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SABIANA IL CLIMA AMICO

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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

> 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 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 🕼







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



for fan coils with AC asynchronous motor





- 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.

То	combine with:	CRC	CRT	CRR	CRSO	SK	CCN	CVP	MVI
Identification	Code								
CB-AUT	9066318	 Manual/aut Manual, au Automatic difference I Electronic I Simultanee It allows to change-ove Presence o N.B.: with 4 pip over in a 	tomatic 3 spe itomatic or co speed switch between roor room thermos ous thermost o control the o control the se o control the se o control	eed switch. entralized Su h: on Auto M n temperatur stat for valve atic control o low temperat chilled water summer/wint he water pipe al when the t and continuous he room tempe	mmer/Winter ode there is ti e and setpoint control (ON-4 f the valves ar cure cut-out th valve (ON-OF er cycle with a e (for 2-tube in hermostat is o chilled and hot rature (-1°C = 1)	switch. he automati DFF) (the fa nd fan. hermostat (N F) and the e centralized nstallations o n. water supply, i Winter, +1°C :	c speed select setpoint is rea n keeps work ITC). electric heater and remote se only). t allows the auto = Summer, Neu	tion in accor ched the fan ing). (BEL). witch or with pmatic summer tral Zone 2°C)	rdance to the goes on OFF. an automatic winter change-
		Control powe	er absorption	: 1,5 VA					

To combine with: CPC CPT CPP CPSO SK CCN CVP M)



for fan coils

with AC asynchronous motor, Crystall electronic filter or electric heater

Identification Code CB-IAQ 9066305	• Manual 3 sp • IAQ filter ac • Without the • It allows to	eed switch. tivation butt rmostatic co control the lo	on. ntrol. ow temperat	ure cut-out th	ermostat (T	ММ).		
To combine with:	CRC	CRT	CRR	CRSO	SK	CCN	CVP	MVI
Identification Code CB-R-IAQ 9066306 Image: Complex of the state of	 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 							
Identification	CKC	CKI	CKK	CKSU	SК	CCN	CVP	MVT
CB-AUT-IAQ 9066322								

• 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 changeover in accordance to the room temperature (-1°C = Winter, +1°C = Summer, Neutral Zone 2°C).

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



for fan coils

with EC electronic motor and inverter board

CB-T-FCM	9066320			
Identification	Code			



- 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.

To combine with:	CRC-ECM	CRT-ECM	CRS-ECM	SK-ECM	CCN-ECM	CVP-ECM
Identification Code CB-T-ECM-IAQ 9066308						
	 Manual 3 speed Manual, autom Continuous spe (speed switch if Electric heater, Automatic speed difference betw Electronic room Electronic room Simultaneous to It allows to cor Presence of a L Control power at 	d switch or autom atic or centralized ed control based n Auto position). (IAQ filter activatied switch: on Autor een room temper n thermostat for fin thermostat for on thermostatic cont ited the temperation .ED signal when the psorption: 1,5 VA	hatic continuous s d Summer/Winter on the difference ion button. to Mode there is t ature and setpoin an control (ON-OI valve control (ON-OI valve control (ON-OI rol of the valves a ture cut-out (NTC he thermostat is o	peed control. switch. between ambier the automatic sp t. When the setp FF). OFF) (the fan ke nd fan.).	nt temperature and beed selection in a oint is reached the beps working).	I Set temperature accordance to the a fan goes on OFF.



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



for fan coils with AC asynchronous motor

Identification	Code								
WM-TQR	9066631								
		 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 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. 							
Dimensions: 135	x86x31 mm								
То	combine with:	CRC	CRT	CRR	CRSO	SK	CCN	CVP	MVI
Identification WM-AU	Code 9066632	with UPM-	AU power ur	The c nit (fitted on	ontrol must alv the unit) or wi	ways be con th UP-AU po	nected ower unit (wit	h separate pa	ackaging).

• ON-OFF push button.

......

