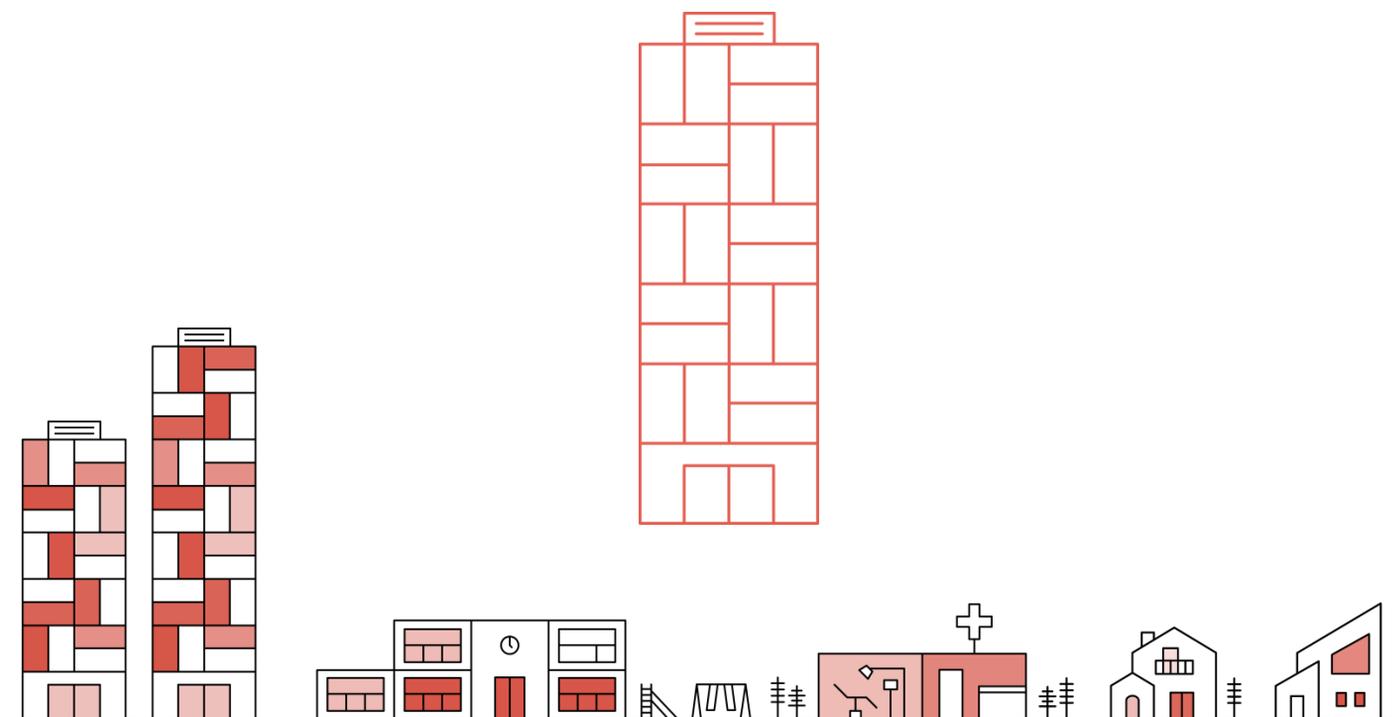


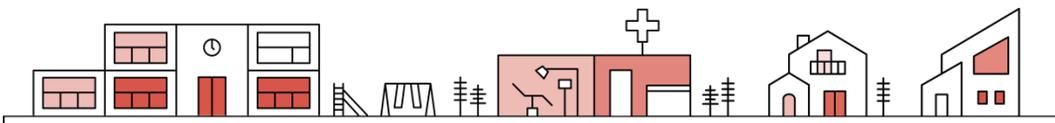


# ZONING

**In your office**

Full installation  
Air conditioning VRF+ BMS

