

ZmartBox

#ZoningSystem #Plug&Play

ZONING
SYSTEM



MADEL®

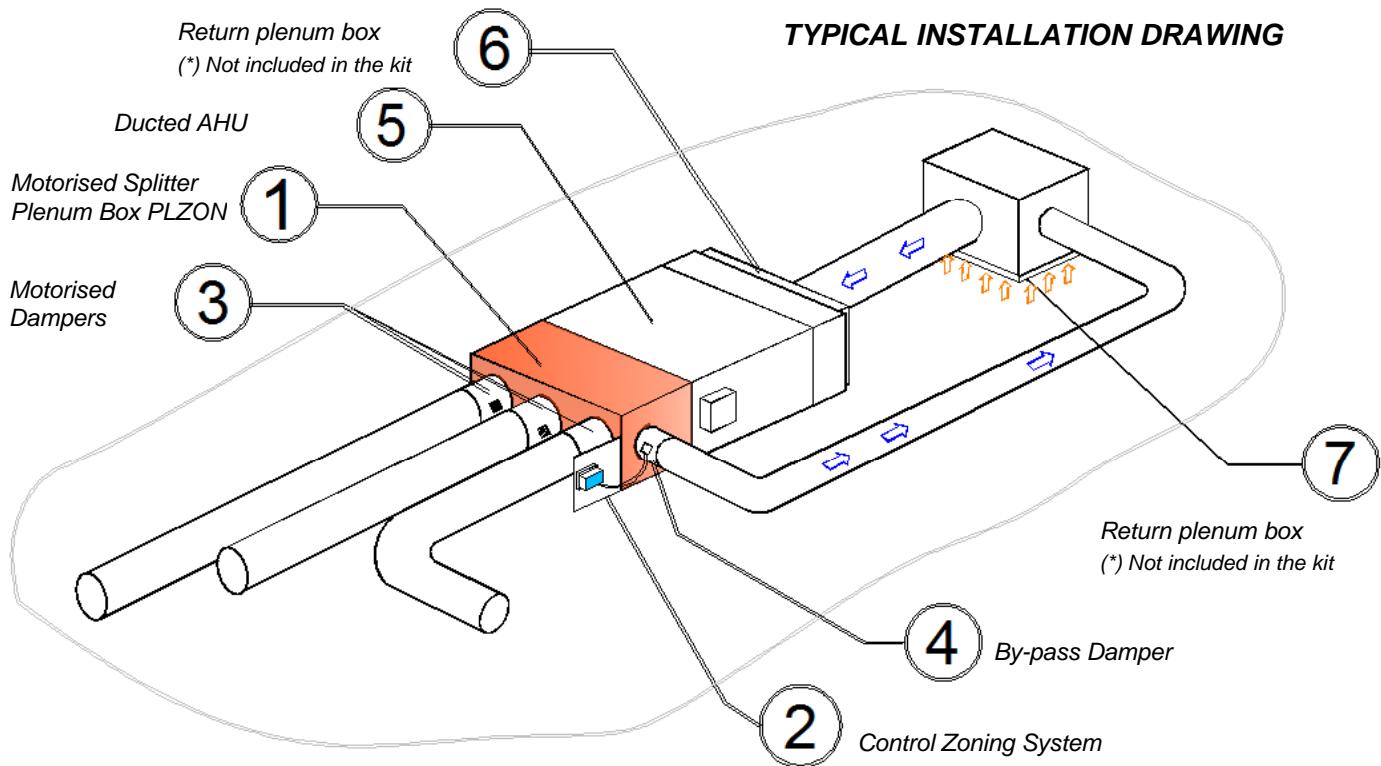
We shape the air



The zoning kit **ZmartBox** increases the comfort and reduces energy consumption for residential and commercial A/C systems by allowing temperature to be independently controlled from each zone by a single ducted air handling unit.

ZmartBox consists of a kit of control **Zoning System** (central + thermostats + communication interface) and a splitter plenum box (2 to 6 powered outputs + by pass if applicable) compatible with most indoor air conditioning duct type unit (*).

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



1 3



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

(*) See table of compatible units and maximum number of outputs per machine.

2



Control Zoning System: Includes KSP control panel, thermostat models Chrono-TM and TZ-temp and communication interface with the corresponding indoor unit. Comes wiring, configured and mounted inside an IP55 waterproof case.

4



By-pass damper: Circular type ZK or rectangular type ZS, or motorised with KBY control, ZC or ZQ type as per customer specification. Sized according to minimum flow of the indoor unit.



