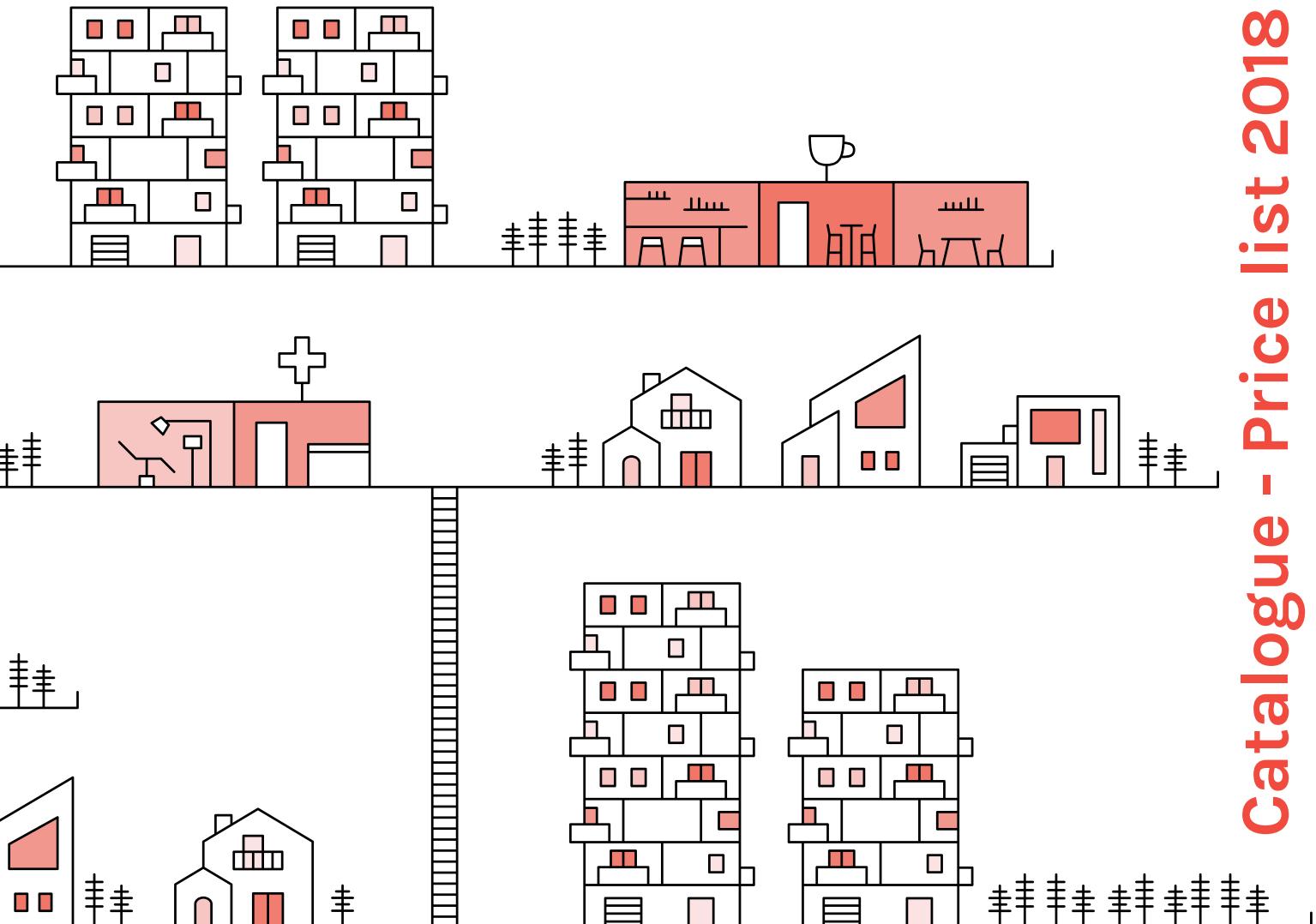


Catalogue - Price list 2018



ZONING

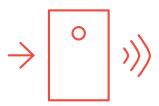
the smart decisions leads to happiness

I T S H O U T L O G E C A T A R P R I C E 2 0 1 8



SOLUTIONS > 6

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- Air conditioning and heating. Mixed use > 8
- Standard or Inverter ducted Fan-coil solution > 9
- Air conditioning Ducted VRF+ BMS > 10



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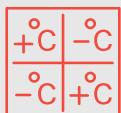
ZONING

is the solution to problems with discomfort caused by air conditioning systems with a single centralised thermostat



Rational use of energy, consumption adjusted to actual requirements.

Avoiding the use of air conditioning in unoccupied zones



Personal comfort

For each of the different zones



Adaptable to all types of buildings and air conditioning systems

Direct expansion, VRV, hydronic systems...

- 50%

Energy saving of up to 50%

Compared to conventional centralised installations



Open communication

With home and building automation systems



Complete integration

With the air conditioning unit thanks to the communications interfaces



Flexible For both wired and wireless solutions

Zoning enables an independent temperature control in different zones of residential, commercial and office buildings, with a single Air conditioning ducted unit.

CONFORT AND ENERGY SAVING

Why control all the zones in the same way in centralized air conditioner?

By dividing the rooms into zones you can calculate the air conditioner for its maximum simultaneous power (considering occupation, orientation of facades ...), not for its maximum total power, obtaining savings in the initial investment and energy in the nominal power consumed by the air conditioner.

APPLICATIONS AND REFERENCES



In residential and commercial buildings, where the personal comfort and the rational use of energy are a requirement.



Flats, apartments and houses, to reach the total confort in each of the rooms of your house. Also in offices and commercial buildings to allow an independent temperature control of each zone, avoiding to use the air conditioning in unoccupied zones.

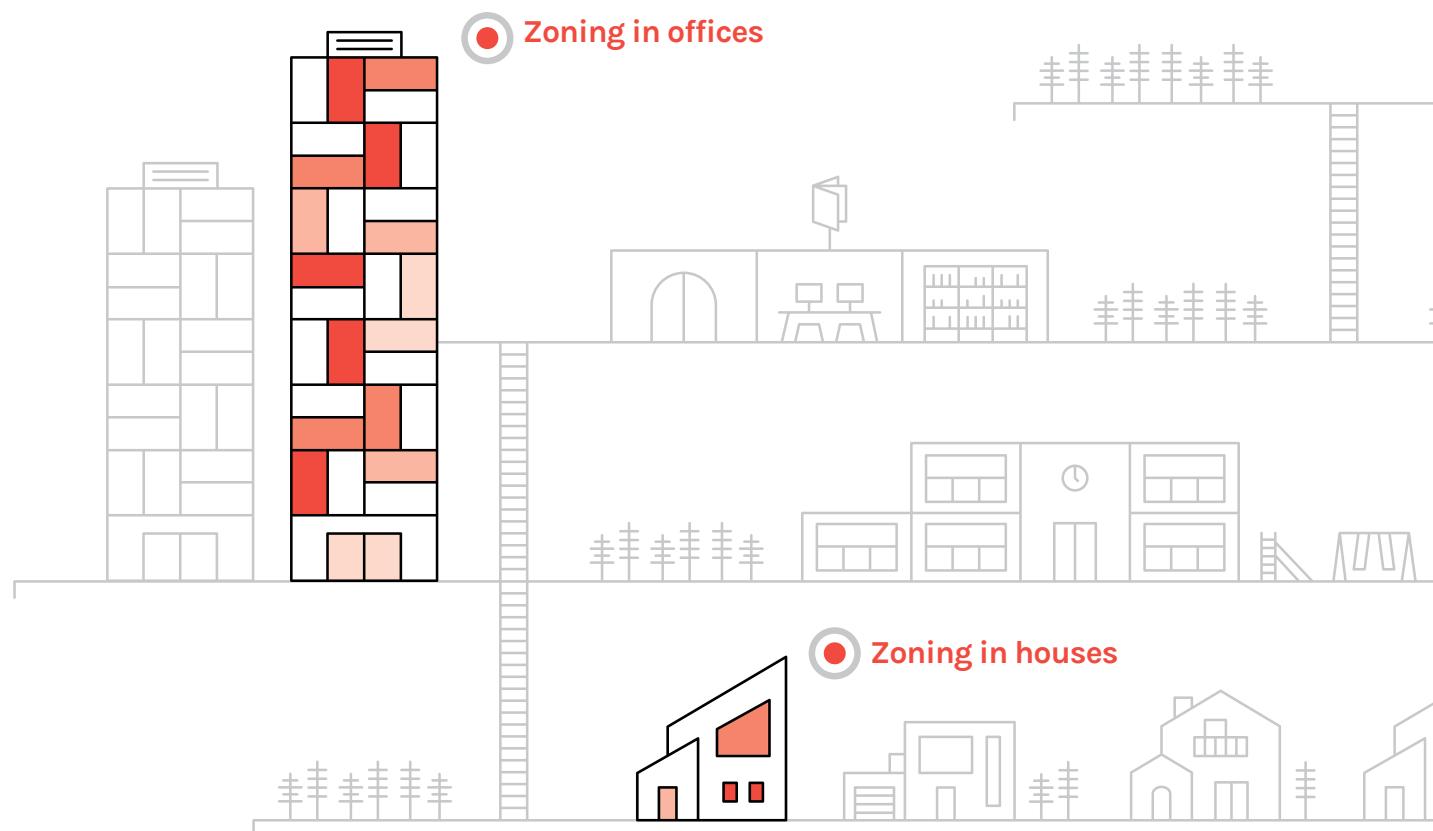


More than 25.000 installations and 15 years of experience endorse our system, being able to give the proper solution for any requirement from our customers.



Residencial Maestro Rodrigo. Alicante (ES)
Promoción Algaba Domezal. Sevilla (ES)
Nice Bay, Nice (FR)
Résidence Pierre et Vacances, Roquebrune Plage (FR)
California Golf Resort, Casablanca (MA)
Clot des Pins, Rabat (MA)
Eden Park, Salerno (IT)
Palau de la Virreina. Barcelona ES
Oficines Miquel I Costas, Capellades. (ES)
Can Maurici, Vic. (ES)
CPAM Antibes. (FR)
Museo del Design. Milano (IT)

ZITY multi-zone control platform, is the solution for any type of buildings...



DIRECT EXPANSION 1X1

Control of any Direct expansion (DX) air conditioning unit, using the corresponding machine interface of each brand and model.

Complete integration of the changeover Cooling/Heating from the MADEL master thermostat, semi-automatic fan speed control and optimization of Inverter system to reduce the power consumption.

DIRECT EXPANSION VRF

Control of VRF ducted direct expansion (DX) units, using the corresponding machine interface of each brand and model.

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.

DUCTED FAN-COIL UNITS

Control of ducted fan-coil units, in individual or centralized installations and for 2 or 4 pipes configurations.

Water valve (on/off) and fan speed control (conventional or inverter). Protection Temperature sensors and auto-mode detection.



...and any centralized air-conditioning system

MULTIZONE HEATING SYSTEM

For centralized multi-zone heating installations, with radiators or underfloor heating.

Thermostatic valve and pump or heater control by the use of free contact relays.

NTC protection sensor included.

HYBRID SYSTEM

For installations where air ducted units and radiant units are combined in the same installations.

Specific control protocols for air-to-water systems.

Integration of all the different climatization systems in the same single thermostat.

MAXIMUM ACCURACY

The **ZITY** control panel, and the **ZOE** and **ZEBRA** room thermostats have reached a CA 0.3 and 0.4 accuracy coefficient (following the EN15500 European Norm). Achieving, at the same time, the **Eu.bac** certification that guarantee the maximum energetic efficiency in the building regulation systems.