Dimensions: 135x86x24 mm

- 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).
- Simultaneus 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 changeover 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	CRT	CRR	CRSO	SK	CCN	(

Identification	Code	The control must always be connected							
І-МВ	9066331E	Wall control with display that allows controlling one or more units in Master/Slave mode. The control equipped with internal sensor to detect the room temperature, which can be defined as a priority compa to the return air sensor on the fan coil							
		 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/OFE program 							
Dimensions: 110	x72x25 mm	Control powe	Control power absorption: see the UP-AU power unit						
То	combine with:	CRC	CRT	CRR	CRSO	SK	CCN	CVP	MVI



MVI

for fan coils with AC asynchronous motor

Identification	Code
TMO-503-SV2	9060173



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).
- Simultaneus 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

Dimensions: 118x87x8 mm

То	combine with:	CRC	CRT	CRR	CRSO	SK	CCN	CVP	MVI
Identification	Code								
T2T	9060174								

		T.
1-00	00	the second secon

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.

Dimensions:	128x75x25	mm

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

with EC electronic motor and inverter board

Identification	Code						
WM-AU	9066632	with UPM-AU p	Tł ower unit (fitted	ne control must al on the unit) or wi	ways be connect th UP-AU power	ted · unit (with separa	te packaging).
		 ON-OFF push b Manual or autor Manual, autore Summer/Winte Electric heater/ Electronic room Simultaneus the It allows to use It allows to cont or as an integra Energy saving p Presence of a L 	utton. matic 3 speed pro atic or centralized r/Fan/Auto mode IAQ filter activati thermostat for fi ermostatic contro the low tempera crol the water valv ation element. bush button. ED signal when the	pgressive push but Summer/Winter push button. on button. an and water valv I of the valves and ture cut-out them es (ON-OFF) and t ne thermostat is o	tton. switch. es control (ON-0 d fan. nostat (NTC) mo he electric heate n.	DFF). punted on the UP r managed as main	AU power unit. n heating element
		over in accord	ance to the room te	mperature $(-1^{\circ}C =)$	Winter, +1°C = Su	mmer, Neutral Zone	2°C).
Dimensions: 13	5x86x24 mm	Control power ab	sorption: see the	UP-AU power uni	t		
То	combine with:	CRC-ECM	CRT-ECM	CRS-ECM	SK-ECM	CCN-ECM	CVP-ECM
Identification T-MB	Code 9066331E	with UPM-AU p Wall control with equipped with inter	The second secon	ne control must all on the unit) or wi vs controlling one sect the room temp	ways be connect th UP-AU power or more units in perature, which c	ted • unit (with separa • Master/Slave mo an be defined as a	te packaging). de. The control is priority compared
		The T-MB control • Switch the unit • Temperature see • Manual, automa • Set the fan spee • Set the operatio on the air temp • It allows to use • It allows to cont or as an integra • Time setting. • Weekly ON/OFF	features the folic ON and OFF. it. atic or centralized ed (low, medium, n mode (fan only, rerature). the low tempera rol the water valv ation element.	wing functions: Summer/Winter high or auto fan) cooling, heating; a ture cut-out thern es (ON-OFF) and t	switch. uto for 4 pipe sys nostat (NTC) mc he electric heate	stems with mode se punted on the UP-/ er managed as main	election depending AU power unit. n heating element
Dimensions: 11	0x72x25 mm	Control power ab	sorption: see the	UP-AU power uni	t		
То	combine with:	CRC-ECM	CRT-ECM	CRS-ECM	SK-ECM	CCN-ECM	CVP-ECM
Identification WM-S-ECM	Code 9066644	0-10V control wit • ON-OFF switch. • Manual 3 speec • Manual Summer • Summer/Winte • Electronic room • Electronic room • Simultaneus th • It allows to con Control power ab	h display designe I switch or autom r/Winter switch. r/Fan/Auto mode thermostat for v ermostatic contro trol the low temp sorption: 1,2 VA	ed to be mounted atic continuous sp push button. an control (ON-OF alve control (ON- I of the valves and erature cut-out th	on the wall or to reed control. F). DFF). d fan. ermostat (NTC)	be installed on a	503 wall box.
To	combine with:	CRC-FCM	CRT-FCM	CRS-FCM	SK-FCM	CCN-FCM	CVP-FCM
10	combine with.	CIVE LOIT	CIVI LON	CRO LUM	SIX LON	CON LON	CVI LUN



