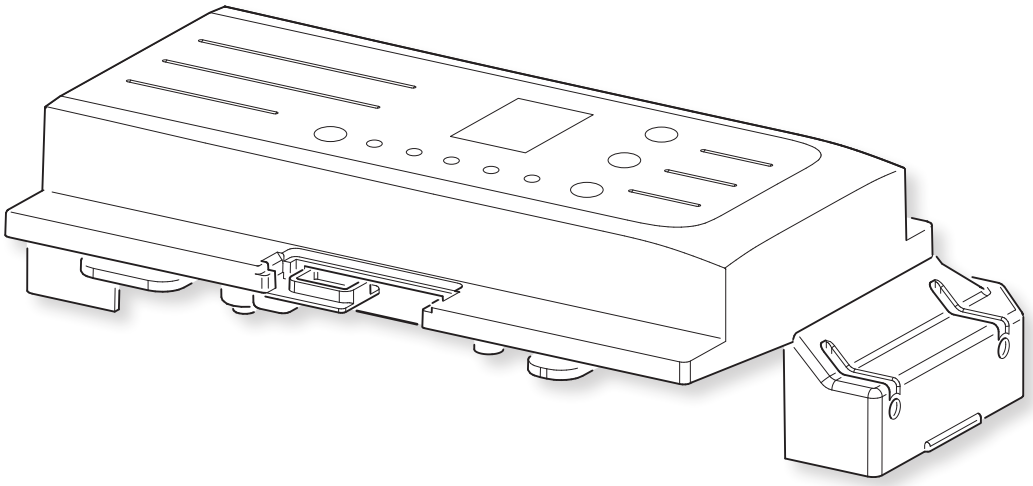
KIT B0872



ISTRUZIONI PER MONTAGGIO E USO KIT ELETTRONICI **IT**

INSTRUCTIONS FOR MOUNTING AND USE OF ELECTRONIC KITS **EN**

INSTRUCTIONS POUR LE MONTAGE ET L'UTILISATION DES KITS ÉLECTRONIQUES **FR**

MONTAGE- UND GEBRAUCHSANLEITUNG FÜR ELEKTRONISCHE BAUSÄTZE **DE**

INSTRUCCIONES PARA MONTAR Y UTILIZAR KITS ELECTRÓNICOS **ES**

INSTRUÇÕES PARA MONTAGEM E UTILIZAÇÃO DOS KITS ELETRÓNICOS **PT**

AANWIJZINGEN VOOR DE MONTAGE EN HET GEBRUIK VAN ELEKTRONISCHE KITS **NL**

ΟΔΗΓΙΕΣ ΓΙΑ ΤΗ ΣΥΝΑΡΜΟΛΟΓΗΣΗ ΚΑΙ ΤΗ ΧΡΗΣΗ ΤΩΝ ΗΛΕΚΤΡΟΝΙΚΩΝ ΚΙΤ **EL**

OLIMPIA SPLENDID

HOME OF COMFORT

AVVERTENZE IT

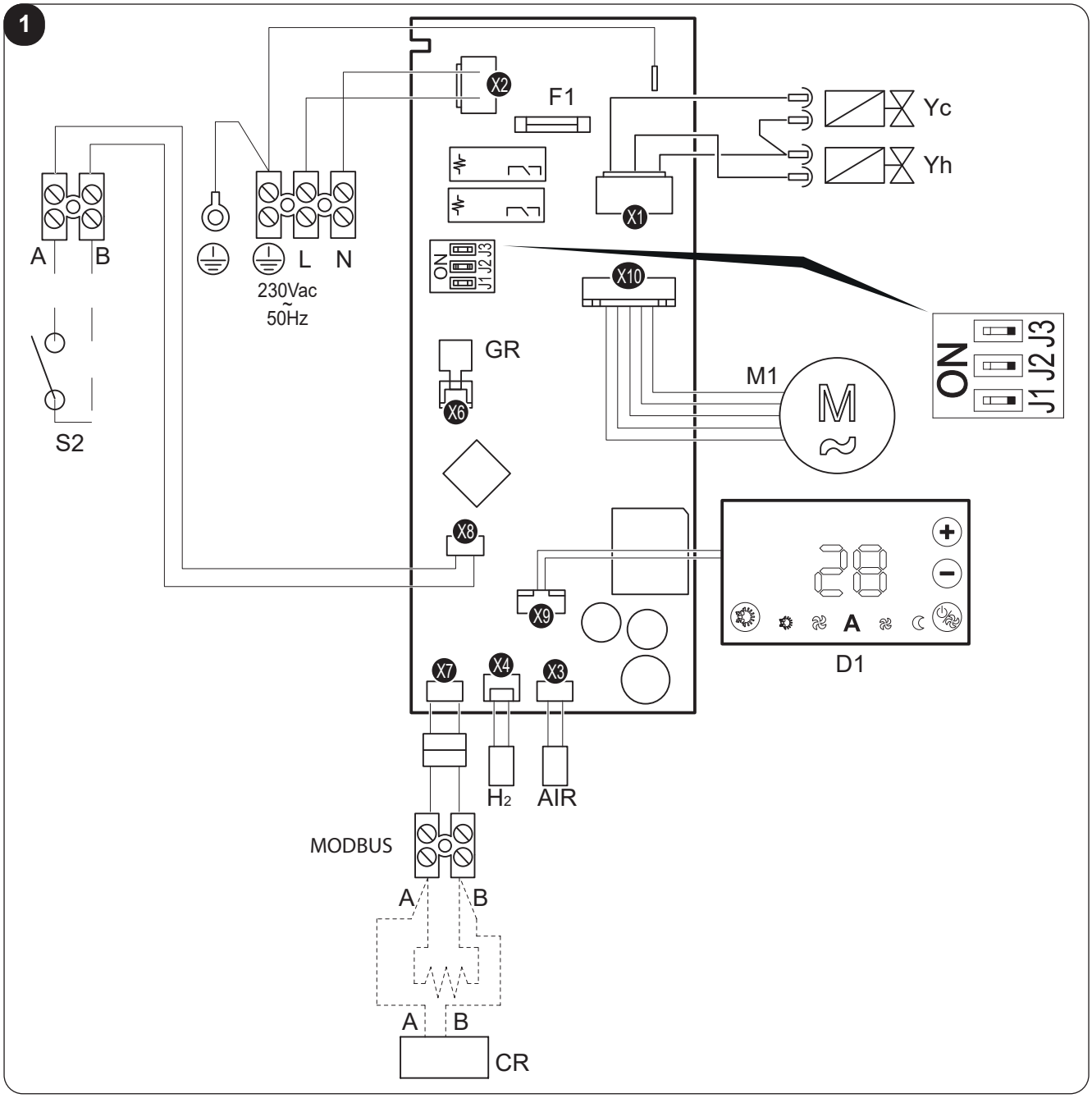
1. L'apparecchio può essere utilizzato da bambini di età non inferiore a 8 anni e da persone con ridotte capacità fisiche, sensoriali o mentali, o prive di esperienza o della necessaria conoscenza, purché sotto sorveglianza oppure dopo che le stesse abbiano ricevuto istruzioni relative all'uso sicuro dell'apparecchio e alla comprensione dei pericoli ad esso inerenti.
   I bambini non devono giocare con l'apparecchio.
2. La pulizia e la manutenzione destinata ad essere effettuata dall'utilizzatore non deve essere effettuata da bambini senza sorveglianza.
3. L'installazione, il primo avviamento e le successive fasi di manutenzione, eccetto la pulizia o il lavaggio del filtro dell'aria ambiente, devono essere eseguite esclusivamente da personale autorizzato e qualificato.
   In ogni caso, essendo incorporati all'interno dell'impianto, la conformità dei ventil-radiatori / ventilconvettori nell'installazione specifica dovrà essere verificata e garantita dall'installatore in ottemperanza alle leggi e ai regolamenti applicabili.
4. Se il cavo di alimentazione è danneggiato, esso deve essere sostituito dal costruttore o dal suo servizio assistenza tecnica o comunque da una persona con qualifica similare, in modo da prevenire ogni rischio.
5. Per prevenire ogni rischio di folgorazione è indispensabile scollegare l'alimentazione elettrica prima di effettuare ogni operazione di manutenzione sull'apparecchio.
6. Per il corretto funzionamento dell'apparecchio, rispettare le distanze minime e le indicazioni riportate nel manuale di uso e manutenzione.