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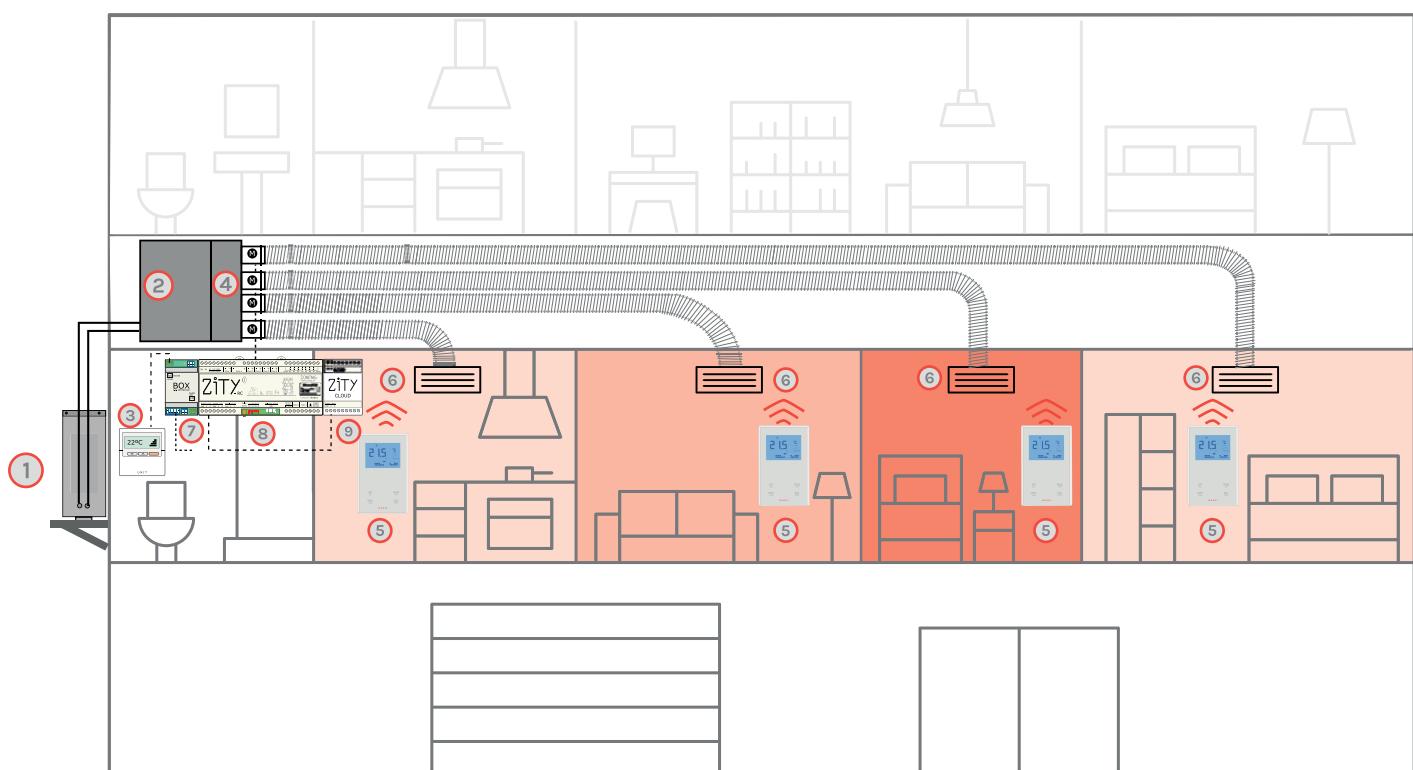
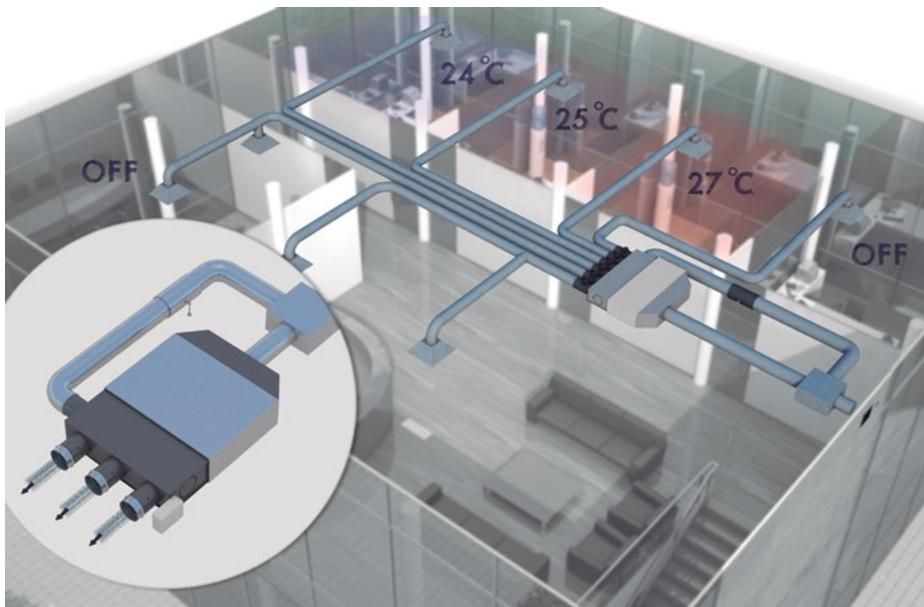


ZMARTBOX IS THE PLUG&PLAY SOLUTION FOR ANY RESIDENTIAL OR COMMERCIAL AIR CONDITIONING INSTALLATION

ZmartBox is the plug&play solution for multi-zone control in ducted AC installations.

ZmartBox is formed by a Zoning control kit (control unit + thermostats + communication interface) and a motorised distributing plenum (with 2 to 6 outputs + bypass if necessary), compatible with most internal air conditioning units based on direct expansion and duct fan-coils.

The **ZmartBox** set is delivered completely cabled, configured and ready to be installed onsite **#PlugandPlay**.



1 External A/C

2 Internal A/C

3 A/C Unit Control

4 ZmartBox

5 ZOE Wireless Zone Thermostat

6 Supply Grille

7 A/C Machine Communication Interface

8 ZITY Central Control Unit

9 NETBOX Communication Interface

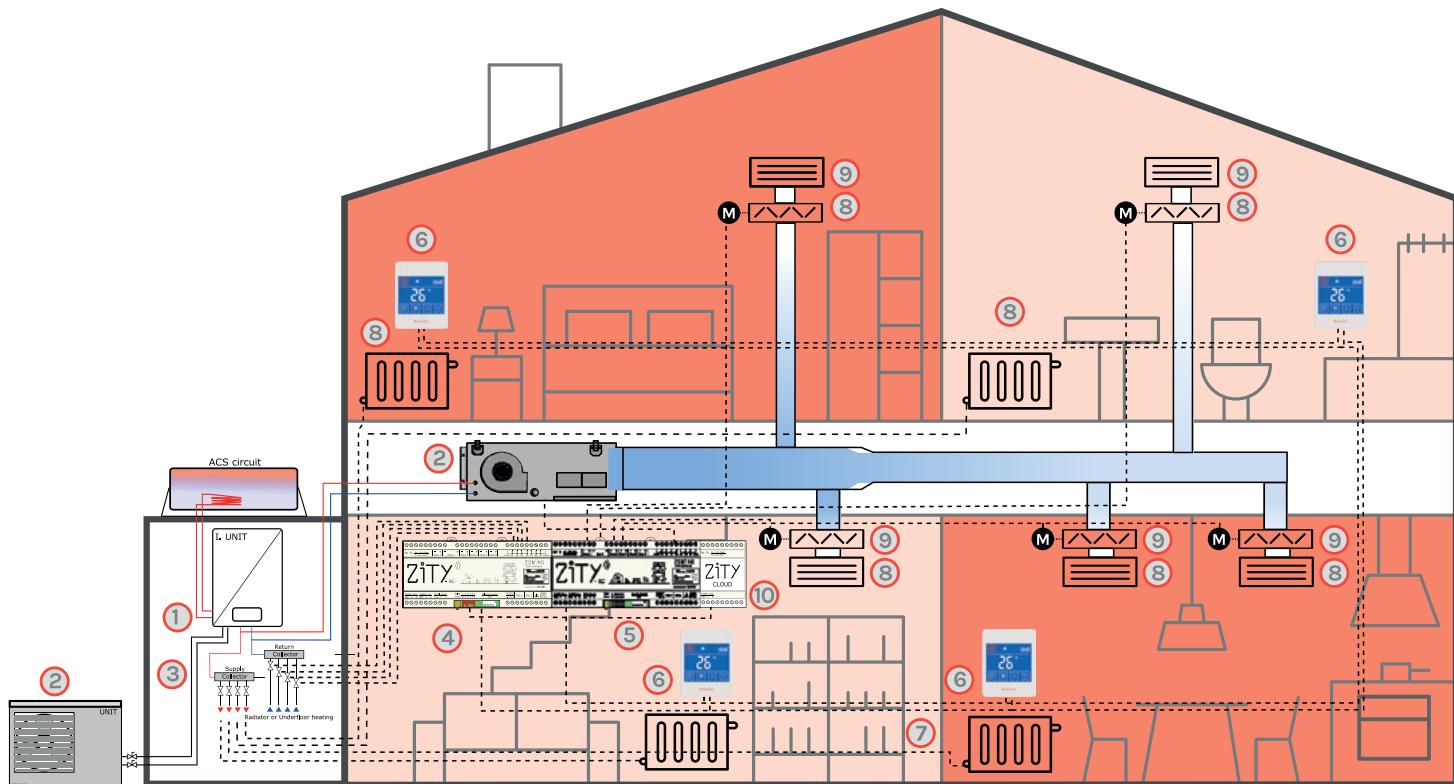
COMBINED AIR CONDITIONING AND HEATING

Zoning offers the possibility of multi-zone control in hybrid air/water systems, whether by Combining direct expansion units with boilers or Air-to-water units that combine ducted fan-coils and radiators.

The **ZITY** modular control system allows to combine both type of installations (air+water) to guarantee the optimal control of both.

For any type of residential or commercial facilities, where the combined systems are usually installed. Permits adjustment of the temperature in each different room or office to the election of the occupants, as well as the deactivation of unoccupied zones.

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



- | | | | |
|---|-----------------------------------|----|--------------------------------|
| 1 | Interior Air-to water Unit | 6 | ZEBRA Wired Zone Thermostat |
| 2 | External Air-to water Unit | 7 | Radiators or Radiant Floor |
| 3 | Thermostatic valves manifold | 8 | Supply Grille |
| 4 | ZITY -W (') Master Control Unit | 9 | Motorized Zone Damper |
| 5 | ZITY -W/MC (') Slave Control Unit | 10 | NETBOX Communication Interface |

* For Wireless systems: Thermostats ZOE-RC and ZITU-RC/MC control panel

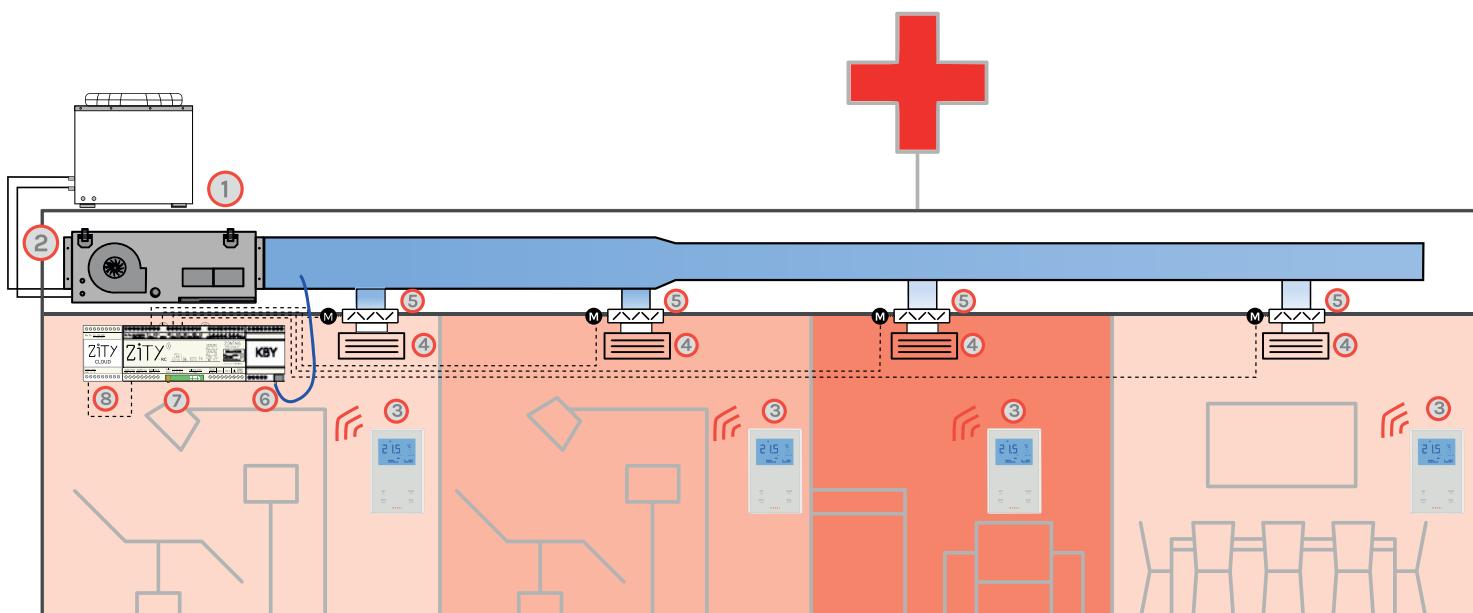
AIR CONDITIONING WITH INVERTER OR CONVENTIONAL DUCTED FAN-COIL UNITS

Zoning control for central air-conditioning installations where ducted fan-coil units (FCU) are used, either Inverter 0-10V units or conventional **zones**.

