

## Fan Coil Control Range



**SABIANA**  
IL CLIMA AMICO



# SABIANA

IL CLIMA AMICO

A leading brand of  AFG

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**For technical details read carefully  
the manual of installation, use and maintenance.**

The descriptions and illustrations provided in this publication are not binding:  
Sabiana reserves the right, whilst maintaining the essential characteristics  
of the types described and illustrated, to make, at any time,  
without the requirement to promptly update this piece of literature,  
any changes that it considers useful for the purpose of improvement  
or for any other manufacturing or commercial requirements.

# Controls by Sabiana

to combine with the following fan coil range  
with AC asynchronous motor and with EC electronic motor and inverter board

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Carisma fan coils  
CRC range with AC asynchronous motor and centrifugal fan  
CRC-ECM range with EC electronic motor and centrifugal fan  
CRT range with AC asynchronous motor and tangential fan  
CRT-ECM range with EC electronic motor and tangential fan



Carisma CRR fan coils range  
with AC asynchronous motor and tangential fan



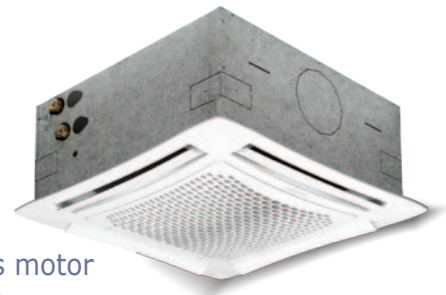
Carisma MVI fan coils range  
with AC asynchronous motor and centrifugal fan



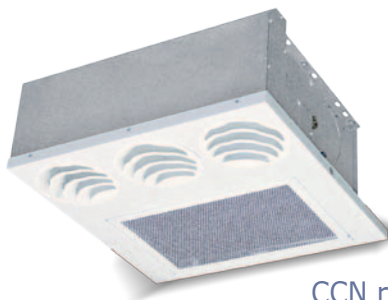
Carisma Fly fan coils  
CVP range with AC asynchronous motor  
CVP-ECM range with EC electronic motor



High pressure Carisma fan coils  
CRSO range with AC asynchronous motor and centrifugal fan  
CRS-ECM range with EC electronic motor and centrifugal fan



SkyStar Cassette fan coils  
SK range with AC asynchronous motor  
SK-ECM range with EC electronic motor



Carisma Coanda one way Cassette fan coils  
CCN range with AC asynchronous motor and centrifugal fan  
CCN-ECM range with EC electronic motor and centrifugal fan

# Fan coil

## controls fitted on the unit

### with AC asynchronous motor

The Fan coil controls fitted on the unit are only suitable for Sabiana units.  
Standard reference: EN 60335-2-40.

To combine with:



Carisma CRC / CRT

Carisma CRR

ON-OFF switch

Electric heater/IAQ filter activation button

Manual 3 speed switch without thermostatic control

Manual 3 speed switch

Automatic 3 speed progressive push button

Electronic room thermostat for fan control (ON-OFF)

Electronic room thermostat for one water valve control (2 pipe system)

Electronic room thermostat for two water valve control (4 pipe system)

Simultaneous thermostatic control of the valve and fan

Manual Summer/Winter switch

Summer/winter cycle with a centralized and remote switch  
or with an automatic change-over fitted on the water pipe (for 2 pipe system)

Thermostatic control of the chilled water valve (ON-OFF) and the electric heater (BEL)

Automatic Summer/Winter switch and continuous chilled and hot water supply,  
it allows the automatic summer winter change-over in accordance to the room temperature  
-1°C = Winter, +1°C = Summer, Neutral Zone 2°C (4 pipe installations with 2 valve)

Thermostatic control of the water valves (ON-OFF) and the electric heater managed as main  
heating element or as an integration element (4 pipe system + electric heater) - NO Crystall

Possibility to use a low temperature cut-out thermostat (optional)

Installation manual codes

See page 



CB

CB-T

CB-C

CB-AUT

CB-IAQ

CB-R-IAQ

CB-AUT-IAQ



9066300

9066301

9066302

9066318

9066305

9066306

9066322



4050875

4050876

4050877

4050857

4050880

4050881

4050898

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# Fan coil wall controls

## with AC asynchronous motor

The wall controls are  
in compliance with the standard reference CEI EN 60730.

To combine with:



Carisma CRC / CRT / CRSO / MVI  
Carisma CCN one way Cassette  
Cassette SkyStar SK  
Carisma Fly CVP

ON-OFF switch

Electric heater/IAQ filter activation button

Manual 3 speed switch without thermostatic control

Manual 3 speed switch

Automatic 3 speed progressive push button

Electronic room thermostat for fan control (ON-OFF)

Electronic room thermostat for one water valve control (2 pipe system)

Electronic room thermostat for two water valve control (4 pipe system)

Simultaneous thermostatic control of the valve and fan

Manual Summer/Winter switch

Summer/winter cycle with a centralized and remote switch  
or with an automatic change-over fitted on the water pipe (for 2 pipe system)

Thermostatic control of the chilled water valve (ON-OFF) and the electric heater (BEL)

Automatic Summer/Winter switch and continuous chilled and hot water supply,  
it allows the automatic summer winter change-over in accordance to the room temperature  
-1°C = Winter, +1°C = Summer, Neutral Zone 2°C (4 pipe installations with 2 valve)

Thermostatic control of the water valves (ON-OFF) and the electric heater managed as main  
heating element or as an integration element (4 pipe system + electric heater) - NO Crystall

Button lock controller

Energy saving function

Possibility to use a low temperature cut-out thermostat (optional)

Installation manual codes

See page 

**Identification**

WM-3V

WM-T

WM-TQR

WM-AU

T-MB

TMO-503-SV2

T2T

**Code**

9066642



9066630



9066631



9066632



9066331E



9066173



9066174



4050961

4050962

4050963A/B

4050963A/B

079303

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## Fan coil

# controls with EC electronic motor and inverter board

The Fan coil controls fitted on the unit are only suitable for Sabiana units.  
Standard reference: EN 60335-2-40.

The wall controls are  
in compliance with the standard reference CEI EN 60730.

To combine with:



Carisma CRC-ECM / CRT-ECM

Carisma CRS-ECM

Carisma CCN-ECM one way Cassette

Cassette SkyStar SK-ECM

ON-OFF switch

Electric heater/IAQ filter activation button

Manual 3 speed switch

Automatic 3 speed progressive push button

Automatic continuous speed control

Electronic room thermostat for fan control (ON-OFF)

Electronic room thermostat for one water valve control (2 pipe system)

Electronic room thermostat for two water valve control (4 pipe system)

Simultaneous thermostatic control of the valve and fan

Manual Summer/Winter switch

Summer/winter cycle with a centralized and remote switch  
or with an automatic change-over fitted on the water pipe (for 2 pipe system)

Thermostatic control of the chilled water valve (ON-OFF) and the electric heater (BEL)

Automatic Summer/Winter switch and continuous chilled and hot water supply,  
it allows the automatic summer winter change-over in accordance to the room temperature  
-1°C = Winter, +1°C = Summer, Neutral Zone 2°C (4 pipe installations with 2 valve)

Thermostatic control of the water valves (ON-OFF) and the electric heater managed as main  
heating element or as an integration element (4 pipe system + electric heater) - NO Crystall

Button lock controller

Energy saving function

Possibility to use a low temperature cut-out thermostat (optional)

Installation manual codes

See page 



### FITTED

### WALL

CB-T-ECM

CB-T-ECM-IAQ

WM-AU

T-MB

WM-S-ECM



9066320

9066308

9066632

9066331E

9066644



4050882

4050855

4050963A/B

4050963A/B

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13

17

17

17

# Controls fitted on the unit

For Carisma MV and MVB ranges the room temperature can be controlled with electronic room thermostats fitted on the unit with different solutions according to every ambient conditions; the control range includes manual or automatic speed switch control, thermostatic control of the water valves or of the electric heater, manual, automatic or centralized summer/winter switch.

With the suitable speed switches

it is also possible to control with the same thermostat up to 8 units.

Here below there is the description of all controls for the AC asynchronous motor versions and for the versions with EC electronic motor and inverter board.

for fan coils  
with AC asynchronous motor

Identification	Code
<b>CB</b>	<b>9066300</b>



- Manual 3 speed switch, without thermostatic control.
- It allows to control the low temperature cut-out thermostat (TMM).