WARNINGS EN

1. The appliance may be used by children over 8 years of age and by persons with reduced physical, sensory or mental capacities, or without the required experience or knowledge, provided they are supervised or have been instructed in the safe use of the appliance and understand the hazards involved.
   Children must not play with the equipment.
2. Children must not be allowed to clean the appliance or perform user maintenance without proper supervision.
3. Installation, first start-up and the subsequent maintenance phases, except for cleaning or washing of the ambient air filter, must be carried out exclusively by authorized and qualified personnel.
   In any case, since they are incorporated inside the system, conformity of the fan radiators / fan coils in a specific system shall be verified and ensured by the installer in compliance with the applicable laws and rules.
4. If the power cable is damaged, it must be replaced by the manufacturer or by its technical support service or by similarly qualified personnel, to prevent any risk to the user.
5. To prevent any electrocution risk, it is essential to disconnect power supply before carrying out any maintenance operation on the appliance.
6. For correct operation of the appliance, respect the minimum distances and the indications in this use and maintenance manual.

AVERTISSEMENTS FR

1. L'appareil peut être utilisé par des enfants âgés d'au moins 8 ans et par des personnes avec des capacités physiques, sensorielles ou mentales limitées, qui manquent d'expérience ou des connaissances nécessaires, à condition qu'elles soient sous surveillance ou quand elles ont reçu des consignes concernant l'utilisation en toute sécurité de l'appareil et la compréhension des dangers qui lui sont inhérents.
   Les enfants ne doivent pas jouer avec cet appareil.