The functionalities of the **Zoning** control added to FCU's allow to guarantee an optimal installation, by controlling the water temperature, the duct pressure (using the KBY electronic pressure control) and controlling the water valves of FCU inlet..

The **ZITY control system** permits the adjustment of the temperature in each different room or office to the selection of the occupants, as well as the deactivation of unoccupied zones.

The multi-zone ducted FCU's solution is very suitable for any type of installations, from small apartments to commercial or retail buildings.



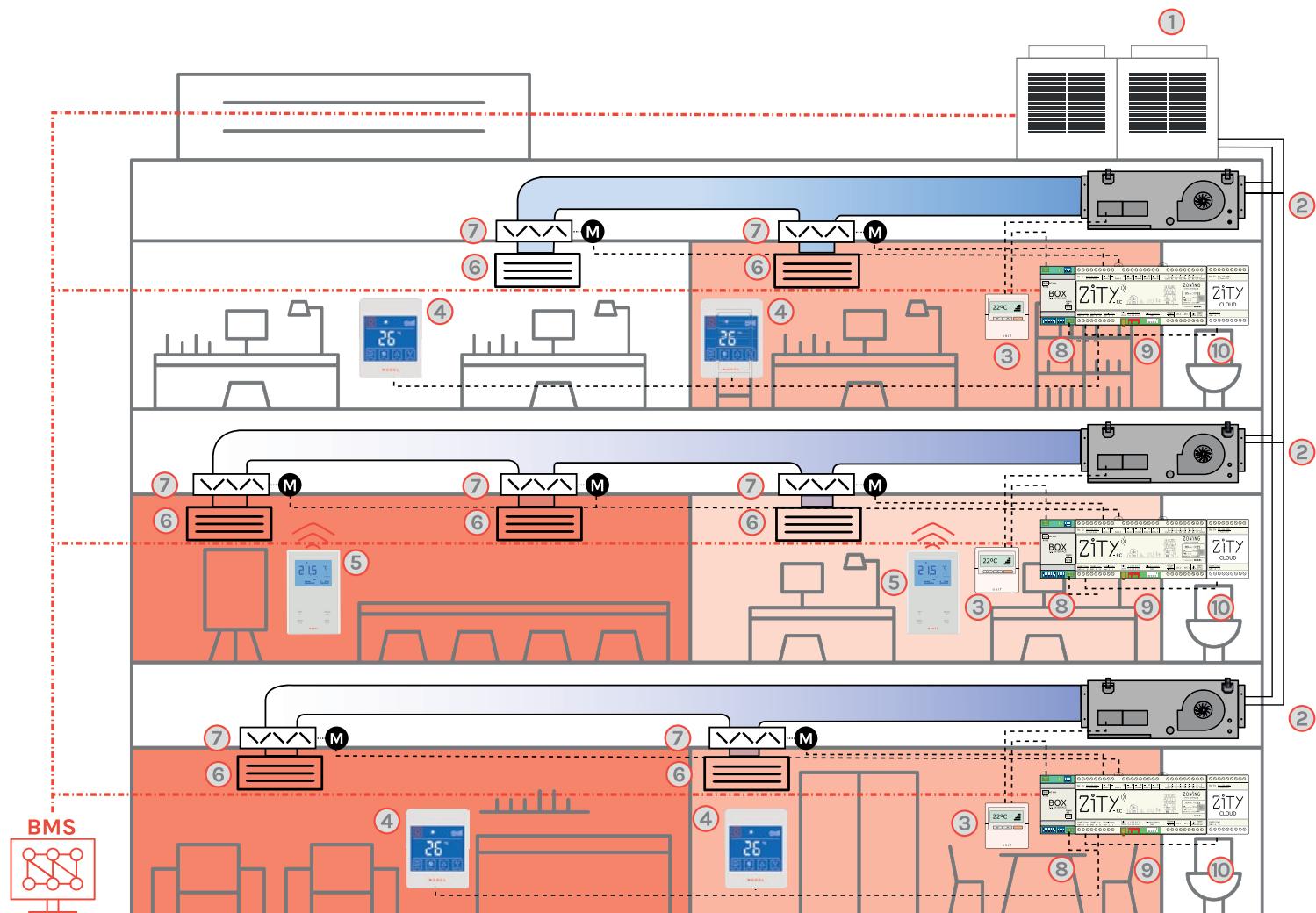
- | | |
|--------------------------------|---|
| 1 Chiller | 5 Motorised Zone Damper |
| 2 Fan-coil Unit | 6 KBY: Módulo de control motor EC 0-10V |
| 3 ZOE Wireless Zone Thermostat | 7 ZITY Central Control Unit |
| 4 Supply grille | 8 NETBOX Communication Interface |

FULL DUCTED MULTI-ZONE VRF INSTALLATIONS, INTEGRATED IN BMS SYSTEMS

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 the **Zoning** system.

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

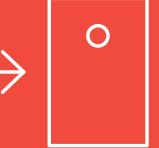
Specially conceived to use in office, commercial and public buildings where the VRF systems are commonly used.



- 1 External VRF Unitne
- 2 Internal VRF Unit
- 3 A/C Unit Control
- 4 ZEBRA wired Zone Thermostat
- 5 ZOE Wireless Zone Thermostat

- 6 Supply Grille
- 7 Motorised Zone Damper
- 8 A/C Machine Communication Interface
- 9 ZITY Central Control Unit
- 10 NETBOX Communication Interface

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ZMARTBOX

PLZON, PLMAC Zoning kit plug & play



> Price-list p. 24-25

ZmartBox includes a plenum PLZON, KSP central ,ZOE-RC master/slave thermostat, a communication interface with air conditioning unit (if requested) and By-pass damper if necessary.

The Zmartbox set comes fully wired, configured and ready to be installed on site. #PlugandPlay

ZMARTBOX/DX Zoning Plug&play kit for direct expansion units

ZMARTBOX/FC Zoning Plug&play kit for fan-coil units

Plenum boxes to adapt to ducted units:

PLZON Plenum for ducted AHU for motorised and by pass dampers
PLMAC Plenum wit circular spigots for ducted AHU

COMPATIBILITIES



SKY AND VRV LINES



DOMESTIC, MR SLIM AND CITY MULTI LINES

FD AND HYPERMULTI LINES



DOMESTIC AND VRF LINES



DOMESTIC LINE



ECOI AND PACI LINES



NON-NASA VRF AND DOMESTIC



DOMESTIC AND VRF LINES



VRF LINE



DIGITAL INVERTER AND VRF LINES



COMERCIAL AND VRF LINES

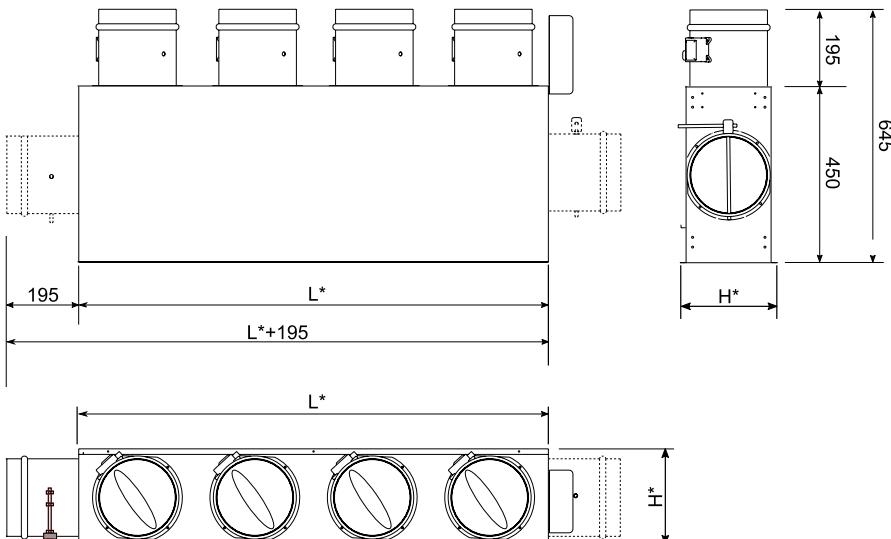


VRF LINE

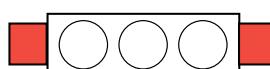
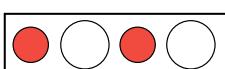


COMERCIAL AND VRF LINES

DIMENSIONS AND CONFIGURATIONS

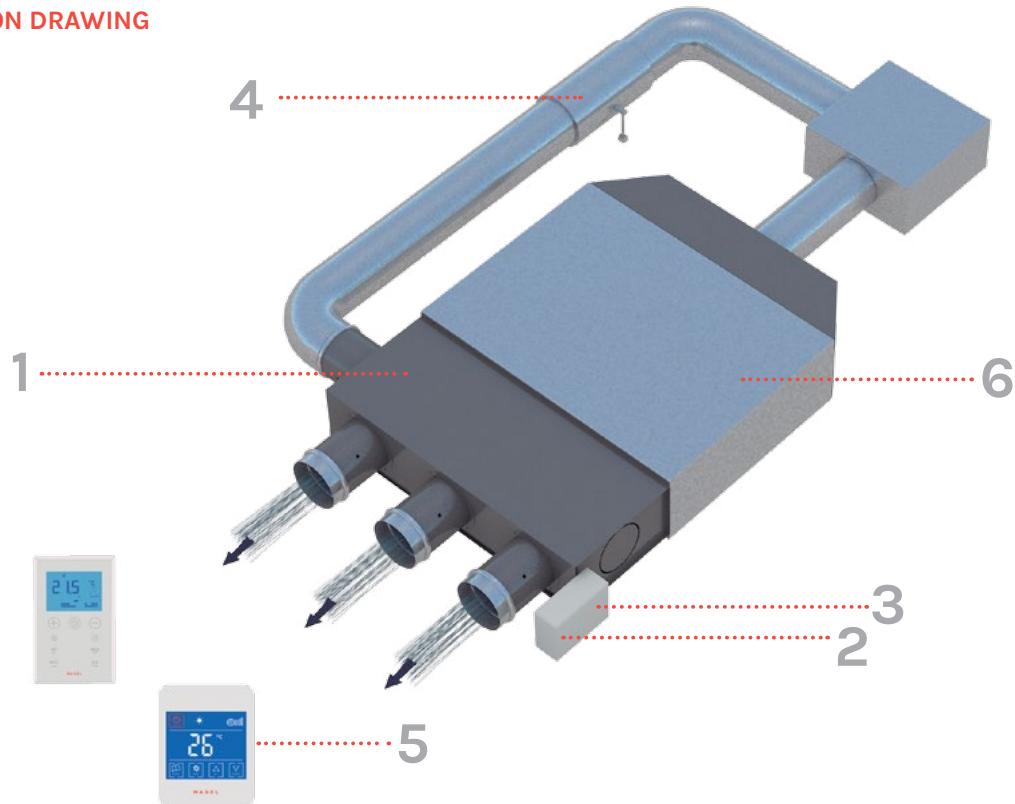


CONSULT FOR OTHER DIMENSIONS SPECIAL CONFIGURATIONS



	Zones D160					Zones D200				
	2	3	4	5	6	2	3	4	5	6
H (mm) min	180	180	180	180	180	220	220	220	220	220
L (mm) min	650	850	1050	1250	550	550	800	1050	1300	1550

TYPICAL INSTALLATION DRAWING



1 PLZON



Splitter plenum box and motorised dampers: Adaptable directly to the indoor ducted AHU. Thermo-acoustically isolated.