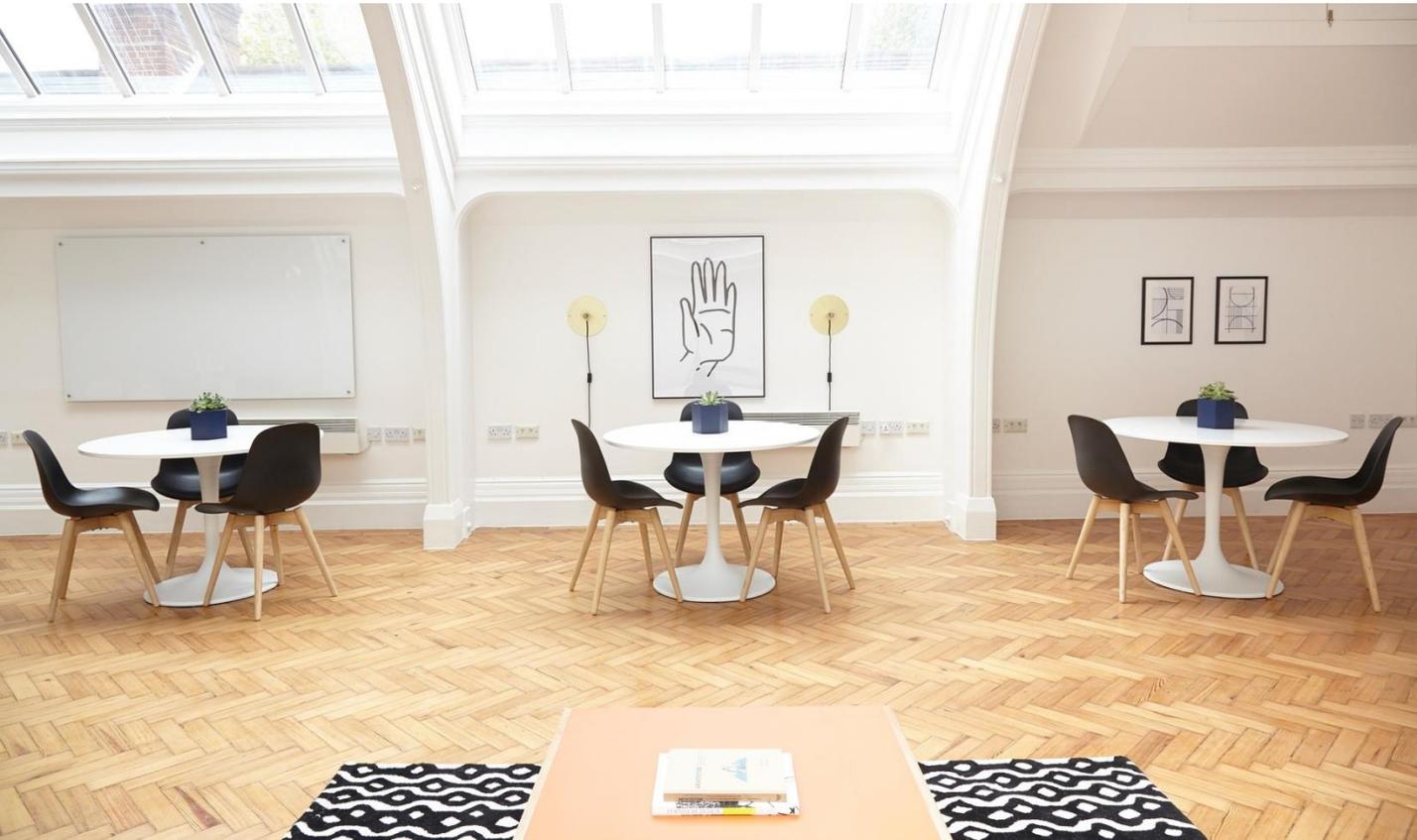




# ZONING

**Zoning is the ultimate solution to problems with temperature discomfort** caused by air conditioning systems with a single centralized thermostat.