Power unit and speed switches for controls

for fan coils

Identification	Code	for WM-	AU and T-MB c	ontrols				
UPM-AU (mounted)	066641							
UP-AU (not mounted)	0066640	Power un It contr It is coi Possibil control: Possibil temper Power un	it to be install rols the fan an nnected to the ves the inform ity to use the the return air ity to use the s the summer ity to use the ature cut-out hit absorption:	ed on the d the val e electric low temp control. low temp /winter sy low temp thermost 2,3 VA	e fan coil (fan co ves of the fan co supply. Juired from the erature cut-out erature cut-out witch. erature cut-out at.	il interface). oil. control. thermostat (op thermostat (op	tional) for the T tional) for the T tional) for the T3	L function which 2 function which 6 function as low
		CRC	CRT	CRR	CRSO	SK	CCN	CVP
lo combine	with: CRO	C-ECM	CRT-ECM	MVI	CRS-ECM	SK-ECM	CCN-ECM	CVP-ECM
	For Far • Spee • It all	n Coils CRC d switch (S ows to con	C/CRT/CRR, M Slave). trol up to 8 ur	V-MVB ve	rsions. only one centrali	zed wall contro	I (1 speed switcl	ו for each unit).
To combine	with:	CRC	CRT	CRR	CRSO	SK	CCN	CVP
Identification Code SEL-CR 90663	for W	С-ЕСМ / <u>М-Т, WM-Т(</u>	QR and TMO-50	MVI 03-SV2 col	CRS-ECM	SK-ECM	CCN-ECM	CVP-ECM
	For Fai • Spee • It all	n Coils CRC ed switch (S ows to con	C/CRT, MO-IV- Slave). trol up to 8 ur	IO version	ns. only one centrali	zed wall contro	l (1 speed switcl	ו for each unit).





Power unit and speed switches for controls

for fan coils

Identification Code	for WM-T, WM	-TQR and TMO-5	03-SV2 co	ntrols			
SEL2M 9079109	For Fan Coils C • Speed switch • It allows to co	oanda CCN and (Slave). ontrol up to 8 u	SkyStar nits with	SK versions. only one central	ized wall contro	ol (1 speed switc	h for each unit).
To combine with	CRC	CRT	CRR	CRSO	SK	CCN	CVP
Identification Code SEL-CVP 9025302	For Fan Coils C • Speed switch • It allows to co	-TQR and TMO-5 VP version. (Slave). ontrol up to 8 u	03-SV2 co	ntrols	ized wall contro	ol (1 speed switc	h 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

Identification	Code	for CB	-C and CB-R-IAC) controls				
ТМЕ	3021091				-			
		Low ten • To be • When wires. • It stop higher	nperature cut-c fitted between connecting the os the fan when r than 42°C.	the coil f control, the wat	ostat fins. the TME probe o er temperature	cable must be s is lower than 3	separated from t 8°C and it starts	he power supply the fan when is
То	combine with:	CRC CRC-ECM	CRT CRT-ECM	CRR MVI	CRSO CRS-ECM	SK SK-ECM	CCN CCN-ECM	CVP CVP-ECM
Identification	Code	for CB,	, CB-T, CB-IAQ a	and WM-T	controls			
	\boldsymbol{N}	• It stop higher	os the fan when r than 38°C.	i the wat	er temperature	is lower than 3	u~C and it starts	the fan when is
То	combine with:	CRC	CRT	CRR	CRSO	SK	CCN	CVP
	combine with.	CRC-ECM	CRT-ECM	MVI	CRS-ECM	SK-ECM	CCN-ECM	CVP-ECM
Identification NTC	Code 3021090	For CB Low ten • To be • When wires. • It stop higher To use a • T1 fur • T2 fur	AUT, CB-AUT-I nperature cut-co fitted between connecting the ps the fan when r than 33°C. as: nction for the re nction which co	AQ, WM-Tri but therm the coil f control, n the wat eturn air n ntrols the	QR controls and t oostat fins. the NTC probe o er temperature control. e summer/winte	he UP-AU power cable must be s is lower than 2 r switch.	eparated from ti 8°C and it starts	he power supply the fan when is
То	combine with:	CRC CRC-ECM	CRT CRT-ECM	CRR MVI	CRS0 CRS-ECM	SK-ECM	CCN CCN-ECM	CVP CVP-ECM