2 ZITY



ZITY control panel: Comes wiring, configured and mounted inside an IP55 waterproof case.

3 INTERFACE



Communication **interfaces** between **Zoning** and ducted direct expansion units. Allows the changeover cooling/heating from the **Zoning** master thermostat, the automatic fan speed adjustment and an increase of the efficiency due to the modulation of the set-point.

4 BYPASS*



Mechanical or electronic by-pass dampers: to adjust the pressure variations due to the closure of the zone dampers.

*They should be installed when the modulation of the ventilation speeds controlled by the interfaces is not sufficient to compensate the excess pressure in the installation.

5 THERMOSTATS



Wired (W) or radio (RC), digital **chrono-thermostats**, to control the temperature in each of the zones. Weekly programming, blocking functionalities and limitation of setpoint temperatures.

6 DUCTED UNIT



Air conditioning ducted unit. Could be a direct expansion or an hidronic fan-coil unit. Consult for the compatibility of each brand and model.

* Not supplied by Madel.



> Price-list p. 21

ZITY

Multi-zone system for centralized air conditioning and heating installations

- > From 2 to 18 zones
- > COMMUNICATION
 - Wireless or wired
- > APPLICATION
 - For Direct expansion, fan-coil or radiant units
- > INTEGRATION
 - into BMS Modbus RTU

Control platform for air conditioning and heating equipment for 2 to 18 zones. Control of direct expansion units, hydronic fan coil units and underfloor heating systems or radiators. Communication with the thermostats in the zone via Radio or wired. Comes with 2 Rs485 communications ports for integration into building management systems.

Control panels

ZITY-RC 2-6 zones radio controlled control panel

ZITY-W 2-6 zones wired control panel

Zone expansion modules

ZITY-W/ME 7-12 Expansion module from 7 to 12 zones

ZITY-W/ME 13-18 Expansion modules from 13 to 18 zones

Control panel for combined installations

ZITY-RC/MC Wireless control panel for combined installations

ZITY-W/MC Wired control panel for combined installations

SLAVE control panels for centralized mode (heating/cooling) installations

ZITY-RC/S Wireless control panel SLAVE configuration

ZITY-W/S Wired control panel SLAVE configuration

IMPLEMENTED SOLUTIONS

→ Direct expansion (DX)

- **1x1:** Split 1x1 units control by using the machine communication interfaces.
- **VRF:** VRF units control by using the machine communication interfaces and specific protocols and functionalities for this kind of installations.

→ Hydronic

- **2-4 Pipe Fan-coil Units:** Fan speed and water valve control. Optionally remote mode (heat-cool) setting.
- **Mutli-zone heating:** By controlling up to 18 thermostatic zone valves. For radiators or under-floor heating installations.

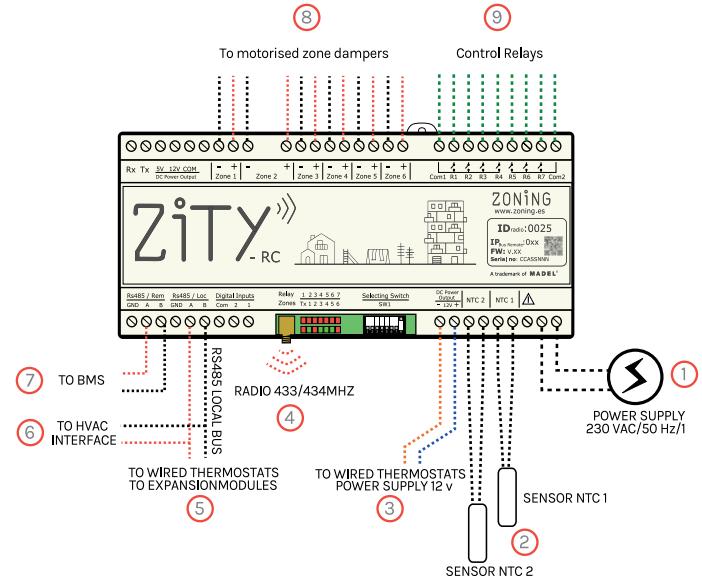
→ Combined

- **Air-to-water:** Specific protocols for this type of installations.
- **DX+multi-zone heating:** To integrate both systems, direct expansion and radiators or under-floor heating, in each single zone thermostat.
- **Fan-coil +multi-zone heating:** To integrate both systems, Fan-coil and radiators or under-floor heating in each single zone thermostat.

FleXifan

Adaptive fan-speed control of the ducted unit, in function of the number of zone and the typology of the installation.

BASIC WIRING DIAGRAM



1. Power Supply: 230 VAC/50 Hz/1

2. NTC temperature Sensors. Ask for locating it in function of machine type.

3. Power Output 12 VCC for wired thermostats.

4. Radio Antenna 433/434 MHz (only for ZITY-RC).

5. Local communication bus Rs485. For wired thermostats and expansion modules.

6. Local communication bus Rs485. To communicate with machine interfaces. Parallel connection with the previous bus.

7. Remote communication bus Rs485. To communicate with external BMS modbus RTU systems.

8. Power Output 24 VCC for motorized dampers. Maximum 2 dampers for zone.

9. Output relays. Ask for specific wiring of each unit.

TECHNICAL CHARACTERISTICS

→ ZITY Control unit

- Power 230 VAC/50-60 Hz. ZITY consumption: 6 VA.
- 230 VAC/5A relay outputs (maximum load: 5A. Cos Φ=1)
- Protection grade: IP 20
- Electrical insulation protection, Class II
- Operating temperature: 0 °C a 55 °C
- Storage temperature: -10 °C a 60 °C
- Dimensions (LxHxZ) 160x90x65 mm
- Weight 0.5 kg

→ ZITY/RC

- Mean range Radio: 50 m in open field, 20 m in habitat. Adjustable external antenna
- Frequency 433.33 MHz (Optional: 433.92 MHz). Work cycle <10%
- For installation up to 2000 m above sea level. Receiver, CAT III

ZEBRA

Touch screen wired chrono-thermostat



CA=0,4



> Price-list p. 21

ZOE

Digital wireless chrono-thermostat



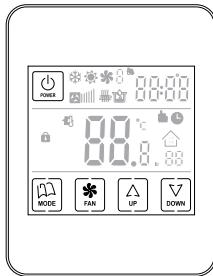
CA=0,3



> Price-list p. 21

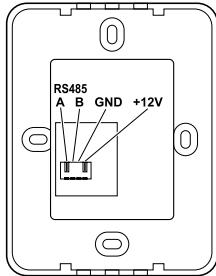
Wired (W) digital chrono-thermostat, to work in conjunction with the **ZITY** control platform. Two-way communication between the **ZITY** control unit and the thermostat. Integration of Master/Slave mode in the thermostat. No batteries required.

FUNCTIONALITIES



- Individual temperature zone control
- ECO temperature mode
- ON/OFF of each zone and ON/OFF of the whole system (using Master thermostat)
- Fan-speed control
- Working mode control (Heat, cool, fan, dry)
- Weekly programming
- Blocking functionalities to avoid improper use
- Maximum and minimum set-point limits

BASIC WIRING DIAGRAM



- A12 VDC power supplied by the ZITY control panel.
- Modbus RTU communication with the ZiTY control panel.

The connector is located in the rear part of the thermostat. See attached drawing.

TECHNICAL CHARACTERISTICS

- Power supply: 12 VDC
- Consumption: < 0.3 VA
- Control output: Modbus RTU Rs485
- Wiring S<1.5 mm²
- Operating temperature: 0 °C to 50 °C
- Storage temperature: -20 °C to 60 °C
- Humidity Range: 10-90% (no condensation)
- Wall mount with bolts (supplied)
- Protection grade: IP 20
- NTC10K Temperature sensor. Accuracy 0.1 °C
- Configurable control hysteresis +/-0.2 to 0.5 °C
- CA control accuracy according to Standard EN15500. CA=0.4 (Test report CLMS17-742. CSTB)
- Economy ECO mode
(±3 °C setpoint temperature variation)
- Frost protection for T<7 °C+/-3 °C
- Dimensions (LxHxZ) 85x108x13 mm
- Weight 0.11 k

FUNCTIONALITIES



- Individual temperature zone control
- ECO temperature mode
- ON/OFF of each zone and ON/OFF of the whole system (using Master thermostat)
- Fan-speed control
- Working mode control (Heat, cool, fan, dry)
- Weekly programming at 2 levels (confor/ECO)
- Blocking functionalities to avoid improper use
- Maximum and minimum set-point limits

TECHNICAL CHARACTERISTICS

- Power (2x1.5 V LR06 AA batteries (alkaline)
- Average battery life 1 year (or longer). The batteries are supplied with the unit
- Battery life indicator
- Carrier frequency (ISM band, Standard I-ETS 300-220): 433.34 MHz (Optional: 434.92 MHz)
- Mean range: 50 m in open field, 20 m in habitat
- Operating temperature: 0 °C to 55 °C
- Storage temperature: -10 °C to 60 °C
- Humidity Range: 10-90% (no condensation)
- Wall mount with bolts (supplied)
- Protection grade: IP 20
- NTC10K Temperature sensor. Accuracy 0.1 °C
- Configurable control hysteresis +/-0.2 to 0.5 °C
- CA control accuracy according to Standard EN15500. CA=0.3 (Test report CLMS17-741. CSTB)
- Economy ECO mode
(±3 °C setpoint temperature variation)
- Frost protection for T<7 °C+/-3 °C
- Dimensions (LxHxZ) 70x110x19 mm
- Weight 0.13 kg (with batteries)

XXXBOX

Direct Expansion (DX) ducted units communication interface



> Price-list p. 21

NETBOX

CLOUD communication interface



> Price-list p. 21

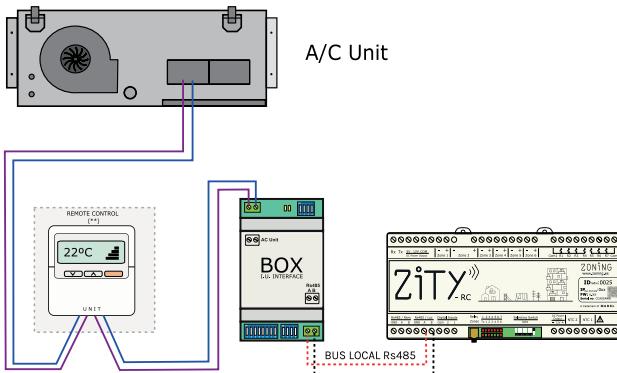
Communication interface between **Zoning** control panels and ducted direct expansion air conditioning units (1x1 or VRF).

The bidirectional MODBUS communication allows to optimize the operation of both the **Zoning** system and the air handling unit, allowing an improve of the comfort and of the power consumption.

