZEROC [B/N]	1
3	AZCE6THINKR [B/N]	2
4	AZCE6LITE [C/R] [B/N]	1
5	AZX6WSC5GER	1


Temperature control



Time schedules


Air Quality


Remote control


Weather forecast


Residential & Commercial

New!  **Dampers with ionisers**

Each motorised damper has an integrated **flow control mechanism**, to which **an ioniser** is added.

Air renewal (CMV)

Easyzone allows the air in the application to be renewed independently and autonomously, using the same ventilation duct.

An integrated solution

Compatibility with **leading BMS/HA and IoT technologies**.

- Airzone Cloud application.
- Amazon Alexa and Google Assistant voice assistants.
- Modbus protocol.
- BACnet, Lutron and KNX integration gateways.
- Drivers and plugins: Control4, Crestron, Eedomus, Fibaro, Jeedom and RTI.
- Cloud API and REST API.

Easyzone heating

Combined control and zoning of radiant heating systems

Easyzone is a scalable system. Add **control of the radiant elements, the production unit, and the recirculation pumps** to your zoned system. Centralised control for the entire application.



Inverter



VRF



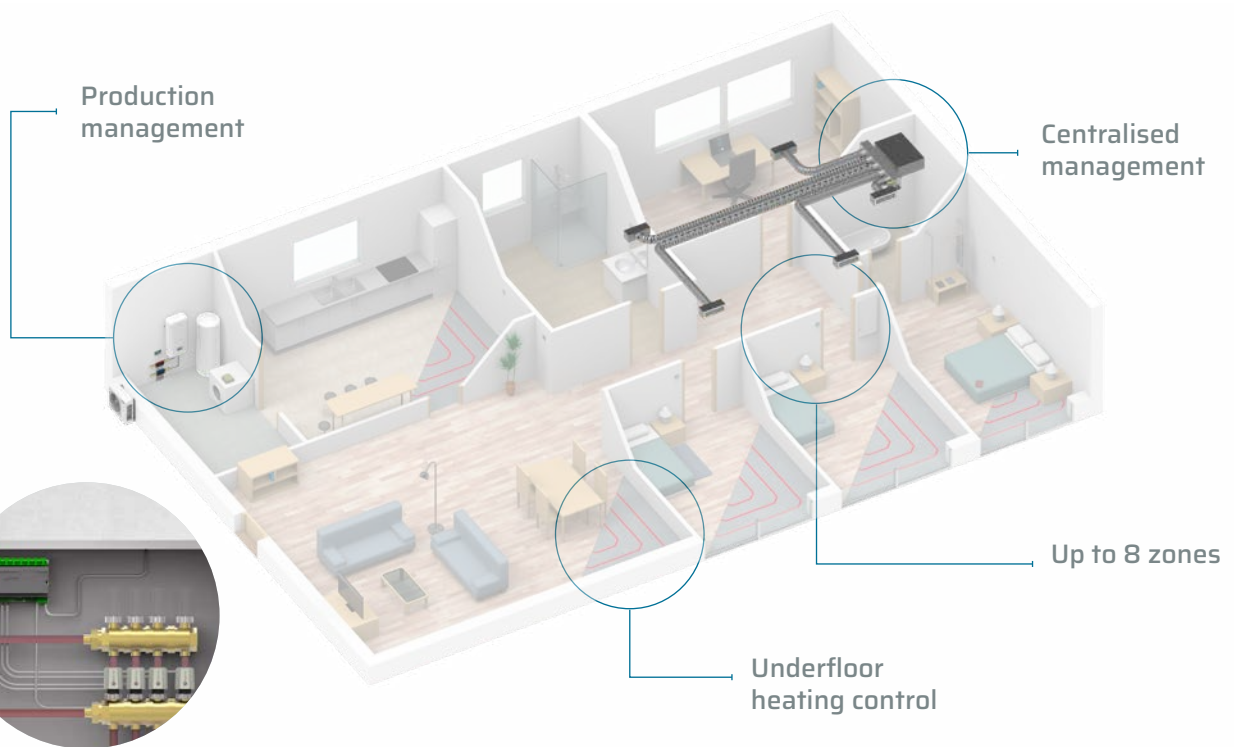
Boiler



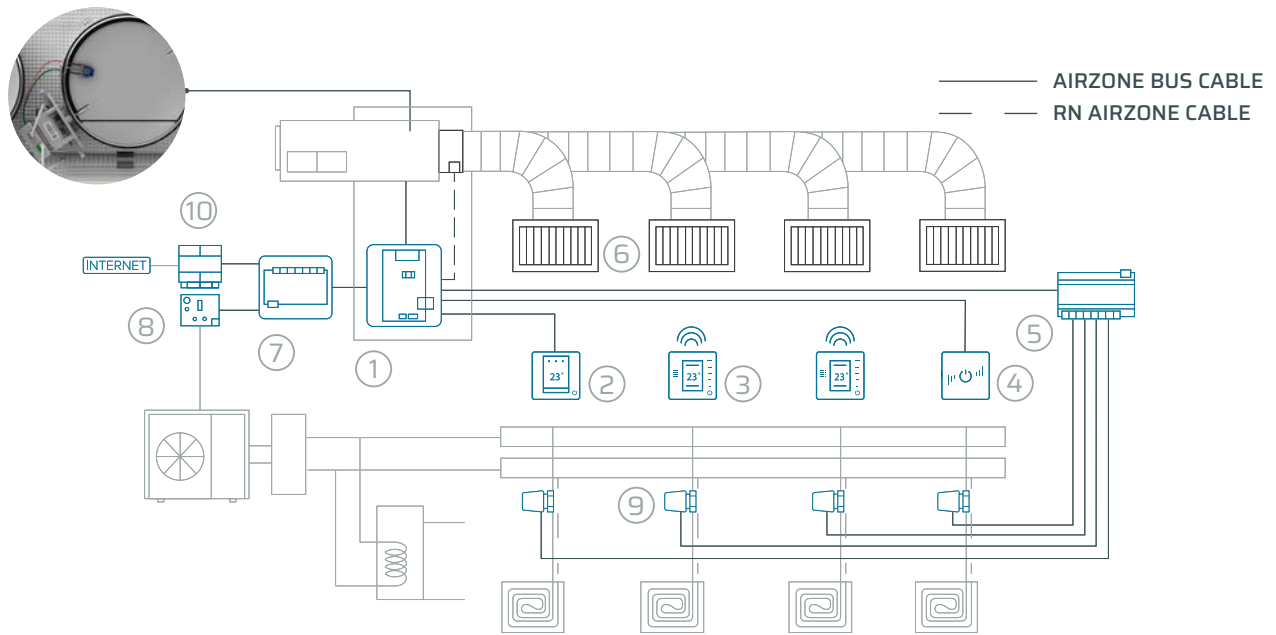
Air-to-Water



Indoor air quality control



- **Comfort optimisation** with intelligent control of the thermal inertia of the floor.
- **Anti-freeze safety function** to prevent pipes from freezing.