PRICE-LIST:

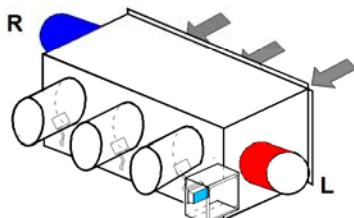
Zmartbox: Includes PLZON + Control panel KSP + Master Thermostat Crono-TM + Zone Thermostats TZ-temp + Communication Interface + By-pass damper ZS/ZK

Zmartbox	Nº zones φ160					Nº zones φ200				
	Size	2 eur	3 eur	4 eur	5 eur	6 eur	2 eur	3 eur	4 eur	5 eur
1	1100,39	1283,50	-	-	-	-	1121,09	-	-	-
2	1118,55	1301,65	1484,76	-	-	-	1141,84	1326,08	-	-
3	1140,61	1323,72	1506,82	1689,93	-	-	1167,10	1351,35	1535,59	-
4	1167,17	1350,28	1533,38	1716,49	1899,59	-	1198,10	1382,34	1566,59	1750,83

Zmartbox/KBY: Includes PLZON + Control panel KSP + Master Thermostat Crono-TM + Zone Thermostats TZ-temp + Communication Interface + constant pressure kit KBY+ZC/ZQ

Zmartbox/KBY	Nº zones φ160					Nº zones φ200				
	Size	2 eur	3 eur	4 eur	5 eur	6 eur	2 eur	3 eur	4 eur	5 eur
1	1288,08	1471,19	-	-	-	-	1308,78	-	-	-
2	1306,24	1489,34	1672,45	-	-	-	1329,53	1513,77	-	-
3	1328,30	1511,41	1694,51	1877,62	-	-	1354,79	1539,04	1723,28	-
4	1354,86	1537,97	1721,07	1904,18	2087,28	-	1385,79	1570,03	1754,28	1938,52

Ordering information :



ZmartBox / Size /NºZones/ diam / BP / SIDE + Machine model

ZmartBox / KBY / Size /NºZones/ diam / BP / SIDE + Machine model

Size. Refer to the above tables. 1 – 2 – 3 – 4

NZ. Number of zones to be controlled (From 2 to 5)

Diam: Diameter of dampers (160 or 200 mm)

BP: By-pass damper type:

ZK: Circular. **ZS:** Rectangular. **ZC:** Motorised Circular. **ZQ:** Motorised Rectangular.

SIDE: Output side of the by-pass and the control box. **L:** Left. **R:** Right. (see drawing)

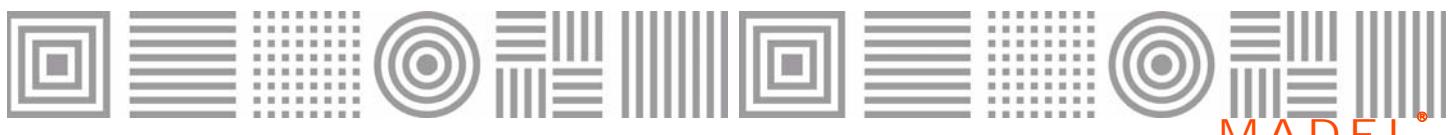
Machine Model: Enter the model of the indoor unit to adapt to the set.

COMPATIBLE UNITS :

Consult for other models or configurations.

Model	Size	Nº zones φ160	Nº zones φ200	Model	Size	Nº zones φ160	Nº zones φ200
Mitsubishi Electric				Mitsubishi Heavy Industries			
SEZ-KD25VA(L)	1	2 ... 3	2 (*)	FDUH 22/36 KXE6	1	2	consult
SEZ-KD 35 / 50 VA(L)	2	2 ... 4	2 ... 3 (*)	FDUM 22/28/56 KXE6	1	2 ... 3	2
SEZ-KD 60 / 71 VA(L)	3	2 ... 5	2 ... 4 (*)	FDUM 71/91 KXE6	2	2 ... 4	2 ... 3
PEAD-RP35-50JA / JAL	2	2 ... 4	2 ... 3 (*)	FDUM 112/140 KXE6	4	2 ... 5	2 ... 4
PEAD-RP60-71JA / JAL	3	2 ... 5	2 ... 4 (*)	FDU 71 VD	3	2 ... 4	2 ... 3
PEAD-RP 100-125JA	4	2 ... 6	2 ... 5 (*)	FDU 100/125/140 VD	4	2 ... 6	2 ... 5
PEAD-RP140JA	4	2 ... 6	2 ... 5 (*)	FDU 71 KXE6	2	2 ... 4	2 ... 3
PEFY-P20-36 VMA-E	1	2 ... 3	2 (*)	FDU 90/140 KXE6	4	2 ... 6	2 ... 5
PEFY-P40-50VMA-E	2	2 ... 4	2 ... 3 (*)	FDU 224/280 KXE6	4	2 ... 6	2 ... 5
PEFY-P63-80VMA-E	3	2 ... 5	2 ... 4 (*)	Panasonic			
PEFY-P100-125VMA-E	4	2 ... 6	2 ... 5 (*)	S-36/45/50 PF1E5	1	2 ... 3	2 (*)
PEAD-RP35-50EA	3	2 ... 4	2 ... 3 (*)	S-60/71 PF1E5	2	2 ... 4	2 ... 3 (*)
PEAD-RP60EA	3	2 ... 4	2 ... 4 (*)	S 100/125/140 PF1E5	3	2 ... 5	2 ... 4 (*)
PEAD-RP60-71GA	3	2 ... 4	2 ... 4 (*)	S-22/28/36/45/56 MF2E5	1	2 ... 3	2 (*)
DAIKIN				S-60/73/90 MF2E5	2	2 ... 4	2 ... 3 (*)
FBQ 35/50 B/C	1	2	2	S-106/140/160MF2E5	3	2 ... 5	2 ... 4 (*)
FBQ 60/71 B/C	2	2 ... 3	2 ... 3	S-36/45/50 PN1E5	2	2 ... 3	2 (*)
FBQ 100/125 B/C	3	2 ... 4	2 ... 4	S-60/71 PN1E5	3	2 ... 4	2 ... 3 (*)
FUJITSU-GENERAL				S-100/125/140 PN1E5	4	2 ... 5	2 ... 4 (*)
ACY 35/40 UIA/UIB-LL	1	2 ... 3	2 (*)	Toshiba			
ACG 12/15/18 UIA/UIB-LL	1	2 ... 3	2 (*)	MMD-AP 54/74/94/124/154/184 SPH-E	2	2 ... 4	2 ... 3 (*)
ACY 50 UIA/UIB-LL	2	2 ... 4	2 ... 3 (*)	MMD-AP 244/274 SPH-E	3	2 ... 5	2 ... 4 (*)
ACG 18 UIA/UIB-LL	2	2 ... 4	2 ... 3 (*)	RAV-SM 40/45/56 6BT	1	2 ... 3	2 (*)
ACY 71/80/100/125 UIA/UIB-LL	3	2 ... 4	2 ... 4	RAV-SM 80 6BT	2	2 ... 4	2 ... 3 (*)
ACG 24/30/36/45 UIA/UIB-LL	3	2 ... 4	2 ... 4	RAV-SM 110/140/160 6BT	4	2 ... 6	2 ... 5 (*)