FUNCTIONALITIES

- Allows the complete integration between Zoning System and the air handling unit.
- Allows the changeover Cooling/Heating from the Zoning master thermostat.
- Increases the Inverter system efficiency and reduces the power consumption.
- Allows the automatic fan speed adjustment of the unit improving the comfort and the acoustic level

BASIC WIRING DIAGRAM

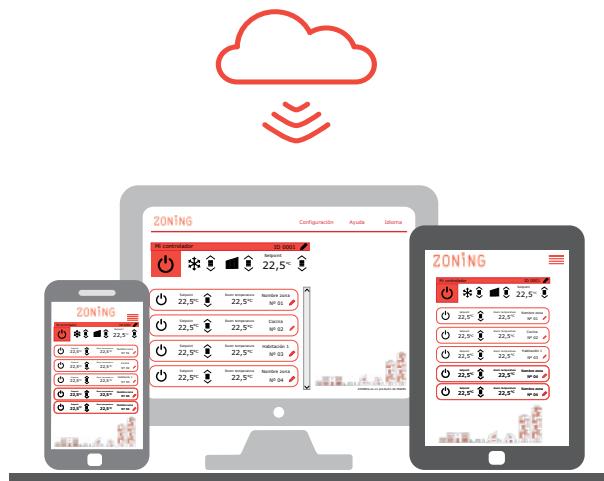


TECHNICAL CHARACTERISTICS

- Enclosure Plastic, type PC (UL 94 V-0)
Color: Light Grey
- Mounting Wall DIN rail EN60715 TH35
- Port 1 x Serial EIA485 Plug-in screw terminal block (2 poles)
- Compatible with Modbus RTU EIA-485 networks
- Operating Temperature: 0 °C to 60 °C
- Storage Temperature: -20 °C to 85 °C
- Storage Humidity: <95% RH, non-condensing
- Isolation voltage 1500 VDC
- Isolation resistance 1000 MΩ
- IP 20 isolation
- Net dimensions (DxWxH) 93x53x58mm
- Weight 85 g.

Communication interface between **ZITY** control panels and the CLOUD application of the **Zoning** system.

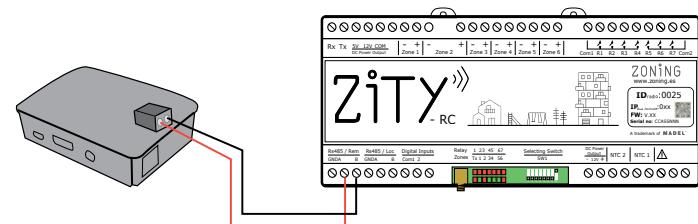
Fast and easy remote control of your **Zoning** system, from any portable device (Smartphone, tablet) or desktop computer (PC), thanks to the responsive **Zoning** Webapp



FUNCTIONALITIES

- Control all your installations from one single application.
- Display of the current state of all your Zoning systems
- Total control for each one of the installations:
 - > ON/OFF of all system
 - > ON/OFF of each zone
 - > Remote changeover
 - > Fan-speed control
 - > Room temperature display
 - > Remote control of Set-point temperature
- Easy Yearly programming tool to create all the schedules during the year
- Alarm display to have your system under control.

BASIC WIRING DIAGRAM



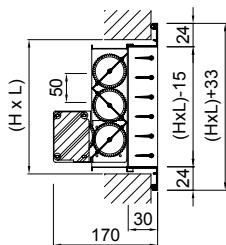
ZP-AZ

Motorized damper for grilles

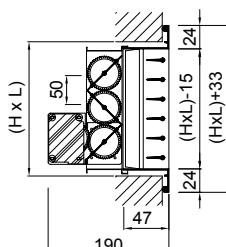


> Price-list p. 22

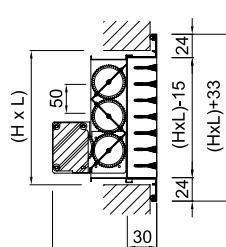
Motorized opposed blades volume damper (24 Vdc), suitable for **Zoning** grilles. Blades incorporate a PVC airtight joint. Constructed from aluminum, galvanized steel and gears from polyamide.



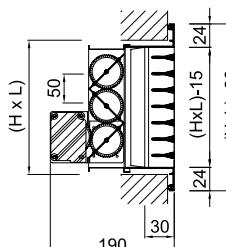
AMT-AN+ZP-AZ Damper with air supply single deflection grille from aluminum. Individually adjustable blades parallel to the largest side (L size).



CTM-AN+ZP-AZ Damper with air supply double deflection grille from aluminum. Individually adjustable blades, parallel to the largest side (L size) in the first row.



LMT+ZP-AZ Damper with air supply/return linear grille from aluminum. Fixed bars parallel to the largest side (L size).



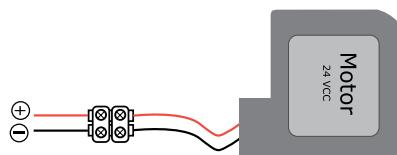
LMT-DD+ZP-AZ Damper with air supply linear grille from aluminum. Front bars parallel to the largest side (L size) and second row of individually adjustable blades parallel to the shortest side (H size).

TECHNICAL CHARACTERISTICS

ZP-AZ - ZC - ZR - ZQ

- Power supply 24 VDC
- Nominal Power 0.22W
- Nominal current intensity 55 mA
- Max current intensity 250 mA
- Protection class IP54

BASIC WIRING DIAGRAM



CONTROL PROTOCOL

To avoid damaging the actuator, the open and closing of the dampers is controlled by time (that is done by default in the **Zoning** control panels)

→ **OPEN:** 5 sec + 24 VCC

→ **CLOSE:** 5 sec - 24 VCC

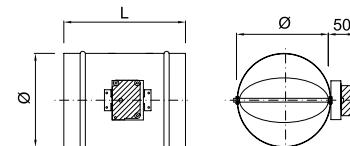
ZC, ZR i ZQ

Duct motorized damper



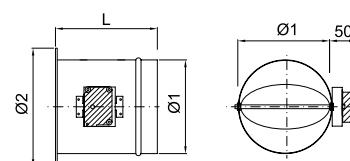
> Price-list p. 23

Motorized volume dampers (24 Vdc) suitable to control the air volume in ducts in **Zoning**.



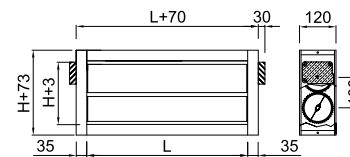
Ø	L
100	98
125	123
150	148
160	158
200	198
250	248
315	313

ZC Motorized circular damper. Constructed from galvanized steel and air tightness joint and bearings from rubber. Circular duct mounting.



Ø1	Ø2	L
100	98	118
125	123	143
150	148	168
160	158	178
200	198	218
250	248	268

ZR Motorized circular damper. Constructed from galvanized steel and air tightness joint and bearings from rubber. Incorporated in any plenum box.



ZQ Motorized square damper with blades of 100 mm, parallel to the largest side (L size). Constructed from aluminum and gears from polyamide. Rectangular duct mounting.

KBY

ZP-AZ, ZC, ZR, ZQ
Electronic pressure control

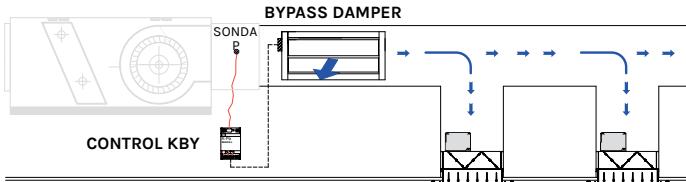


> Price-list p. 23

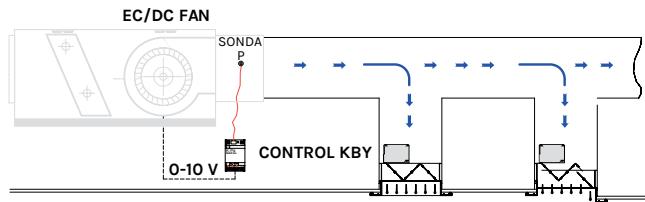
KBY pressure control module enables to set and maintain a constant pressure in a low and medium pressure duct network (20 to 300 Pa). The unit can act on a bypass damper (ZP-AZ, ZC/ZR/ZQ) by means of a 24 Vdc output or directly with a 0-10V output on an EC/DC fan, a frequency variator or a damper with a proportional motor.

The KBY unit includes a pressure sensor, a selection switch and a rotary switch, which enable you to easily set the pressure to be maintained.

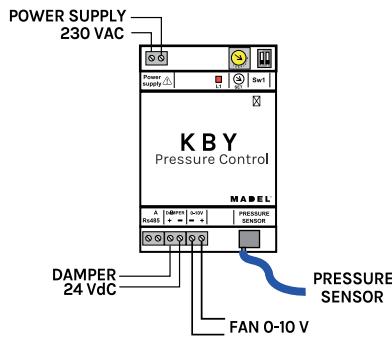
PRESSURE CONTROL ON BYPASS DAMPER



PRESSURE CONTROL ON EC/DC FAN



BASIC WIRING DIAGRAM



TECHNICAL CARACTERISTICS

- Power supply 230 Vca ± 10%, 50/60 Hz. Consumption: 4 VA
- 1 output 24 Vcc, for ZQ / ZC /ZR damper control
- 1 output 0-10 VDC , for EC motor control or proportional damper motor
- Pressure sensor
 - > Nominal measurement range 20 to 300 Pa
 - > Average precision ±5% with respect to set-point
- RS-485 communications bus
- Protection rating: IP 20

ZS, ZG i ZK

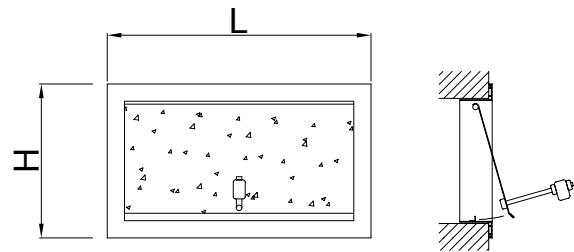
Mechanical by-pass dampers



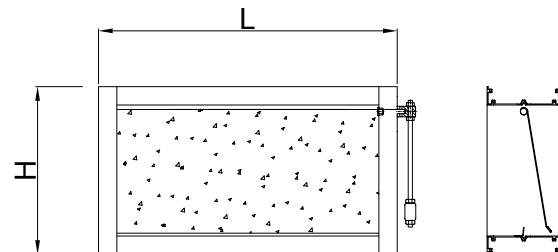
> Price-list p. 23

Adjustable pressure dampers by means of a counterbalance to maintain the pressure balance in the ductwork for **Zoning** System Constructed from aluminium and galvanised steel.

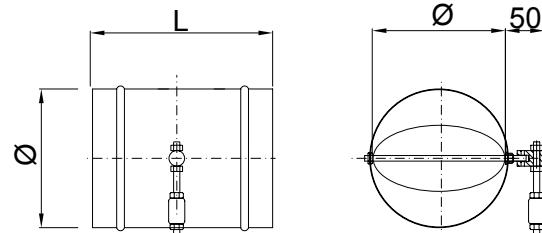
ZS Pressure damper for wall mounting by means of visible screws.



ZG Pressure damper for rectangular duct mounting.



ZK Pressure damper for circular duct mounting.



Ø	L
200	198
250	248
315	313
355	353
	335

P R T C E - H U S T

€

Direct expansion installation (DX)			Ducted 1x1	VRF DX	DX + Radiant Mixed	DX + Radiant Not Mixed		
Control panels	Radio	ZITY-RC	X	X	X ⁽¹⁾	X		
	Wired	ZITY-W	X	X	X ⁽¹⁾	X		
Expansion modules	ZITY-W/ME 7-12		X (7-12 zones)	X (7-12 zones)	X ⁽²⁾ (7-12 zones)	X (7-12 zones)		
	ZITY-W/ME 13-18		X (+12 zones)	X (+12 zones)	X ⁽²⁾ (+12 zones)	X (+12 zones)		
Combined control panels	Radio	ZITY-RC/MC			X			
	Wired	ZITY-W/MC			X			
Slave control panels	Radio	ZITY-RC/S				X		
	Wired	ZITY-W/S				X		
Accessories	Interface BOX		X	X (1 for unit)	X (1 for DX unit)	X (1 for DX unit)		
	NTC				X ⁽³⁾	X ⁽³⁾		
Description of the installation			Air conditioning ducted installations with DX interface	Air conditioning VRF ducted installation	Mixed installation of DX air conditioning units and radiant heating with radiators or under-floor heating			
					Mixed: Working modes Heating/Cooling, from de DX and the radiant units mixed in the same zone. Not mixed: The working modes form the DX and the radiant units do not coincide at the same zone.			