- Indoor air quality control and **purification system by ionisation.**
- Comfort temperature control in each zone.



Reference	Description	Units
1	AZEZ8MHI [ST/SL/BS] 4x [200/150] Easyzone IAQ [Standard + CMV / Slim + CMV / Medium] IB8 Mitsubishi Heavy 4x [200/150] 01M Airzone Gateway Controller 3.0 - Mitsubishi Heavy Airzone Flexa 3.0 system Control Unit - Innobus Pro8 - 8 zones	1
2	AZCE6BLUEZEROC [B/N] Damper-mounted ioniser with integrated sensor	1
3	AZCE6THINKR [B/N] Airzone Flexa 3.0 Blueface Zero Thermostat wired white/black 8Z	2
4	AZCE6LITE [C/R] [B/N] Airzone Flexa 3.0 Think wireless thermostat [black/white]	1
5	AZCE6OUTPUT8 Airzone Flexa 3.0 Lite thermostat [wired/wireless] [black/white]	1
6	RDHV[LENGTH][HEIGHT] BKX Airzone control module of radiant elements 8Z	4
7	AZX6CCPGAWI White horizontal/vertical double deflection intake grille (RDHV)	1
8	AZX6GAWOTH Airzone hydronic production Control Unit	1
9	AZX6ACTIVALC + New! Airzone-OpenTherm air to water HP gateway	4
10	AZX6WSPHUB Airzone 110/230V VALC wired thermostat head for radiant elements	1
	Webserver HUB Airzone Cloud Dual	1



Temperature control



Time schedules



Combined control



Remote control*



Weather forecast



Air Quality

Combined control

With the radiant element control module, you can **combine the water, air, and radiant stages**. The combined mode allows to achieve thermal comfort conditions in the shortest time possible.