2. Le nettoyage et l'entretien qui incombent à l'utilisateur ne doivent pas être effectués par les enfants sans surveillance. »
3. L'installation, le premier démarrage et les phases successives de l'entretien, sauf le nettoyage ou le lavage du filtre de l'air ambiant, doivent être exécutés exclusivement par un personnel autorisé et qualifié.
   En tout cas, étant incorporés dans l'installation, la conformité des ventilo-radiateurs / ventilo-convecteurs dans l'installation devra être vérifiée et garantie par l'installateur conformément aux lois et aux règlements applicables.
4. Si le câble d'alimentation est endommagé, il doit être remplacé par le fabricant ou par son service d'assistance technique ou, quoi qu'il en soit, par une personne possédant une qualification similaire, de manière à éviter tous les risques.
5. Pour éviter tout risque d'électrochoc, il est essentiel de débrancher l'alimentation électrique avant de procéder à toute opération de maintenance sur l'appareil.
6. Pour un fonctionnement correct de l'appareil, respecter les distances minimales et les indications contenues dans le mode d'emploi et d'entretien.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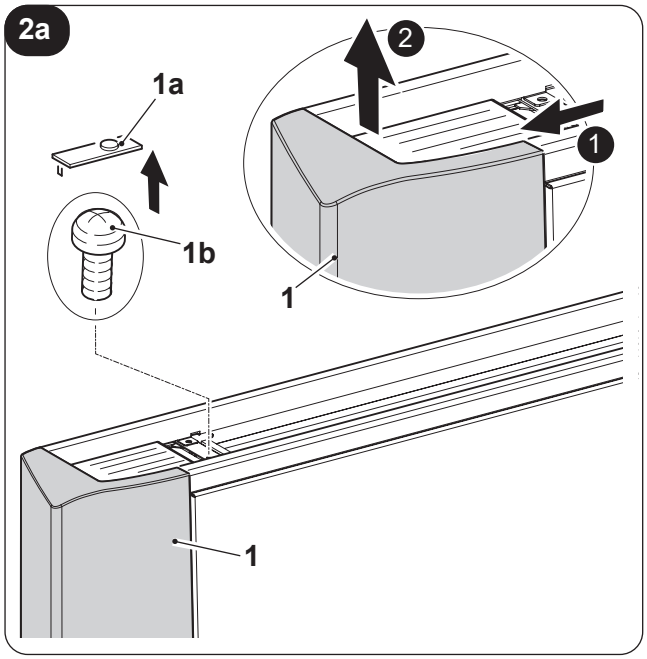
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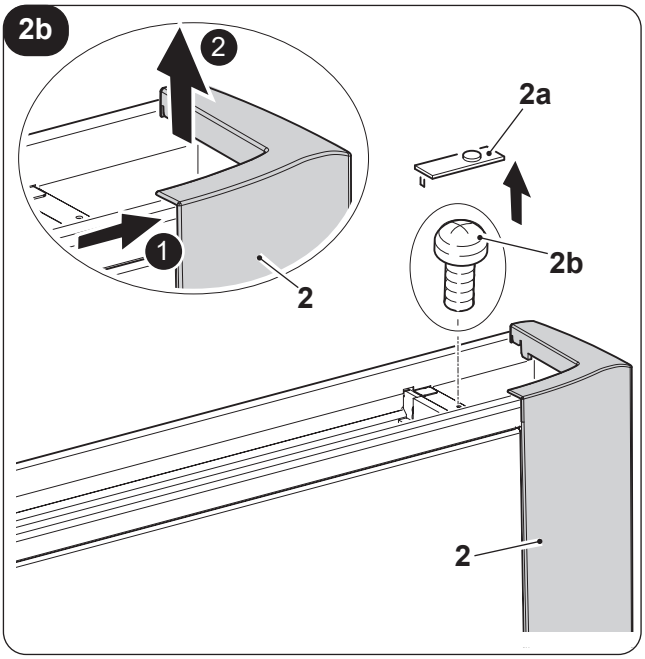
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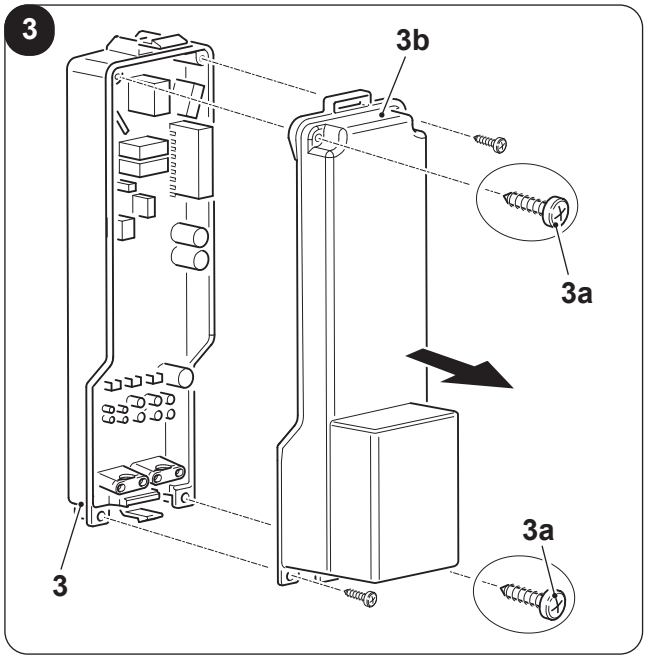
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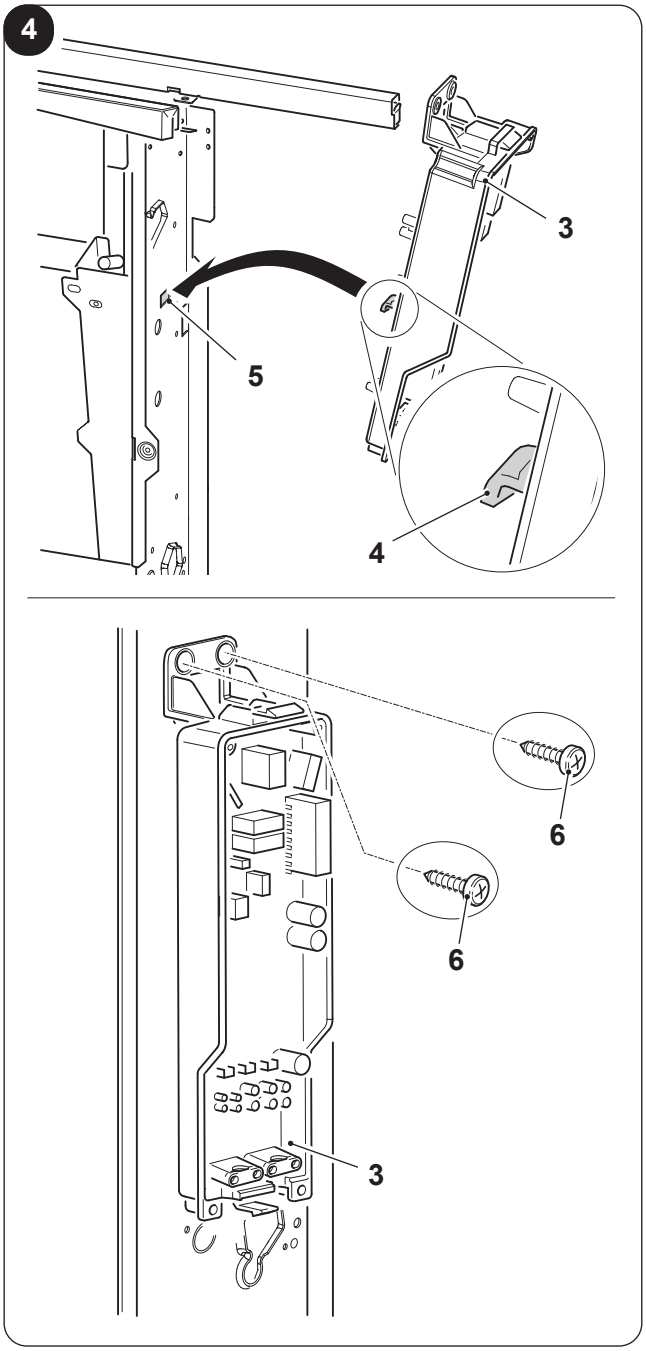
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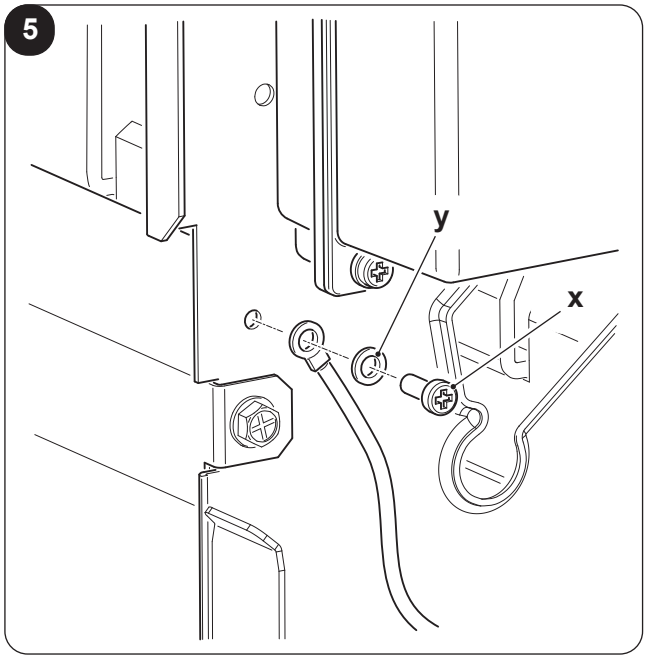
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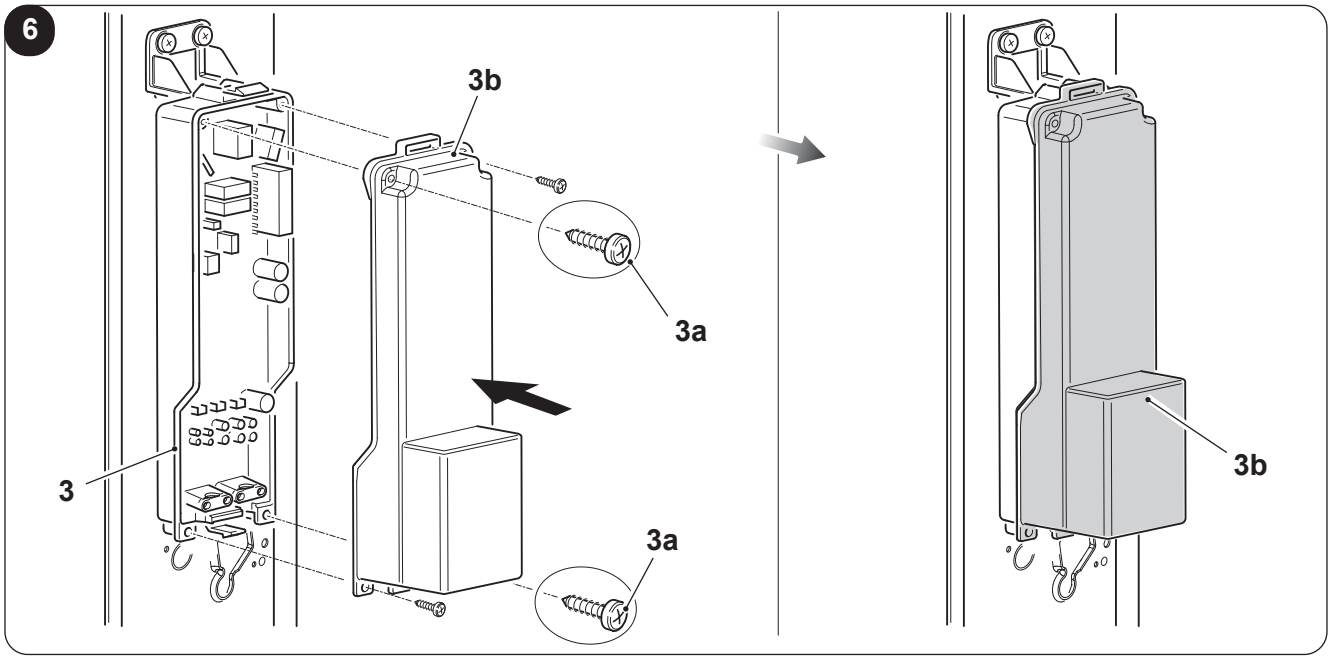
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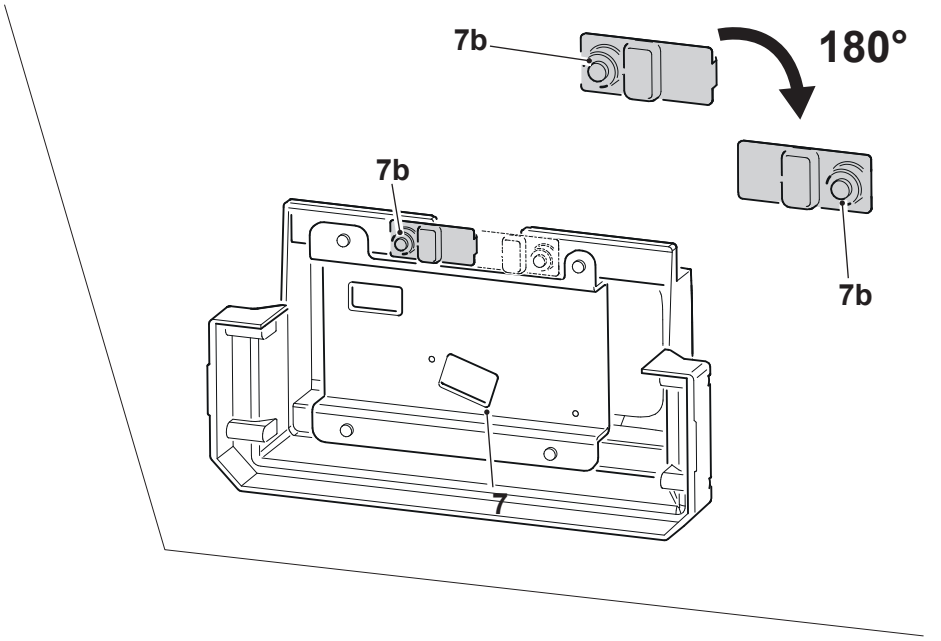

