AERMEC

INSTALLATION AND USER MANUAL

CWX250W
CWX350W
CWX500W
CWX700W

AERMEC
COMPANY QUALITY SYSTEM
ICIM
ISO 9001:2008 - Cert. n° 0128
CISQ IQNet
AERMEC S.P.A.

CE

EN

1806 - 6396456_00

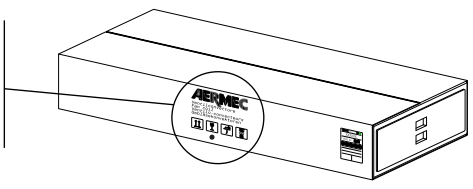
TRASPORTO • TRANSPORT • TRANSPORT • TRANSPORT • TRANSPORTE

	NON bagnare. Tenere al riparo dalla pioggia.	KEEP DRY. Keep out of the rain.	NE PAS mouiller. Tenir à l'abri de la pluie.	NICHT nass machen. Vor Regen geschützt anbringen	NO mojar. Conservar protegido de la lluvia.
	NON calpestare.	DO NOT step on unit.	NE PAS marcher sur l'appareil.	NICHT betreten .	NO pisar.
	Sovrapponibilità: controllare sull'imballo per conoscere il numero di macchine impilabili.	Stackability: check the package to know the number of stackable machines.	Empilement : vérifier sur l'emballage le nombre d'appareils empilables.	Stapelbarkeit: Auf der Verpackung nachsehen, wie die Anzahl der stapelbaren Geräte lautet.	Superponibilidad: observar en el embalaje la cantidad de máquinas que pueden apilarse.
	NON trasportare la macchina da soli se il suo peso supera i 25Kg.	DO NOT carry the equipment alone if weight exceeds 25Kg.	NE PAS faire transporter l'appareil par une seule personne si son poids est supérieur à 25kg.	NICHT das Gerät allein transportieren, wenn sein Gewicht die 25kg übersteigt.	NO transportar la máquina solos si su peso es superior a los 25Kg.
	NON lasciare gli imballi sciolti durante il trasporto. Non rovesciare.	DO NOT leave boxes unsecured during transportation. Do not overturn.	NE PAS laisser les emballages sans attaches durant le transport. Ne pas renverser.	NICHT die Verpackungen während des Transports geöffnet lassen. Nicht stürzen.	NO dejar los embalajes sin sujetar durante el transporte. No invertir.
	Fragile, maneggiare con cura.	Fragile, handle with care.	Fragile, manipuler avec soin.	Zerbrechlich, sorgfältig handhaben.	Frágil, manipular con cuidado.

SIMBOLI DI SICUREZZA • SAFETY WARNINGS • SIMBOIES DE SECURITE SICHERHEITSSYMBOLEOLE • SÍMBOLOS DE SEGURIDAD

	Pericolo: Tensione	Danger: Voltage	Danger: Tension	Gefahr ! Spannung	Peligro: Tensión
	Pericolo: Organi in movimento	Danger: Movings parts	Danger: Organes en mouvement	Gefahr ! Rotierende Teile	Peligro: Elementos en movimiento
	Pericolo!!! **ATTENZIONE!** : Questo simbolo segnala operazioni che, se non correttamente effettuate, possono provocare la morte o gravi lesioni personali. **ATTENZIONE!** : Questo simbolo segnala operazioni che, se non correttamente effettuate, possono provocare lesioni personali o danni alle cose.	Danger!!! **WARNING!** This symbol indicates operations which, if carried out incorrectly, can cause death or serious personal injury. **WARNING!** This symbol indicates operations which, if carried out incorrectly, can cause serious personal injury or material damage.	Danger!!! ATTENTION! : Ce symbole signale des opérations dont l'exécution incorrecte peut entraîner la mort ou de graves blessures. ATTENTION! : Ce symbole signale des opérations dont l'exécution incorrecte peut entraîner des blessures ou des dommages aux biens.	Gefahr!!! ACHTUNG! : Diese Symbol weist auf Arbeiten hin, die, falls sie nicht korrekt ausgeführt werden, tödlich sein können oder schwere Verletzungen hervorrufen können. ACHTUNG! : Diese Symbol weist auf Arbeiten hin, die, falls sie nicht korrekt ausgeführt werden, zu Personen- und Sachschäden führen können.	Peligro!!! ¡ATENCIÓN! : Este símbolo hace referencia a operaciones que, si no se llevan a cabo correctamente, puede provocar la muerte o causar lesiones graves a las personas. ¡ATENCIÓN! : Este símbolo hace referencia a operaciones que, si no se llevan a cabo correctamente, puede provocar lesiones a las personas o puede dañar objetos.

AERMEC
Ventilconvettore
Fan coil
Ventilo-convecteurs
Gebläsekonvektoren



Dear customer,

Thank you for choosing an AERMEC product. It is the fruit of many years of experience and special design studies and has been made of the highest grade materials and with cutting edge technology.

The CE marking indicates that the products comply with the essential requirements of the applicable European Community directives. The quality level is being constantly monitored, so AERMEC products are synonymous with Safety, Quality and Reliability.

To find our nearest After Sales Service office, ask for information in the shop where you purchased the unit.

On our website www.aermec.com you can find the necessary technical documentation for all our products, along with the addresses of the sales and assistance networks.

The data may be modified as considered necessary in order to improve the product.

Thank you once again.

AERMEC S.p.A

TABLE OF CONTENTS

OBSERVATIONS

Keep the manuals in a dry place to prevent deterioration for any future reference needs and at least for 10 years.

Carefully and thoroughly read all the information referred to in this manual. Pay particular attention to the instructions for use accompanied by the words "DANGER" or "WARNING" and the "Safety Symbols": failure to comply with these could result in material damage to the machine/property and/or personal injury.

Appliance is not to be used by children or persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction.

For any irregularities not foreseen by this manual, promptly contact your local After Sales Service.

The device must be installed in such a way that maintenance and/or repair operations are possible.

The warranty of the device does not in any case cover costs owing to ladder trucks, lifts or other lifting systems that may be required in order to carry out repairs under warranty.

AERMEC S.p.A. accepts no liability for any damage due to improper use of the unit, or the failure to read the information contained in this manual fully and carefully.

SAFETY WARNINGS

Particular attention must be paid to the following symbols:

WARNING! This symbol indicates operations which, if carried out incorrectly, can cause death or serious personal injury.

WARNING! This symbol indicates operations which, if carried out incorrectly, can cause serious personal injury or material damage.

DANGER!