Accessories for controls

for fan coils

Identification	Code	for CB	-C, CB-R-IAQ, C	B-AUT, CE	3-AUT-IAQ and W	M-TQR controls	_	
CH 15-25	9053049	Change • Auton • For 2	e-over natic summer/v tube installatio	vinter sw ns only (itch to be install not to be used v	led in contact w vith 2 way valve	ith the water cir e).	cuit.
To see		CRC	CRT	CRR	CRSO	SK	CCN	CVP
lo cor	nbine with:	CRC-ECM	CRT-ECM	MVI	CRS-ECM	SK-ECM	CCN-ECM	CVP-ECM
Identification	Code	for UP	-AU power unit					
Т2	9025310			•				
		To be p valve). • The T • Cha If w tem • It ca The tem If w othe	laced on the wa 2 sensor must nge-Over for th ater temperatu perature excee an be used on ro perature detect ater temperatu er hand, if wate	be used a be automa re is low ds 30°C, units with be activa ted. ure excee r temper	ly pipe upstream as described behatic switch of the er than 20°C, c heating mode is electric heater tes the electric ds 34°C, the w ature is lower th	n 3 way valves ow: e operating mo ooling mode is s set. and hot water s heater or wate ater valve ON- nan 30°C, the e	(not to be used de. set; on the othe supply (EXCEPT r valve, dependi OFF control is a lectric heater is	with 2 way er hand, if water <i>SkyStar).</i> ing on the water ctivated; on the activated.
To cor	nbine with:							
		CRC-LCM	CRIFLUM	11111		JN-LUM	CUNFLUM	UVF-LUM



for fan coils with AC asynchronous motor

FreeSabiana is an innovative,

fully wireless, electronic system for use with fan coil units, based on radio communication.

This technology, that took 4 years to be set-up, provides installation flexibility and a more accurate measurement of the room temperatur.

The probe can be moved until the most suitable position is found, without the worry of changes in the room layout and of its furniture and also without mounting it on a wall. If a new fan coil unit is added, no electrical wiring for the control system is required: just define the control unit and the probe which regulates it.

The improved measurement accuracy is a result of the possibility to position the probe



near the user location: this enables to keep the temperature exactly at the required value with energy savings compared with a traditional measurement system.

Transmission is based on communication protocol IEE802.15.4, the most suitable way to transmit a relatively low amount of information with very low consumption and high reliability.

The system has been certified by a leading

independent body, officially recognized by the EU authorities and its sale has been authorized in all the EU and EFTA countries.



for fan coils

with AC asynchronous motor

Main components:

Identification Code Free-Com 9060572	
	 Remote control A remote control which features a button panel and LCD display and can be wall mounted or positioned on a dedicated table support. It enables the control of all the operating variables of the fan coil units in different configurations The control is battery powered. The temperature and the operating speed of the fan coil unit are set with two large buttons featuring user friendly graphics. It allows to run by a maximum of 25 units divided into a maximum of 4 areas with different temperatures.
Identification Code Free-Upm (mounted) 9060571 Free-Usm (mounted) 9079107 Free-Ups (not mount.) 9060570	for Carisma fan coils for SkyStar fan coils
	 Power unit A power unit to be installed on the fan coil (fan coil interface). It controls the fan and the valves of the fan coil. The power unit is connected to the electric supply. The power unit receives the information required to control the fan coil both from the remote control and locally, such as the temperature of the coil.
IdentificationCodeFree-Sen9060573	
	 Temperature probe A room temperature probe, which can be wall mounted or positioned on a dedicated table support. It is a battery powered device, able to measure the air temperature in the spot where it is positioned, generating temperature information which is communicated to the other devices Only one Free-Sen per area.
To combine with: C	RC CRT CRR CRSO SK CCN CVP MVI



for fan coils with AC asynchronous motor

Radio communication among the components:



Mesh network

Affiliation system



The communication protocol has been developed using multi-centre Mesh network logic, where each unit can exchange information with the nearby units.

If a node fails, the other nodes can replace it, automatically rerouting information.