Hydronic installations			Fan-coil		Radiant		Air to water mixed	Air to water Not mixed		
	Single	Multiple	Single	Multiple						
Control panels	Wireless	ZITY-RC	X	X ⁽⁴⁾	X	X ⁽⁴⁾	X ⁽¹⁾	X		
	Wired	ZITY-W	X	X ⁽⁴⁾	X	X ⁽⁴⁾	X ⁽¹⁾	X		
Expansion modules	ZITY-W/ME 7-12		X (7-12 zones)	X (7-12 zones)	X (7-12 zones)	X (7-12 zones)	X (7-12 zones)	X (7-12 zones)		
	ZITY-W/ME 13-18		X (+12 zones)	X (+12 zones)	X (+12 zones)	X (+12 zones)	X ⁽²⁾ (7-12 zones)	X (+12 zones)		
Combined control panels	Wireless	ZITY-RC/MC					X			
	Wired	ZITY-W/MC					X			
Slave control panels	Wireless	ZITY-RC/S		X ⁽⁴⁾		X ⁽⁴⁾		X		
	Wired	ZITY-W/S		X ⁽⁴⁾		X ⁽⁴⁾		X		
Accessories	NTC		X ⁽⁵⁾		X ⁽⁵⁾		X ⁽⁵⁾	X ⁽⁵⁾		
Description of the installation			2/4 pipes ducted fan-coil installations		Radiant heating or cooling multizone installations		Mixed installation of DX air conditioning units and radiant heating with radiators or under-floor heating			
					Mixed: Working modes Heating/Cooling, from de air and the radiant units mixed in the same zone. Not mixed: The working modes form the air and the radiant units do not coincide at the same zone.					

⁽¹⁾ Ask for more information about how to mix both installations.

⁽²⁾ Only compatible with wireless systems y expansión de zonas.

⁽³⁾ 1 NTC for the heater and the other for underfloor heating.

⁽⁴⁾ In distributed installations. All ZITY should be master. In centralised installations one ZITY unit should be Master and the rest Slave.

⁽⁵⁾ 1 NTC for 2 pipes installations. And 2 NTC for 4 pipes installations or for remote mode control.

1 ZITY Control panel



Control panels

ZITY-RC 2-6 zones radio controlled control panel

ZITY-W 2-6 zones wired control panel

Zone expansion modules

ZITY-W/ME 7-12 Expansion module from 7 to 12 zones

ZITY-W/ME 13-18 Expansion modules from 13 to 18 zones

Control panel for combined installations

ZITY-RC/MC Wireless control panel for combined installations

ZITY-W/MC Wired control panel for combined installations

SLAVE control panels for centralized mode (heating/cooling) installations

ZITY-RC/S Wireless control panel SLAVE configuration

ZITY-W/S Wired control panel SLAVE configuration

Control panels	EUR
ZITY-RC	254,02 €
ZITY-W	213,77 €

Expansion Modules	EUR
ZITY/ME 7-12	213,77 €
ZITY/ME 13-18	213,77 €

Combined control panels	EUR
ZITY-RC/MC	254,02 €
ZITY-W/MC	213,77 €

Slave control panels	EUR
ZITY-RC/S	254,02 €
ZITY-W/S	213,77 €

2 Crono Thermostat



ZEBRA-B Wired Master/slave
Crono Thermostat

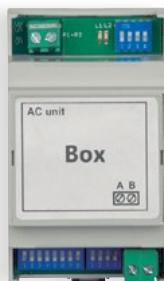


ZOE-RC Radio controlled
Master/slave Crono Thermostat

Crono-thermostat	EUR
ZEBRA-B	92,1 €
ZOE-RC	115,48 €

* The wireless ZOE-RC and the wired ZEBRA thermostats can not be combined in the same ZITY control panel.

3 AHU communication interface



DAIKIBOX For DAIKIN units

MITBOX For Mitsubishi Electric units

FUJIBOX For General-Fujitsu, Hiyasu and Fuji-electric units

HEAVYBOX For Mitsubishi Heavy Industries units

PANABOX For Panasonic units

TOSHIBOX For Toshiba units

LGBOX For LG units

HITABOX For Hitachi units

SAMBOX For Samsung units

MUNDOBOX For Mundoclima units

KAYBOX For Kaysun units

MIDEABOX For Midea units

CARBOX For Carrier units

MULTIBOX For units with XYE units

Interface	EUR
xxxBOX	226,01 €

* Specify the brand of the interface

Check disponibility: www.zoning.es / www.zoning.eu

4 CLOUD communication interface



NetBox Cloud communication interface

Interface	EUR
NetBox	280 €

5 NTC 10K temperature sensor

To use in installations without AHU interface, fan-coil or radiant water systems.

Sensor NTC	EUR
NTC10K	5,58 €

Motorised damper for grilles

ZP-AZ Motorised damper (24 Vdc) for grilles

AMT-AN Single deflection grille

CTM-AN Double deflection grille

LMT Linear grille

LMT-DD Linear grille with double deflection

CM Mounting frame from galvanised steel



L x H mm	ZP-AZ eur	AMT-AN eur	CTM-AN eur	Airflow MIN - MAX m³/h ms ms	LMT+ eur	LMT-DD+ eur	Airflow MIN - MAX m³/h ms ms	CM eur
200 x 100	75,04 €	8,28 €	12,77 €	110 180	13,08 €	17,52 €	70 120	1,90 €
250 x 100	75,28 €	9,16 €	14,39 €	140 220	14,08 €	19,24 €	90 150	2,06 €
300 x 100	75,54 €	10,10 €	16,28 €	160 270	15,19 €	21,44 €	110 190	2,18 €
350 x 100	75,81 €	11,89 €	18,81 €	190 320	17,08 €	24,83 €	- -	2,27 €
400 x 100	76,06 €	12,25 €	19,81 €	230 370	19,01 €	28,27 €	150 250	2,40 €
450 x 100	76,34 €	14,29 €	22,25 €	250 410	23,46 €	34,71 €	- -	2,52 €
500 x 100	76,58 €	14,70 €	23,14 €	270 450	14,39 €	19,27 €	190 320	2,60 €
600 x 100	77,11 €	18,10 €	28,78 €	330 540	15,56 €	21,22 €	240 390	2,96 €
200 x 150	77,13 €	10,16 €	15,45 €	170 280	16,88 €	23,71 €	120 210	2,02 €
250 x 150	77,52 €	10,80 €	16,78 €	210 350	19,10 €	27,68 €	160 260	2,14 €
300 x 150	77,84 €	11,91 €	19,03 €	260 420	23,47 €	31,70 €	200 340	2,27 €
350 x 150	78,31 €	14,00 €	22,23 €	300 490	26,74 €	39,21 €	- -	2,36 €
400 x 150	78,73 €	14,44 €	23,51 €	330 540	15,97 €	21,27 €	260 440	2,50 €
450 x 150	79,14 €	16,86 €	26,49 €	390 640	17,32 €	23,49 €	- -	2,60 €
500 x 150	79,57 €	17,19 €	32,70 €	440 700	18,78 €	26,28 €	340 550	2,72 €
600 x 150	80,38 €	20,53 €	32,70 €	540 870	21,38 €	30,78 €	410 670	3,06 €
200 x 200	79,21 €	12,31 €	18,06 €	230 380	24,06 €	35,38 €	170 280	2,12 €
250 x 200	79,76 €	13,70 €	20,52 €	290 480	30,16 €	43,91 €	220 370	2,25 €
300 x 200	80,30 €	15,06 €	23,33 €	360 580	18,81 €	24,97 €	370 450	2,38 €
350 x 200	80,88 €	17,20 €	26,54 €	420 680	20,56 €	27,75 €	- -	2,47 €
400 x 200	81,44 €	17,87 €	28,17 €	480 780	22,63 €	31,37 €	360 600	2,60 €
450 x 200	81,99 €	20,78 €	31,80 €	540 880	25,91 €	36,98 €	- -	2,74 €
500 x 200	82,53 €	21,38 €	33,15 €	610 980	29,33 €	42,71 €	460 760	2,84 €
600 x 200	83,10 €	24,90 €	38,91 €	730 1190	36,92 €	53,19 €	560 910	3,17 €
250 x 250	81,98 €	15,52 €	23,20 €	370 610	24,10 €	32,31 €	270 450	2,38 €
300 x 250	82,68 €	17,16 €	26,37 €	450 740	26,33 €	36,33 €	340 570	2,52 €
400 x 250	84,12 €	20,99 €	33,26 €	500 810	30,57 €	43,30 €	460 760	2,76 €
500 x 250	85,50 €	25,78 €	39,98 €	770 1240	35,45 €	50,97 €	580 950	2,96 €
600 x 250	86,90 €	29,73 €	46,73 €	930 1500	44,68 €	63,51 €	700 1150	3,30 €

ZP-AZ 2X1 Motorised damper (24 Vdc)

for supply and return in the same grille

Damper length =grille length/2



L x H mm	AMT-AN+ ZP-AZ eur	CTM-AN+ ZP-AZ eur	Airflow MIN - MAX m³/h ms ms	LMT+ eur	LMT-DD+ eur	Airflow MIN - MAX m³/h ms ms	CM eur
400 x 100	87,29 €	94,85 €	110 180	92,12 €	99,87 €	70 120	2,40 €
500 x 100	89,97 €	98,42 €	140 220	94,29 €	103,55 €	90 150	2,60 €
600 x 100	93,64 €	104,32 €	160 270	99,00 €	110,25 €	110 190	2,96 €
800 x 100	99,54 €	115,20 €	230 370	104,45 €	119,61 €	150 250	2,02 €
1000 x 100	104,37 €	122,42 €	270 450	111,70 €	129,92 €	190 320	2,14 €
400 x 150	91,57 €	100,64 €	170 280	98,51 €	107,91 €	120 210	2,50 €
500 x 150	94,71 €	105,30 €	210 350	101,58 €	112,90 €	160 260	2,72 €
600 x 150	98,37 €	110,54 €	260 420	107,99 €	121,75 €	200 340	3,06 €
800 x 150	106,20 €	125,31 €	330 540	115,25 €	133,75 €	260 440	2,12 €
1000 x 150	112,43 €	134,50 €	440 700	125,35 €	147,76 €	340 550	2,25 €
400 x 200	97,07 €	107,38 €	230 380	105,12 €	116,19 €	170 280	2,60 €
500 x 200	101,14 €	112,90 €	290 480	109,08 €	122,47 €	220 370	2,84 €
600 x 200	105,20 €	119,21 €	360 580	117,22 €	133,49 €	370 450	3,17 €
800 x 200	115,13 €	137,12 €	480 780	126,21 €	148,05 €	480 780	2,38 €
1000 x 200	123,47 €	148,76 €	610 980	139,05 €	165,70 €	460 760	2,52 €
500 x 250	107,76 €	121,95 €	370 610	117,43 €	132,95 €	270 450	2,76 €
600 x 250	112,40 €	129,41 €	450 740	127,36 €	146,19 €	460 760	2,96 €
800 x 250	122,56 €	148,04 €	500 810	137,54 €	162,78 €	580 950	3,30 €
1000 x 250	132,20 €	161,45 €	770 1240	153,67 €	184,60 €	700 1150	3,30 €

* Consult for other dimensions and models

Duct or plenum motorised dampers ZC / ZR / ZQ

Motorised volume dampers (24 Vdc) suitable to control the air volume in ducts in **Zoning** installations.



ZC Circular duct mounting

ZR With flange for plenum mounting

/AIS External isolation layer 5 mm for ZC/ZR dampers
(+15% supplement)



ZQ Motorised square damper (24 Vdc) for rectangular duct mounting.