Optimised production

Through the production control centre, Easyzone automatically manages the **production of the aerothermal system and the recirculation pumps** for the zones with demand, avoiding over-consumption.

An integrated solution

Compatibility with the **main BMS/HA and IoT technologies**.

- Airzone Cloud application.
- Amazon Alexa and Google Assistant voice assistants.
- Modbus protocol.
- BACnet, Lutron and KNX integration gateways.
- Drivers and plugins: Control4, Crestron, Eedomus, Fibaro, Jeedom and RTI.
- Cloud API and REST API.

*Applicable when the system has an Airzone Cloud Webserver.

Flexa 3.0

Zoning for ducted systems

The Flexa 3.0 system adapts to rigid and **flexible duct applications for independent control** of each zone.



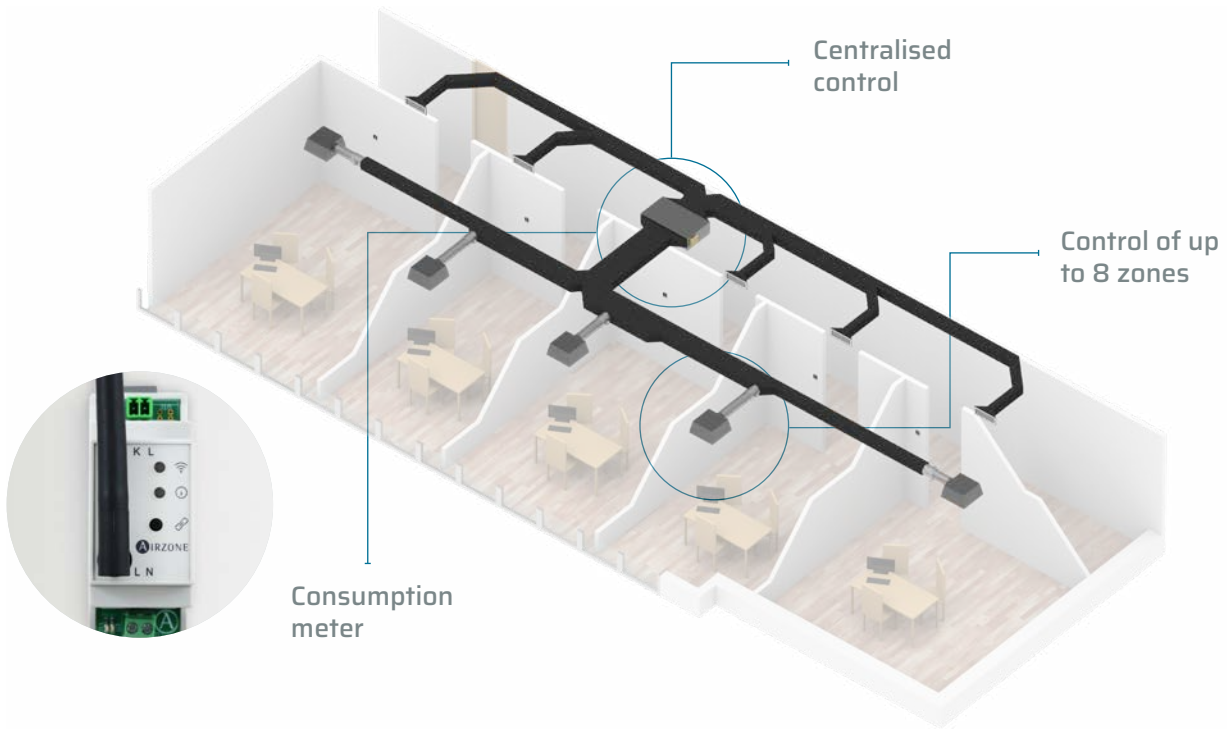
Inverter



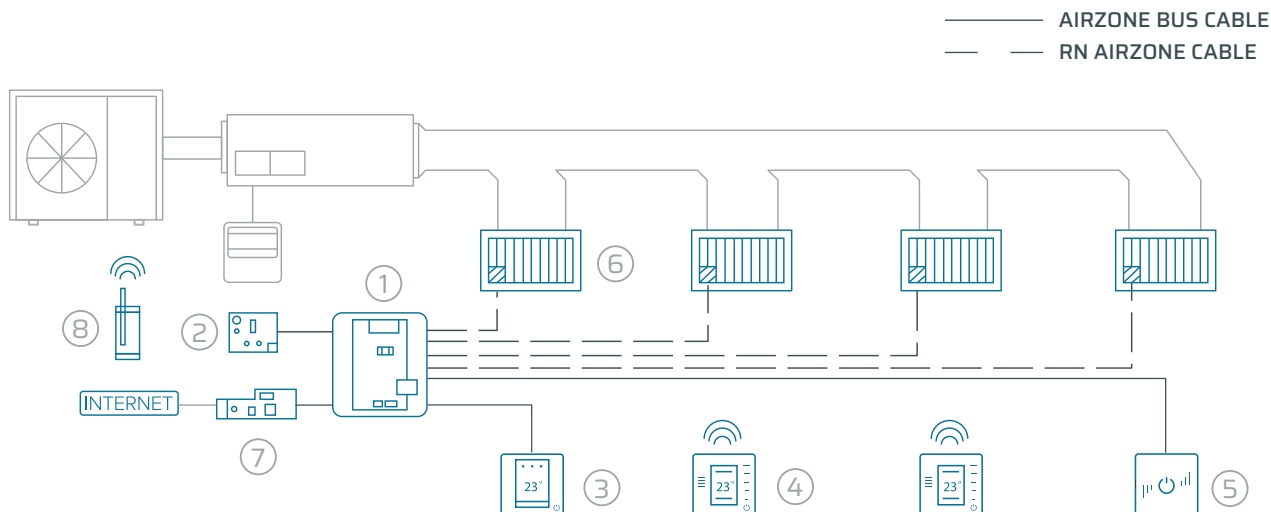
VRF



Boiler



- Individual management of comfort **temperatures per zone.**
- Limitation of minimum and maximum temperatures for efficient control with **Eco-Adapt function.**
- **Q-Adapt** configuration for fan control with 5 pre-sets.
- **Dynamic control of setpoint temperatures according to demand.**
- Controlled mechanical ventilation management (**CMV**).
- **Management of production** and recirculation pumps.
