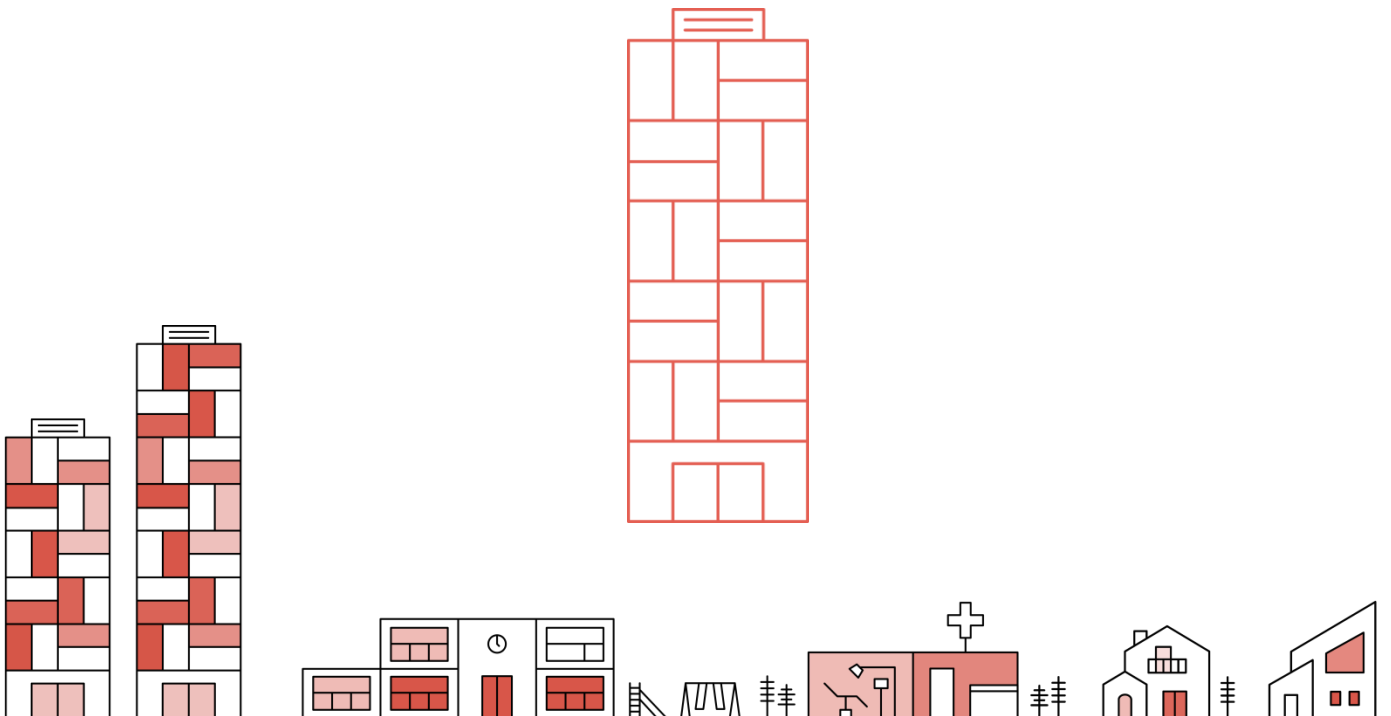


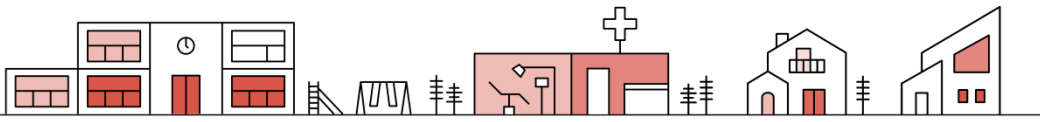


ZONING

In your offices

Full installation
VRF Air conditioning





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

Conventional centralized 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.

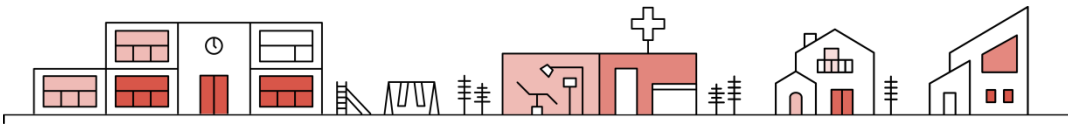


In a **zoned** air conditioning system, **thermostats** and **control dampers** are installed in each of the areas that need conditioning, along with a **central control unit** to manage the entire system.