DANGER! : Voltage

DANGER! : Moving parts

ON RECEIPT OF THE UNIT

On receipt of the unit, it is essential to check that:

- the packages match the details on the documentation accompanying the goods
- the boxes are intact and have not been damaged in transit.

If any anomalies are found:

- immediately notify the haulier of the damage
- immediately notify the vendor of the damage.

PACKAGING

The air conditioners are shipped in standard packaging which consists of expanded polystyrene foam shells and cardboard.

INFORMATION CONCERNING THE DISPOSAL OF ELECTRIC AND ELECTRONIC EQUIPMENT

Warning: this product contains electric and electronic equipment that cannot be scrapped via the normal waste collection channels.

There are specially identified collection points for these products.

The electric and electronic equipment must be handled separately, and in accordance with the legislation in force in that specific country.

Batteries or rechargeable batteries in the equipment must be recycled separately, in accordance with the regulations in that specific community.

MAINTENANCE

ORDINARY MAINTENANCE

The ordinary maintenance can be carried out by the user and consists of a series of simple operations, which will ensure that the fan coil unit operates at full efficiency.

Operations:

- External cleaning, to be done with a damp cloth (soaked in water no hotter than 40 °C) and a neutral detergent avoid using any other type of detergent or solvent.

Do not splash water on interior or exterior surfaces of the fan coil unit (it could cause short circuits).

- Filter cleaning, every two weeks or weekly if installed in very dusty environments. Clean the filter with a vacuum cleaner and possibly with water and a neutral detergent; avoid using any other type of detergent or solvents.
- Visual inspection of the state of the fan coil unit for every maintenance operation; any fault must be communicated to the After-Sales Service.

SPECIAL MAINTENANCE

Special maintenance can only be performed by Aermec After-Sales Services or by people with the technical and professional expertise qualifying them to undertake installation, modification, expansion and maintenance of the systems and are able to check them in terms of safety and functionality. In particular with regard to electrical connections the following tests are required relative to:

- Measurement of the electrical system insulation resistance.
- Continuity test of the protective wiring.

The special maintenance consists of a series of complex operations that involve dismantling of the fan coil unit or its components to ensure the maximum fan coil unit efficiency is restored.

Operations:

- Internal cleaning, annually or after long periods of inactivity; in environments where a high degree of air cleaning is required, cleaning can be more frequent. This consists of: cleaning of the coil, fan blades, drain pan and all the parts in contact with the treated air.
- Repairs and setting up; when faults arise look at the "TROUBLESHOOTING" chapter in this manual before calling the After-Sales Service.

TROUBLESHOOTING

PROBLEM	PROBABLE CAUSE	SOLUTION
Little air coming out	Incorrect speed setting on the control panel	Choose the correct speed on the control panel
	Clogged filter	Clean the filter
	Airflow obstruction (entry and / or exit)	Remove the obstruction
It's not cold	Clogged filter	Clean the filter
	Airflow obstruction (entry and / or exit)	Remove the obstruction
	Wrong setting of the control panel	Check the chiller
		Set the control panel
The fan does not rotate	Power failure	Check for electrical voltage

For any problems not listed, contact the After-Sales Service immediately.

IMPORTANT INFORMATION

ATTENZIONE: il ventilconvettore è collegato alla rete elettrica, un intervento da parte di personale non provvisto di specifica competenza tecnica può causare danni allo stesso operatore, all'apparecchio ed all'ambiente circostante.
L'unità deve essere installata in conformità alle normative nazionali di cablaggio.

MALFUNCTION

In the case of a malfunction remove power to the unit then reapply it and start the unit again. If the problem occurs again, call your area After-Sales service department promptly.

POWER THE FAN COIL UNIT ONLY WITH 230 VOLT, SINGLE PHASE, 50 Hz

Use of other power supplies could cause permanent damage to the fan coil unit.

USE THE REMOTE CONTROL TO TURN THE FAN COIL UNIT ON AND OFF

Do not turn the fan coil unit on or off using the auxiliary switch except in an emergency.

DO NOT PULL THE ELECTRICAL CABLE

It is very dangerous to pull, tread on or crush the electrical power cable or fix it with nails or drawing pins.
A damaged power cable can cause short circuits and personal injury.

DO NOT PUT ANYTHING IN THE AIR OUTLETS

Do not put anything at all in the air outlet slots.
This could cause injury to people and damage to the fan.

DO NOT USE THE FAN COIL UNIT IMPROPERLY

Do not use the fan coil unit in animal husbandry applications.

VENTILATING THE ROOM

Periodically air the room in which the fan coil unit has been installed; this is particularly important if the room is occupied by many people, or if gas appliances or sources of odours are present.

CORRECTLY CONTROLLING THE TEMPERATURE

The room temperature should be controlled in order to provide maximum comfort to the people in the room, especially if they are elderly, children or ill, avoiding sudden changes in temperature between the outside and inside above 7 °C in summer.
Careful choice of the room temperature will lead to energy savings.

CORRECTLY ADJUSTING THE AIR JET

The air coming out of the fan coil unit must not strike people directly; in fact, even if at a temperature that is higher than the room temperature, it could cause a cold sensation and resulting discomfort.
Only adjust the vertical blades by hand.
In the versions with microprocessor controller adjust the horizontal blade with the LOUVRE or SWING key of the remote control.

DURING OPERATION

Always leave the filter in the fan coil unit during operation otherwise dust in the air will dirty the surfaces of the coil.

WHAT IS NORMAL

During cooling, water vapour may be present in the air discharge.
During heating it might be possible to hear a slight hiss around the fan coil unit.
Sometimes the fan coil unit might give off unpleasant smells due to the accumulation of substances from the air of the room (especially if the room is not ventilated regularly. Clean the filter more often).

During operation, there could be noises and creaks inside the device, due to the thermal expansion of the various components (plastic and metallic), but this does not indicate a malfunction and does not cause damage to the unit unless the maximum input water temperature is exceeded.