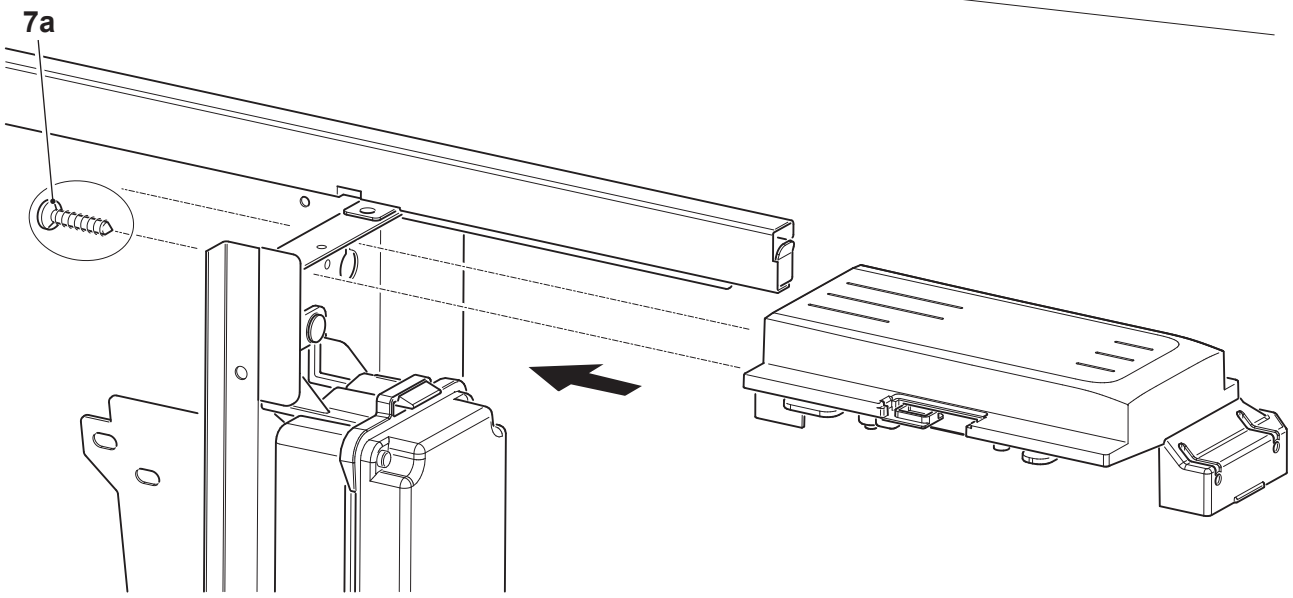

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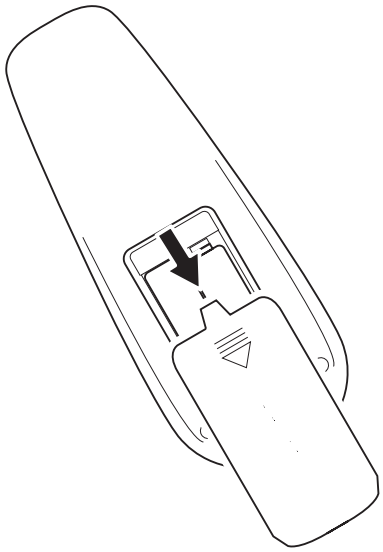
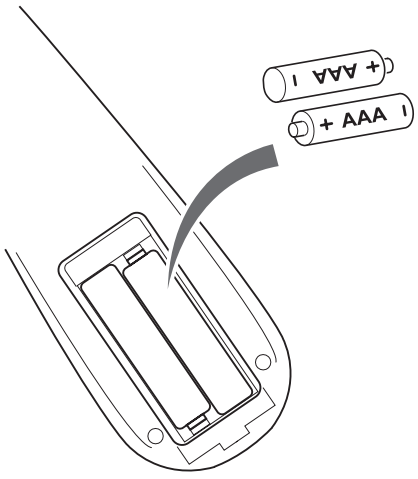
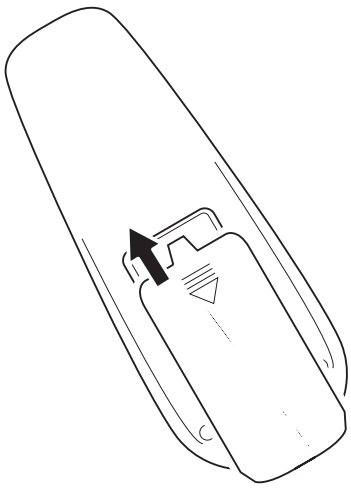
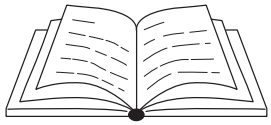






MAIN INDEX



DISPOSAL

This symbol on the product or its packaging indicates that the appliance cannot be treated as normal domestic trash, but must be handed in at a collection point for recycling electric and electronic appliances.

Your contribution to the correct disposal of this product protects the environment and the health of your fellow men. Health and the environment are endangered by incorrect disposal.

Further information about the recycling of this product can be obtained from your local town hall, your refuse collection service, or in the store at which you bought the product.

This regulation is valid only in EU member states.

ENGLISH

ILLUSTRATIONS
The illustrations are grouped on the initial pages of the manual

ENGLISH

0 - WARNINGS

0.1 - GENERAL INFORMATION

First of all, we would like to thank you for choosing our appliance.

0.2 - SYMBOLS

The pictograms in the next chapter provide the necessary information for correct, safe use of the machine in a rapid, unmistakable way.

0.2.1 - Editorial pictograms

	Indicates that this document must be read carefully before installing and/or using the appliance.
	Indicates that this document must be read carefully before any maintenance and/or cleaning operation.
	Indicates that there may be additional information in attached manuals.
	Indicates that information is available in the user manual or in the installation manual.
	Indicates that the assistance personnel must handle the appliance following the installation manual.
	Indicates that the appliance uses inflammable refrigerant. If the refrigerant escapes and is exposed to a source of external ignition, there is a fire risk.
	Signals to the personnel that the operation described could cause electrocution if not performed according to the safety rules.
	It informs the personnel concerned that if the operation is not carried out in compliance with the safety regulations, it presents the risk of suffering physical damage.
	It informs the personnel concerned that if the operation is not carried out in compliance with the safety regulations, it presents the risk of burns due to contact with components at very high temperatures.
	Paragraphs marked with this symbol contain very important information and recommendations, particularly as regards safety. Failure to comply with them may result in: - danger of injury to the operators - loss of the warranty - refusal of liability by the manufacturer.
	Refers to actions that absolutely must not be performed.
	Indicates to the personnel concerned, that it is prohibited to cover the appliance, to prevent over-heating.

0.3 - GENERAL WARNINGS

**WHEN USING ELECTRICAL EQUIPMENT,
BASIC SAFETY PRECAUTIONS MUST ALWAYS BE FOLLOWED IN ORDER TO
REDUCE RISKS OF FIRE, ELECTRIC SHOCKS
AND INJURY, INCLUDING THE FOLLOWING:**

1. **This document is restricted in use to the terms of the law and may not be copied or transferred to third parties without the express authorization of the manufacturer, OLIMPIA SPLENDID. Our machines are subject to change and some parts may appear different from the ones shown here, without this affecting the text of the manual in any way.**
2. **Read this manual carefully before performing any operation (installation, maintenance, use) and follow the instructions contained in each chapter.**
3. **Make all personnel involved in transport and installation of the machine aware of these instructions.**
4. **After removing the packaging, ensure that the appliance is undamaged; the elements of the packaging must not be left within the range of children as they are a potential source of danger.**
5. **THE MANUFACTURER IS NOT RESPONSIBLE FOR DAMAGES TO PERSONS OR PROPERTY CAUSED BY FAILURE TO FOLLOW THE INSTRUCTIONS IN THIS MANUAL.**
6. **The manufacturer reserves the right to make any changes it deems advisable to its models, although the essential features described in this manual remain the same.**
7. **Failing to comply with the instructions contained in this manual, and using the unit with temperatures exceeding the permissible temperature range will invalidate the warranty.**
   During installation of the unit, it is necessary to ensure that the rear area of the appliance cannot be accessed.
8. **During installation and maintenance, respect the precautions indicated in the manual, and on the labels applied inside the units, as well as all the precautions suggested by good sense and by the safety regulations in effect in your country.**
9. **In case of replacement of parts, use only original OLIMPIA SPLENDID parts.**
10. **Do not disconnect power supply during operation.**
    Risk of fire or electric shock.
11. **Before electrically connecting the appliance, make sure that the label data correspond to those of the electricity distribution network.**
    The power socket must be equipped with ground connection.
12. **Install the appliance according to the instructions of the manufacturer. A wrong installation may cause damages to people, animals or things for which the manufacturer cannot be held liable.**
13. **Installation of the plug must be carried out by professionally qualified personnel, who shall ensure that the section of the cables of the socket is suitable for the power absorbed by the appliance. In general, it is not advised to use adapters and/or extension cables; if their use becomes**

essential, they must comply with the safety standards and their current carrying capacity (A) must not be lower than the maximum one of the appliance.

14. Do not use the appliance:
    - with wet or moist hands;
    - barefoot.

15. Do not pull the power cord or the appliance itself to disconnect the plug from power supply.

16. Do not handle power supply with wet hands.
17. Do not bend excessively, twist, pull or damage the power cord.
18. In no way obstruct the air intake and outlet grilles.

19. Do not insert foreign objects in the air intake and outlet grilles since there is the risk of electric shock, fire or damages to the appliance.
20. In case water leakages, set the main switch of the system to “OFF” and close the water valves.
    Call, as soon as possible, the Technical Assistance Service of OLIMPIA SPLENDID or professionally qualified personnel and do not intervene personally on the appliance.
21. Disassembly, repair or reconversion by an unauthorized person may cause serious damages and will nullify the warranty of the manufacturer.

22. Do not use the appliance in case of failure or bad operation, if power supply is damaged, or if the appliance has been dropped or damaged in any way. Switch off the appliance, disconnect the power supply and have it checked by professionally qualified personnel.
23. Do not disassemble nor modify the appliance.
24. Repairing the appliance by yourself is extremely dangerous.
25. A temperature too low or too high, depending on the modes of operation, is harmful to health and constitutes an useless waste of energy.
    Avoid direct contact with the air flow for a prolonged period.
    Avoid that the room remains closed for a prolonged period.
    Periodically open the windows to ensure correct air recirculation.
26. Any cleaning operation is prohibited if the appliance has not been disconnected from the electricity distribution network by setting the main power switch to “OFF”.