To combine with: CRC CRT CRR CRSO SK CCN CVP MVI

Identification	Code
<b>CB-T</b>	<b>9066301</b>



- Manual 3 speed switch.
- Manual Summer/Winter switch.
- Electronic room thermostat for fan control (ON-OFF).
- Electronic room thermostat for valve control (ON-OFF) (the fan keeps working).
- It allows to control the low temperature cut-out thermostat (TMM).
- It allows to control the chilled water valve (ON-OFF) and the electric heater (BEL).
- Presence of a LED signal when the thermostat is on.

Control power absorption: 1,5 VA

To combine with: CRC CRT CRR CRSO SK CCN CVP MVI

# Controls fitted on the unit

for fan coils  
with AC asynchronous motor

Identification	Code
<b>CB-C</b>	<b>9066302</b>



- Manual 3 speed switch.
- Manual, automatic or centralized Summer/Winter switch.
- Electronic room thermostat for fan control (ON-OFF).
- Electronic room thermostat for valve control (ON-OFF) (the fan keeps working).
- It allows to control the low temperature cut-out thermostat (TME).
- It allows to control the chilled water valve (ON-OFF) and the electric heater (BEL).
- Presence of a LED signal when the thermostat is on.

Control power absorption: 1,5 VA

To combine with: CRC CRT CRR CRSO SK CCN CVP MVI

Identification	Code
<b>CB-AUT</b>	<b>9066318</b>



- Manual/automatic 3 speed switch.
- Manual, automatic or centralized Summer/Winter switch.
- Automatic speed switch: on Auto Mode there is the automatic speed selection in accordance to the difference between room temperature and setpoint. When the setpoint is reached the fan goes on OFF.
- Electronic room thermostat for valve control (ON-OFF) (the fan keeps working).
- Simultaneous thermostatic control of the valves and fan.
- It allows to control the low temperature cut-out thermostat (NTC).
- It allows to control the chilled water valve (ON-OFF) and the electric heater (BEL).
- It allows to control the summer/winter cycle with a centralized and remote switch or with an automatic change-over fitted on the water pipe (for 2-tube installations only).
- Presence of a LED signal when the thermostat is on.

N.B.: with 4 pipe installations and continuous chilled and hot water supply, it allows the automatic summer winter change-over in accordance to the room temperature (-1°C = Winter, +1°C = Summer, Neutral Zone 2°C).

Control power absorption: 1,5 VA

To combine with: CRC CRT CRR CRSO SK CCN CVP MVI

# Controls fitted on the unit

for fan coils

with AC asynchronous motor, Crystall electronic filter or electric heater

Identification	Code
<b>CB-IAQ</b>	<b>9066305</b>



- Manual 3 speed switch.
- IAQ filter activation button.
- Without thermostatic control.
- It allows to control the low temperature cut-out thermostat (TMM).

To combine with: CRC CRT CRR CRSO SK CCN CVP MVI

Identification	Code
<b>CB-R-IAQ</b>	<b>9066306</b>



- Manual 3 speed switch.
- Manual, automatic or centralized Summer/Winter switch.
- Electric heater/IAQ filter activation button.
- Electronic room thermostat for fan control (ON-OFF).
- Electronic room thermostat for valve control (ON-OFF) (the fan keeps working).
- It allows to control the low temperature cut-out thermostat (TME).
- It allows to control the chilled water valve (ON-OFF) and the electric heater (BEL).
- Presence of a LED signal when the thermostat is on.

Control power absorption: 1,5 VA

To combine with: CRC CRT CRR CRSO SK CCN CVP MVI

Identification	Code
<b>CB-AUT-IAQ</b>	<b>9066322</b>



- Manual/automatic 3 speed switch.
- Manual, automatic or centralized Summer/Winter switch.
- Electric heater/IAQ filter activation button.
- Automatic speed switch: on Auto Mode there is the automatic speed selection in accordance to the difference between room temperature and setpoint. When the setpoint is reached the fan goes on OFF.
- Electronic room thermostat for valve control (ON-OFF) (the fan keeps working).
- It allows to control the low temperature cut-out thermostat (NTC).
- It allows to control the water valves (ON-OFF) and the electric heater managed as main heating element or as an integration element.
- Presence of a LED signal when the thermostat is on.

N.B.: with 4 pipe installations and continuous chilled and hot water supply, it allows the automatic summer winter change-over in accordance to the room temperature (-1°C = Winter, +1°C = Summer, Neutral Zone 2°C).

Control power absorption: 1,5 VA

To combine with: CRC CRT CRR CRSO SK CCN CVP MVI

# Controls fitted on the unit

for fan coils

with EC electronic motor and inverter board

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Identification	Code
<b>CB-T-ECM</b>	<b>9066320</b>



- Manual 3 speed switch or automatic continuous speed control.
- Manual Summer/Winter switch.
- Continuous speed control based on the difference between ambient temperature and Set temperature (speed switch in Auto position).
- Electronic room thermostat for fan and water valve control (ON-OFF).
- Simultaneous thermostatic control of the valves and fan.
- It allows to control the temperature cut-out (NTC).
- Presence of a LED signal when the thermostat is on.

Control power absorption: 1,5 VA

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To combine with: CRC-ECM CRT-ECM CRS-ECM SK-ECM CCN-ECM CVP-ECM

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Identification	Code
<b>CB-T-ECM-IAQ</b>	<b>9066308</b>



- Manual 3 speed switch or automatic continuous speed control.
- Manual, automatic or centralized Summer/Winter switch.
- Continuous speed control based on the difference between ambient temperature and Set temperature (speed switch in Auto position).
- Electric heater/IAQ filter activation button.
- Automatic speed switch: on Auto Mode there is the automatic speed selection in accordance to the difference between room temperature and setpoint. When the setpoint is reached the fan goes on OFF.
- Electronic room thermostat for fan control (ON-OFF).
- Electronic room thermostat for valve control (ON-OFF) (the fan keeps working).
- Simultaneous thermostatic control of the valves and fan.
- It allows to control the temperature cut-out (NTC).
- Presence of a LED signal when the thermostat is on.

Control power absorption: 1,5 VA

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To combine with: CRC-ECM CRT-ECM CRS-ECM SK-ECM CCN-ECM CVP-ECM

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# Wall controls

For the Carisma and SkyStar range the ambient temperature can be controlled through the use of electronic room thermostats mounted on the wall with different solutions according to every environmental conditions; the control range includes indeed the manual or automatic speed switch control, the thermostatic control of the water valves or of the electric heater, the manual, automatic or centralized summer/winter switch.

With the suitable speed switches

it is also possible to control with the same thermostat until 8 units. Here below there is the description of all controls for the AC asynchronous motor versions and for the versions with EC electronic motor and inverter board.

## for fan coils with AC asynchronous motor

Identification	Code
<b>WM-3V</b>	<b>9066642</b>



- Manual 3 speed switch.
- Without thermostatic control.

Dimensions: 75x75x30 mm

To combine with: CRC CRT CRR CRSO SK CCN CVP MVI

Identification	Code
<b>WM-T</b>	<b>9066630</b>



- ON-OFF switch.
- Manual 3 speed switch.
- Manual Summer/Winter switch.
- Electronic room thermostat for fan control (ON-OFF).
- Electronic room thermostat for valve control (ON-OFF) (the fan keeps working).
- It allows to control the low temperature cut-out thermostat (TMM).
- It allows to control the chilled water valve (ON-OFF) and the electric heater (BEL) only in case that hot water is not used in winter (otherwise please use WM-TQR control with on/off switch for the electric heater).
- Presence of a LED signal when the thermostat is on.

Control power absorption: 0,25 VA

Dimensions: 135x86x31 mm

To combine with: CRC CRT CRR CRSO SK CCN CVP MVI

# Wall controls

for fan coils  
with AC asynchronous motor

Identification	Code
<b>WM-TQR</b>	<b>9066631</b>



- ON-OFF switch.
- Manual 3 speed switch.
- Manual, automatic or centralized Summer/Winter switch.
- Electric heater/IAQ filter activation button.
- Electronic room thermostat for fan control (ON-OFF).
- Electronic room thermostat for valve control (ON-OFF).
- Simultaneous thermostatic control of the valves and fan.
- It allows to control the low temperature cut-out thermostat (NTC).
- It allows to control the water valves (ON-OFF) and the electric heater managed as main heating element or as an integration element.
- Energy saving function.
- Presence of a LED signal when the thermostat is on.