OPERATING ENVIRONMENT

The units are designed for installation in closed environments in conditions of 'urban', non-marine atmosphere with non-corrosive and non-dusty characteristics.
Under no circumstances the following concentrations of pollutants in the air, in which the unit must operate, shall be exceeded:

SO_2	<0,02 ppm
H_2S	<0,02 ppm
NO,NO_2	<1 ppm
NH_3	<6 ppm
N_2O	<0,25 ppm

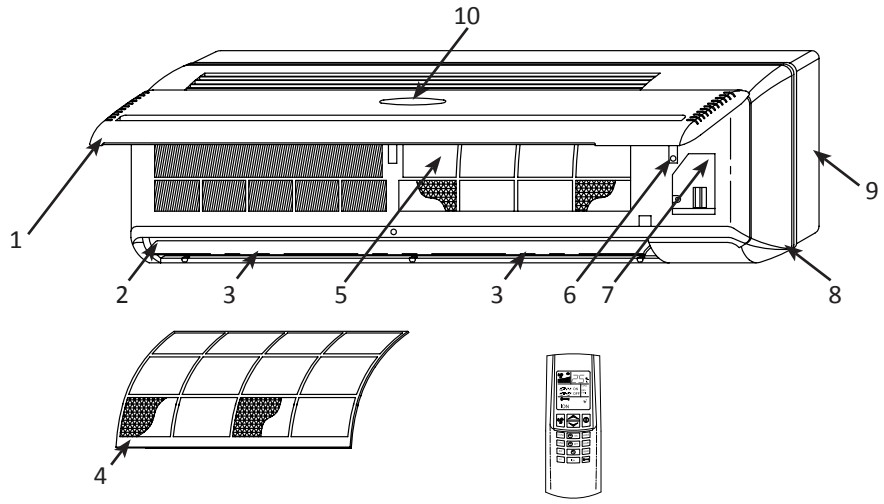
The unit should not be installed in locations characterized by the presence of flammable gases or acidic or alkaline substances.
Otherwise the coils and the internal components of the equipment could suffer serious and irreparable damage from corrosion.

IMPORTANT

- If the unit is turned off, all the settings previously made are retained in memory except for the SLEEP and TIMER functions.
- If the unit is switched on with the auxiliary key (ON / OFF), the SLEEP and TIMER functions will be canceled.

MAIN COMPONENTS

1 Front panel
2 Horizontal air discharge blades
3 Vertical air discharge blades
4 Air filter
5 Heat exchanger coil
6 Auxiliary emergency switch
7 Electric terminal connections
8 Front case
9 Frame
10 Display



DESCRIPTION OF COMPONENTS

FRONT PANEL
The air intake is via the slots. Lifting the panel gives access to the air filter and the internal parts

RECEIVER
Infra red signal receiver for versions with microprocessor controller

DISPLAY
The display is mounted on the front panel, only for versions with microprocessor controller. It shows the fan speed, operating mode, temperature, error messages, and timer

AIR FILTER
Washable air filter that can easily be removed

HEAT EXCHANGER COIL
Made of copper tubes with turbo lanced aluminium fins

AIR DELIVERY
The motorized horizontal deflector; The vertical fins are manually adjustable so as to direct the air flow optimally.

AUXILIARY EMERGENCY SWITCH
The auxiliary emergency switch, only for versions with microprocessor controller, allow the fan coil unit to be turned on or off if the remote control are not operating

FAN ASSEMBLY
The fan assembly consists of an extremely compact and quiet tangential type fan.

DIRECTION OF THE AIR FLOW

The blades on the air discharge are arranged to direct the air in two directions:
– vertical blades, to be adjusted manually
– motorised horizontal blades, to be adjusted only by means of the remote control.

ADJUSTING THE VERTICAL BLADES

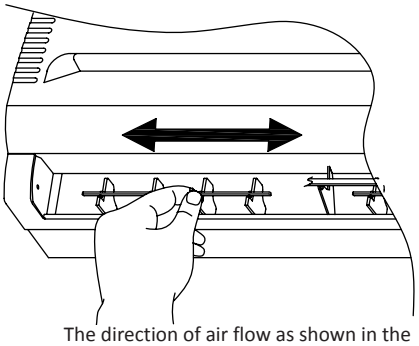
– turn the vertical blades as indicated in the diagram
– both in heating or cooling mode it is advisable for the air flow not to hit people directly.

MOTORISED HORIZONTAL BLADES

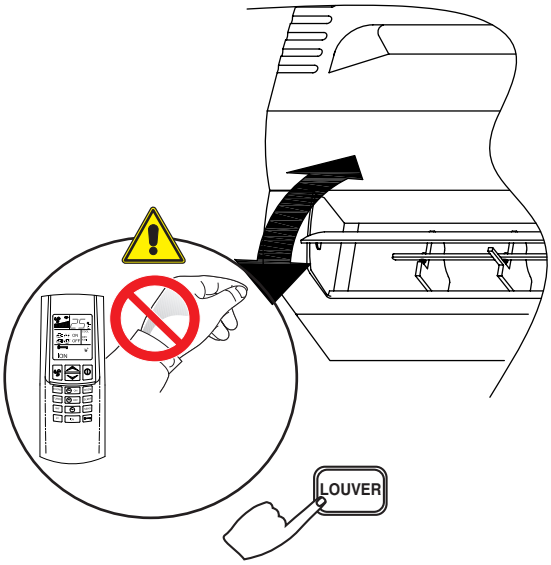
Never adjust the motorised horizontal blades manually. Any manual operation on the blades may damage the system and cause a malfunction.
When the unit is off the blades close and cover the air flow outlet.

IMPORTANT

Under particular external conditions condensate might occur on the surface of the blades (during cooling and dehumidification) and drip onto the surfaces below.



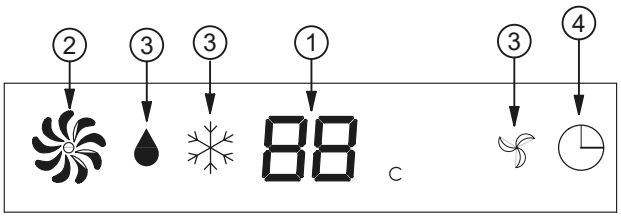
The direction of air flow as shown in the diagram



CWX_W WITH MICROPROCESSOR CONTROLLER - FRONT PANEL DISPLAY

When the fan coil unit is powered up it emits a beep.

When the fan coil unit is powered but not on, all the LEDs are off.