27. It is prohibited to change the safety or adjustment devices without authorization or indications of the appliance manufacturer.

28. It is prohibited to step on the appliance and/or to place any type of object on it.

29. The appliance can reach temperatures higher than 70°C on the external components.
    PAY PARTICULAR ATTENTION TO CONTACT, DANGER OF BURNS.

30. OLIMPIA SPLENDID's fan radiators/fan coils are compliant with the European Directives:

- **Low voltage directive 2014/35/EU**
- **Electromagnetic compatibility directive 2014/30/EU.**
- **RoHS directive 2011/65/EC.**

In any case, since they are incorporated inside the system, conformity of the fan radiators / fan coils in a specific system shall be verified and ensured by the installer in compliance with the applicable laws and rules.

1 - INSTALLATION

1.1 - MODE OF INSTALLATION

The following descriptions on the various phases of assembly and the corresponding drawings refer to a version of the machine with connections to the left.
The descriptions for the assembly operations of the machines with connections to the right are the same.
Only the figures must be considered as shown specularly.

1.2 - OPENING THE UNIT (Fig.2a-2b)

a. Raise the lid (1a) and undo the screw (1b).
b. Slightly move the side panel (1) rightwards and raise it.
c. Raise the lid (2a) and undo the screw (2b).
d. Slightly move the side panel (2) leftwards and raise it.

1.3 - ASSEMBLY AND CONNECTIONS

a. Undo the screws (3a) (fig.3).
b. Remove the cover (3b) of the box (3) (fig.3).
c. Wedge in the locks (4) in the specific slots (5) located on the side of the appliance (fig.4).
d. Secure the box (3) to the appliance by means of the two screws (6) (fig.4).
e. Connect the ground cable to the appliance structure using the supplied screw (x) and the washer (y) (minimum force for screwing is 4 N) (fig.5).
f. Connect the power cord to the terminal block and fix it in the specific strain relief.
g. Remount the cover (3b) of the box (3) and tighten the screws (3a) (fig.6).
h. Insert the control panel (7) in the seat positioned in the upper part of the fan coil/fan radiator, then secure it to the side part by means of the two supplied screws (7a) (fig.7).
i. If the control must be installed on the left side of the machine, repeat the steps from point "**a**" to point "**i**", but move the support (7b) as indicated in figure 7 instead.

Once the connection operations and possible configuration are complete, close the electric panel by means of the previously removed screws.
Reposition the front panel taking care to connect the connector of the display.
Secure the front panel by means of the screws, then power the machine.

2 - ELECTRICAL CONNECTION

Before carrying out any electrical connection, make sure that power supply is disconnected by the units and that the systems to which the equipment must connect are compliant with the current standards.

In case you want to proceed with installation without plug, proceed as described below:
- Use a cable with a minimum section of 3G 0,75
- Use a ground cable at least 20 mm longer than the active wires.
- Connect the ground connection wires to the corresponding terminal.
- Pull the wires to make sure they are connected correctly, then stop them with the specific cable tie.

For correct dimensioning of the guards, please refer to voltage and current consumption indicated on the label located on the unit.

The appliance connection MUST respect the European and national standards and MUST be protected by a 30 mA differential switch.

Connection to the mains supply can be carried out with fixed connection or with mobile plug and MUST be equipped with an omnipolar switch compliant with the current IEC EN standards, with a contact opening of at least 3mm (better if equipped with fuses).

Correct connection to the ground system is essential to ensure safety of the appliance.

Wiring diagram key (fig.1)

H2: Water temperature probe
AIR: Air temperature probe
M1: Fan motor
Yh: Hot water 230V-50Hz solenoid valve, max 10W
Yc: Cold water 230V-50Hz solenoid valve, max 10W
Gr : Grille input contact
F1: Fuse
L: Line
N: Neutral
S2: Presence contact input
A: Modbus line or presence contact input (Yellow)
B: Modbus line or presence contact input (Orange)
D1: Visualization display
CR: Remote control

2.1 - CONFIGURATION

The printed circuit board must be configured depending on the type of installation and based on particular operating preferences of the machine.
The three selectors J1, J2 and J3 indicated in fig. 1 must be set as described in the next page:

J1. ON: in night mode, heating works in natural convection and irradiation mode only, without ventilation; In all the other cases of heating, ventilation switches off approximately 1°C before reaching the desired temperature and continues in irradiation and natural convection only up to the desired temperature.
J1. OFF: for appliances without radiant panel: heating occurs always through forced convection, with activation active also in night mode (at reduced speed).

J2. ON: in cooling mode, the fan remains powered even upon reach the desired ambient temperature.
J2. OFF: in cooling mode, the fan id deactivated upon reaching the set temperature.

>>>>>

J3. ON: for appliances to be installed in 2-pipes systems: the board is set for management of a single water valve (Yh) for summer (cooling) and winter (heating) operation.
J3. OFF: for appliances to be installed in 4-pipes systems: the board is set for management of two water valves, one for summer (Yc - cooling) operation and one for winter (Yh -heating) operation.

The three selectors can be positioned in all the possible combinations since the respective functions are independent from each other.

At each reactivation, the display shows the code corresponding to the setting of the internal selectors for 5 seconds:

D1	C0	C1	C2	C3	C4	C5	C6	C7
J1	OFF	OFF	OFF	OFF	ON	ON	ON	ON
J2	OFF	OFF	ON	ON	OFF	OFF	ON	ON
J3	OFF	ON	OFF	ON	OFF	ON	OFF	ON

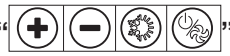
2.2 - PRESENCE CONTACT INPUT

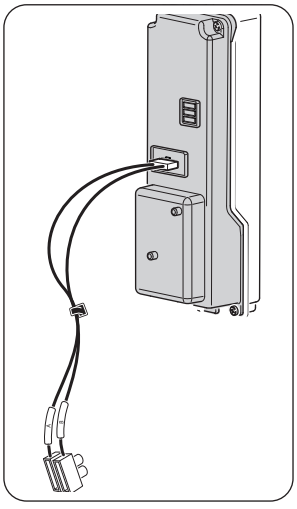
To the terminals "**A"** and "**B"** of the internal terminal box (fig. 1), it is possible to connect the volt-free contact, not live, of a possible presence sensor (not supplied) at the closure of which, the appliance is deactivated (factory setting stand-by).
It is possible, in factory or at an authorized assistance centre upon prior request of the customer, change this function so as that, at the closure of the contact, the selected room temperature is automatically increased (in cooling) or decreased (in heating) of a specific "Economy function".

It is not possible to connect the parallel input the one of other circuit boards; use separate contacts.

To connect the presence sensor, it is necessary to use a double-insulated cable with a minimum section of 2x0,5 mm^2 and maximum length of 20 m. Keep this connection separated from the power supply line of the appliance.

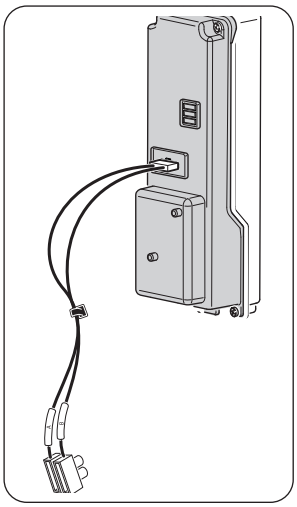
2.3 - CONNECTION WITH WIRED REMOTE CONTROL B0736 OR THIRD PARTIES MODBUS

- Connect the cables coming from the **"A B"** connection of the B0736 command with the respective wires on the mammoth connected to the panel lid, taking care to respect the polarity, yellow cord "**A**" and orange cord "**B**", connecting the farthest unit with the 120 Ohm resistor supplied with the appliance.
- Enable Remote configuration (paragraph "2.5", configuration parameter "**CF**").
- All the commands **"**  **"** shall be disabled and the message *"rE"* will appear on the display every time they are activated.
- The indicator **"** **"** shows the chosen mode of operation, the indicators **"** **", "A", "** **"** and **"** **"** and the set fan speeds.
- As regards the functionalities and settings, see the instructions of command B0736.



- When the unit is configured for remote control, the remote controller is disabled.
- It is not possible to control the flap from remote control.
- In this mode, the air probe installed on board the fan coil is ignored.