Conventional centralised systems do not provide real comfort, because the ideal temperature in one room will not be the same as in others, due to geographic orientation (whether it is reached by the sun or not), the way in which the room is used and, of course, whether there is anyone in there or not.

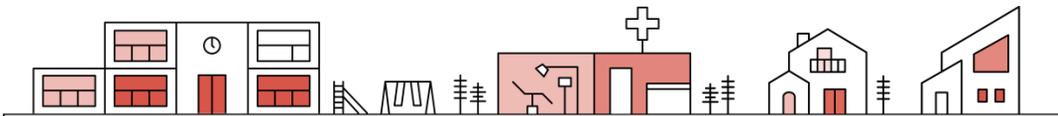


The integration of **VRF** protocols in a new **ZITY** control unit means that the **VRF** equipment functionalities can be combined with all the advantages of a **ZONING** system.

The **RS485** remote port permits communication with the **BMS** system using the **Modbus RTU** communication standard. This universal language, along with the flexibility of the **ZITY** system permits fast integration with building management systems.

The **thermostats** measure the temperature in each room, the central control unit processes the information received and then acts on the control dampers in the zone and the cold and heat production machines, thus creating the temperature required by the user at any time, with minimal consumption.

The **communication buses** with the production machines and the **pressure regulating systems** in the air ducts are essential for the optimisation of the installation.



# ZONING

## ±°C

Control the temperature in each room independently

Separately turn off and turn on in each zone



## ECO

Activate the ECONomic mode in temporarily unoccupied zones.

Program the start up and turn off times in each zone each week.



## VRF

Maintain all functionalities and the safety and reliability of the VRF system.



Block the thermostats to avoid unwanted manipulation.



Limit the minimum and maximum temperature in each zone..

**What can I do with my ZONING System?**

## MASTER

Control the air conditioning equipment from the MASTER thermostat using the communication interfaces

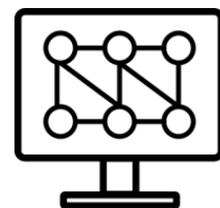


Set the parameters of the system to select the temperature adjustments in each zone and adapt them to your needs.

## Fle*✗*iFan

Thanks to the fan speed control system, you can adapt the volume of air flow of the machine based on zones where there is more or less demand and the nature of your particular installation

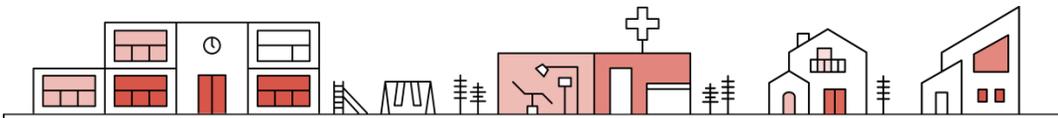
Integrate your ZONING equipment with other **DOMOTIC** devices



Using the Modbus RTU Universal language, with the greatest possible flexibility

Using Madel's **CLOUD** interface. You will be able to remotely control your system and add other functionalities..





## What do you need for your zoning system?

**01** A **CENTRAL CONTROL STATION** and a machine control interface adapted to the air conditioning equipment.



ZITY  
Central control Unit

ZITY  
Slave Module

INTERFACE Machine



ZOE-RC  
Radio Thermostat



ZEBRA  
Cable Thermostat

**02** See how many independent zones you want to control and select one **THERMOSTAT** for each of them.

**03** Select the number and type of **MOTORISED DAMPERS IN EACH ZONE** that requires dampers.



ZP-AZ:  
Damper for grilles



ZC:  
Damper for round duct



ZQ:  
Damper for rectangular duct

**04** Evaluate whether you need a **PRESSURE CONTROL**, if the minimum flow from the machine exceeds the flow of the smallest room.