Control power absorption: 1 VA

Dimensions: 135x86x31 mm

To combine with: CRC CRT CRR CRSO SK CCN CVP MVI

Identification	Code
<b>WM-AU</b>	<b>9066632</b>



The control must always be connected with UPM-AU power unit (fitted on the unit) or with UP-AU power unit (with separate packaging).

- ON-OFF push button.
- Manual or automatic 3 speed progressive push button.
- Manual, automatic or centralized Summer/Winter switch.
- Summer/Winter/Fan/Auto mode push button.
- Electric heater/IAQ filter activation button.
- Electronic room thermostat for fan and water valves control (ON-OFF).
- Simultaneous thermostatic control of the valves and fan.
- It allows to use the low temperature cut-out thermostat (NTC) mounted on the UP-AU power unit.
- It allows to control the water valves (ON-OFF) and the electric heater managed as main heating element or as an integration element.
- Energy saving push button.
- Presence of a LED signal when the thermostat is on.

N.B.: with 4 pipe installations and continuous chilled and hot water supply, it allows the automatic summer winter change-over in accordance to the room temperature (-1°C = Winter, +1°C = Summer, Neutral Zone 2°C).

Control power absorption: see the UP-AU power unit

Dimensions: 135x86x24 mm

To combine with: CRC CRT CRR CRSO SK CCN CVP MVI

Identification	Code
<b>T-MB</b>	<b>9066331E</b>



The control must always be connected with UPM-AU power unit (fitted on the unit) or with UP-AU power unit (with separate packaging).

Wall control with display that allows controlling one or more units in Master/Slave mode. The control is equipped with internal sensor to detect the room temperature, which can be defined as a priority compared to the return air sensor on the fan coil.

The T-MB control features the following functions:

- Switch the unit ON and OFF.
- Temperature set.
- Manual, automatic or centralized Summer/Winter switch.
- Set the fan speed (low, medium, high or auto fan).
- Set the operation mode (fan only, cooling, heating; auto for 4 pipe systems with mode selection depending on the air temperature).
- Possibility of use of the low temperature cut-out thermostat NTC mounted on the UP-AU power unit.
- It allows to control the water valves (ON-OFF) and the electric heater managed as main heating element or as an integration element.
- Time setting.
- Weekly ON/OFF program.

Control power absorption: see the UP-AU power unit

Dimensions: 110x72x25 mm

To combine with: CRC CRT CRR CRSO SK CCN CVP MVI

# Wall controls

for fan coils  
with AC asynchronous motor

Identification	Code
<b>TMO-503-SV2</b>	<b>9060173</b>



Dimensions: 118x87x8 mm

The TMO-503-SV2 control for fan coils with valves, is designed to be installed in a 503 wall box. It is easy to use, it has a big and clear display, and a great precision. The control is supplied integral with the external frame, but it is possible to use frames of the most known brand on the market (BTicino, Vimar, AVE, Gewiss).

- Manual or automatic 3 speed switch.
- Manual Summer/Winter switch.
- Electronic thermostat for valves control (ON-OFF).
- Simultaneous thermostatic control of the valves and fan.
- It allows to control the low temperature cut-out thermostat, included with the control.

N.B.: with 4 pipe installations and continuous chilled and hot water supply, it allows the automatic summer/winter change-over in accordance to the room temperature (-1°C = Winter, +1°C = Summer, Neutral Zone 2°C).

N.B.: only for Carisma CRSO version: on size 4 the SEL-CR switch must be installed.

Control power absorption: 1,5 VA

To combine with: CRC CRT CRR CRSO SK CCN CVP MVI

Identification	Code
<b>T2T</b>	<b>9060174</b>



Dimensions: 128x75x25 mm

Only for 2 pipe units only.

- ON-OFF switch.
- Manual 3 speed switch.
- Manual Summer/Winter switch.
- Thermostatic control on the fan.
- Thermostatic control on the valve and continuous fan operation.
- Simultaneous thermostatic control of the valve and fan.

Control power absorption: 1,5 VA

To combine with: CRC CRT CRR CRSO SK CCN CVP MVI

# Wall controls

for fan coils  
with EC electronic motor and inverter board

Identification	Code
<b>WM-AU</b>	<b>9066632</b>



Dimensions: 135x86x24 mm

The control must always be connected with UPM-AU power unit (fitted on the unit) or with UP-AU power unit (with separate packaging).

- ON-OFF push button.
- Manual or automatic 3 speed progressive push button.
- Manual, automatic or centralized Summer/Winter switch.
- Summer/Winter/Fan/Auto mode push button.
- Electric heater/IAQ filter activation button.
- Electronic room thermostat for fan and water valves control (ON-OFF).
- Simultaneous thermostatic control of the valves and fan.
- It allows to use the low temperature cut-out thermostat (NTC) mounted on the UP-AU power unit.
- It allows to control the water valves (ON-OFF) and the electric heater managed as main heating element or as an integration element.
- Energy saving push button.
- Presence of a LED signal when the thermostat is on.

N.B.: with 4 pipe installations and continuous chilled and hot water supply, it allows the automatic summer winter change-over in accordance to the room temperature (-1°C = Winter, +1°C = Summer, Neutral Zone 2°C).

Control power absorption: see the UP-AU power unit

To combine with: CRC-ECM CRT-ECM CRS-ECM SK-ECM CCN-ECM CVP-ECM

Identification	Code
<b>T-MB</b>	<b>9066331E</b>



Dimensions: 110x72x25 mm

The control must always be connected with UPM-AU power unit (fitted on the unit) or with UP-AU power unit (with separate packaging).

Wall control with display that allows controlling one or more units in Master/Slave mode. The control is equipped with internal sensor to detect the room temperature, which can be defined as a priority compared to the return air sensor on the fan coil.

The T-MB control features the following functions:

- Switch the unit ON and OFF.
- Temperature set.
- Manual, automatic or centralized Summer/Winter switch.
- Set the fan speed (low, medium, high or auto fan).
- Set the operation mode (fan only, cooling, heating; auto for 4 pipe systems with mode selection depending on the air temperature).
- It allows to use the low temperature cut-out thermostat (NTC) mounted on the UP-AU power unit.
- It allows to control the water valves (ON-OFF) and the electric heater managed as main heating element or as an integration element.
- Time setting.
- Weekly ON/OFF program.

Control power absorption: see the UP-AU power unit

To combine with: CRC-ECM CRT-ECM CRS-ECM SK-ECM CCN-ECM CVP-ECM

Identification	Code
<b>WM-S-ECM</b>	<b>9066644</b>



Dimensions: 132x87x23,6 mm

0-10V control with display designed to be mounted on the wall or to be installed on a 503 wall box.

- ON-OFF switch.
- Manual 3 speed switch or automatic continuous speed control.
- Manual Summer/Winter switch.
- Summer/Winter/Fan/Auto mode push button.
- Electronic room thermostat for fan control (ON-OFF).
- Electronic room thermostat for valve control (ON-OFF).
- Simultaneous thermostatic control of the valves and fan.
- It allows to control the low temperature cut-out thermostat (NTC).

Control power absorption: 1,2 VA

To combine with: CRC-ECM CRT-ECM CRS-ECM SK-ECM CCN-ECM CVP-ECM

# Power unit and speed switches for controls

for fan coils

with AC asynchronous motor and with EC electronic motor and inverter board

Identification	Code
<b>UPM-AU</b> (mounted)	<b>9066641</b>
<b>UP-AU</b> (not mounted)	<b>9066640</b>

*for WM-AU and T-MB controls*



Power unit to be installed on the fan coil (fan coil interface).

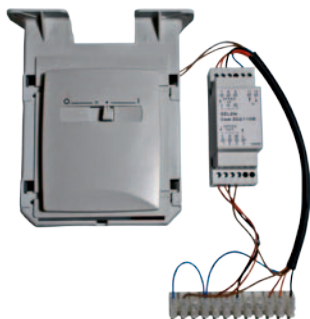
- It controls the fan and the valves of the fan coil.
- It is connected to the electric supply.
- It receives the information required from the control.
- Possibility to use the low temperature cut-out thermostat (optional) for the T1 function which allows the return air control.
- Possibility to use the low temperature cut-out thermostat (optional) for the T2 function which controls the summer/winter switch.
- Possibility to use the low temperature cut-out thermostat (optional) for the T3 function as low temperature cut-out thermostat.