2.4 - CONNECTION WITH SIOS CONTROL



- Connect the cables coming from the **"A B"** connection of SIOS CONTROL with the respective wires on the mammoth connected to the panel lid, taking care to respect the polarity, connecting the farthest unit with the 120 Ohm resistor supplied with the appliance.
- Enable Autonomous configuration (paragraph "2.5", configuration parameter "**CF**").
- Set the protocol type ASCII if SIOS CONTROL envisages B0863 or RTU if SIOS CONTROL does not envisage B0863 (paragraph "2.5", configuration parameter "**bU**").
- Set the address, each appliance must have an address different from all the other units connected to the same BUS (paragraph "2.5", configuration parameter "Ad").

- As regards mounting of the connections, proceed by following the indications described in the previous paragraphs.

2.5 - BOARD CONFIGURATION

Work as follows:

a. Connect power supply, then ensure that the latter is set to any mode except for stand-by.
b. On the control panel, simultaneously press the key **"⏻"** (T2) and **"−"** (T1) for at least 5 seconds, until an acoustic signal is emitted.
c. The display shows the reference to the parameter
d. Scroll using the key **"+"** or **"−"** (T1) until you select the desired parameter
e. Press the key **"+"** or **"−"** (T1) to scroll the list of parameters: CF -> bU -> Ad -> Fa -> Po -> co -> CF -> …
f. Press key **"⏻"** (T2) to access the value
g. Release and press key **"⏻"** (T2) for more than 3 seconds to change the value (Display blinking)
h. Press key **"+"** or **"−"** (T1) to scroll the possible values of the parameters
i. Press key **"⚙"** (T3) to confirm the value
j. Press key **"⚙"** (T3) to exit the configuration or wait 20 seconds.

Quit and give power voltage to the system to start the unit under the new configuration.

ID	Name	Description	Permitted values
CF	Configuration	Configure the type of control	AU : Autonomous rE : Remote
bU	Bus Protocol	Allows to configure the type of bus used	AS : ASCII rt : RTU
Ad	Unit Address	Allows to set/change the unit address (insert the value in hexadecimal format)	00 -> FF (255)
Fa	Fancoil Type	Allows to select the type of fancoil	_0: With flap (200-1000) _1: With flap (1100-1600) _2: Without flap (200-1000)
Po	Position of installation	Allows to select where the fancoil has been installed	uP : roof installation dO : floor installation

ID	Name	Description	Permitted values
co	Temperature compensation	Allows to choose the compensation value to use	-5 : 5

bU – BUS Protocol:

Modicon Modbus" ASCII type	Modicon Modbus RTU type
Baudrate = 9600	**Baudrate = 9600**
data bits = 7	**data bits = 8**
stop bit = 1	**stop bit = 1**
equality = yes	**equality = no**

Ad - Unit Address:

In the event of need, it is possible to change the unit address. The value must be entered in hexadecimal format. The table below indicates the conversion of the first 80 numbers from decimal to hexadecimal format, for the next numbers, please refer to the specific tables which can be consulted on the web.

Decimal	Hexadecimal	Decimal	Hexadecimal
1	01	41	29
2	02	42	2A
3	03	43	2B
4	04	44	2C
5	05	45	2D
6	06	46	2E
7	07	47	2F
8	08	48	30
9	09	49	31
10	0A	50	32
11	0B	51	33
12	0C	52	34
13	0D	53	35
14	0E	54	36
15	0F	55	37
16	10	56	38
17	11	57	39
18	12	58	3A
19	13	59	3B
20	14	60	3C
21	15	61	3D
22	16	62	3E
23	17	63	3F
24	18	64	40
25	19	65	41
26	1A	66	42
27	1B	67	43
28	1C	68	44
29	1D	69	45
30	1E	70	46
31	1F	71	47
32	20	72	48
33	21	73	49
34	22	74	4A
35	23	75	4B
36	24	76	4C
37	25	77	4D
38	26	78	4E
39	27	79	4F
40	28	80	50

Co – temperature compensation:
If the particular installation of the unit requires it, it is possible to add compensation on the reading of ambient temperature from -5°C to +5°C active in any mode, except for automatic mode.

If the unit has a roof configuration, the unit has a default compensation of -3°C which can be changed by the installer

3 - USE OF THE APPLIANCE

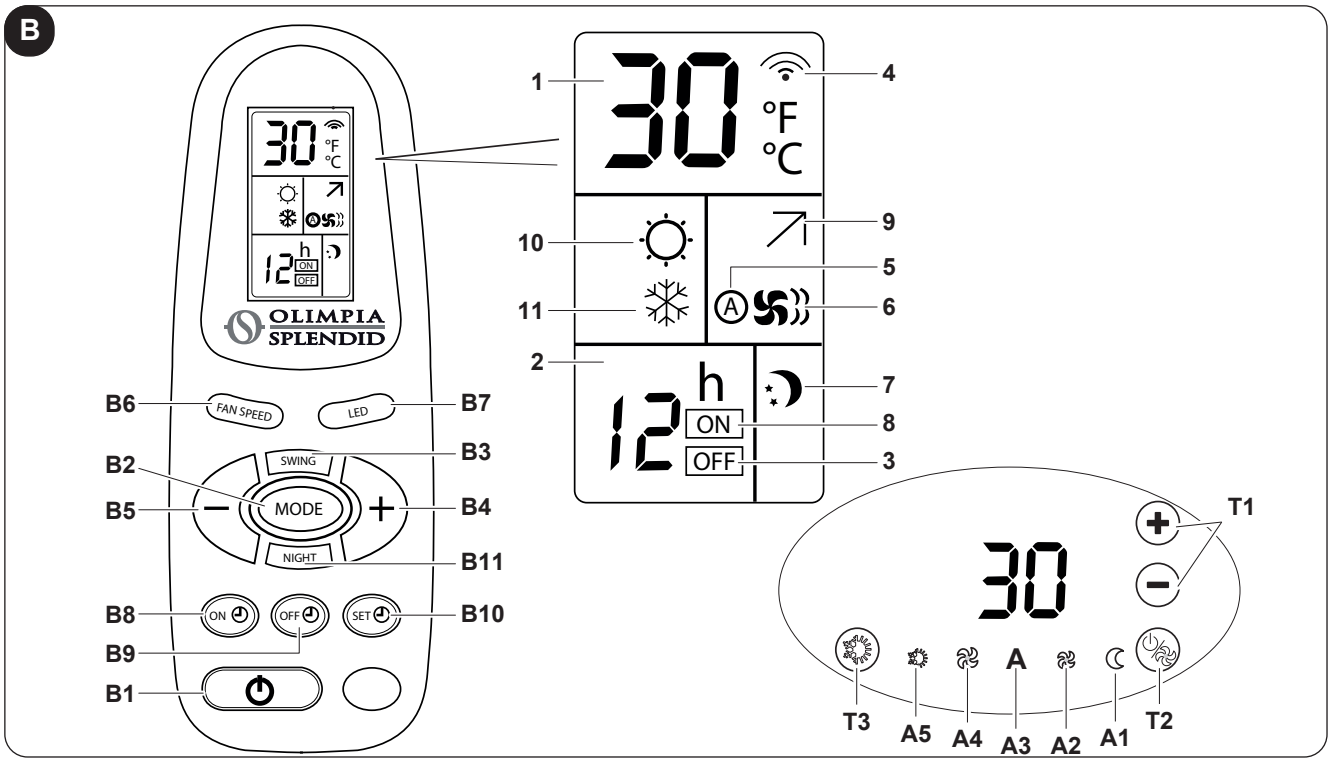
3.1 - SYMBOLS AND KEYS OF THE CONTROL PANEL (Fig.B)

- **T1**: Ambient temperature selector (15°C-30°C)
- **T2**: ON/Stand-by and fan operation selection key
- **T3**: Cooling/heating/fan mode selection key
- **A1**: Nigh operation indicator
- **A2**: Silent/minimum speed operation indicator
- **A3**: Automatic operation indicator
- **A4**: Maximum speed operation indicator
- **A5**: Cooling/heating mode operation indicator

The control makes ambient temperature adjustment completely independent thanks to the programs AUTO, SILENT, NIGHT and MAX by means of a probe positioned in the lower part of the fan radiator/fan coil and ensures an antifreeze safety even when it is set to stand-by.