- Programmable and **configurable output** for mechanical ventilation or boiler control.



Reference	Description	Units
1 AZCE6FLEXA3	Airzone Flexa 3.0 main control board 6Z	1
2 AZX6GTCMHI	Airzone Gateway Controller 3.0 - Mitsubishi Heavy	1
3 AZCE6BLUEZEROC [B/N]	Airzone Flexa 3.0 Blueface Zero Thermostat wired white/black 8Z	1
4 AZCE6THINKR [B/N]	Airzone Flexa 3.0 Think wireless thermostat [black/white]	2
5 AZCE6LITE [C/R] [B/N]	Airzone Flexa 3.0 Lite thermostat [wired/wireless] [black/white]	1
6 CPCS [DIAMETER] MTE	Round duct damper with manual regulation	4
7 AZX6WSC5GER	Webserver Airzone Cloud Wi-Fi Dual 2.4-5GHz	1
8 AZX6ACCCON	Airzone consumption meter	1



Temperature control



Time schedules



Eco-Adapt function



Remote control



Weather forecast



Residential & Commercial

New! + Improved radio antenna

The new radio antenna **increases coverage** even through thick walls or remote areas and reduces interference. In addition, it allows to easily adapt other antennas to the SMA female connector.

Coming soon

Consumption information

Thanks to the electric meter, you can view the energy consumption of your single-phase air-conditioning unit on the thermostat of the solution itself or via the Airzone Cloud app.

