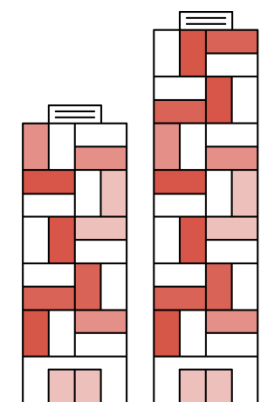
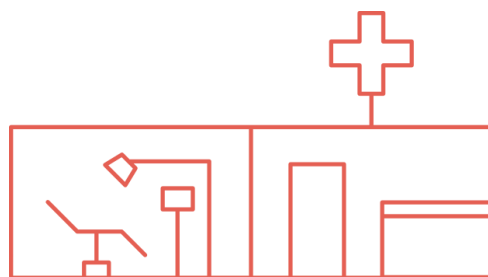


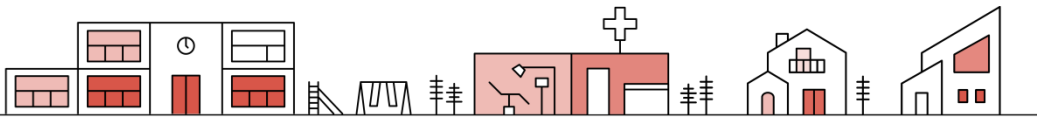


# ZONING

**In your business premises**

Full installation  
Air conditioning





# ZONING

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

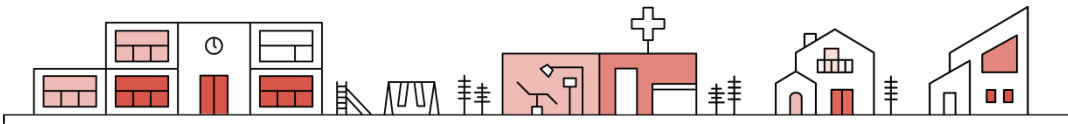


In a **zoned** air conditioning system, **thermostats** and **control dampers** are installed in each of the areas that need conditioning, along with a **central control** unit to manage the entire system.

The **thermostats** measure the temperature in each room; the control unit processes the information it receives and then acts on the control dampers in the zone and on the cold and heat producing equipment, to create the temperature that the user wants at any time, all with the minimum consumption possible.

The **ZITY** control units have specific protocols for the control of fan-coil installations with 2 or 4 tubes, and together with the constant pressure control **KBY** they allow a total regulation of the fans (EC 0-10V) and the water valves .





# ZONING

## ±°C

Control the temperature in each room independently

Separately turn off and turn on in each zone



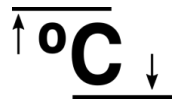
## ECO

Activate the ECONomic mode in temporarily unoccupied zones.

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



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

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

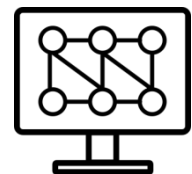


Set the parameters of the system to select the temperature adjustments in each zone and adapt them to your needs.

## Fle*❌*iFan

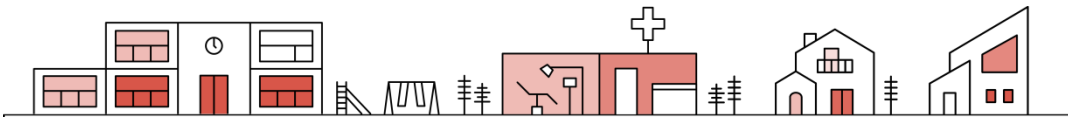
Thanks to the fan speed control system, you can adapt the volume of air flow of the machine based on zones where there is more or less demand and the nature of your particular installation.

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



Using 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 ZITY** and 1 or 2 **NTC sensors**, to control the climate installation.



ZITY Central control unit



NTC sensor



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 duct



ZQ: Damper for  
rectangular duct.



ZS / ZG / ZK  
Controles de presión  
mecánicos



KBY  
Controles de presión  
electrónicos

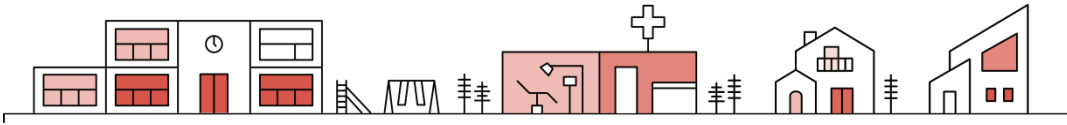
**04** Select a **CONTROL KBY**, to adjust the constant pressure of the EC fans through a 0-10V output.