3.2 - SYMBOLS AND KEYS OF THE REMOTE CONTROLLER (Fig.B)

- **B1**: ON/Standby
- **B2**: Operating mode selection (cooling => fan => heating)
- **B3**: Flap position selection (only models with Flap)
- **B4**: Increase temperature
- **B5**: Decrease temperature
- **B6**: Fan speed selection (max speed => medium speed => min speed => auto….)
- **B7**: LED
- **B8**: Unit programmed switching on setting
- **B9**: Unit programmed switching off setting
- **B10**: Unit programmed switching on/off confirmation/cancellation
- **B11**: Night mode selection (on/off)
- **1**: Temperature setting
- **2**: Delay setting
- **3**: Programmed switching off
- **4**: Remote controller transmission
- **5**: Auto fan mode
- **6**: Fan speed / Fan mode
- **7**: Night mode
- **8**: Programmed switching on
- **9**: Swing mode active
- **10**: Heating mode active
- **11**: Cooling mode active



3.3 - USE OF THE REMOTE CONTROLLER

The remote controller supplied with the appliance has been designed so as to grant it maximum robustness and exceptional functionality, but it still needs to be handled with care.

Avoid:

- ***leaving it exposed to rain, pouring liquids on its keyboard or dropping it in water;***
- ***making it undergo excessive shocks or dropping it on hard surfaces,***
- ***leaving it exposed to sun rays,***
- ***interposing obstacles between the remote controller and the appliance while the remote controller is being used.***

Additionally:

- ***if other appliances equipped with remote controller (TV, radio, stereo units, etc.) are used in the same room, some interferences may occur;***
- ***electronic and fluorescent lamps may interfere with the communications between the remote controller and the appliance,***
- ***extract the batteries in case of prolonged inactivity of the remote controller.***

3.3.a - Inserting the batteries

To correctly insert the batteries:

a. Remove the cover of the battery compartment (Fig.8).

b. Insert the batteries in the specific compartment (Fig.8).

Scrupulously respect the polarities indicated on the bottom of the battery compartment.

c. Correctly close the cover (Fig.8).

3.4 - REPLACING THE BATTERIES

Always use new batteries.
The use of old batteries or of batteries of a different type may generate a malfunction of the remote controller.

- The remote controller uses two 1,5V dry-cell alkaline batteries (AAA type) (Fig.8).

3.5 - USE OF THE APPLIANCE

To use the appliance, work as follows.

3.5.a - Appliance switching on/off

In the event that a main switch has been installed on the power line, it must be switched on.

a. To switch on/off the fan coil/fan radiator, press key **"**  **"** (T2) for 2 seconds.

b. The appliance can be switched on or off by pressing key "**B1**" on the remote controller.
All the timers are reset when the appliance is switched off.

The absence of any light signal identifies the 'stand-by' status, absence of function.

When the control is set to this mode of operation, it ensures safety against freezing. In the event that ambient temperature drops below 5°C, the hot water solenoid valve and the fan motor at minimum speed are activated, the display shows code "AF".

3.6 - AUTOMATIC COOLING /HEATING MODE

Setting this type of adjustment allows the control to automatically carry out the selection of cooling or heating mode, based on the difference between temperature set by the user and ambient temperature.

a. To activate/deactivate this function, keep the cooling/heating selection key "**B1**" pressed for 10 seconds until the blue and red symbols (A5) light up alternatively.
This setting is maintained also in the event of power interruption.
b. Then, ensure that when the set temperature is changed, the unit alternates cooling only (blue indicator "A5" on), fan (blue and red indicators off) or heating only (red v "A5" on) mode.

c. Pressing key "**B1**" for 2 seconds allows to cyclically select cooling (blue LED), heating (red LED) or fan (red LED and blue LED off) mode.

In this mode, read ambient temperature compensation is disabled.
This setting can only be carried out from the panel on board the machine.

3.7 - MANUAL COOLING/ HEATING MODE

From board the machine
a. To activate/deactivate this function, keep cooling/heating selection key "**T3**" pressed for 10 seconds until the blue and red symbols (A5) light up alternatively.
This setting is maintained also in the event of power interruption.
b. Pressing key "**T3**" for 2 seconds allows to cyclically select cooling (blue LED), heating (red LED) or fan (red LED and blue LED off) mode.

From remote controller
a. To activate/deactivate this function, press key "**B2**" until the heating only (10) or cooling only (11) symbols appear on the remote controller

From the remote controller it is not possible to change setting from manual mode to automatic mode.

3.8 - FAN MODE

When this mode is used, the appliance does not exercise any action on temperature or air humidity in the room, but only keeps it in circulation.

From board the machine
a. Pressing key "**T3**" for 2 seconds allows to cyclically select cooling (blue LED), heating (red LED) or fan (red LED and blue LED off) mode.
b. Under this operating mode, the internal fan is always on and it is possible to select the desired speed of the fan at any moment by pressing the specific key "**T2**".

The desired temperature which operates on the automatic speed of the fan can be selected only from board the machine: the more the desired temperature deviates from ambient temperature, the more the fan speed is high.

These are the possible speeds for the fan.

MAXIMUM speed
MINIMUM speed
Ⓐ AUTO speed

From remote controller
a. This function can be selected by pressing key "**B2**" until when the two heating (10) or cooling (11) symbols are both off.
b. Under this operating mode, the internal fan is always on and it is possible to select the desired speed of the fan at any moment by pressing the specific key "**B6**".

In fan mode, the solenoid valve remains disabled, while the fan is activated at the set speed.

3.8.a - Operation at maximum speed

From board the machine

a. To select this mode, press key **"** **"** (T2) several times until the indicator (A4) activates.
b. With this mode it is possible to obtain the maximum supplied power both in cooling and heating modes (the fan motor is always activated at maximum speed).

From remote controller

a. To select this mode, press key "**B6**" several times until the indicator (6) activates completely.

3.8.b - Operation at AUTO speed

From board the machine

a. To select this mode, press key **"** **"** (T2) several times until the indicator (A3) activates.
b. In this mode, the fan speed adjustment is completely automatic between a minimum and maximum value, according to the heating or cooling needs of the room

From remote controller

a. To select this mode, press key "**B6**" several times until the indicator (5) activates.

3.9 - NIGHT OPERATION

From board the machine

a. To select this mode, press key **"** **"** (T2) several times until the indicator (A1) activates.
b. The function deactivates automatically when the fan speed is changed by means of the key **"** **"** (T2).

From remote controller

a. To select this mode, press key "**B11**" until the indicator (7) activates.
b. To be able to change ventilation speed, it is necessary to disable the function by pressing key "**B11**" first.

When this function is enabled, the internal fan is forced at minimum speed and the set ambient temperature changed automatically as follows:
- decreased by 1°C after one hour and by another degree after 2 hours in heating function;
- increased by 1°C after one hour and by another degree after 2 hours in cooling function.

If the unit has been configured as radiant (J1 in ON position), night ventilation speed selection inhibits the rotation of the fan.

3.10 -MEANING OF BLINKING AND OPERATION OF THE LED

- The blinking LED (A5) indicates that the request for water (hot or cold) has not been met and causes the stop of the fan as long as water temperature does not reach an appropriate value which can meet the request.
- The alternate switching on of the red and blue LEDs (A5) indicates that the automatic cooling/heating mode is active.
- The 4 LEDs **"** **"**, **"** **"**, **"** **"** and **"** **"** indicate the set fan speed. If all the 4 LEDs are off, Stand-by mode is active.

Each one of these LEDs is active in soft-blinking if in heating or cooling mode (red or blue LEDs “A5”on). The set temperature is respectively lower or higher than the ambient temperature detected by the appliance.

To increase comfort at night, the LEDs brightness on the electronic panel is decreased after 15 seconds of inactivity on the keys or on the temperature selector.

Only from remote controller, press key “**B7**” to be able to switch off the LEDs on the control panel after 15 seconds of inactivity on the keys.
Every time the keys are pressed on the control panel, the LEDs brightness returns at maximum level over the following 15 seconds.

3.11 - SPECIAL FUNCTIONS

3.11.a - Air sampling

In heating or cooling mode and with ambient temperature higher or lower than the desired value, the fan is periodically powered for 1 minute at minimum speed. This way, the system is able to adequately keep temperature in the room under control and to reactivate faster in case of need.

This function is ONLY active if the unit is installed in high position.

3.11.b - Commands lock

To lock the keys on board the machine, keep keys **“⊕|⊖”** (T1) pressed simultaneously for 5 seconds. The activation of the function is verified by the visualization of (BL) on the display every time any key is pressed.

This function can only be activated/deactivated from board the machine.

3.11.c - Water not suitable

The effective operation of the appliance in cooling or heating mode is always conditioned by temperature of water circulating inside the system. If water temperature does not reach a value suitable for the set mode, so if water is too hot in cooling mode or too cold in heating mode, the fan motor remains off and the indicator of the current mode (A5) blinks.

- The function is active in cooling mode if the unit is not thermostatic and if water temperature in the battery is higher than 20°C from more than 5 minutes.
  The unit immediately resumes normal operation of one of the two conditions is not met anymore.
- The function activates in heating mode if the unit is not thermostatic and if water temperature in the battery drops under 30°C (the fan stops immediately).