An integrated solution

Compatibility with **leading BMS/HA and IoT technologies.**

- Airzone Cloud application.
- Amazon Alexa and Google Assistant voice assistants.
- Modbus protocol.
- BACnet, Lutron and KNX integration gateways.
- Drivers and plugins: Control4, Crestron, Eedomus, Fibaro, Jeedom and RTI.
- Cloud API and REST API.

Flexa 3.0 heating

Combined control, duct zoning and radiant systems

It allows you to enjoy centralised control for the entire application by adding to your zoned system the **control of radiant elements, production unit and recirculation pumps.**



Inverter



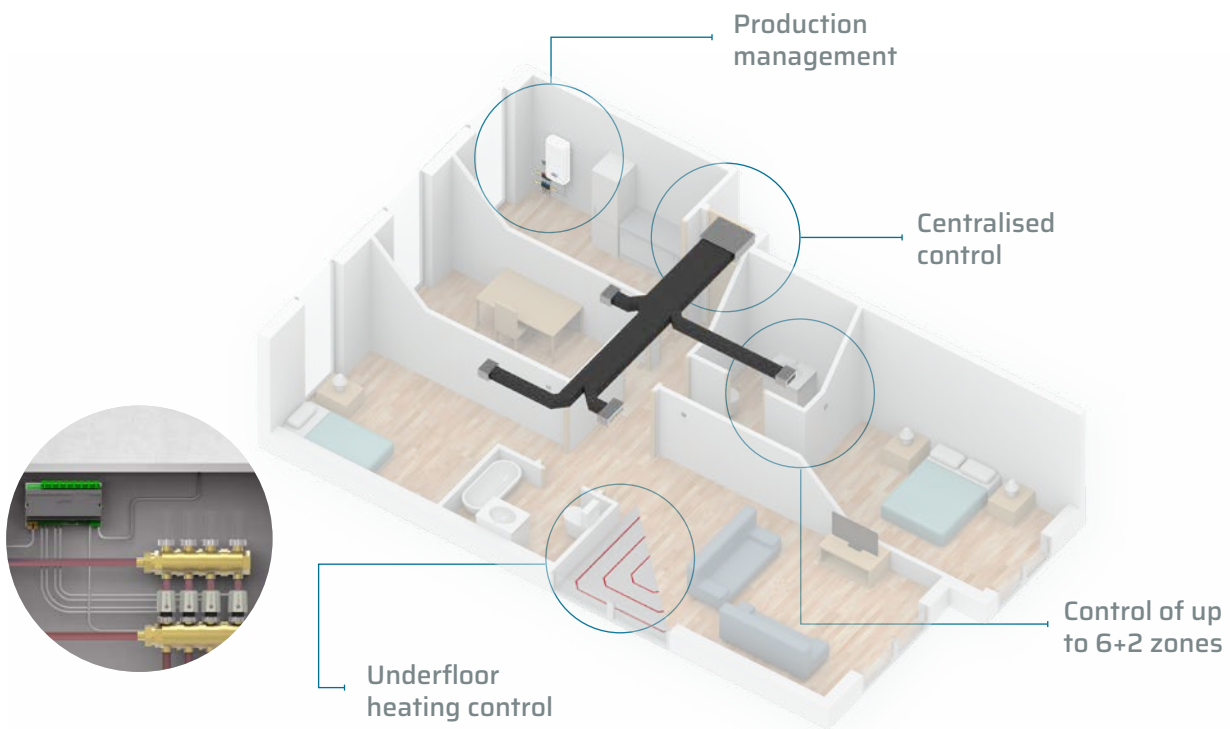
VRF



Boiler



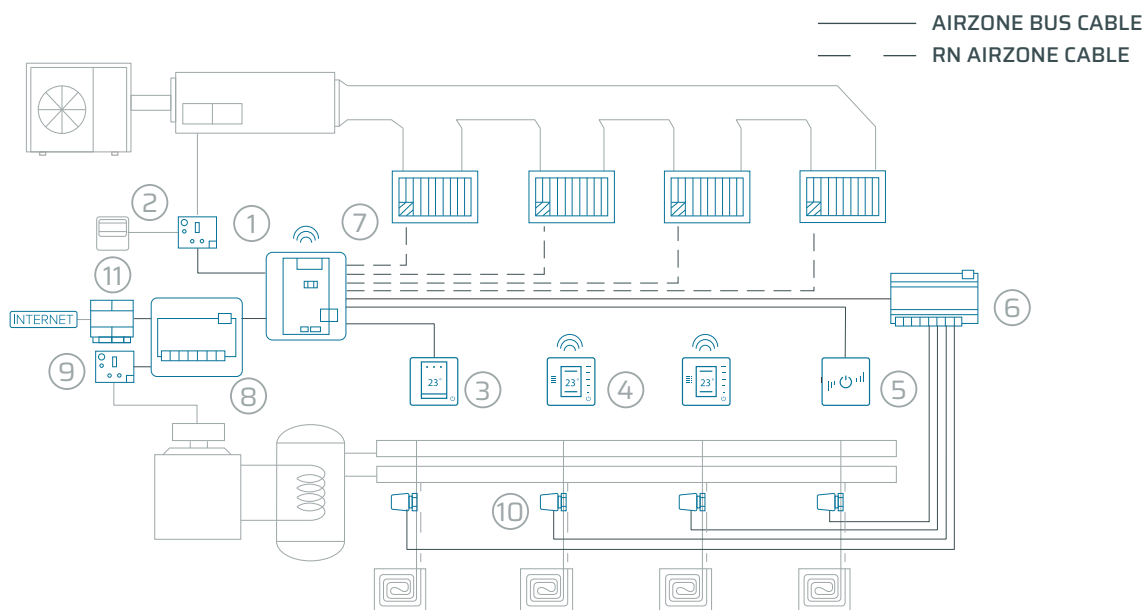
Air-to-Water



A single thermostat for air and underfloor heating

With a single thermostat per zone, you can easily control air and underfloor heating. **The combined mode makes intelligent use of the heating stages** to achieve thermal comfort conditions in the shortest time possible.

- Production **management and recirculation pumps.**
- Comfort optimisation with intelligent control of the **thermal inertia of the floor.**
- **Anti-freeze safety function** that prevents pipes from freezing.
- **Comfort temperature control** in each zone.



Reference	Description	Units	
1	AZCE6FLEXA3	Airzone Flexa 3.0 main control board 6Z	1
2	AZX6GTCMHI	Airzone Gateway Controller 3.0 - Mitsubishi Heavy	1
3	AZCE6BLUEZEROC [B/N]	Airzone Flexa 3.0 Blueface Zero Thermostat wired white/black 8Z	1