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 **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 optimization 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.

MASTER

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

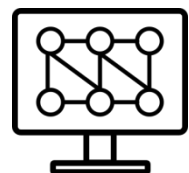


Set the parameters of the system to select the temperature adjustments in each zone and adapt them to your needs.

Fle*X*iFan

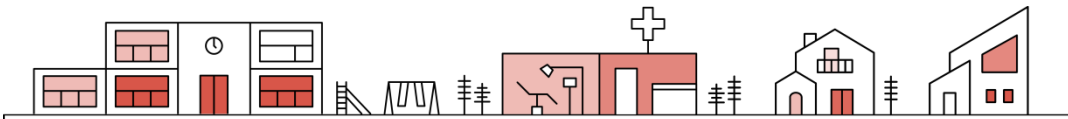
Thanks to the fan speed control system, you can adapt the volume of air flow of the machine based on zones where there is more or less demand and the nature of your particular installation.

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



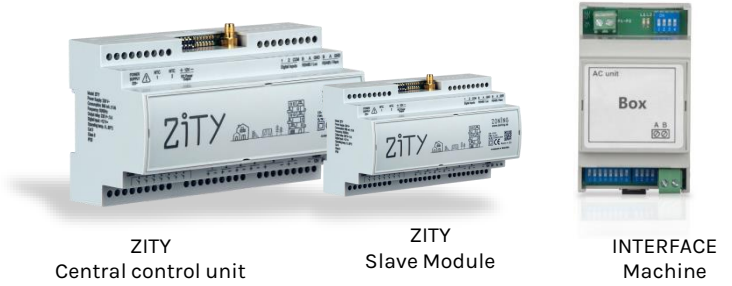
Using Madel's **CLOUD** interface. You will be able to remotely control your system and add other functionalities.

What can I do with my ZONING System?