1 - TEMPERATURE DISPLAY / ERROR CODES

Display	
Temperature	**Description**
°C	Set temperature (normal operation) - Set temperature (flashing) (during setting) - Water temperature in battery (see functions to activate the AUX button) - Water inlet temperature (see functions to activate the AUX button)
Error code flashing alternately with the ambient temperature	**Error description**
E1	(RM) Ambient air temperature sensor fault
E2	(ID) Water temperature in the coil sensor fault

2 - FAN SPEED

3 - OPERATING MODE

Dehumidification
Cooling
Fan only

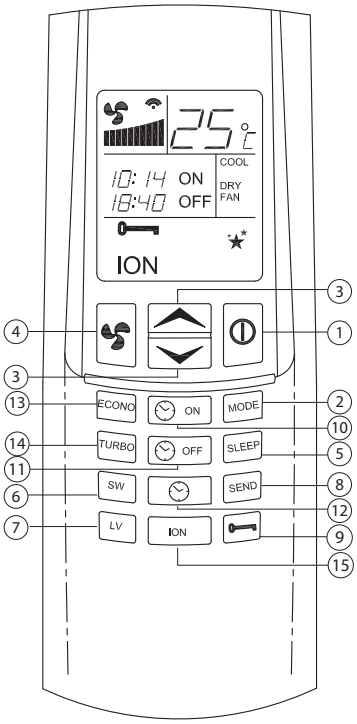
4 - TIMER

The icon shows the timer is active

INFRA-RED REMOTE CONTROL

IMPORTANT

- **The two control types, remote control , can be used at the same time on the same fan coil unit.**
- **– If the fan coil is off, all the previous settings made are kept in the memory except for the TIMER setting and SLEEP mode.**
- **– If the fan coil is turned on using the (ON/OFF) key, the TIMER setting and SLEEP mode are cancelled.**



1 - ON/OFF

Turning on and off.

2 - MODE

Press this button to set the various operating modes: cooling (COOL), dehumidification (DRY), ventilation (FAN).

3 - TEMP ▲ and ▼ TEMP - TEMPERATURE (°C)

Temperature control buttons (18 to 30 °C).

Use these buttons to set the temperature you wish to have in the room, **TEMP ▲** to increase the temperature and **TEMP ▲** to decrease it.

When the two **TEMP ▼** and **TEMP ▲** buttons are pressed at the same time the unit of temperature measurement changes between °C and °F.

4 - FAN

Press this button to select the fan speed: automatic (AUTO), low (LOW), medium (MED) and high (HIGH).

5 - SLEEP

Button to enable the night comfort function (SLEEP).

6 - SWING

Press this button to enable to swinging of the horizontal blades.

7 - LOUVER

Press this button to regulate the vertical air flow, with 4 fixed positions plus swinging blades.

8 - SEND -

Press this button to transmit the parameters shown on the display to the unit.

9 - LOCK

Hold the LOCK button for 3 sec to lock or unlock all the other buttons.

10 - TIMER ON

Press this button to set the timer on function.

11 - TIMER OFF

Press this button to set the timer off function.

12 - CLOCK

Press this button to set the clock function.

13 - ECONO

Premere questo pulsante per attivare la funzione di risparmio energetico

14 - TURBO

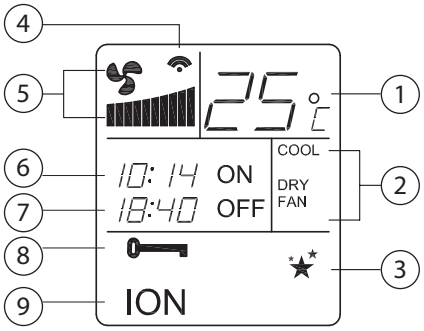
Premere questo pulsante per attivare la funzione di raffrescamento/ riscaldamento veloce.

15 - ION

Funzione non disponibile.

LIQUID CRYSTAL DISPLAY

With the remote control on (ON), the display shows the settings of the unit, with the remote control off (OFF) the display is off and only displays the timer for the programmed activation (if active).



1 - TEMPERATURE (°C) OR (°F)

Displays the set point temperature value in °C or °F.

2 - OPERATING MODE

Shows the operating mode:

FAN	ventilation
COOL	cooling
DRY	dehumidification

3 - SLEEP PROGRAMME

Shows the night comfort function SLEEP is active.

4 - TRANSMISSION INDICATOR

Appears every time a button is pushed and it indicates the transmission of the signal.

5 - FAN SPEED

Display of the three fan speeds and the automatic speed control:

AUTO	automatic speed control
HIGH	high speed
MED	medium speed
LOW	low speed

6 / 7 - TIMER

Indicates that the timer programmed on or off function has been activated.

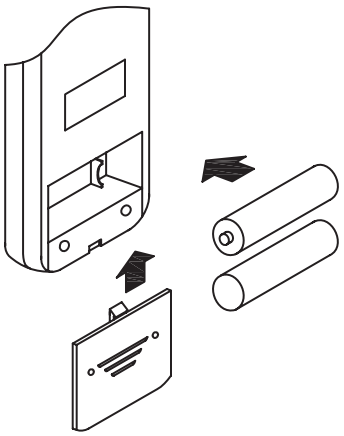
8 - KEY LOCK

Shows the key lock function is activate.

9 - ION

Function not available

USE OF THE REMOTE CONTROL



- Point the remote control transmitter towards the fan coil receiver while the settings are being programmed.
- To be able to carry out any operation or change of the settings from the remote control, the unit must be powered.
- When a signal is received correctly by the CWX_W it will emit a beep. If you do not hear the sound, press the remote control button again.
- Obstacles must not be placed between the transmitter and the receiver (e.g. furniture or curtains) to ensure proper operation.
- The remote control is able to transmit effectively up to 7 metres from the fan coil unit receiver.

PREPARATION OF THE REMOTE CONTROL

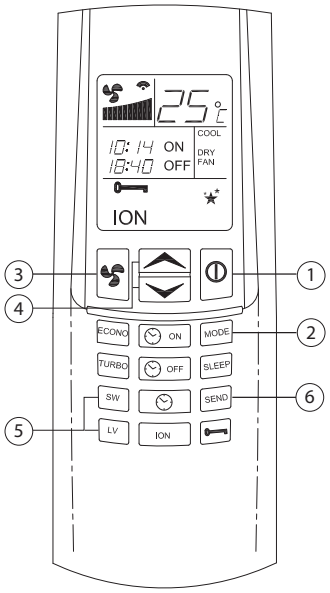
- Open the battery cover by pressing slightly in the direction of the arrow.
- Insert two 1.5 Volt high-performance alkaline batteries LR 03 (AAA), being careful not invert the polarity.
- Close the battery cover.

IMPORTANT

- The two control types, remote control, can be used at the same time on the same fan coil unit.
- The batteries have an average life of 10 months when used normally.
- The two batteries must be identical and must be changed at the same time.
- Remove the batteries from the remote control unit if you envisage the units not being used for long periods.
- When the remote control only works near the fan coil unit, it is time to replace the batteries.
- Do not fix the remote control bracket near a source of heat or in direct sunlight. Avoid exposing the remote control to excessive humidity or knocks (it might break, become deformed, or lose its colour).
- Do not place the remote control near electronic equipment because it could interfere with the unit's proper operation.

COOLING PROGRAMME (COOL)

The programme requires the system to circulate chilled water.



1) PRESS THE ON/OFF KEYS

The fan coil unit comes on. The fan coil unit automatically starts in cooling mode.

