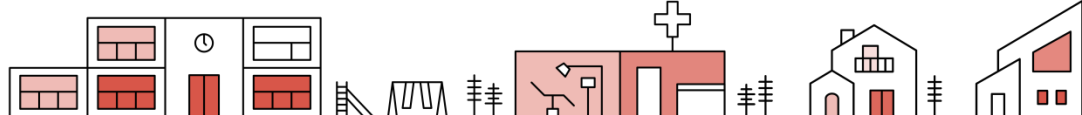
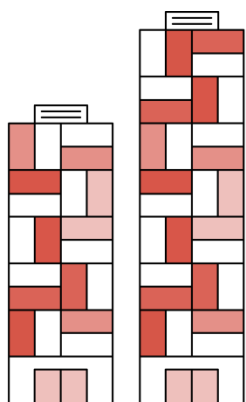


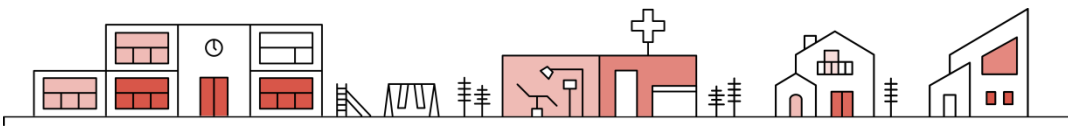


# ZONING

## At Home

Full installation for Homes.  
Combined air conditioning and heating





**Zoning** offers the possibility of multi-zone control in hybrid air/water systems, whether by Combining direct expansion units with boilers or Aerothermal units that combine fan-coils with ducts and radiators.. Permits adjustment of the temperature in different rooms to the taste of the occupants, as well as deactivation of regulation in unoccupied zones.

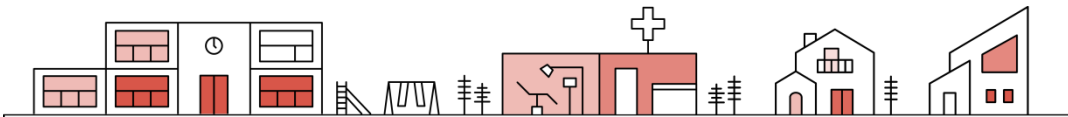
By using a thermostat in each zone, you can increase the comfort of the occupants and reduce power consumption.



In a **combined** zoning system, **thermostats** are installed in each of the zones, along with motorised control dampers to control the air by fan-coil, **thermostatic valves** in the supply (or return) manifold of the water circuit (for radiators or radiant floors) and a **central control unit** to manage the entire system.

The **thermostats** measure the temperature in each room, the central control unit processes the information received and acts on the control dampers or on the thermostatic valves, depending on the work mode selected in the equipment. At the same time, the ZITY control unit acts on the corresponding heat or cold producing equipment, thus creating the temperature wanted by the user at any time, with minimal consumption





# ZONING

## ±°C

Control the temperature in each room independently.

Separately turn off and turn on in each zone



Integrate ONE SINGLE thermostat in the air conditioning and heating installations (THERMOSTAT)

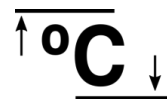
Activate the ECONOMIC mode in temporarily unoccupied zones.

## ECO

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?**

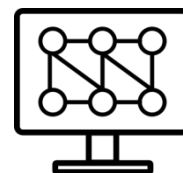


Set the parameters of the system to select the temperature adjustments in each zone and adapt them to your needs.

## Fle*x*iFan

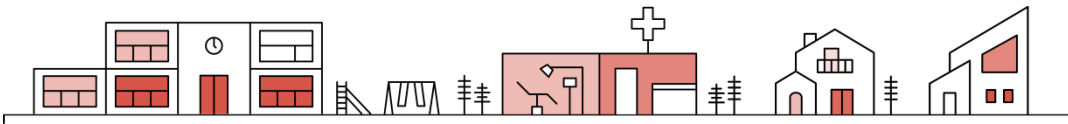
Thanks to the fan speed control system, you can adapt the volume of air flow of the machine based on zones where there is more or less demand and the nature of your particular installation.

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 do you need for your zoning system ?

**01** One **ZITY MASTER CENTRAL CONTROL UNIT** to control the air conditioning and one **ZITY SLAVE CONTROL UNIT** to control the heating.