Power unit absorption: 2,3 VA

To combine with: CRC / CRT / CRR / CRSO / SK / CCN / CVP  
CRC-ECM / CRT-ECM / MVI / CRS-ECM / SK-ECM / CCN-ECM / CVP-ECM

Identification	Code
<b>SEL-CB</b>	<b>9066304</b>

*for WM-T, WM-TQR and TMO-503-SV2 controls*



For Fan Coils CRC/CRT/CRR, MV-MVB versions.

- Speed switch (Slave).
- It allows to control up to 8 units with only one centralized wall control (1 speed switch for each unit).

To combine with: CRC / CRT / CRR / CRSO / SK / CCN / CVP  
CRC-ECM / CRT-ECM / MVI / CRS-ECM / SK-ECM / CCN-ECM / CVP-ECM

Identification	Code
<b>SEL-CR</b>	<b>9066311</b>

*for WM-T, WM-TQR and TMO-503-SV2 controls*



For Fan Coils CRC/CRT, MO-IV-IO versions.

- Speed switch (Slave).
- It allows to control up to 8 units with only one centralized wall control (1 speed switch for each unit).

To combine with: CRC / CRT / CRR / CRSO / SK / CCN / CVP  
CRC-ECM / CRT-ECM / MVI / CRS-ECM / SK-ECM / CCN-ECM / CVP-ECM

# Power unit and speed switches for controls

for fan coils

with AC asynchronous motor and with EC electronic motor and inverter board

Identification	Code
<b>SEL2M</b>	<b>9079109</b>

← for WM-T, WM-TQR and TMO-503-SV2 controls



For Fan Coils Coanda CCN and SkyStar SK versions.

- Speed switch (Slave).
- It allows to control up to 8 units with only one centralized wall control (1 speed switch for each unit).

To combine with:

CRC	CRT	CRR	CRSO	SK	CCN	CVP
CRC-ECM	CRT-ECM	MVI	CRS-ECM	SK-ECM	CCN-ECM	CVP-ECM

Identification	Code
<b>SEL-CVP</b>	<b>9025302</b>

← for WM-T, WM-TQR and TMO-503-SV2 controls



For Fan Coils CVP version.

- Speed switch (Slave).
- It allows to control up to 8 units with only one centralized wall control (1 speed switch for each unit).

To combine with:

CRC	CRT	CRR	CRSO	SK	CCN	CVP
CRC-ECM	CRT-ECM	MVI	CRS-ECM	SK-ECM	CCN-ECM	CVP-ECM

# Accessories for controls

for fan coils

with AC asynchronous motor and with EC electronic motor and inverter board

Identification	Code
<b>TME</b>	<b>3021091</b>

*← for CB-C and CB-R-IAQ controls*



Low temperature cut-out thermostat

- To be fitted between the coil fins.
- When connecting the control, the TME probe cable must be separated from the power supply wires.
- It stops the fan when the water temperature is lower than 38°C and it starts the fan when is higher than 42°C.

To combine with: CRC CRT CRR CRSO SK CCN CVP  
 CRC-ECM CRT-ECM MVI CRS-ECM SK-ECM CCN-ECM CVP-ECM

Identification	Code
<b>TMM</b>	<b>9053048</b>

*← for CB, CB-T, CB-IAQ and WM-T controls*



Low temperature cut-out thermostat

- To be installed in contact with the hot water circuit.
- For units working on heating only.
- It stops the fan when the water temperature is lower than 30°C and it starts the fan when is higher than 38°C.

To combine with: CRC CRT CRR CRSO SK CCN CVP  
 CRC-ECM CRT-ECM MVI CRS-ECM SK-ECM CCN-ECM CVP-ECM

Identification	Code
<b>NTC</b>	<b>3021090</b>

*← for CB-AUT, CB-AUT-IAQ, WM-TQR controls and the UP-AU power unit*



Low temperature cut-out thermostat

- To be fitted between the coil fins.
- When connecting the control, the NTC probe cable must be separated from the power supply wires.
- It stops the fan when the water temperature is lower than 28°C and it starts the fan when is higher than 33°C.

To use as:

- T1 function for the return air control.
- T2 function which controls the summer/winter switch.
- T3 function as low temperature cut-out thermostat.

To combine with: CRC CRT CRR CRSO SK CCN CVP  
 CRC-ECM CRT-ECM MVI CRS-ECM SK-ECM CCN-ECM CVP-ECM

# Accessories for controls

for fan coils

with AC asynchronous motor and with EC electronic motor and inverter board

Identification	Code	
<b>CH 15-25</b>	<b>9053049</b>	← <i>for CB-C, CB-R-IAQ, CB-AUT, CB-AUT-IAQ and WM-TQR controls</i>

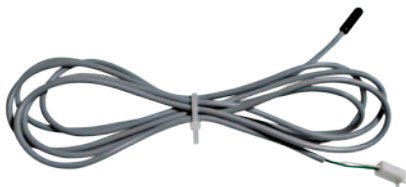


### Change-over

- Automatic summer/winter switch to be installed in contact with the water circuit.
- For 2 tube installations only (not to be used with 2 way valve).

To combine with:	CRC	CRT	CRR	CRSO	SK	CCN	CVP
	CRC-ECM	CRT-ECM	MVI	CRS-ECM	SK-ECM	CCN-ECM	CVP-ECM

Identification	Code	
<b>T2</b>	<b>9025310</b>	← <i>for UP-AU power unit</i>



To be placed on the water supply pipe upstream 3 way valves (not to be used with 2 way valve).

- The T2 sensor must be used as described below:
  - Change-Over for the automatic switch of the operating mode.
    - If water temperature is lower than 20°C, cooling mode is set; on the other hand, if water temperature exceeds 30°C, heating mode is set.
  - It can be used on units with electric heater and hot water supply (*EXCEPT SkyStar*). The T2 priority probe activates the electric heater or water valve, depending on the water temperature detected.
    - If water temperature exceeds 34°C, the water valve ON-OFF control is activated; on the other hand, if water temperature is lower than 30°C, the electric heater is activated.

To combine with:	CRC	CRT	CRR	CRSO	SK	CCN	CVP
	CRC-ECM	CRT-ECM	MVI	CRS-ECM	SK-ECM	CCN-ECM	CVP-ECM

# MB

## controls and units

for the **Carisma fan coil range**

with AC asynchronous motor and with EC electronic motor and inverter board

All the Carisma units can be supplied with a wide range of controls, which allows managing one single unit or several units by using the Modbus RTU - RS 485 communication protocol.

Units can be managed according to the Master/Slave logic (up to 20 units) or by supervisory component.

The system consists in a **MB board** and a series of controls, such as the **T-MB** control, the **RT03** infra-red remote control, the **PSM-DI** multifunction control and the **Sabianet** supervisory program.

Identification	Code
<b>MB-M</b> (mounted)	<b>9066332</b>
<b>MB-S</b> (not mounted)	<b>9066333</b>
<b>MB-ECM-M</b> (mounted)	<b>9066334</b>
<b>MB-ECM-S</b> (not mount.)	<b>9066335</b>

*with electric asynchronous motor*

*with electronic motor and inverter board*

To be mounted  
on the fan coil internal unit.

Fitted on the unit for  
CVP-MB and CVP-ECM-MB



### MB board

The MB electronic board is set to carry out different functions and adjustment modes, in order to meet the installation requirements.

These modes are selected by setting the configuration dip switches on the board.

- 2/4 pipe system.
- Fan ON/OFF thermostatic control.
- Valve ON/OFF thermostatic control and continuous ventilation.
- Valve and simultaneous ventilation ON/OFF thermostatic control.
- Fan operation control depending on the coil temperature (cut-out T3 probe fitted), which can be activated only in heating mode or heating and cooling mode.
- Automatic switch of the operating mode by means of T2 water probe (optional) applied on the 2 pipe system.
- Seasonal switch by means of remote contact.
- ON/OFF of the fan coil by means of the remote contact (window or clock contact).
- Electric heater or Crystall electronic filter control (the simultaneous control of the heater and of the Crystall filter is not possible).

By activating the cut-out T3 probe function, the fan is stopped in winter when the coil temperature is lower than 32°C and started when the temperature reaches 36°C. In summer mode, the fan stops when the temperature inside the coil exceeds 22°C and starts when it drops below 18°C.