2) PRESS THE MODE KEY

Press the MODE key repeatedly until the word COOL appears on the display

3) PRESS THE KEYS TO CONTROL THE TEMPERATURE

– The key with the symbol ▲ allows increases of 1°C

– The key with the symbol ▼ allows decreases of 1°C

The display shows the set point value between 18 and 30 °C.

4) PRESS THE FAN KEY

When the FAN key is pressed repeatedly, the system can move to the minimum speed (F1), medium speed (F2) and high speed (F3) or to the (FA) speed controlled by the microprocessor.

5) TO DIRECT THE AIR FLOW

To ensure optimum air distribution, adjust the horizontal blades and the vertical blades in such a way that the air flow does not hit people directly. The vertical air flow blades must be set manually before starting up the motorised blades.

Never adjust the motorised horizontal blades manually.

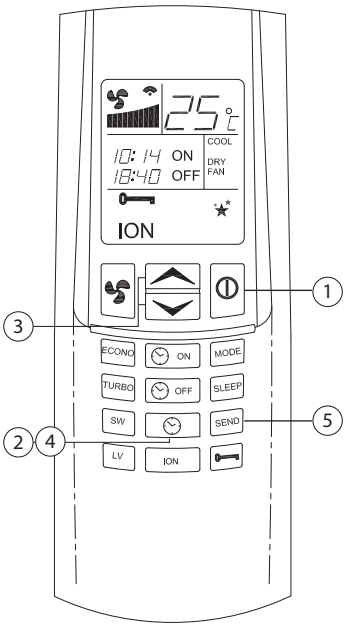
When the LOUVER LV key is pressed repeatedly, the horizontal blade is adjusted to 4 fixed blade positions, then a swinging blade movement will begin. If you wish to stop the blade in a particular position, press the LOUVER LV key.

When the SWING SW key is pressed a swinging blade movement will begin. If you wish to stop the blade in a particular position, press the SWING SW key again.

6) PRESS THE SEND KEY

To transmit the new parameters shown on the LCD to the main control unit.

CLOCK SETTING (CLOCK)



1) PRESS THE ON-OFF BUTTON

2) PRESS CLOCK BUTTON TO SET THE CLOCK
THE DISPLAY WILL START TO FLASH

3) ADJUST THE CLOCK USING THE KEYS

– the symbol key ▲ allows increments of 1 hour

– the key with the symbol ▼ allows decreases of 1 hour

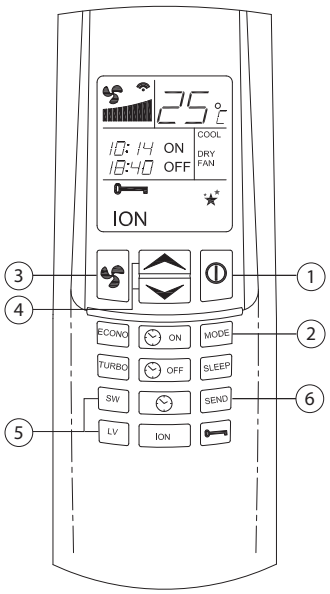
4) PRESS THE CLOCK KEY AGAIN
The display will stop flashing

5) PRESS THE "SEND" BUTTON

To transmit to the unit the settings visible on the LCD screen of the remote control.

DEHUMIDIFICATION PROGRAMME (DRY)

The programme requires the system to circulate chilled water.



1) PRESS THE ON/OFF ⏻

The fan coil comes on and the display is switched on.

2) PRESS THE KEY MODE MODE

Press the MODE key repeatedly until the word DRY appears on the display .

3) PRESS THE KEYS ▲▼ TO CONTROL THE TEMPERATURE

– The key with the symbol ▲ allows increases of 1°C

– The key with the symbol ▼ allows decreases of 1°C

The display shows the set point value between 18 and 30 °C.

4) TO DIRECT THE AIR FLOW

To ensure optimum air distribution, adjust the horizontal blades and the vertical blades in such a way that the air flow does not hit people directly. The vertical air flow blades must be set manually before starting up the motorised blades.

Never adjust the motorised horizontal blades manually.

When the LOUVER LV key is pressed repeatedly, the horizontal blade is adjusted to 4 fixed blade positions, then a swinging blade movement will begin. If you wish to stop the blade in a particular position, press the LOUVER LV key.

When the SWING SW key is pressed a swinging blade movement will begin. If you wish to stop the blade in a particular position, press the SWING SW key again.

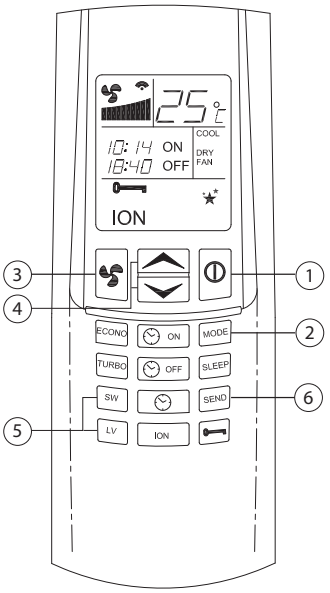
5) PRESS THE SEND KEY SEND

To transmit the new parameters shown on the LCD to the main control unit.

The fan coil unit will always operate at minimum speed.

NIGHT COMFORT FUNCTION (SLEEP)

The SLEEP programme operates regardless of the time of day.
Normally it is used during the night time hours.



1) PRESS THE ON/OFF ⏻ KEYS

The fan coil unit comes on and display is switched on.

2) PRESS THE MODE MODE **KEY**

This can only be activated with COOL programmed.

3) PRESS THE KEYS ▲▼ TO CONTROL THE TEMPERATURE

– The key with the symbol ▲ allows increases of 1°C

– The key with the symbol ▼ allows decreases of 1°C

The display shows the set point value between 18 and 30 °C.

4) PRESS THE FAN KEY

When the FAN key is pressed repeatedly, the system can move to the minimum speed (F1), medium speed (F2) and high speed (F3) or to the (FA) speed controlled by the microprocessor.

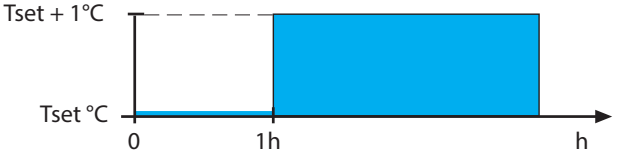
5) PRESS THE SLEEP SLEEP **KEY**

6) PRESS THE SEND SEND **KEY**

To transmit the new parameters shown on the LCD to the main control unit.