In heating mode, the unit restarts normal operation only if temperature is higher than 30°C for at least 30 seconds

3.11.d - Water probe inhibition

If a particular system requires it, it is possible to inhibit the control of the unit on unsuitable water temperature.

- Disconnect the unit from the power supply.
- Disconnect the battery probe from the connector X4
- Switch on the unit and wait that the alarm “***E3”*** appears on the display.
- Press keys **“(T2)”** (T2) and **“(T3)”** (T3) simultaneously for at least 10 seconds, at this point the alarm is disabled and the display shows the desired temperature.

To reactivate the control of water temperature (from disconnected machine), it is necessary to reconnect the probe.

3.12 -DISPLAY ROTATION

If the installation of the unit requires it, it is possible to rotate temperature on the display 180° by pressing "⊖" (T1) and "⚙" (T3) simultaneously for at least 5 seconds.

This function can only be activated/deactivated from board the machine.

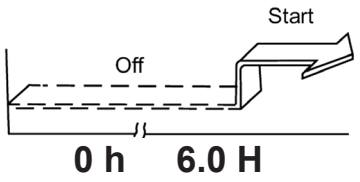
3.13 -OPERATION WITH TIMER (DELAYED SWITCHING ON AND SWITCHING OFF)

This mode allows to program the unit switching on and switching off
The delay time can be set, activated and cancelled from the remote controller.

3.13.a - Setting of the switching on timer from remote controller

a. After switching on the unit, select the operating mode, desired temperature and fan speed with which the unit will reactivate at the programmed switching on.
Then, set the machine to Stand-By mode.
b. Press key "**B8**" to set the desired delay (from 1 to 24 hours) after which the unit will switch on starting from timer confirmation.
c. If no key is pressed within 5 seconds, the timer setting function will end automatically.
d. The remote controller display shows the countdown for switching on while the display of the fan coil shows the message "tI".

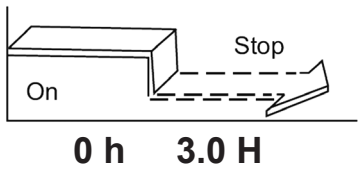
Once the set time passes, the unit will start with the last selected settings.



3.13.b - Setting of the switching off timer from remote controller

a. With the unit set to any operating mode, press key "**B9**" to set the desired delay (from 1 to 24 hours) after which the unit will switch off starting from timer confirmation.
b. If no key is pressed within 5 seconds, the timer setting function will end automatically.
d. The remote controller display shows the countdown for switching off while the display of the fan coil shows the message "tI".

Once the set time passes, the unit will switch off.



3.14 -SWITCHING OFF FOR PROLONGED PERIODS

If the appliance is not used for a prolonged period of time, it is necessary to carry out the following operations:

a. Set the main switch of the system to "off".
b. Close the water valves.
c. If the risk of frost exists, make sure that antifreeze liquid has been added to the system, empty the system otherwise.

The antifreeze function is not active.

3.15 -LEDs KEY

Unit status	D1 (white)	Mode A5 (red/blue)	Max A4 (white)	AutoFan A3 (white)	Min A2 (white)	Night A1 (white)
Stand-by mode	OFF	OFF	OFF	OFF	OFF	OFF
Cooling mode	-18 ÷ 30	ON blue	X	X	X	X
Heating mode	-18 ÷ 30	ON red	X	X	X	X
Automatic commutation mode	-18 ÷ 30	X	X	X	X	X
Fan mode	-18 ÷ 30	OFF	X	X	X	X
Fan max speed	X	X	ON **	OFF	OFF	OFF
Fan auto speed	X	X	OFF	ON **	OFF	OFF
Fan min speed	X	X	OFF	OFF	ON **	OFF
Night mode	X	X	OFF	OFF	OFF	ON **
Antifreeze function ON	**'AF'**	OFF	OFF	OFF	OFF	OFF
Water temperature NOT SUITABLE in heating mode	-18 ÷ 30	ON red (B)	X	X	X	X
Water temperature NOT SUITABLE in cooling mode	-18 ÷ 30	ON blue (B)	X	X	X	X
Timer ON active	**'t I'**	OFF	OFF	OFF	OFF	OFF
Timer OFF active	**'t I' + Tset**	X	X	X	X	X
Controls lock	**'bL'**	X	X	X	X	X
Thermostat remote control (7)	**'rE'**	X	X	X	X	X
Autonomous control	**Au**	X	X	X	X	X
Configuration submenu	**cF**	X	X	X	X	X
Bus configuration submenu	**bU**	X	X	X	X	X
Address configuration submenu	**Ad**	X	X	X	X	X
Fancoil Type configuration submenu	**Fa**	X	X	X	X	X
Installation position configuration submenu	**Po**	X	X	X	X	X
Compensation management	**co**	X	X	X	X	X

** : If blinking : unit with set point reached
(B) : LED blinking

3.16 -ALARMS KEY

ALARMS	D1 (white)	Mode A5 (red/blue)	Max A4 (white)	AutoFan A3 (white)	Min A2 (white)	Night A1 (white)
Main board communication error	**E1** (B)	OFF	OFF	OFF	OFF	OFF
Ambient temperature sensor alarm	**E2** (B)	OFF	OFF	OFF	OFF	OFF
Water temperature sensor alarm	**E3** (B)	OFF	OFF	OFF	OFF	OFF
Fan motor alarm	**E4** (B)	OFF	OFF	OFF	OFF	OFF
Serial port communication error	**E5** (B)	OFF	OFF	OFF	OFF	OFF
Air grille switch alarm	**E6** (B)	OFF	OFF	OFF	OFF	OFF

(B) : LED blinking

4 - INCONVENIENCES AND POSSIBLE SOLUTIONS

MALFUNCTION	CAUSE	SOLUTION
Ventilation activation is delayed with respect to the new temperature or function settings.	- The circuit valve requires a certain time for its opening and therefore to make hot or cold water circulate in the appliance.	- Wait 2 or 3 minutes so that the circuit valve opens.
Ventilation speed increases or decreases automatically.	- The electronic control works so as to adjust the best level of comfort.	- Wait for temperature adjustment or select silent function in case of need.
The appliance does not start ventilation.	- Hot or cold water is missing in the system.	- Check that the boiler or the water refrigerator are operational.
The fan does not activate even if there is hot or cold water in the hydraulic circuit.	- The hydraulic valve remains closed - The ventilation motor is locked or burned out. - The electrical connections are not correct.	- Dismount the valve body and check if water circulation is restored. - Check the operating status of the valve by powering it separately at 220 V. If it activates, the problem may be in the electronic control. - Check the motor windings and the free rotation of the fan. - Check the electrical connections.
The appliance loses water during heating function.	- Losses in the water connection of the system. - Losses in the valves unit.	- Check the loss and firmly tighten the connections. - Check the status of the seals.
Dew formations are present on the front panel.	- The thermostatic valve integrated in the connection unit between panel and battery does not close flow towards the wall. - Thermal insulators are disconnected.	- Replace the junction which integrates the thermostatic valve in the water inlet upper unit. - Check for correct positioning of the thermoacoustic insulators, paying particular attention to the front one above the finned battery.
A few water drops are present on the air outlet flap.	- In situations of high relative ambient humidity (>60%) condensation phenomenons may occur, especially at minimum ventilation speeds.	- Once relative humidity drops, the phenomenon disappears. In any case, the possible fall of some water drops inside the appliance does not indicate a malfunction.

MALFUNCTION	CAUSE	SOLUTION
The appliance loses water during cooling only function.	- The condensation basin is clogged. - The condensation drain has not the necessary inclination for correct drainage.	- Slowly pour a water bottle in the bottom part of the battery to ensure drainage; if necessary, clean the basin and/or improve inclination of the drain pipe.
	- The connection pipelines and the valves unit are not insulated correctly.	- Check for insulation of the pipelines.
The appliance emits excessive noise.	- The fan touches the structure. - The fan is unbalanced.	- Check for possible interferences by manually rotating the fan. - Unbalancing determines excessive vibrations of the machine: replace the fan.
FI: The fan coil needs maintenance.		- Select the program stand-by - Clean the air filter as described on the maintenance manual of the machine - Switch the unit on and keep keys "**T2**" and "**T3**" pressed for 5 seconds until normal operation is restored.
E2: indicates the presence of a failure in the ambient temperature probe.		- Contact assistance
E3 is associated with the failure of the water probe.		- Contact assistance
E4 indicates a failure of the motor.		- Contact assistance
E5 indicates an anomaly in communication with the remote controller.		- Contact assistance

Do not try to repair the equipment by yourself.

If the problem has not been solved, please contact your local retailer or the closest assistance service. Supply detailed information on the malfunction and on the equipment model.

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