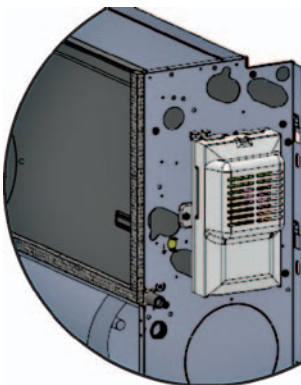
The following connections are located on the power board:

- Receiver for infra-red remote control.
- T-MB control.
- RS 485 serial connection to manage several fan coils in Master/Slave configuration or to create a supervisory network.

NTC sensor included for T1 function (return air control).

NTC sensor included for T3 function (low temperature cut-out thermostat).

NTC sensor (option) for T2 function (summer/winter switch).



To combine with:

CRC  
CRC-ECM

CRT  
CRT-ECM

CRR  
MVI

CRSO  
CRS-ECM

SK  
SK-ECM

CCN  
CCN-ECM

CVP-MB  
CVP-ECM-MB

# MB

## controls and units

for the **Carisma fan coil range**

with AC asynchronous motor and with EC electronic motor and inverter board

Identification	Code
<b>T-MB</b>	<b>9066331E</b>



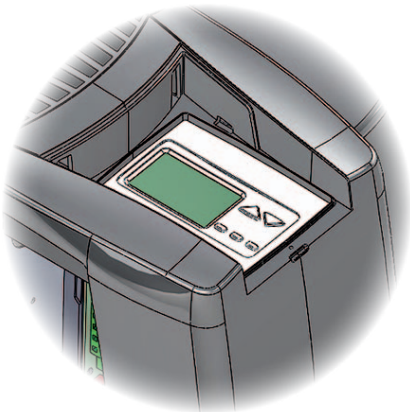
Dimensions: 110x72x25 mm

### T-MB wall control

Wall control with display that allows controlling one or more units in Master/Slave mode. The control is equipped with internal sensor to detect the room temperature, which can be defined as a priority compared to the return air sensor on the fan coil.

The T-MB control features the following functions:

- Switch the unit ON and OFF.
- Temperature set.
- Modify the set point (when used as a +/- 3° variation of the set point configured from Sabianet supervisory program or PSM-DI).
- Set the fan speed (low, medium, high or auto fan).
- Set the operation mode (fan only, cooling, heating; auto for 4 pipe systems with mode selection depending on the air temperature).
- Time setting.
- Weekly ON/OFF program.
- Display and change of the fan coil operation parameters.
- Vertical air flow function (FLAP) *for the CVP-T/CVP-MB.*



*T-MB version fitted on the unit*

for fan coil with casing only  
version: CRC / CRC-ECM  
CRT / CRT-ECM  
CRR

Description	Identification	Code
Control fitted on the unit, for MV / MVB models with left connections *	<b>T-MB-M</b>	<b>9066344</b>
Control fitted on the unit, supplied with separate packaging, for MV / MVB models with left connections *	<b>T-MB-S</b>	<b>9066343</b>
Control fitted on the unit, for MV / MVB models with right connections *	<b>T-MB-M-DX</b>	<b>9066346</b>
Control fitted on the unit, supplied with separate packaging, for MV / MVB models with right connections *	<b>T-MB-S-DX</b>	<b>9066345</b>

\* = to combine with MB board only

To combine with: CRC CRT CRR CRSO SK CCN CVP-MB  
CRC-ECM CRT-ECM MVI CRS-ECM SK-ECM CCN-ECM CVP-ECM-MB

# MB

## controls and units

for the **Carisma fan coil range**

with AC asynchronous motor and with EC electronic motor and inverter board

Description	Identification	Code
RT03 infra-red remote control with fitted receiver, for MV / MO-MVB models *	<b>RM-RT03</b>	<b>9066336</b>
RT03 infra-red remote control with receiver supplied with separate packaging *	<b>RS-RT03</b>	<b>9066337</b>
RT03 infra-red remote control with receiver supplied with separate packaging *	<b>RT03</b>	<b>3021203</b>
Receiver for RT03 infra-red remote control fitted on the unit, for MV / MO-MVB models *	<b>RM</b>	<b>9066339</b>
Receiver for RT03 infra-red remote control supplied with separate packaging *	<b>RS</b>	<b>9066338</b>
Receiver for RT03 infra-red remote control supplied with separate packaging (to be used with MB board only) – <i>only for CVP-T-MB fan coil units</i>	<b>RS-RT03-F</b>	<b>9025301</b>
Receiver for RT03 infra-red remote control supplied with separate packaging (to be used with MB board only) – <i>only for CVP-T-MB fan coil units</i>	<b>RS-F</b>	<b>9025300</b>

\* = to combine with MB board only



### RT03 infra-red remote control

The infra-red remote control allows setting by a remote position the fan coil operation parameters.

The RT03 infra-red remote control features the following functions:

- Switch the appliance ON and OFF.
- Temperature set.
- Set the fan speed (low, medium, high or autofan).
- Set the operation mode (fan only, cooling, heating; auto for 4 pipe systems with mode selection depending on the air temperature).
- Time setting.
- 24 hours ON/OFF program.
- Vertical air flow function (FLAP) *for the CVP-T/CVP-MB.*

### Installation examples with RT03 infra-red remote control



To combine with: CRC / CRT / CRR / CRSO / SK / CCN / CVP-MB  
CRC-ECM / CRT-ECM / MVI / CRS-ECM / SK-ECM / CCN-ECM / CVP-ECM-MB

# MB

## controls and units

for the **Carisma fan coil range**

with AC asynchronous motor and with EC electronic motor and inverter board

A group of Carisma units with MB electronic board can be connected via a serial link and can consequently be managed at the same time by just one T-MB control or RT03 infra-red remote control.

Using the special jumper present on the MB board, one unit must be configured as the master, and all the others as slaves.

It is clear that the remote control must be pointed at the receiver on the master unit.

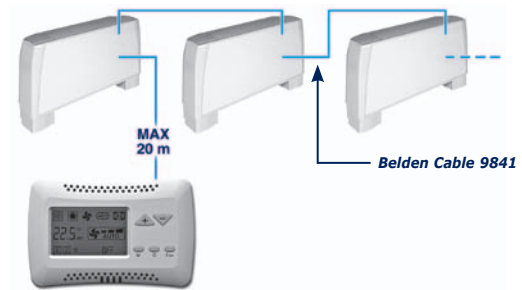
To avoid problems, it is recommended to install and connect the receiver only on the master unit.

### With T-MB control

One control for each unit  
(Maximum length of the connection cable = 20 m)



One control for more units (20 units max.)  
(Maximum total length of the connection cable = 800 m)



### With RT03 infra-red remote control

One control for each unit



One control for more units (20 units max.)  
(Maximum total length of the connection cable = 800 m)



Identification

Code

**T2**

**9025310**

#### T2 accessory for units with MB electronic board

The T2 sensor can be combined with MB boards to be placed on the water supply pipe upstream 3 way valves (not to be used with 2 way valve).

The T2 sensor must be used as described below:

- Change-Over for 2-pipe system for the automatic switch of the operating mode.  
If water temperature is lower than 20°C, cooling mode is set; on the other hand, if water temperature exceeds 30°C, heating mode is set.
- It can be used on units with electric heater and hot water supply.  
The T2 priority probe activates the electric heater or water valve, depending on the water temperature detected.  
If water temperature exceeds 34°C, the water valve ON-OFF control is activated; on the other hand, if water temperature is lower than 30°C, the electric heater is activated.



To combine with:

<u>CRC</u>	<u>CRT</u>	<u>CRR</u>	<u>CRSO</u>	<u>SK</u>	<u>CCN</u>	<u>CVP-MB</u>
CRC-ECM	CRT-ECM	MVI	CRS-ECM	SK-ECM	CCN-ECM	CVP-ECM-MB

# MB

## controls and units

for the **SkyStar SK-MB / SK-ECM-MB fan coil ranges**  
with AC asynchronous motor and with EC electronic motor and inverter board

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All the Cassette units with MB electronic board can be supplied with a wide range of controls, which allows managing one single unit or several units by using the Modbus RTU - RS 485 communication protocol. Units can be managed according to the Master/Slave logic (up to 20 units) or by supervisory components.

The system consists in a **MB board** and a series of controls, such as the **T-MB** control, the **RT03** infra-red remote control, the **PSM-DI** multifunction control and the **Sabianet** supervisory program.