WHAT HAPPENS WHEN THE NIGHT COMFORT FUNCTION "SLEEP" PROGRAMME IS SET

The temperature set point is automatically adjusted to ensure comfortable conditions whilst saving energy.



"SLEEP"
with operation in cooling mode (COOL)

FAN PROGRAMME (FAN)

1) PRESS THE ON/OFF KEYS

The fan coil comes on and the display is switched on.

2) PRESS THE MODE KEY

Press the MODE key repeatedly until the word FUN appears on the display

3) PRESS THE FAN

When the FAN key is pressed repeatedly, the system can move to the minimum speed (F1), medium speed (F2) and high speed (F3) or to the (FA) speed controlled by the microprocessor.

4) TO DIRECT THE AIR FLOW

To ensure optimum air distribution, adjust the horizontal blades and the vertical blades in such a way that the air flow does not hit people directly. The vertical air flow blades must be set manually before starting up the motorised blades.
Never adjust the motorised horizontal blades manually.

When the LOUVER key is pressed repeatedly, the horizontal blade is adjusted to 4 fixed blade positions, then a swinging blade movement will begin. If you wish to stop the blade in a particular position, press the LOUVER key.

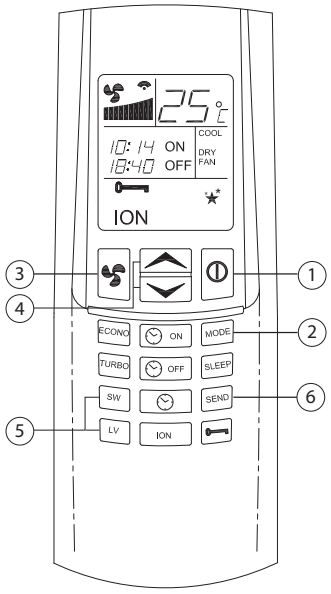
When the SWING key is pressed a swinging blade movement will begin. If you wish to stop the blade in a particular position, press the SWING key again.

5) PRESS THE SEND KEY

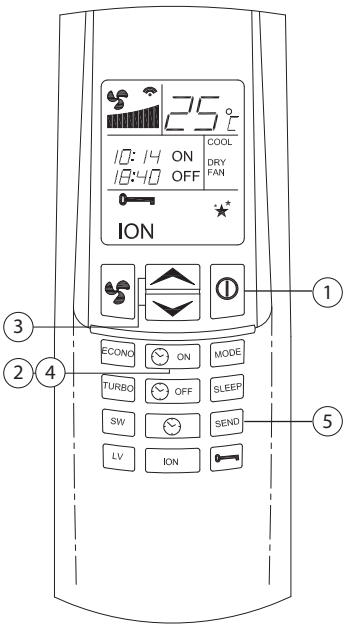
To transmit the new parameters shown on the LCD to the main control unit.

OPERATING IN JUST VENTILATION MODE

This programme is used to move the room air and avoid stagnation. The ventilation programme is particularly indicated as a support to heating systems without fans, as when a stove is used to heat the room. All the hot air gathers by the ceiling. When the unit is set in ventilation mode, the hot air is distributed uniformly throughout the room.



TURN ON PROGRAMMED BY THE TIMER



1) TURN ON WITH ⏻

– Set the required conditions (MODE, FAN, TEMP) on the remote control that you want active when starting the unit.

– Turn off with keys ⏻

2) ACTIVATE THE TIMER ON WITH ON

3) SET THE TIMER ON WITH ▲▼ **KEYS**

– The key with the symbol ▲ allows increases of 1 hour

– The key with the symbol ▼ allows decreases of 1 hour

The display only shows the hours the unit remains off before the unit is turned on, from 1 to 18 hours,

The number is updated every hour until the unit turns on.

At the time of switching on the unit:

- a beep indicates that the unit has started
- the display will show the conditions previously chosen in point 1)

At the time the unit is programmed to come on, the fan may not come on:

- because the space temperature is already within the programmed parameters
- because the temperature of the water is not appropriate for the operation mode required
- because during the programmed standby hours the unit's power went down.

4) PRESS THE SET OR TIMER ON ON **KEYS TO CONFIRM THE TIMER**

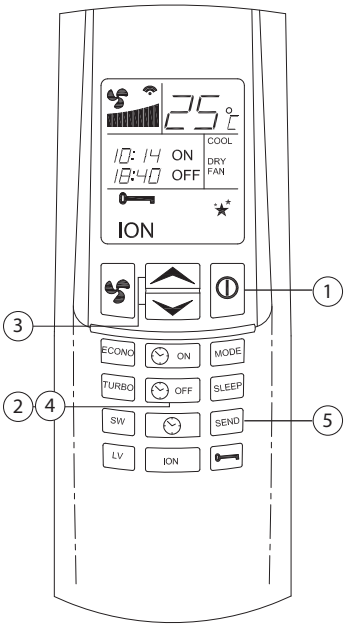
5) PRESS THE SEND KEY

To transmit the new parameters shown on the LCD to the remote control.

TO CANCEL THE TIMER SETTING

- : Press the ON key to cancel the timer setting

TURN OFF PROGRAMMED BY THE TIMER



1) TURN ON WITH ⏻ **KEYS**

– Set the conditions (MODE, FAN, TEMP) on the remote control

2) TO ACTIVATE THE TIMER OFF OFF **KEYS**

3) SET THE TIMER OFF WITH ▲▼ **KEYS**

– The key with the symbol ▲ allows increases of 1 hour

– The key with the symbol ▼ allows decreases of 1 hour

The display shows the operating mode and the programmed running hours before the unit is turned off,

from 1 to 18 hours,

The number is updated every hour until the unit turns off.

Before the programmed turn off a beep will be emitted from the unit.

At the time the unit is programmed to turn off the unit may not switch off if the power has been interrupted during the programmed running time.

4) PRESS THE TIMER OFF OFF **KEYS TO CONFIRM THE TIMER**

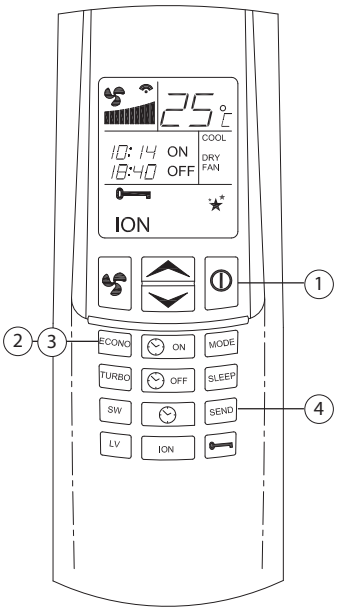
5) PRESS THE SEND SEND **KEY**

To transmit the new parameters shown on the LCD to the remote control.