Ø mm	ZC / ZR eur	Airflow MIN - MAX m³/h	
100	74,21 €	100	170
125	75,45 €	170	270
150	76,52 €	254	380
160	76,72 €	280	440
200	77,94 €	450	680
250	79,21 €	700	1100
315	81,71 €	1100	1680

L x H mm	ZC / ZR eur	Airflow MIN - MAX m³/h	
200 x 100	101,33 €	250	440
300 x 100	106,76 €	430	650
400 x 100	111,26 €	570	870
500 x 100	115,77 €	720	1100
600 x 100	120,29 €	850	1300
200 x 150	108,31 €	430	640
300 x 150	113,72 €	640	970
400 x 150	118,73 €	860	1295
500 x 150	123,68 €	1080	1600
600 x 150	128,67 €	1295	1940
200 x 200	115,31 €	570	870
300 x 200	120,72 €	860	1300
400 x 200	126,17 €	1150	1750
500 x 200	131,63 €	1440	2200
600 x 200	137,06 €	1700	2600
800 x 200	147,94 €	2300	3500

* Consult for other dimensions and models

Electronic pressure control

KBY Pressure control Module (range 50 to 300 Pa). Calibration of pressure by turning a knob. Possible action on the actuators of ZQ / ZC/ZR dampers or directly with a 0-10V output to the EC type fans

ZQ/ZC/ZR Airtight motorised dampers for rectangular/circular or plenum mounting. Requires pressure control module KBY to act as bypass



Pressure control	EUR
KBY	121,26 €

Mechanical By-pass dampers

ZS Pressure damper for wall mounting by means of visible screws

ZG Pressure damper for rectangular duct mounting

ZK Pressure damper for circular duct mounting



Ø mm	ZK eur	Q Airflow internal unit m³/h
200	33,57 €	750-1000
250	33,13 €	1250-1500
315	36,32 €	1750-2000
355	38,84 €	2250-2500

L x H mm	ZS eur	Q Un. interior m³/h	L x H mm	ZG eur	Q Airflow internal unit m³/h
400 x 100	27,96 €	600-750	300 x 100	37,55 €	600-750
300 x 150	27,41 €	850-1000	400 x 100	40,81 €	850-1000
400 x 150	28,05 €	1000-1250	500 x 100	44,02 €	1000-1250
500 x 150	29,63 €	1200-1500	400 x 150	42,13 €	1200-1500
400 x 200	28,72 €	1500-1750	500 x 150	45,44 €	1500-1750
450 x 200	29,80 €	1700-2000	400 x 200	43,43 €	1700-2000
600 x 200	31,58 €	2100-2500	500 x 200	46,80 €	2100-2500
500 x 250	31,29 €	2500-3000	500 x 250	48,19 €	2500-3000
600 x 250	32,65 €	3000-3500	500 x 300	49,58 €	3000-3500
600 x 300	33,76 €	3400-4000	600 x 250	51,61 €	3400-4000
2 Ud. 500 x 200	60,79 €	3800-4500	600 x 300	53,04 €	3800-4500
2 Ud. 600 x 200	63,15 €	4200-5000	2 Ud. 500 x 200	93,58 €	4200-5000
2 Ud. 500 x 250	62,61 €	4700-5500	2 Ud. 600 x 200	100,29 €	4700-5500
2 Ud. 600 x 250	65,23 €	5100-6000	2 Ud. 500 x 250	96,38 €	5100-6000

* Consult for other dimensions and models

ZmartBox. Zoning Plug&Play

ZmartBox consists of a kit of control Zoning (control panel+thermostats communication interface) and a splitter plenum box (2 to 6 powered outputs +by pass if applicable) compatible with most indoor air conditioning ducted type unit. The Zmartbox set comes fully wired, configured and ready to be installed on site



/DX For Direct expansion units. Communication interface with the unit included

/FC For Fan-coil installations. NTC sensor included for water temperature control

/RC Wireless Radio-controlled Kit. ZITY-RC control panel + ZOE-RC wireless thermostats

/W Wired kit. ZITY-W control panel + ZEBRA-B wired thermostats

/KBY Includes KBY pressure control + ZC/ZQ/ZR motorized damper

Plenum boxes to adapt to ducted units

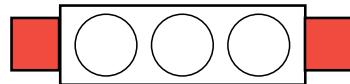
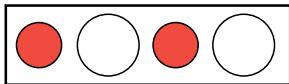
PLZON Plenum for ducted AHU for motorised and by pass dampers

PLMAC Plenum wit circular spigots for ducted AHU

	N. zones D150/160					N. zones D200				
	2 z eur	3 z eur	4 z eur	5 z eur	6 z eur	2 z eur	3 z eur	4 z eur	5 z eur	6 z eur
ZmartBox/DX/RC	1.243,91 €	1.446,01 €	1.649,51 €	1.851,62 €	2.055,12 €	1.267,64 €	1.480,78 €	1.696,72 €	1.909,86 €	2.125,80 €
ZmartBox/DX/W	1.156,90 €	1.335,62 €	1.515,74 €	1.694,47 €	1.874,59 €	1.180,63 €	1.370,39 €	1.562,95 €	1.752,71 €	1.945,27 €
ZmartBox/FC/RC	1.017,90 €	1.220,00 €	1.423,50 €	1.625,61 €	1.829,11 €	1.041,63 €	1.254,77 €	1.470,71 €	1.683,85 €	1.899,79 €
ZmartBox/FC/W	930,89 €	1.109,61 €	1.289,73 €	1.468,46 €	1.648,58 €	954,62 €	1.144,38 €	1.336,94 €	1.526,70 €	1.719,26 €
.../KBY	190,65 €	190,65 €	190,65 €	190,65 €	190,65 €	190,65 €	190,65 €	190,65 €	190,65 €	190,65 €
PLMAC	160,97 €	171,66 €	182,35 €	193,03 €	203,71 €	195,00 €	206,93 €	218,87 €	230,81 €	280,99 €
PLZON	427,72 €	508,13 €	588,53 €	668,96 €	749,36 €	452,04 €	543,76 €	636,92 €	728,65 €	821,81 €

* Supplement for special manufacturing (SP) + 126,8 €

CONSULT FOR OTHER DIMENSIONS SPECIAL CONFIGURATIONS



ORDER INFORMATION

ZMARTBOX	/	1	/	2	/	3	/	4	/	5	/	6	/	7	/	8
PLMAC	/	3	/	4	/	7										
PLZON	/	3	/	4	/	5	/	6	/	7						

1. Unit type:

- **DX:** Direct expansion
- **FC:** Fan coil

2. Communication type with thermostats

- **RC:** Wireless radio controlled
- **W:** Wired

3. Number of zones

4. Motorised damper diameter

5. By-pass type:

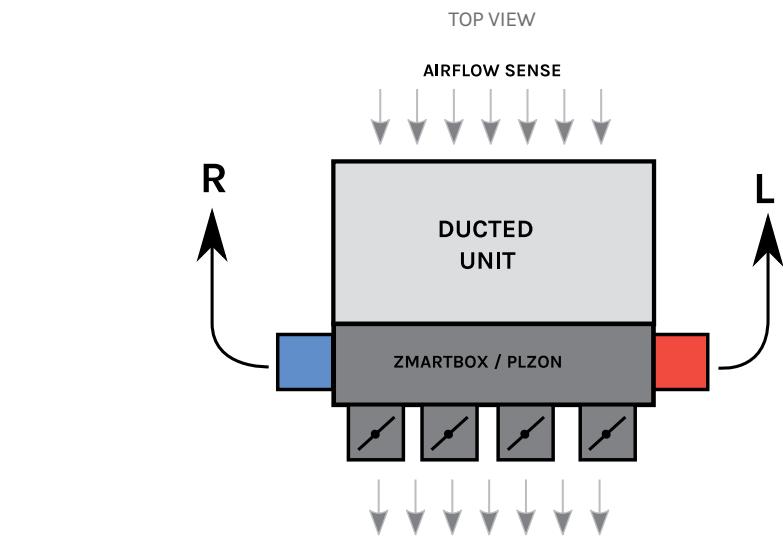
- **ZK:** circular
- **ZS:** rectangular
- **ZC:** circular motor
- **ZQ:** rectangular motor

6. By-pass side

- **L:** Left
- **R:** Right

7. Unit: Brand and model of the unit to fit the ZmartBox

8. ST / SP



SELECTION TABLE

ZMARTBOX / PLZON / PLMAC are compatible with any concealed ducted unit. The next table shows the most common units. For any other brand/model please consult.

ST Standar models

ST (1) Standar model but with airflow problem. The ducted unit supplies more airflow than the advised for the motorised dampers

SP Special models. The PLZON plenum box is bigger than the ducted unit. It require and adapter. Apply the supplement SP for the price

MARCA	MODELO	N. zones D150/160					N. zones D200				
		2 z	3 z	4 z	5 z	6 z	2 z	3 z	4 z	5 z	6 z
FUJITSU GENERAL	AR*G 12/14 LLTB	ST	ST	SP	SP	SP	SP	SP	SP	SP	SP
	AR*G 18 LLTB	ST	ST	ST	SP	SP	SP	SP	SP	SP	SP
	AR*G 24 LML	ST	ST	ST	ST	SP	ST	ST	ST	SP	SP
	AR*G 30/36/45 LML	ST (1)	ST (1)	ST	ST	SP	ST	ST	ST	SP	SP
DAIKIN	FBQ/ FBA 50 D	ST	ST	SP	SP	SP	ST	SP	SP	SP	SP
	FBQ/ FBA 60/71D	ST	ST	ST	ST	SP	ST	ST	ST	SP	SP
	FBQ/ FBA 100D	ST (1)	ST (1)	ST	ST	SY	ST	ST	ST	ST	SP
MITSUBISHI ELECTRIC	SEZ -KD 35/50 VA(L)	ST	ST	ST	SP	SP	SP	SP	SP	SP	SP
	SED-KD 60/71 VA(L)	ST	ST	ST	ST	SP	SP	SP	SP	SP	SP
	PEAD-RP 35/50 JA (Q)	ST	ST	ST	SP	SP	ST	ST	SP	SP	SP
	PEAD-RP 60 JA (Q)	ST	ST	ST	SP	SP	ST	ST	ST	SP	SP
	PEAD-RP 70 JA (Q)	ST (1)	ST (1)	ST	ST	SP	ST	ST	ST	SP	SP
	PEAD-RP 100JA (Q)	ST (1)	ST (1)	ST	ST	ST	ST	ST	ST	ST	SP
MITSUBISHI HEAVY INDUSTRIES	FDUM 50 VF	ST	ST	SP	SP	SP	ST	ST	SP	SP	SP
	FDUM 60 VF	ST	ST	ST	SP	SP	ST	ST	ST	SP	SP
	FDUM 70 VF	ST (1)	ST (1)	ST	SP	SP	ST	ST	ST	SP	SP
	FDUM100 VF	ST (1)	ST (1)	ST	ST	ST	ST	ST	ST	ST	SP
LGe	CB 18	ST	ST	ST	ST	SP	ST	ST	ST	ST	SP
	UB 21/24	ST (1)	ST (1)	ST	ST	SP	ST	ST	ST	ST	SP
	UB 36	ST (1)	ST (1)	ST	ST	ST	ST	ST	ST	ST	SP
	CM 18	ST	ST	ST	SP	SP	ST	ST	SP	SP	SP
	UM 24	ST	ST	ST	SP	SP	ST	ST	SP	SP	SP
	UM 30	ST (1)	ST (1)	ST	SP	SP	ST	ST	SP	SP	SP
	UM 36	ST (1)	ST (1)	ST	ST	ST	ST	ST	ST	ST	SP
PANASONIC	PF 36-50	ST	ST	ST	SP	SP	ST	ST	SP	SP	SP
	PF 60	ST	ST	ST	ST	SP	ST	ST	ST	SP	SP
	PF 71	ST	ST	ST	ST	SP	ST	ST	ST	SP	SP
	PF100	ST (1)	ST (1)	ST	ST	ST	ST	ST	ST	ST	SP
	PF 125	ST (1)	ST (1)	ST	ST	ST	ST (1)	ST (1)	ST	ST	SP
	PN(Y) 36-50	ST	ST	ST	SP	SP	ST	ST	SP	SP	SP
	PN(Y)60	ST	ST	ST	ST	SP	ST	ST	ST	SP	SP
	PN(Y) 71	ST (1)	ST (1)	ST	ST	SP	ST	ST	ST	SP	SP
	PN(Y) 100	ST (1)	ST (1)	ST	ST	ST	ST (1)	ST (1)	ST	ST	SP
	PN(Y)125	ST (1)	ST (1)	ST	ST	ST	ST (1)	ST (1)	ST	ST	SP
TOSHIBA	RAV 566 BTE	ST	ST	SP	SP	SP	ST	ST	SP	SP	SP
	BTE 806	ST	ST	ST	ST	SP	ST	ST	ST	SP	SP
	BTE 1106	ST (1)	ST (1)	ST	ST	ST	ST (1)	ST (1)	ST	ST	ST
HITACHI	RPI 2 FSN4E	ST	ST	ST	ST	SP	ST	ST	SP	SP	SP
	RPI 2,5 FSN4E	ST	ST	ST	ST	SP	ST	ST	ST	SP	SP
	RPI3 FSN4E	ST (1)	ST	ST	ST	SP	ST	ST	ST	SP	SP
	RPI4 FSN4E	ST (1)	ST	ST	ST	ST	ST	ST	ST	ST	ST
	RPI5 FSN4E	ST (1)	ST (1)	ST	ST	ST	ST (1)	ST	ST	ST	ST