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### MB board

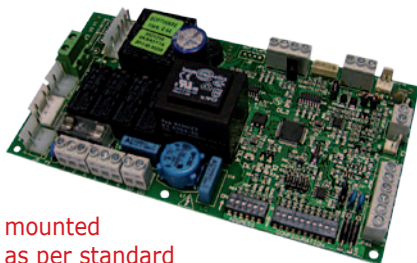
The MB electronic board, to be mounted on the SK-MB and SK-ECM-MB versions, is set to carry out different functions and adjustment modes, in order to meet the installation requirements. These modes are selected by setting the configuration dip switches on the board.

- 2/4 pipe system.
- Fan ON/OFF thermostatic control.
- Valve ON/OFF thermostatic control and continuous ventilation.
- Valve and simultaneous ventilation ON/OFF thermostatic control.
- Fan operation control depending on the coil temperature (cut-out T3 probe fitted), which can be activated only in heating mode or heating and cooling mode.
- Automatic switch of the operating mode by means of T2 water probe (optional) applied on the 2 pipe system.
- Seasonal switch by means of remote contact.
- ON/OFF of the fan coil by means of the remote contact (window or clock contact).
- Electric heater or Crystall electronic filter control (the simultaneous control of the heater and of the Crystall filter is not possible).

By activating the cut-out T3 probe function, the fan is stopped in winter when the coil temperature is lower than 32°C and started when the temperature reaches 36°C. In summer mode, the fan stops when the temperature inside the coil exceeds 22°C and starts when it drops below 18°C.

The following connections are located on the power board:

- Receiver for infra-red remote control.
- T-MB control.
- RS 485 serial connection to manage several fan coils in Master/Slave configuration or to create a supervisory network.



mounted  
as per standard

---

To combine with: CRC / CRT / CRR / CRSO / SK-MB / CCN / CVP  
CRC-ECM / CRT-ECM / MVI / CRS-ECM / SK-ECM-MB / CCN-ECM / CVP-ECM

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# MB

## controls and units

for the **SkyStar SK-MB / SK-ECM-MB fan coil ranges**  
with AC asynchronous motor and with EC electronic motor and inverter board

Identification	Code
<b>T-MB</b>	<b>9066331E</b>



Dimensions: 110x72x25 mm

### T-MB wall control

Wall control with display that allows controlling one or more units in Master/Slave mode. The control is equipped with internal sensor to detect the room temperature, which can be defined as a priority compared to the return air sensor on the fan coil.

The T-MB control features the following functions:

- Switch the unit ON and OFF.
- Temperature set.
- Modify the set point (when used as a +/- 3° variation of the set point configured from Sabianet supervisory program or PSM-DI).
- Set the fan speed (low, medium, high or auto fan).
- Set the operation mode (fan only, cooling, heating; auto for 4 pipe systems with mode selection depending on the air temperature).
- Time setting.
- Weekly ON/OFF program.
- Display and change of the fan coil operation parameters.

To combine with:

CRC	CRT	CRR	CRSO	SK-MB	CCN	CVP
CRC-ECM	CRT-ECM	MVI	CRS-ECM	SK-ECM-MB	CCN-ECM	CVP-ECM

# MB

## controls and units

for the **SkyStar SK-MB / SK-ECM-MB fan coil ranges**  
with AC asynchronous motor and with EC electronic motor and inverter board

Description	Identification	Code
RT03 infra-red remote control with receiver supplied with separate packaging (to be used with SK-MB and SK-ECM-MB version only)	<b>RCS-RT03</b>	<b>9079117</b>
Receiver for RT03 infra-red remote control supplied with separate packaging (to be used with SK-MB and SK-ECM-MB version only)	<b>RCS</b>	<b>9079116</b>
Receiver for RT03 infra-red remote control and MD-600 metal diffuser supplied with separate packaging (to be used with SK-MB and SK-ECM-MB version only)	<b>RS</b>	<b>9066338</b>



RCS-RT03



RCS

Description	Identification	Code
RT03 infra-red remote control supplied with separate packaging (to be used with SK-MB and SK-ECM-MB version only)	<b>RT03</b>	<b>3021203</b>



The infra-red remote control allows setting by a remote position the fan coil operation parameters.

The RT03 infra-red remote control features the following functions:

- Switch the appliance ON and OFF.
- Temperature set.
- Set the fan speed (low, medium, high or autofan).
- Set the operation mode (fan only, cooling, heating; auto for 4 pipe systems with mode selection depending on the air temperature).
- Time setting.
- 24 hours ON/OFF program.

Installation examples  
with RT03 infra-red remote control



To combine with: CRC / CRT / CRR / CRSO / SK-MB / CCN / CVP  
CRC-ECM / CRT-ECM / MVI / CRS-ECM / SK-ECM-MB / CCN-ECM / CVP-ECM

# MB

## controls and units

for the **SkyStar SK-MB / SK-ECM-MB fan coil ranges**  
with AC asynchronous motor and with EC electronic motor and inverter board

A group of Cassette units with MB electronic board can be connected via a serial link and can consequently be managed at the same time by just one T-MB control or RT03 infra-red remote control. Using the special jumper present on the MB board, one unit must be configured as the master, and all the others as slaves. It is clear that the remote control must be pointed at the receiver on the master unit. To avoid problems, it is recommended to install and connect the receiver only on the master unit.

### With T-MB control

One control for each unit  
(Maximum length of the connection cable = 20 m)



One control for more units (20 units max.)  
(Maximum total length of the connection cable = 800 m)



### With RT03 infra-red remote control

One control for each unit



One control for more units (20 units max.)  
(Maximum total length of the connection cable = 800 m)



Identification	Code
T2	9025310

#### T2 accessory for units with MB electronic board

The T2 sensor can be combined with MB boards to be placed on the water supply pipe upstream 3 way valves (not to be used with 2 way valve).

The T2 sensor must be used as described below:

- Change-Over for 2-pipe system for the automatic switch of the operating mode. If water temperature is lower than 20°C, cooling mode is set; on the other hand, if water temperature exceeds 30°C, heating mode is set.



To combine with: CRC / CRT / CRR / CRSO / SK-MB / CCN / CVP  
CRC-ECM / CRT-ECM / MVI / CRS-ECM / SK-ECM-MB / CCN-ECM / CVP-ECM

# MB

## controls and units

for the **Carisma and SkyStar Cassette fan coil ranges**  
with AC asynchronous motor and with EC electronic motor and inverter board

Description	Identification	Code
Multifunction control (to be used with Carisma MB board and Cassette MB versions only)	<b>PSM-DI</b>	<b>3021293</b>

### PSM-DI multifunction control panel

Another option available for the serial communication between the units is the possibility to connect up to 60 Cassette units in series and manage them with just one wall mounted PSM-DI controller.

The wall mounted controller can be used to set the operating mode for each individual unit connected, display the operating conditions of each individual unit, and set the ON/OFF time sets for each day of the week (the program can be set for all the units and for a maximum of ten groups of units). If more than 60 units need to be connected, two or more PSM-DI control panels must be used. Each unit must have a MB board.

The PSM-DI control is used to manage a series of fan coils, up to a maximum of 60 units (the maximum length of the RS 485 connection cable must not exceed 800 m), from one single control point.

The PSM-DI control communicates via a serial line with all the units connected, with the possibility of controlling them all together or individually. In fact, the unique address of each individual fan coil means that all the units can be called at the same time, or the individual unit called, to perform the following functions:

- display the current operating mode, the fan speed, the set point;
- display the room temperature measured on the individual unit;
- turn all the units ON and OFF at the same time or alternatively each unit individually;
- change the operating mode (fan only, heating, cooling, automatic changeover);
- change the set point;
- modify the values and operation parameters of the fan speed.

Each function can then be sent to all the units connected, or alternatively to each individual unit.

Different set points or operating modes can be set for each individual unit.

The PSM-DI panel can also be used for the time management of the units over the week. Four ON times and four OFF times can be set on the units for each day of the week. A different temperature set that will be considered as Operation set for all connected appliances, can be set for each event. If the temperature set is not entered for the individual event, it must be set during programming for each individual unit or for the entire network.