TO CANCEL THE TIMER SETTING

- : Press the OFF key to cancel the timer setting

ENERGY SAVING PROGRAM (ECONO)



1) ENERGY SAVING PROGRAM ⏻

The fan coil operates and the display on the unit lights up.

2) PRESS THE ECONO BUTTON ECONO

Can only be activated with the COOL, HEAT, AUTO programs.

The ECONO icon appears on the display and the temperature set point and fan speed disappears.

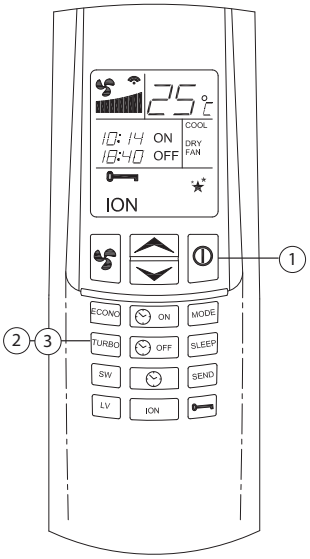
The temperature control and fan speed will be performed automatically.

3) PRESS THE ECONO KEY ECONO **TO DISCONNECT THE FUNCTION.**

4) PRESS THE "SEND" BUTTON SEND

To transmit to the unit the settings visible on the LCD screen of the remote control.

PROGRAM TURBO



1) PRESS THE ON-OFF BUTTON ⏻

The fan coil operates and the display on the unit lights up.

2) PRESS THE TURBO BUTTON TURBO

Can only be activated with the COOL, HEAT, AUTO programs.

The TURBO icon appears on the display and the temperature set point indications and fan speed disappear.

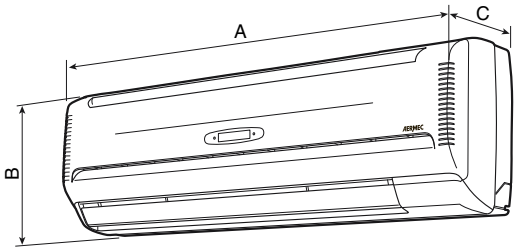
The temperature control and fan speed will be automatically performed for a maximum time of 30 minutes. The fan will work at maximum power.

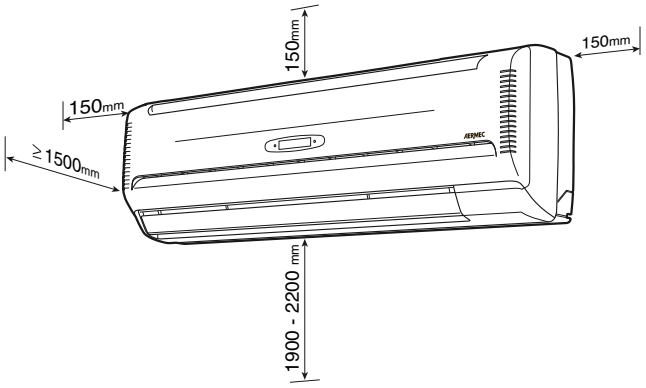
3) PRESS THE TURBO BUTTON TURBO **TO DISABLE THE FUNCTION.**

6) PRESS THE "SEND" BUTTON SEND

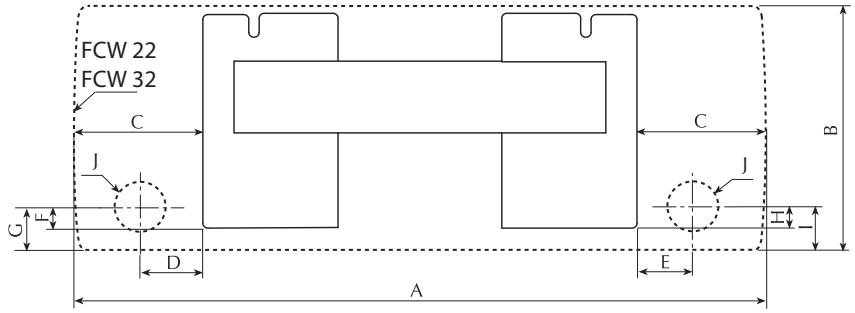
To transmit to the unit the settings visible on the LCD screen of the remote control.

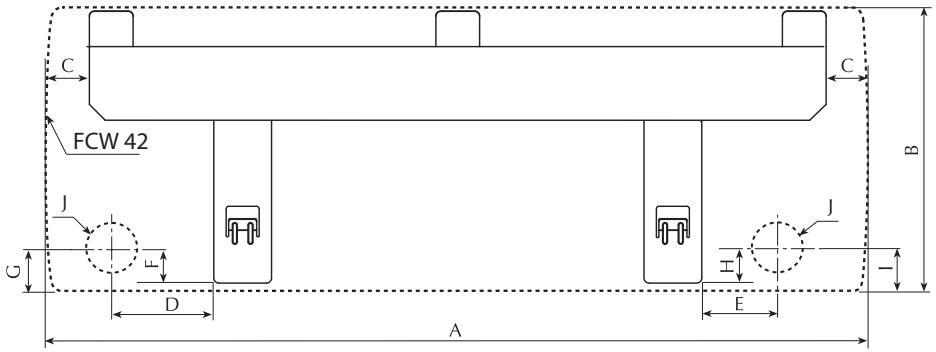
DIMENSIONS [mm]





	A	B	C
CWX_W222V **CWX_W223V** **CWX_W22VL**	880	298	205
CWX_W322V **CWX_W323V** **CWX_W32VL**	990	305	210
CWX_W422V **CWX_W423V** **CWX_W42VL**	1170	360	220





CWX_W	A	B	C	D	E	F	G	H	I	J
222V - 223V - 22VL	880	298	190	90	68	21	36	25	40	Ø70
322V - 323V - 32VL	990	305	191	91	69	24	46	28	50	Ø70
422V - 423V - 42VL	1170	360	139	210	115	21	42	25	46	Ø70

INSTALLATION OF THE UNIT

WARNING: before carrying out any work ensure the individual has the appropriate personal protection.
WARNING: check that the power supply is disconnected before performing operations on the unit.
WARNING: wiring connections, installation of the fan coil unit and relevant accessories should be performed by a technician who has the necessary technical and professional expertise to install, modify, extend and maintain systems and who is able to check the system for the purposes of safety and correct operation.
In the specific case of electrical connections, the following must be checked:
- Measurement of the electrical system insulation resistance.
- Continuity test of the protective wiring.
If the fan coil unit operates continuously in cooling mode in a room with high relative humidity, condensate might form on the air discharge. This condensate might be deposited on the floor and on any objects underneath. To prevent the formation of condensation on the exterior of the unit while the fan is operating, the average water temperature should not drop below the operating limits shown in the manual determined by the room temperature and humidity conditions. These limits refer to unit operation with fan at minimum speed.