4	AZCE6THINKR [B/N]	Airzone Flexa 3.0 Think wireless thermostat [black/white]	2
5	AZCE6LITE [C/R] [B/N]	Airzone Flexa 3.0 Lite thermostat [wired/wireless] [black/white]	1
6	AZCE6OUTPUT8	Airzone control module of radiant elements 8Z	1
7	CPC [DIAMETER] MTE	Round duct damper with manual regulation	4
8	AZX6CCPGAWI	Airzone hydronic production Control Unit	1
9	AZX6GAWOTH	Airzone-OpenTherm air to water HP gateway	1
10	AZX6ACTIVALC + New!	Airzone 110/230V VALC wired thermostat head for radiant elements	4
11	AZX6WSPHUB	Webserver HUB Airzone Cloud Dual	1



Temperature control



Time schedules



Combined control



Remote control



Weather forecast



Residential & Commercial

Optimal comfort

By combining the water, air, and radiant stages thanks to the radiant element control module, you can achieve optimal temperature comfort in the shortest amount of time possible.

Efficiency in heating

Flexa 3.0 manages the zones in demand in an **automated way through the production control centre**. As a result, the production of the aérothermal system and the recirculation pumps work avoiding overconsumption.

An integrated solution

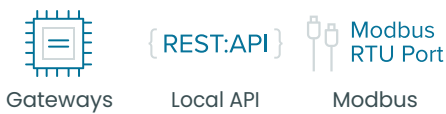
Compatibility with **leading BMS/HA and IoT technologies**.

- Airzone Cloud application.
- Amazon Alexa and Google Assistant voice assistants.
- Modbus protocol.
- BACnet, Lutron and KNX integration gateways.
- Drivers and plugins: Control4, Crestron, Eedomus, Fibaro, Jeedom and RTI.
- API Cloud and API REST.