Units without receiver or with receiver can be connected within the network: the former can receive instructions only from the PSM-DI wall mounted panel; while the latter can receive information from both the wall mounted panel (PSM-DI) and infra-red remote control. Use the infra-red remote control to force ON mode of the individual unit, if ON/OFF daily time programming has been set. The unit will regain the settings from the PSM-DI panel during execution of successive start-up program.

The PSM-DI panel cannot be used together with the Sabianet management program.

Notes:

- set the Dip Switches of each fan coil as illustrated in the remote control installation manual, based on the required solutions.
- only one SIOS board is allowed to be used per each PSM-DI control panel.
- about "Priority pump function": when just one unit calls for, the relay RL1 on the SIOS board is automatically activated to connect a hot water pump.
- the RS 485 network's overall length must not exceed 700/800 metres.



To combine with:

<u>CRC</u>	<u>CRT</u>	<u>CRR</u>	<u>CRSO</u>	<u>SK-MB</u>	<u>CCN</u>	<u>CVP-MB</u>
CRC-ECM	CRT-ECM	MVI	CRS-ECM	SK-ECM-MB	CCN-ECM	CVP-ECM-MB

# SABIANET program for managing a network of Sabiana MB fan coils

for the **Carisma and SkyStar Cassette fan coil ranges**  
with AC asynchronous motor and with EC electronic motor and inverter board

Description	Identification	Code
Hardware/software supervisory system (to be used with Carisma MB board and Cassette MB versions only)	<b>Sabianet</b>	<b>9079118</b>

## Sabianet program for managing a network of Sabiana MB fan coils

Sabianet is a centralised control system for networks of Sabiana MB fan coils, based on software that runs on LINUX™ operating system (the program is provided pre-installed on a PC) and it works in a "stand alone" way, as an ordinary computer, so that it can be connected to a monitor, to a mouse and to a keyboard. By connecting an Ethernet cable is instead possible to work at a distance and visualize the entire program setting-up through whatever browsers.

The Sabianet software offers a practical and economical solution for managing the units, with the simple click of the mouse.

The main characteristics are:

- simplicity of use;
- an extremely complete and functional weekly program;
- possibility to access the historical operating data for each individual unit connected;
- possibility to save automatically every 6 h the data on SD support and to force the saving with a button;
- possibility of data saving also on other items, as for example USB key-boards;
- visualization of the saved configuration on a new ASUS PC.

The program exploits all the potential of our units with remote controls, representing an addition to the latter.

The Sabianet program is a control tool that can be used as a replacement for the remote control, or in parallel, however the settings made using Sabianet can have priority over those made using the remote control or T-MB.

The program can be used to:

- Create uniform groups (groups of units on individual floors, in offices or rooms).
- Save weekly programs configured for different types of operation (summer, winter, mid seasons, closing periods etc.); these can then be recalled and activated with a simple click of the mouse. Weekly on/off cycles can be set for individual units or groups of units.
- Set the operating conditions for each individual unit or groups of units (operating mode, fan speed, temperature setting).
- Set the set point limits for each individual unit or groups of units.
- Switch each individual unit or groups of units ON or OFF.



To combine with: CRC CRT CRR CRSO SK-MB CCN CVP-MB  
CRC-ECM CRT-ECM MVI CRS-ECM SK-ECM-MB CCN-ECM CVP-ECM-MB

# SABIANET program for managing a network of Sabiana MB fan coils

for the **Carisma** and **SkyStar** Cassette fan coil ranges

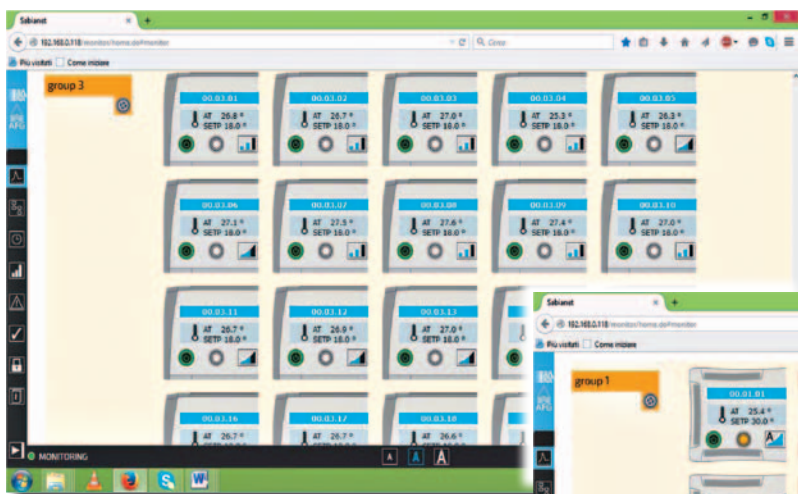
with AC asynchronous motor and with EC electronic motor and inverter board

The main program screen can display and interact with the entire network of units.

An individual unit, a group of units or the entire network can be called so as to make modifications to the operating mode and the set point.

The user can then check the operating status of each individual unit, read the room temperature, the coil temperature and the operating status of the condensate drain pump or any alarms.

Carisma "MONITORING" Screen

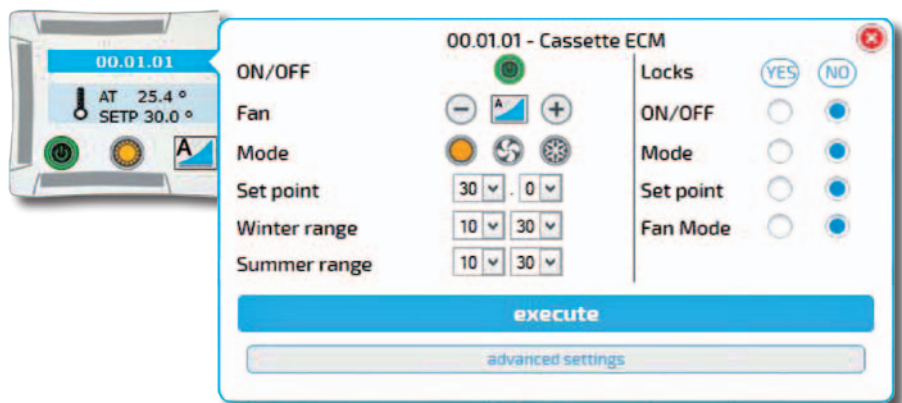


SkyStar "MONITORING" Screen



## Displaying a unit

The "MONITORING" Screen shows the units that are connected to the network and scanned by the program.



The icon of the terminal unit provides the following information:

- Unit name (00.01.01)
- Set temperature (SETP)
- Room temperature (AT)

- Unit status: ON or OFF

- Mode: Summer    Winter    Auto    Fan only

- Fan speed: Low    Medium    High    Auto Fan

# SABIANET program for managing a network of Sabiana MB fan coils

for the **Carisma and SkyStar Cassette fan coil ranges** with AC asynchronous motor and with EC electronic motor and inverter board

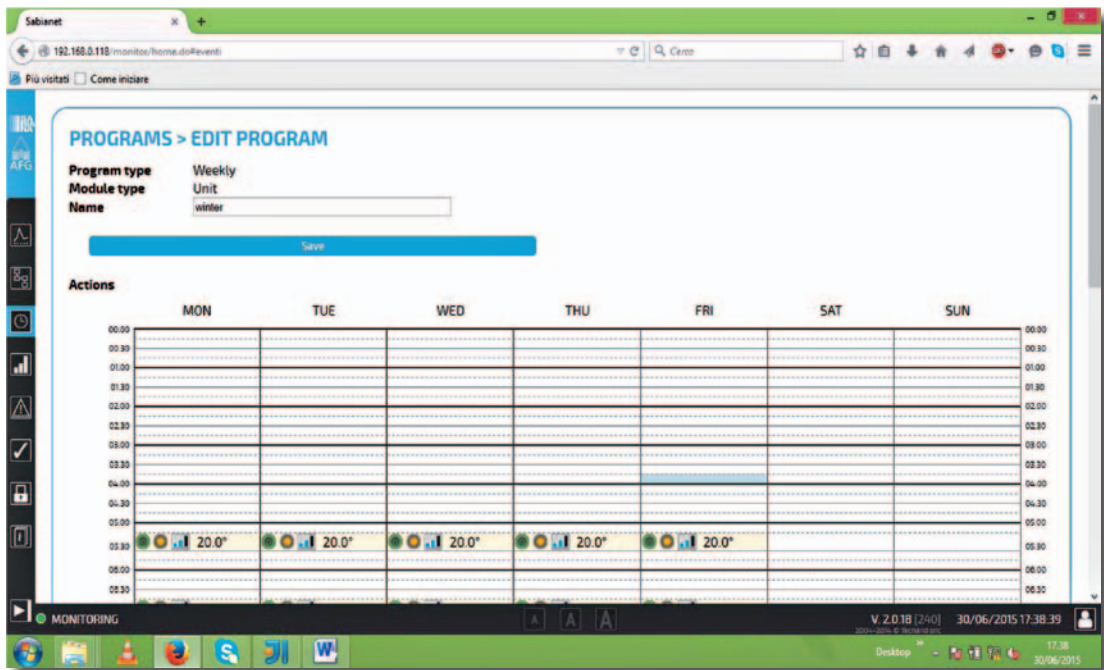
The "Weekly Program" can be used to set the unit operating parameters for each day of the week.