ZS / ZG / ZK  
Mechanical pressure controls

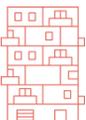


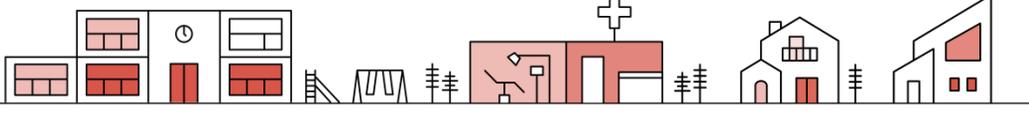
KBY  
Electronic pressure controls

**05** Finally, select whether you wish to control the equipment through the remote control **INTERFACES**.

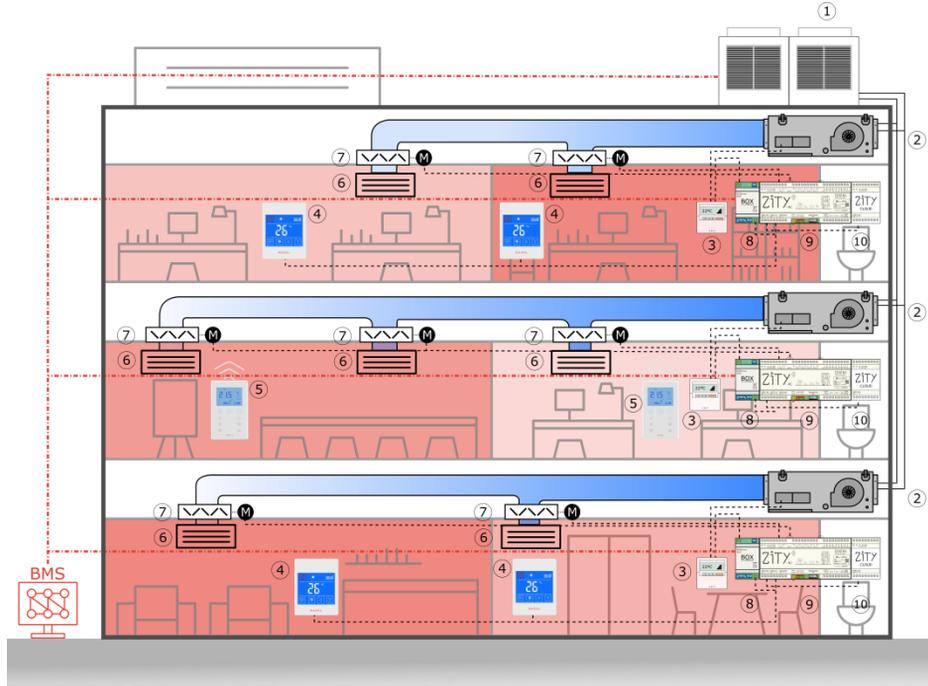


**06** Now you have everything you need to enjoy a Zoning System





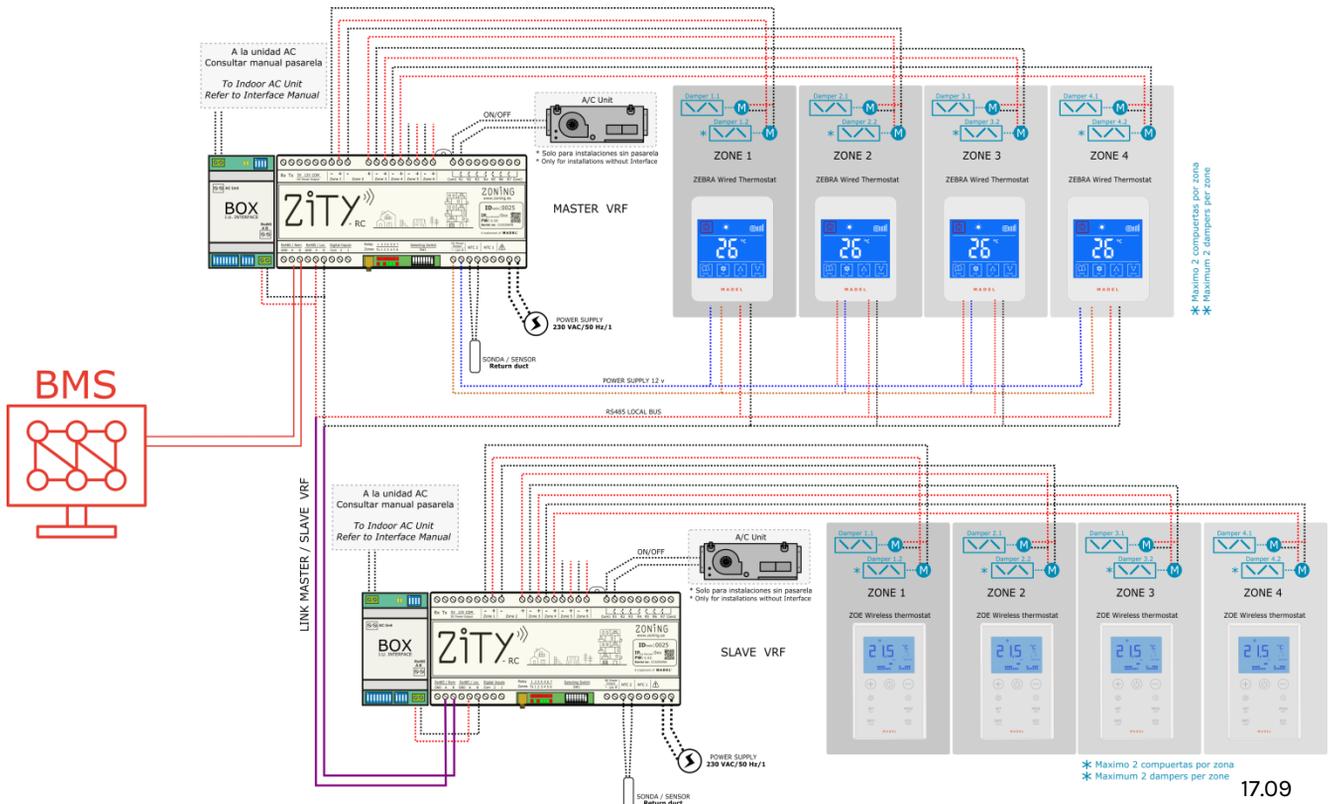
## Oficinas S2: Climatización por expansión directa VRF e integración en BMS

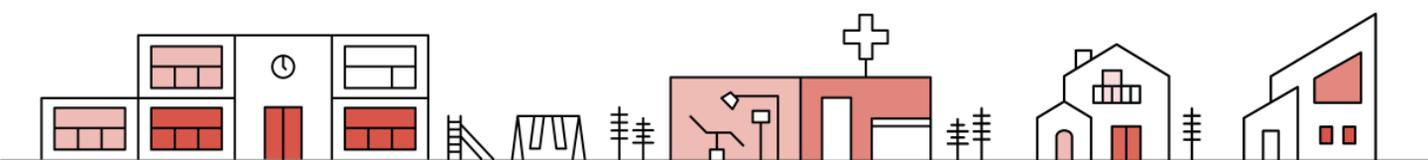


- |                                 |                                       |
|---------------------------------|---------------------------------------|
| 1 Exterior A/C Unit             | 6 Supply grille                       |
| 2 Exterior A/C Unit             | 7 Motorised Zone Damper               |
| 3 A/C Unit Control              | 8 A/C Machine Communication Interface |
| 4 ZEBRA Cabling Zone Thermostat | 9 ZITY Central Control Unit           |
| 5 ZOE Wireless Zone Thermostat  | 10 WIFI Communication Interface       |

### WIRING DIAGRAM

For VRF+BMS Master / Slave installation .Cable or Radio thermostat





# ZONiNG

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ZONiNG is a brand of MADEL