Integration

Connect your HVAC units to the leading building management systems with our solutions

Airzone allows you to integrate the entire HVAC application with the main home automation and BMS systems also by giving access to the latest IoT trends such as voice control.

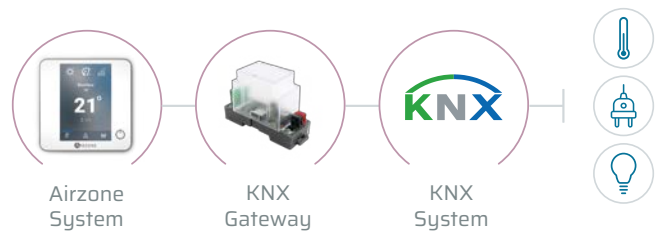


Gateway

Integration gateways for any technology.

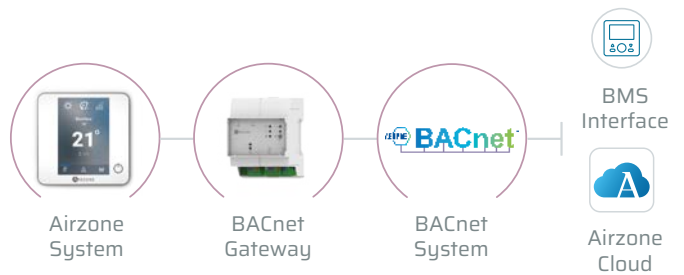
KNX Gateway

- One KNX gateway per Airzone system.
- Control of up to 14 zones.
- KNX standard data.
- Configurable from ETS.
- Compatible with KNX thermostats.



BACnet/IP Gateway

- Plug&Play.
- One BACnet gateway per Airzone system.
- Control of up to 32 zones.
- Accessible from Airzone Cloud.
- Ethernet/Wi-Fi connection.



Lutron Gateway

- Plug&Play.
- One Lutron gateway per Airzone system.
- Control of up to 32 zones.
- Accessible from Airzone Cloud.
- Ethernet/Wi-Fi connection.

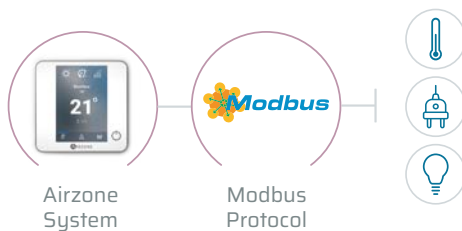
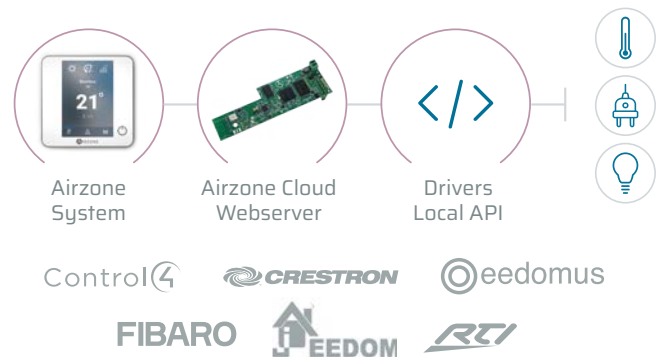


Local API

Direct IP communication with the local web server, Airzone Webserver Cloud Ethernet.

- Plug&Play.
- Control of up to 32 Airzone systems and 32 zones per system.
- Accessible from Airzone Cloud.
- Ethernet connection.

The Local API is open for integration of HVAC control with other home automation systems.



Modbus

Direct **control from the home automation port** included in the control unit.

- Control of up to 99 Airzone systems.
- Control of up to 32 zones per system.

New! **Airzone Cloud HUB Webserver**

The new Airzone Cloud HUB Webserver module **provides cloud connectivity to Airzone systems**. Always stay in control of your air conditioning by turning your devices into control interfaces. Anytime, anywhere.

- Control up to 32 Airzone systems.
- Ethernet port.
- RS845 port for BACnet, MS/TP, Modbus.
- Wi-Fi 2.4 GHz/5 GHz connectivity.
- Bluetooth Low Energy (BLE) connectivity for configuration.