Several weekly programs can be set Time bands are available for each day of the week.

The time and the type of operation to be performed by the unit can be set for each band.

The time and the operating parameters can then be displayed before being sent to the unit and implemented.

## "EVENT MANAGEMENT" Screen



## Displaying of the parameters and Dip Switches set up

Every time that the reading of the set up Dip Switches results not easy (as for example by the false ceiling installations), it is always possible to display them directly through the Sabianet program.

<b>Group:</b> gruppo 1	<b>FW release:</b> 0.50	<b>Program:</b> gruppo 1 inverno	
<b>Remote control:</b> N.A.	<b>M/S network:</b> N.A.	<b>Unit tree:</b> Level 2 --> Router 1	
<b>Unit status:</b> ON	<b>Mode:</b> WINTER	<b>Fan mode:</b> AUTO	<b>Fan status:</b> OFF
<b>Set Point:</b> 22.0°	<b>Heating status:</b> OFF	<b>Cooling status:</b> [OFF]	<b>Inverter voltage:</b> 0.2
<b>T1:</b> 22.5°	<b>T2:</b> N.A.	<b>T3:</b> 28.5°	
<b>Pump:</b> YES	<b>Remote ON/OFF input:</b> OFF	<b>Window input:</b> OFF	

Unit settings		Alarms
<b>Dip Switch:</b>	OFF ON	
<input type="checkbox"/>	1	<b>T1 Fault</b> OFF
<input type="checkbox"/>	2	<b>T2 Fault</b> OFF
<input type="checkbox"/>	3	<b>T3 Fault</b> OFF
<input type="checkbox"/>	4	<b>Condensation</b> OFF
<input checked="" type="checkbox"/>	5	
<input type="checkbox"/>	6	
<input type="checkbox"/>	7	
<input type="checkbox"/>	8	
<input type="checkbox"/>	9	
<input type="checkbox"/>	10	

# SABIANET program for managing a network of Sabiana MB fan coils

for the **Carisma and SkyStar Cassette fan coil ranges** with AC asynchronous motor and with EC electronic motor and inverter board

## Alarm control by E-mail and sms

In addition to the alarm set on the Sabianet display, it is possible to send the ON-OFF alarm notification via E-mail and sms.

### ALARMS

#### Ongoing alarms

At	Address	Unit name	Group	Alarm type
No alarms				

#### Alarms log

From	To	Address	Unit name	Group	Alarm type
No alarms					

#### Notification

Event type	eMail						SMS					
	none	instant	after 1 hour	after 3 hours	after 6 hours	at the end	none	instant	after 1 hour	after 3 hours	after 6 hours	at the end
Alarm on unit [any]	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Condensate alarm on unit	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Probe alarm on unit	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="checkbox"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Save

### RS 485 serial connection cable

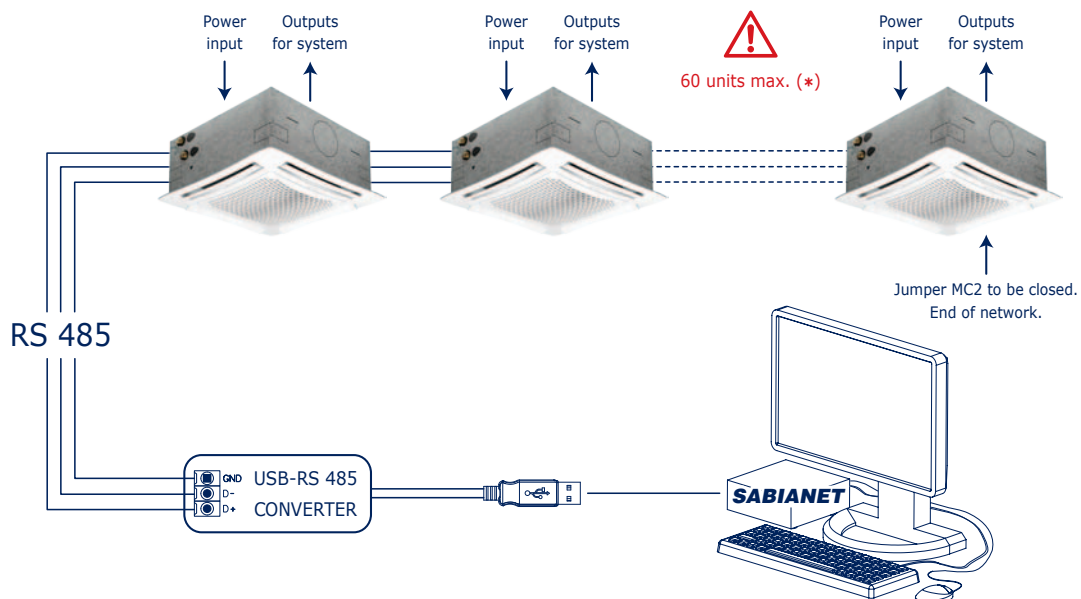
Shielded cable to be used: Belden 9841, RS-485, 1x2x24 AWG SFTP, 120 Ohm.



### PC Sabianet Software

Installation example with a SkyStar network with MB board.

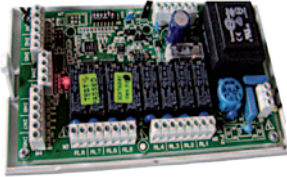
(\*) In the event of more than 60 units, add one or more Router-S (see next page).



# MB and SABIANET accessories

for the **Carisma and SkyStar** Cassette fan coil ranges  
with AC asynchronous motor and with EC electronic motor and inverter board

Identification	Code
<b>SIOS</b>	<b>3021292</b>



## SIOS

SIOS is a board equipped with 8 relays with potential free contact to control the activation or deactivation of remote electric utilities. Moreover, the board has 8 digital inlets to display the actuators or external consents, such as motor or other.

The SIOS boards can be connected:

- inside a network managed by Sabianet.
- to a PSM-DI panel (one SIOS for each PSM-DI panel).

Identification	Code
<b>Router-S</b>	<b>3021290</b>



## Router-S

The Router-S is an electronic board that:

- allows creating networks with more than 60 units (minimum 2 Router-S are required) or to divide the network (per floor, building, etc.).
- it allows creating a Master/Slave sub-network to be controlled as an independent group.

The Router-S can be used only inside a network managed by Sabianet.

The number of Router-S to be used is:

- up to 60 units: no Router-S.
- from 61 to 120 units: 2 Router-S.
- every 60 subsequent units: 1 additional Router-S.

To combine with: CRC CRT CRR CRSO SK-MB CCN CVP-MB  
CRC-ECM CRT-ECM MVI CRS-ECM SK-ECM-MB CCN-ECM CVP-ECM-MB

## Accessories for BMS systems which are not provided by Sabiana

for the **Carisma and SkyStar** Cassette fan coil ranges  
with AC asynchronous motor and with EC electronic motor and inverter board

Identification	Code
<b>Router-BMS</b>	<b>3021340</b>



## Router-BMS

The Router-BMS (ModBus) is an electronic board to use with BMS systems not supplied by Sabiana:

- it allows to set-up a Master/Slave sub-network to check as an independent network.

The number of Router-BMS (ModBus) to use is:

- maximum 14 Router-BMS.
- maximum 15 fan coils per Router-BMS.

To combine with: CRC CRT CRR CRSO SK-MB CCN CVP-MB  
CRC-ECM CRT-ECM MVI CRS-ECM SK-ECM-MB CCN-ECM CVP-ECM-MB



CONTROLS - 06/17  
Cod. 99A4CC0100 A/06/17

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