(*) Height of PLZON higher than the indoor unit. Check available space.



Custom made... devices sold separately. The connection and configuration are not included.

PLZON: Plenum to adapt to indoor ducted units of low silhouette. Includes plenum box + motorised circular dampers ZC + By-pass dampers ZK/ZS. See table for compatible units in previous page.

PLZON	Nº zones φ160					Nº zones φ200				
	Size	2 eur	3 eur	4 eur	5 eur	6 eur	2 eur	3 eur	4 eur	5 eur
1	375,22	449,93	-	-	-	395,92	-	-	-	-
2	388,15	462,87	537,58	-	-	411,44	487,30	-	-	-
3	404,17	478,88	553,60	-	-	430,66	506,52	582,37	-	-
4	426,34	501,05	575,77	650,48	725,19	457,27	533,12	608,97	684,83	-



ZONING SYSTEM: Set of control panel+ thermostats of **Zoning System** for the independent control from each zone.

KIT	2 eur	3 eur	4 eur	5 eur	6 eur	CIP eur
MODEL						
KIT KCA	323,12	395,95	468,79	541,62	614,46	18,42
KIT KSP	442,00	550,39	658,79	767,18	875,57	18,42
KIT KARESS	497,50	634,44	771,37	908,30	1045,24	18,42



KIT KCA Wired control panel **KCA** + Master Thermostat **Chrono-TMA** + Zone Thermostats **TZA-Temp**

KIT KSP Control panel via radio **KSP** + Master Thermostat **Chrono-TM** + Zone Thermostats **TZ-Temp**

KIT KARESS Control panel via radio **KSP** + Tactile Master Thermostat **KARESS-TM**+ Tactile Zone Thermostats **KARESS-TZ**.

INTERFACE: Communication interface between KSP and KCA control panels and ducted AHU's. 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. Consult the compatibility with units of previous years.

INTERFACE	eur
MITBOX	102,70
DAIKIBOX	133,27
FUJIBOX	138,55
HEAVYBOX	138,55
PANABOX	177,63
TOSHIBOX	177,63



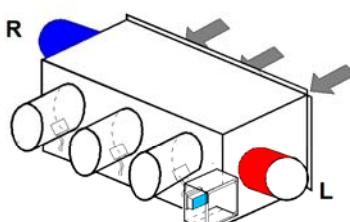
KBY: Pressure control module (range 50 to 300 Pa) for constant pressure regulation in the discharge plenum. Calibration of pressure by turning a knob. Possible action on EC type fans. Requires bypass damper Motorized ZC.

PRESSURE CONTROL	eur
KBY	112,67
ZC 160	72,67
ZC 200	73,83
ZC 250	75,03



Ordering information:

PLZON / Size /NºZones/ diam / BP / SIDE / Machine Model



Size. Refer to the above tables. 1 – 2 – 3 -4

NZ. Number of zones to be controlled (From 2 to 5)

Diam: Diameter of dampers (160 or 200 mm)

BP: By-pass damper type: **ZK:** Circular. **ZS:** Rectangular.

SIDE: Output side of the by-pass and the control box. **L:** Left. **R:** Right. (see drawing)

Machine Model: Enter the model of the indoor unit to adapt to the set.

ZONING SYSTEM / kit ____ / N° zones

INTERFACE/____ Box (optional) **Interface:** Indicate the interface model (optional).

KBY/____/ZC diam **KBY+ZC:** Indicate for motorised pressure control (optional).