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



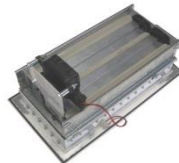
ZOE-RC
Radio Thermostat



ZEBRA
Cable Thermostat

02 See which 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 grilles



ZQ:
Damper for rectangular grilles

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

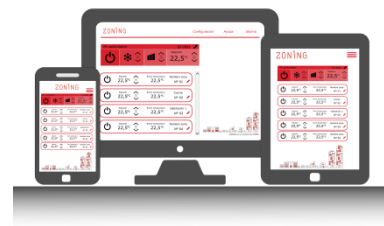


ZS / ZG / ZK
Mechanical pressure controls

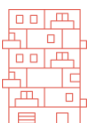


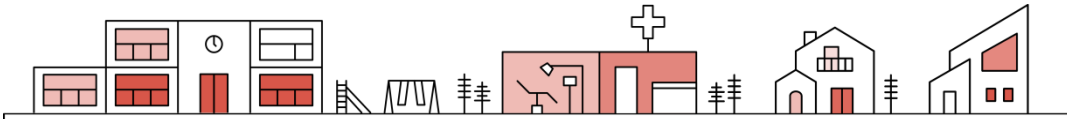
KBY
Electronic pressure controls

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

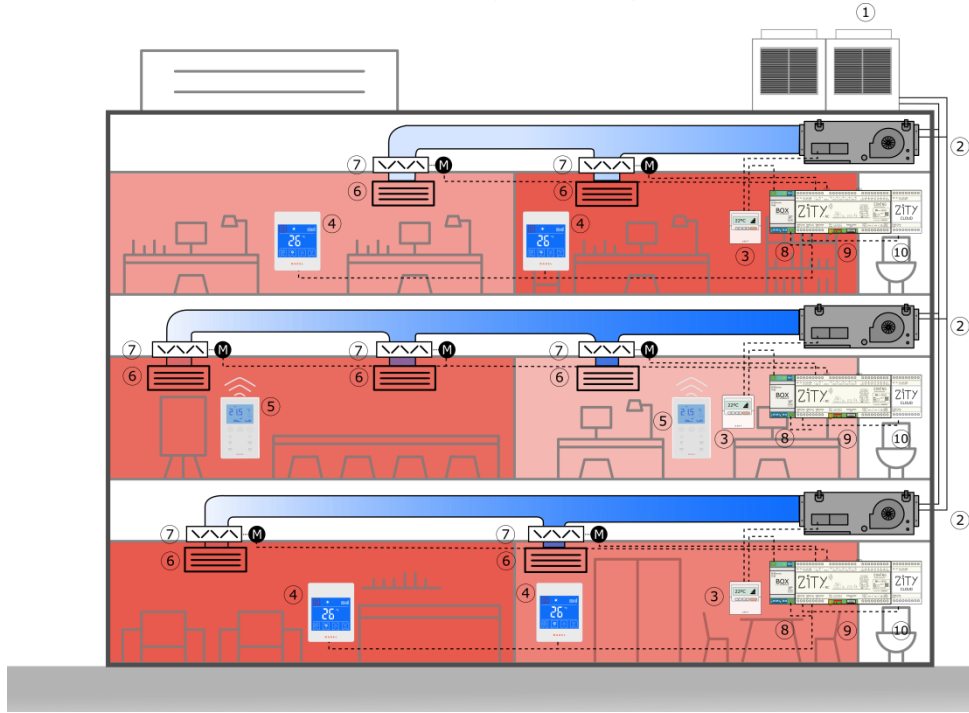


06 Now you have everything you need to enjoy a Zoning System.





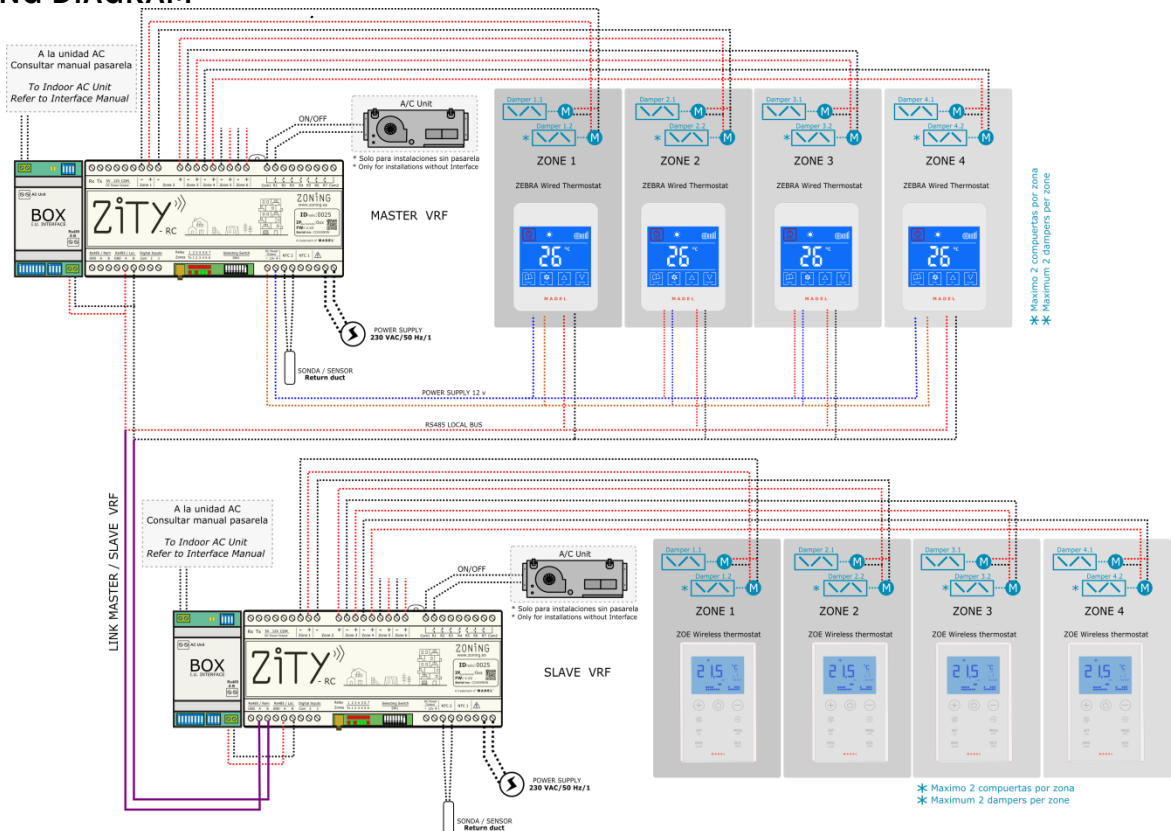
Offices S1: Air Conditioning through direct expansion VRF



- | | |
|---------------------------------|---------------------------------------|
| 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 installation. Master / Slave cable or Radio thermostats





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ZONiNG is a brand of **MADÉL**