Aidoo devices

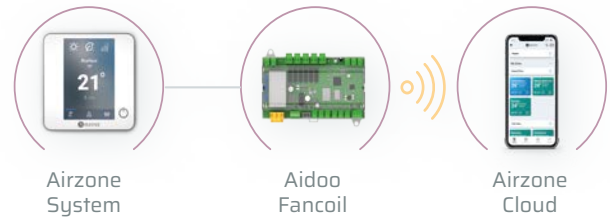
The **connectivity and integration** you were looking for



New! Aidoo Pro Fancoil

Allows **fan and valve control** for both 0-10 V type units and units with up to 3 speeds.

- Control of electro valves by all/nothing or 0-10 V demand.
- 3-speed or 0-10 V fan control.
- Open window detection, presence detection and Eco mode.
- Measurement of zone temperature and heating/cooling temperature.



Aidoo Z-Wave

Gateway for the **control and integration** of Inverter machines in Z-Wave systems.

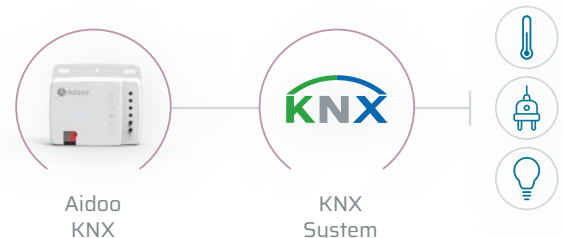
- Z-Wave network communications.
- Error detection during communication.
- Control of the different parameters of the equipment.
- External power supply through the indoor unit/external power supply.
- Port for integration via Modbus protocol.



Aidoo KNX

Allows the **management and integration of individual units** in KNX TP1 control systems. Easy configuration from ETS, Aidoo KNX allows the control of Inverter/VRF units.

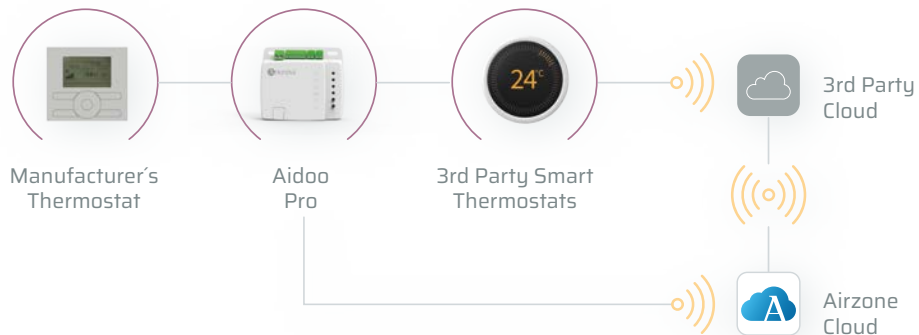
- Control of any unit connected in a KNX system.
- Control of the different parameters of the unit.
- KNX control and KNX standard data.
- 3 configurable digital inputs.
- Communication error detection.
- Detection of communication errors.



New! **Aidoo Pro Controller**

Full integration solution to control individual Inverter/VRF units remotely. Compatible with both ducted & ductless HVAC..

- Integration with any HA/BMS system via local/Cloud API, Modbus protocol (MODBUS RTU) or BACnet MSTP.
- Compatible with 3rd party smart thermostats without losing inverter features
- Integrable in 3rd party Cloud Ecosystems
- On/Off dedicated output and input.
- Airtools and Airzone Aidoo App for HVAC.
- Keeps Inverter features of the HVAC unit intact.



Aidoo Wi-Fi

Compatible with both **ducted and ductless** HVAC units, Aidoo Wi-Fi interface for Inverter/VRF ducted and ductless units.

- Airzone Aidoo App for Android and iOS.
- Allows the Cloud and Voice control of the HVAC system.
- Full two-way communications with the HVAC unit.
- Reading of HVAC unit warnings and errors.
- Voice control (Alexa, Google Home and Apple Home Kit).
- Time scheduling of user modes, temperature & operation mode.
- Allows integration through Modbus.



Designed &
Manufactured in EU

Parque Tecnológico de Andalucía
Marie Curie, 21 · 29590 Malaga, Spain

airzonecontrol.com

marketing@airzonecontrol.com



BEIJER REF