This way, it is possible to realize redundant paths which increase the overall reliability of the system.

Before transmitting information, the system looks for most stable of the 16 available channels and waits for a "return receipt", that is a confirmation of the successful transmission of the information.

All the power unit s on the fan coil unit s continuously transmit any information received to all the components of the network, greatly increasing transmission reliability.

The maximum number of fan coil units which can be controlled by a single control unit is 25, with the possibility to control up to four zones with different temperatures.

In the same building there can be several control units, that is several networks.

The affiliation procedure (the definition of which units are controlled by the control unit and by the probe) is quite simple and is carried out during system commissioning by means of a cable (provided) to be inserted in the specific connectors.

Battery life depends on the frequency of control parameters changes. Indicatively it last for 12 months.

If a control unit needs to be replaced, for instance due to an accidental fall, during the connection of the new control by cable to the fan coil unit, all the information about the network structure is transferred to the control unit, without having to redefine all the network components and all the temperature/operating values set.

The receiving power of the signal, as maximum distance among each item of the network, is of:

- 12 metres for the normal floor installations;
- 8 metres for the normal floor installations within brick walls or drywall;
- 6 metres for the normal concealed installations (false ceilings,etc.).



for fan coils

with AC asynchronous motor

Main features of the remote control:



- 5) Electric heater
- 6) Electrostatic filter

(13)

(1)

- 7) Room temperature (with decimal accuracy)
- 12) Transmission signal
- 13) Battery level

Main features of the power unit to be installed on the fan coil:

The power unit controls the fan and the valves of the fan coil. The power unit receives the information required to control such units both from the remote control and locally.

It enables the following main actions:

- Fan ON/OFF at a set speed.
- Fan speed change (fan ON/OFF).
- Water valve/s ON/OFF (1 valve for 2 tube system- 2 valves for 4 tube system).
- Fan speed change operating the water valve/s.
- Control of the electric heater as main heating unit or as integration to the battery supplied with hot water.
- Control of the operation of the electrostatic filter (in parallel to the fan).
- Management of the dead zone function for 4-tube systems.
- Available functional inputs: Consent for remote ON/OFF;
 - Consent for remote Summer/Winter switch (centralized);
 - Consent for the activation of the energy saving function with setting change;
 - Minimum probe;
 - Probe for season change.

Main features of the temperature sensor:



This device is able to measure the temperature of the air in the spot where it is positioned and to transmit it by means of radio communication to the other devices in the system. It is battery powered and can be freely positioned at a maximum of 6 metres distant from the UP-AU power unit in the area to be air-conditioned.

Display:

- Measured environment temperature.
- Clock.
- Transmission signal.Battery status.



(12) (9) (10)

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	
MB-M (mounted)	9066332	with electric asynchronous motor
MB-S (not mounted)	9066333	✓
MB-ECM-M (mounted)	9066334	with electronic motor and inverter board
MB-ECM-S (not mount.)	9066335	•

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 $% \left(A_{1}^{2}\right) =0$ 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 complete outillat	CRC	CRT	CRR	CRSO	SK	CCN	CVP-MB
to combine with:	CRC-ECM	CRT-ECM	MVI	CRS-ECM	SK-ECM	CCN-ECM	CVP-ECM-MB



for the Carisma fan coil range

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

Identification	Code			
Т-МВ	9066331E			
Image: Second	2x25 mm	 T-MB wall control Wall control with display that allows controlling of The control is equipped with internal sensor to defined as a priority compared to the return air 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° vari supervisory program or PSM-DI). Set the fan speed (low, medium, high or auto for Set the operation mode (fan only, cooling, heatin depending on the air temperature). Time setting. Weekly ON/OFF program. Display and change of the fan coil operation paid of the fan coil operation p	one or more units in M detect the room temp sensor on the fan coil. : ation of the set point co an). g; auto for 4 pipe syste rameters. <i>CVP-MB.</i>	aster/Slave mode. erature, which can be nfigured from Sabianet ms with mode selection
		T-MB version fitted on the unit for fan coil with casing only version: CRC / CRC-ECM CRT / CRT-ECM CRR		
	Des	cription	Identification	Code
Control fitted or	the unit, for MV	Т-МВ-М	9066344	
supplied with separa	Control fitt te packaging, for	T-MB-S	9066343	
Control fitted on	the unit, for MV /	T-MB-M-DX	9066346	
supplied with separat	Control fitt e packaging, for	T-MB-S-DX	9066345	