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

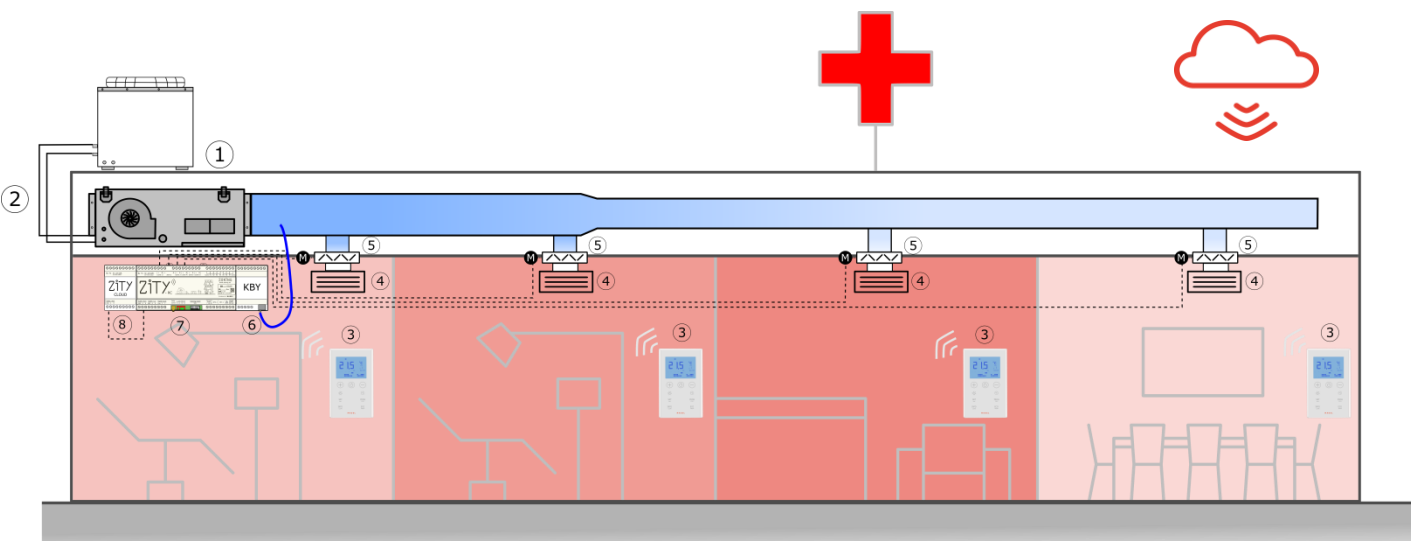


**06** Now you have everything you need to enjoy a Zoning System.





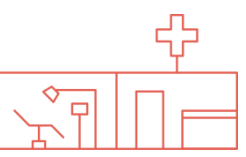
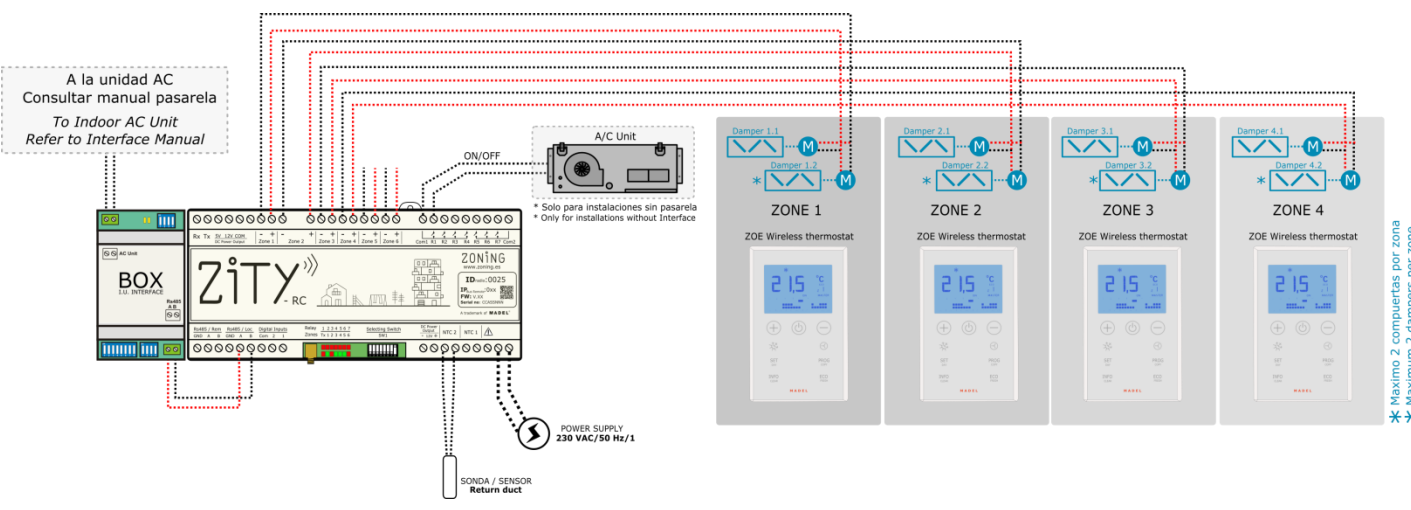
## Home S1: Air Conditioning through direct expansion



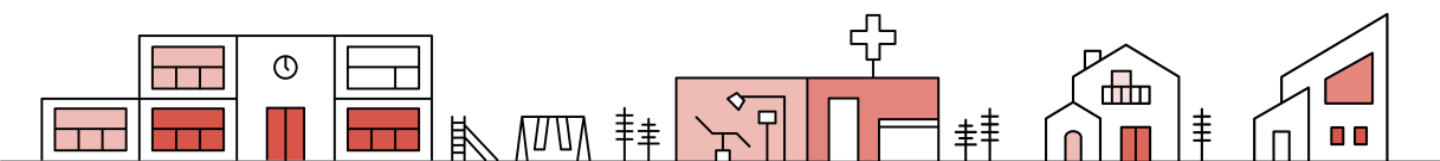
- |                       |                                      |
|-----------------------|--------------------------------------|
| 1 Chiller             | 5 Motorised Zone Damper              |
| 2 Fancoil             | 6 KBY: control motor module EC 0-10V |
| 3 ZOE zone Thermostat | 7 ZITY Central Control Unit          |
| 4 Supply grille       | 8 Communication Interface NETBOX     |

### WIRING DIAGRAM

For standard 4-zone installation. Radio Thermostats



\* Máximo 2 compuertas por zona  
\* Maximum 2 dampers per zone



# ZONING

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ZONING is a brand of **MADEL**