ZITY  
Central control unit

ZITY  
Slave Module



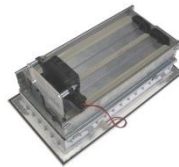
ZOE-RC  
Radio Thermostat



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** Add a protecting NTC sensor for radiant floor installations.

**05** 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

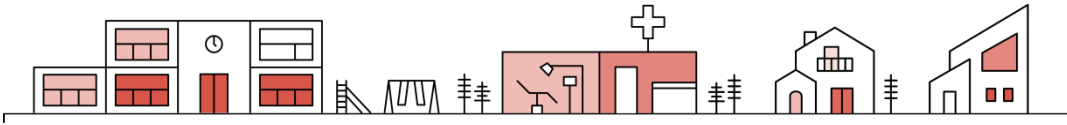


**06** Finally, select whether you wish to control the equipment through the remote control **INTERFACES**.

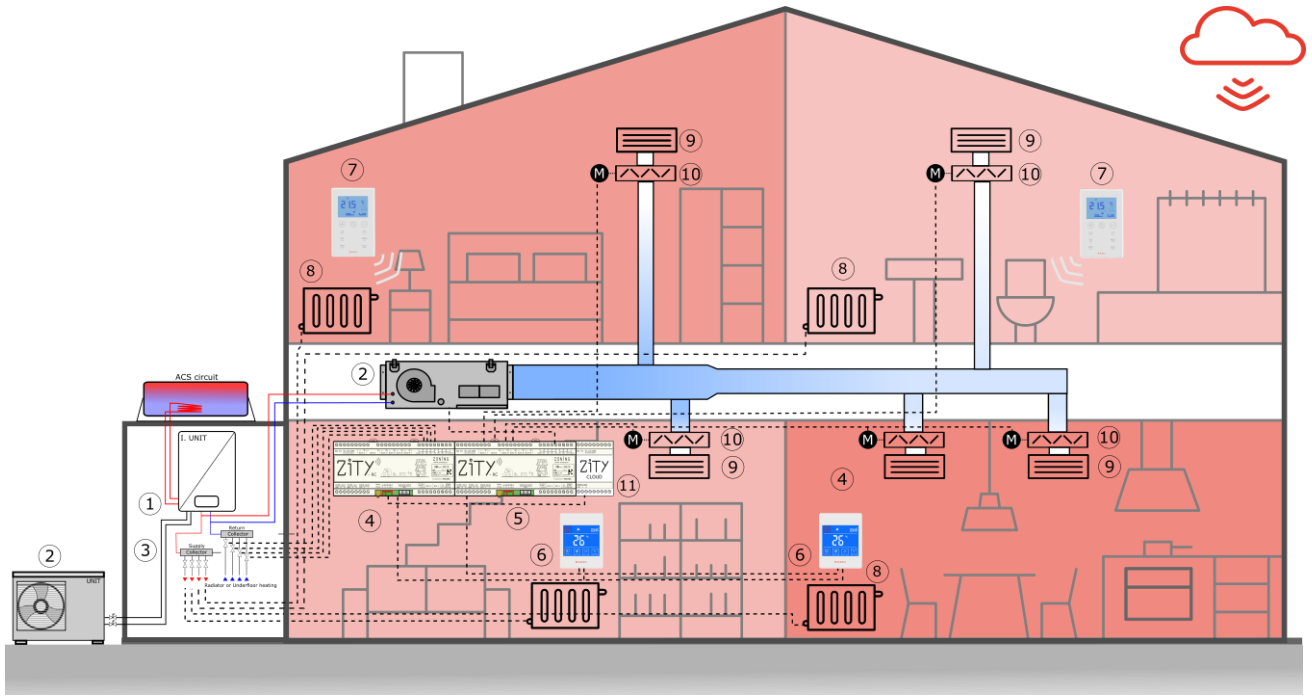


**07** Now you have everything you need to enjoy a Zoning System.



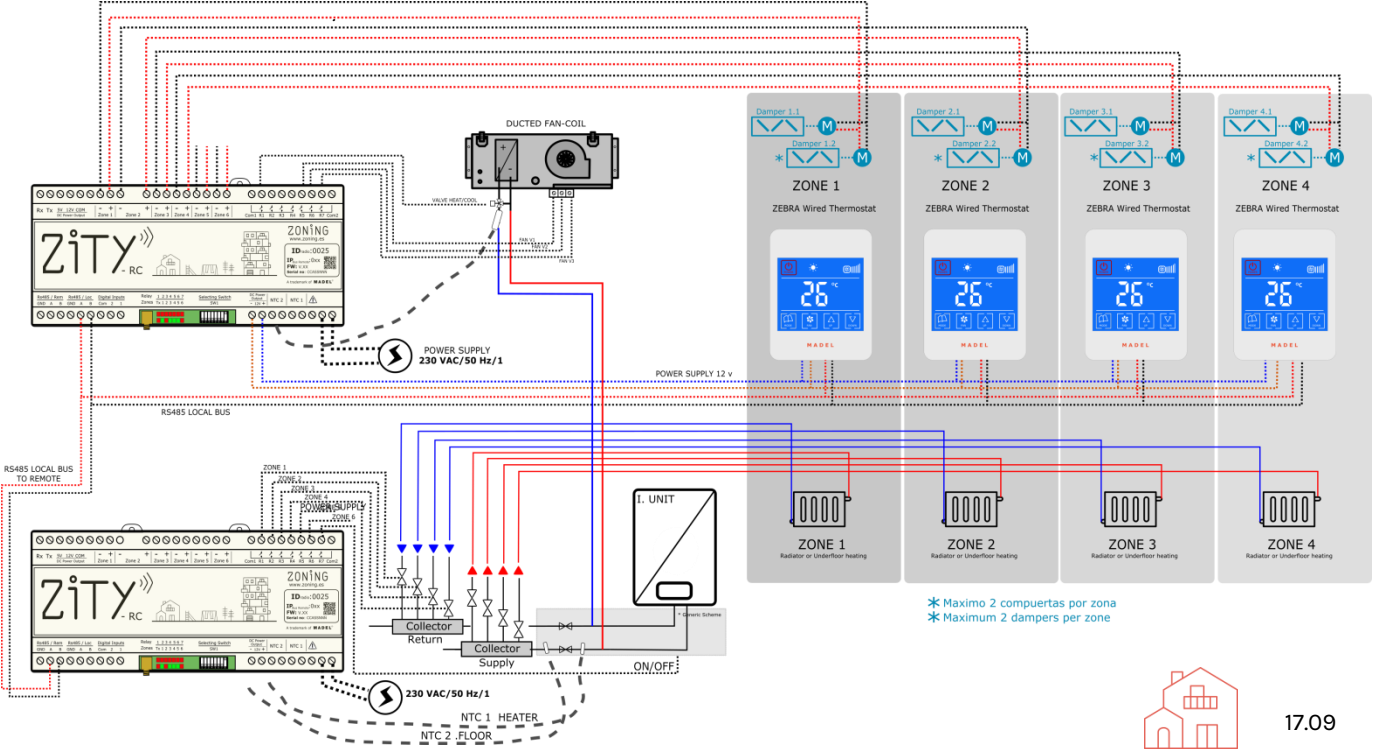


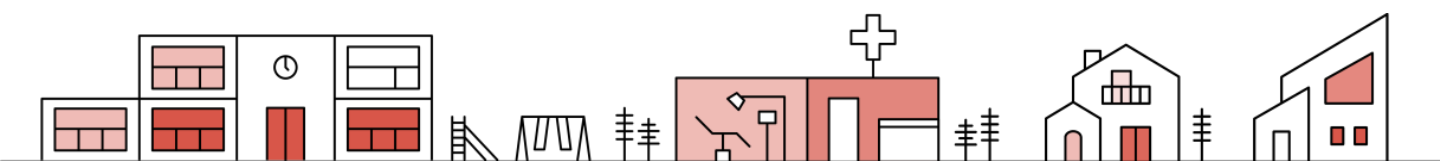
## Home S3: Combined air conditioning and heating



- |                                |                                   |
|--------------------------------|-----------------------------------|
| 1 Interior Aerothermal Unit    | 6 ZEBRA Cable Zone Thermostat     |
| 2 External Aerothermal Unit    | 7 Radiators or Radiant Floor      |
| 3 Thermostatic valves manifold | 8 Supply Grille                   |
| 4 ZITY-W master control unit   | 9 Motorised Zone Damper           |
| 5 ZITY Slave Control Unit      | 10 NETBOX Communication Interface |

### WIRING DIAGRAM *for standard Aerothermal installation. Cable Thermostats. For other combinations, please ask.*





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ZONiNG is a brand of MADEL