* = to combine with MB board only

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



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 st	RM-RT03	9066336
RT03 infra-red remote control with receiver supplied with separate packaging *	RS-RT03	9066337
RT03 infra-red remote control with receiver supplied with separate packaging *	RT03	3021203
Receiver for RT03 infra-red remote control fitted on the unit, for MV / MO-MVB models \ast	RM	9066339
Receiver for RT03 infra-red remote control supplied with separate packaging *	RS	9066338
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>	RS-RT03-F	9025301
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>	RS-F	9025300



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 MB board only

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



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.





for the SkyStar SK-MB / SK-ECM-MB fan coil ranges

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

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.

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.

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







for the SkyStar SK-MB / SK-ECM-MB fan coil ranges

IdentificationCodeT-MB9066331E	
	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
Dimensions: 110x72x25 mm	 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
to combine with:	CRC-ECM	CRT-ECM	MVI	CRS-ECM	SK-ECM-MB	CCN-ECM	CVP-ECM



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)	RCS-RT03	9079117
Receiver for RT03 infra-red remote control supplied with separate packaging (to be used with SK-MB and SK-ECM-MB version only)	RCS	9079116
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)	RS	9066338
		•





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

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.





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.



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)	PSM-DI	3021293

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





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)	Sabianet	9079118

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
to combine with:	CRC-ECM	CRT-ECM	MVI	CRS-ECM	SK-ECM-MB	CCN-ECM	CVP-ECM-MB



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







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.

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

1	2 pipe unit	TI Faula OFF
2	Thermal station with valves	I Faut of F
3	T3 disabled	T2 Fault OFF
4	T3 only winter when enabled	12 Fault OFF
5	Simultaneous ventilation of valves	T2 Fault OFF
6	Unit without eletrical heater	IS Fault Off
7	T2 as CH Change-over (resistence phase II)	Condecation OFF
8	UNIT ALERT	condesation off
9	Remote ON/OFF input	
10	MASTER	



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.

Ongoing alarms													
At	Ad	Address			Unit name			Group			Alarm type		
No alarms													
Alarms log													
From	То	To Address			Unit name			Group			Alarm type		
No alarms													
lotification													
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]	۲	0	0	0	0		۲	0	0	0	0		
Condensate alarm on unit	۲	0	0	0	0		۲	0	0	0	0		
25 26 35 FBN		0	0	0	0	177		0	0	0	0	-	

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							
SIOS	3021292	SIOS	;					
		SIOS deactiv actuat The SI • insid • to a	is a board equ vation of remo ors or externa IOS boards car le a network m PSM-DI panel	uipped wi ote electr I consent n be conr nanaged (one SIC	ith 8 relays witi ic utilities. Mor ts, such as mot nected: by Sabianet. DS for each PSM	h potential free c eover, the board or or other. 1-DI panel).	ontact to contr has 8 digital ir	ol the activation or nlets to display the
Identification	Code							
Router-S	3021290	Route	er-S					
		The Ro • allow divid • it all The Ro The nu	outer-S is an e vs creating net le the network ows creating a outer-S can be umber of Route	electronic tworks w (per floo Master/ used on er-S to b	board that: with more than br, building, etc Slave sub-netw ly inside a netw e used is: • up	60 units (minimu .). vork to be control vork managed by to 60 units: no R	um 2 Router-S lled as an indip Sabianet. Router-S.	are required) or to endent group.
•					• fro • eve	m 61 to 120 unit ery 60 subsequer	s: 2 Router-S. ht units: 1 addi	tional Router-S.
To	mbing with	CRC	CRT	CRR	CRSO	SK-MB	CCN	CVP-MB
	mbine with:	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												
Router-BMS 3021340	Route	Router-BMS										
	The R Sabiaı • it all The nu • max	 The Router-BMS (ModBus) is an electronic board to use with BMS systems not supplied Sabiana: it allows to set-up a Master/Slave sub-network to check as an indipendent 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					







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