Return grilles



DMT-AR Air return grilles with fixed blades at 45° constructed from aluminium. Grille with blades parallel to the largest side (L size)

EMT-AR Air return grilles with fixed blades at 45° constructed from aluminium. Grille with blades parallel to the shortest side (H size)

FIXING

(S) Clips. It requires mounting frame CM

(O) Hidden screw. It requires mounting frame CM
(supplement 2,54 €)

L x H mm	DMT-AR eur	EMT-AR eur	SP eur	CM eur	Airflow MIN - MAX m ³ /h
200 x 100	9,27 €	10,43 €	5,78 €	1,90 €	55-120 160
300 x 100	11,30 €	13,38 €	7,76 €	2,18 €	80-185 230
350 x 100	12,72 €	14,64 €	8,87 €	2,27 €	90-200 260
400 x 100	13,65 €	16,24 €	9,75 €	2,42 €	110-230 310
500 x 100	15,72 €	19,78 €	11,73 €	2,60 €	140-300 390
200 x 150	11,33 €	11,95 €	6,32 €	2,01 €	85-175 230
300 x 150	13,45 €	15,48 €	8,51 €	2,27 €	130-270 360
400 x 150	15,77 €	18,87 €	10,43 €	2,50 €	170-360 475
500 x 150	18,32 €	23,00 €	12,56 €	2,72 €	225-455 605
300 x 200	16,03 €	17,60 €	9,11 €	2,39 €	175-365 490
350 x 200	18,32 €	19,51 €	10,11 €	2,48 €	210-430 580
400 x 200	19,01 €	21,69 €	11,13 €	2,60 €	235-500 660
500 x 200	22,24 €	26,53 €	13,40 €	2,84 €	300-620 830
600 x 200	28,60 €	30,18 €	15,52 €	3,17 €	360-750 1010
400 x 300	26,00 €	27,09 €	12,75 €	2,90 €	360-760 1010
500 x 300	31,11 €	33,71 €	15,42 €	3,11 €	460-960 1275
600 x 300	38,35 €	38,58 €	17,82 €	3,45 €	560-1160 1540

* Consult for other dimensions and models

Return grilles with KLIN SYSTEM



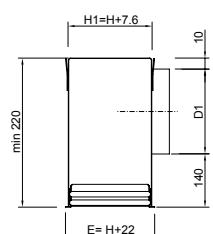
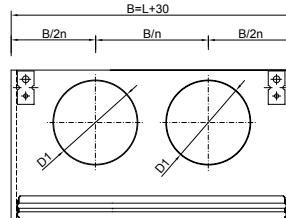
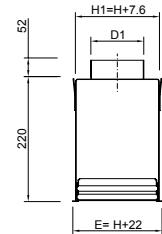
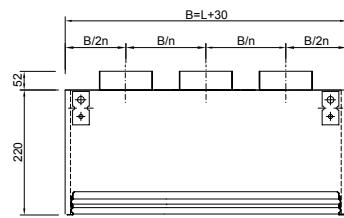
DMT-KLIN Air return grille with fixed blades

DFZ-R Perforated return grille



L x H mm	DFZ-R eur	DMT-KLIN eur	PFT eur	PLK/L eur
600 x 300	36,76 €	54,84 €	15,09 €	47,71 €
600 x 600	44,08 €	81,28 €	22,93 €	52,81 €
800 x 400	51,42 €	94,85 €	22,93 €	61,24 €

Plenum box for grilles



PLAZ/S Plenum box with circular connection, H=220 mm. (S) and (O) fixing allowed. For ceiling or wall mounting.

PLAZ/L Plenum box with lateral connection

/AIS Thermo-acoustical insulation (supplement +35%)

L x H mm	PLAZ			
	100	150	200	250
200	34,04 €	36,03 €	38,57 €	-
250	35,38 €	38,60 €	40,10 €	42,18 €
300	37,84 €	40,21 €	41,74 €	43,88 €
350	38,87 €	41,32 €	44,60 €	46,90 €
400	40,31 €	42,88 €	46,23 €	48,60 €
450	42,30 €	44,26 €	47,73 €	50,15 €
500	43,59 €	45,61 €	49,22 €	51,69 €
600	46,40 €	49,53 €	52,40 €	54,96 €
800	58,34 €	61,88 €	63,95 €	67,80 €
1000	63,96 €	67,88 €	71,40 €	71,40 €

L x H mm	Side spigot / Ø			
	100	150	200	250
200	1/123	1/158	1/198	-
250	1/123	1/198	1/198	1/198
300	1/158	1/198	1/198	1/198
350	1/158	1/198	1/198	1/248
400	1/158	1/198	1/248	1/248
450	1/198	1/198	1/248	1/248
500	1/198	1/198	1/248	1/248
600	1/198	2/198	1/248	1/248
800	2/198	2/198	2/248	2/248
1000	2/198	2/198	2/248	2/248

L x H mm	Top spigot / Ø			
	100	150	200	250
200	1/98	1/148	1/198	-
250	1/98	1/148	1/198	1/198
300	1/98	1/148	1/198	1/248
350	1/98	1/148	1/198	1/248
400	1/98	1/148	1/198	1/248
450	1/98	1/148	1/198	1/248
500	1/98	1/148	1/198	1/248
600	2/98	2/148	1/198	1/248
800	2/98	2/148	1/198	1/248
1000	2/98	2/148	2/198	1/248

NTC sensor



NTC Temperature sensor NTC 10k suitable for ZITY, KSP, KCA control panels

5,58 €

Wind Cable



Wind of 100 m of cable (red/black 2x0,75) for the actuators connection

58,46 €



CAB Wind of 100 m of shielded cable (4 x 0,5) for ZEBRA thermostats

152,16 €

Antenna 433/434 Mhz



Antenna for radio reception 433/434 Mhz, suitable for ZITY, KSP and KRCPLUS control panels

34,54 €

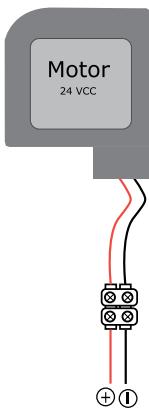
Antenna extender



5 m extender for Zoning systems antennas

45,42 €

Spare part motors



ZP motor: for grille motorized dampers type ZP-AZ

58,46 €

ZC motor: For circular motorized dampers type ZC/ZR

58,46 €

ZQ motor: For rectangular motorized dampers type ZQ

55,62 €

Electrical Enclosure



CIP Insulating IP40 modular box with incorporated DIN rail. Allows to protect the control panels from dust and humidity in aggressive atmospheres

57,83 €

ON/OFF Connection packs



Set of connectors for the interconnection between Zoning control panels and ducted air handling units (AHU). For units not compatibles with AHU interfaces

MIT Pack Compatible with conventional and inverter type MITSUBISHI ELECTRIC units

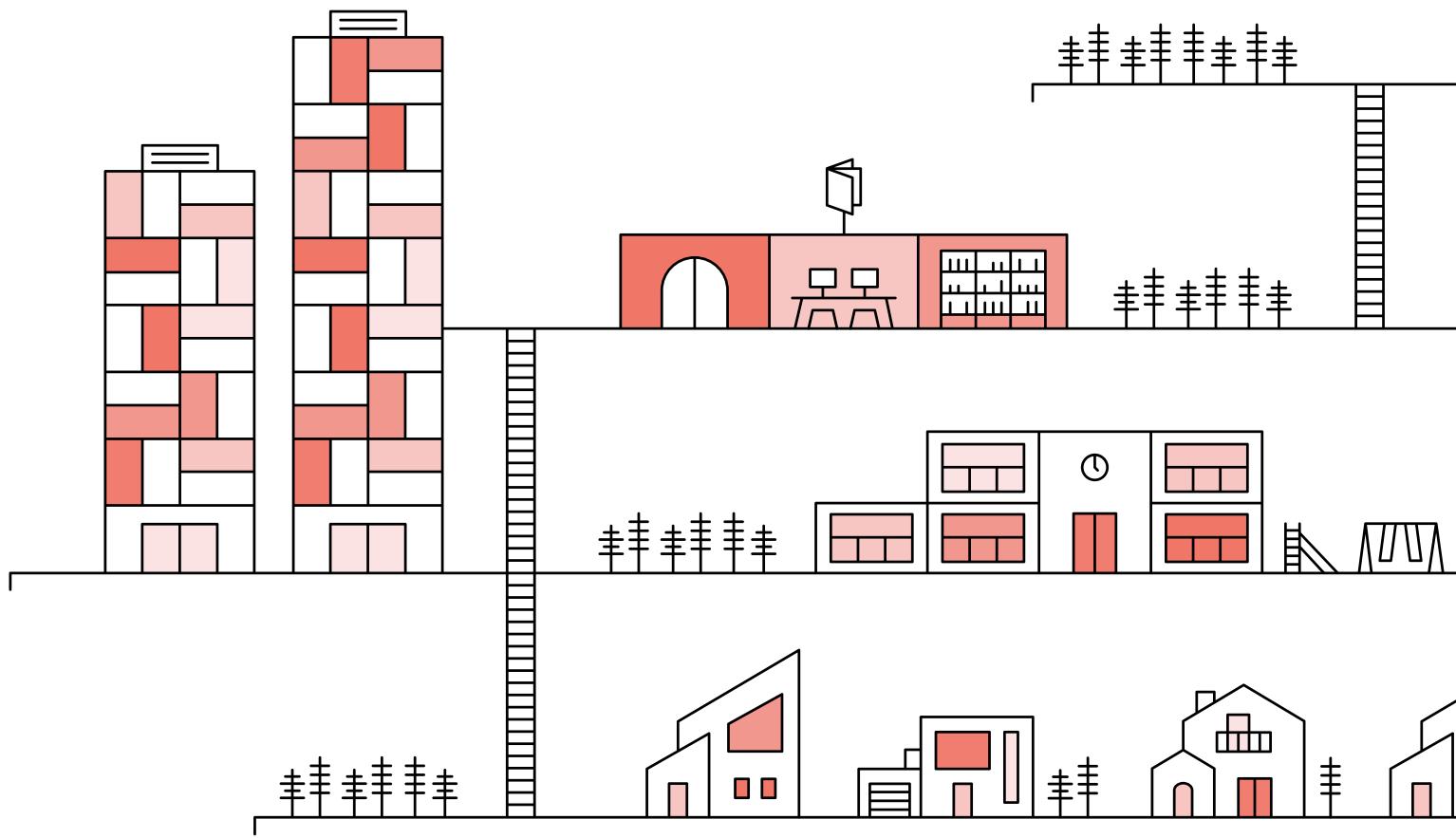
18,06 €

EKO Pack Compatible with conventional and inverter type (except VRV and FDXS, CDXS) DAIKIN and conventional and inverter units of PANASONIC Semi-industrial or VRV

13,54 €

GEN Pack Compatible with conventional and inverter type (powers from 24 to 54 of R410A) GENERAL, FUJITSU, FUJI-ELECTRIC, HIYASU. Also compatible with A CLASS models of such manufacturers

19,97 €



ZONING

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