Instructions essential for the proper installation of the equipment are shown here.
The final touches to all the operations are however left to the experience of the installation engineer in accordance with the specific needs.
The CWX_W fan coil unit must be installed in such a position that the air can be distributed throughout the room and that there are no obstacles (curtains or objects) to the passage of the air from the intake. The unit must be arranged in such a way as to make ordinary maintenance easy (filter cleaning) and special maintenance, as well as the access to the air vent valve on the heat exchanger coil at a height of 190 to 220 cm.

Installation
To install the unit, proceed as follows:
- **Put the template on the wall, fixing it solidly with at least six or more screws or expansion blocks of a type that is adequate for the thickness of the fixing wall, through holes near the edge of the template.**

The template must be fixed flush to the wall, perpendicular to the floor and perfectly level. Failure to respect these conditions will cause water to drip out of the drain tray.
- Remove the cabinet.
- The CWX_W unit permits 4 connection possibilities.

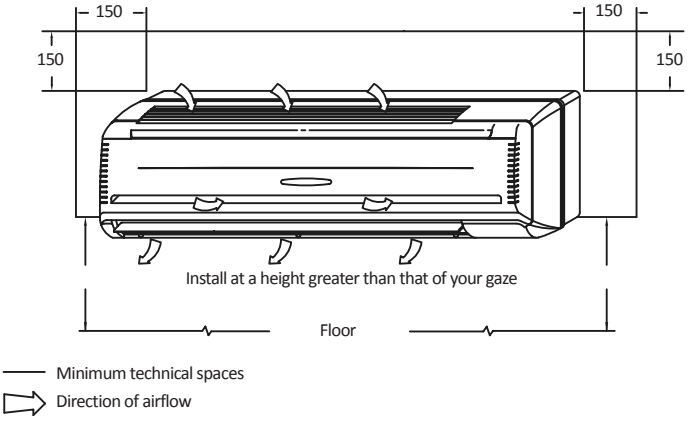
For connections through the wall make a hole with a diameter of 70 mm, inclined downwards by 5-10 mm.
For connections sideways and downwards, remove the knock-outs of the cabinet in the direction of the pipes.
- Carry out the electrical connections as shown on the wiring diagram.
- Make the refrigerant connections. Repeated bending of the tubes may cause them to break.
- Connect the condensate drain outlet to the drainage line and make sure it works properly.
- Insulate the pipes properly.
- Position the CWX_W unit on the template after passing the pipe through the hole or in the channelling in the wall. Check that the fan coil is level horizontally and vertically.
- When all the installations have been completed (electrical and refrigeration connections, fan coil fixing and condensation drain connection) close the hole in the wall with a suitable filler.
- Complete the refitting of the components of the unit paying attention that the debris from the materials used for the installation do not block the fan or obstruct the filters or the grilles.

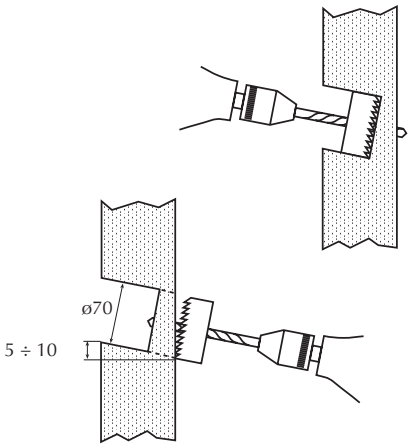
CHOICE OF THE LOCATION IN WHICH TO INSTALL THE UNIT:

Select the position of the indoor unit taking into account the following notes:

- The front of the air inlet and outlet must be free of any obstructions. The outgoing air should flow freely.
- The wall where the unit is to be mounted should be strong enough to withstand the weight and vibration produced by the unit.
- Make sure to respect the minimum technical spaces (shown in the figure).

[mm]

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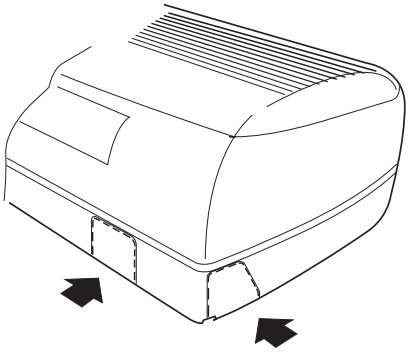
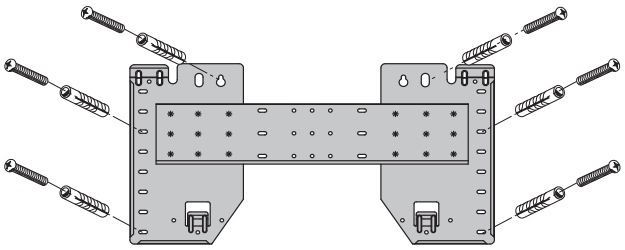
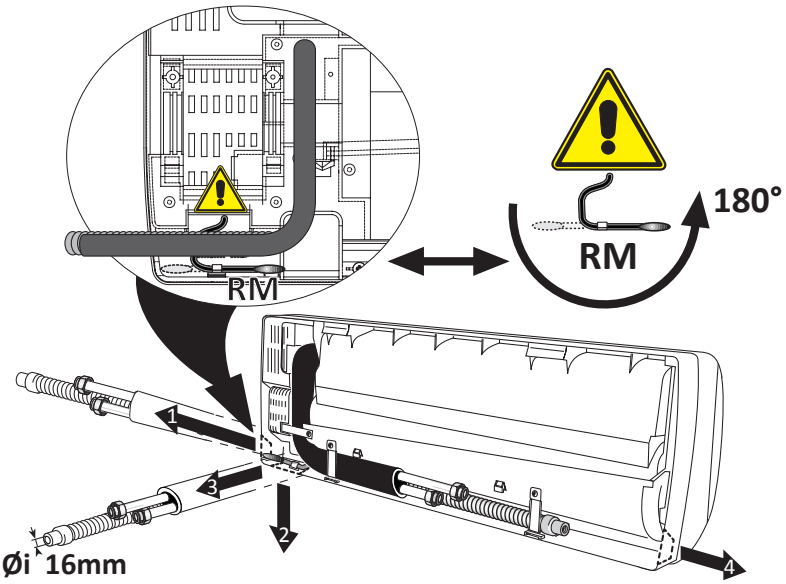
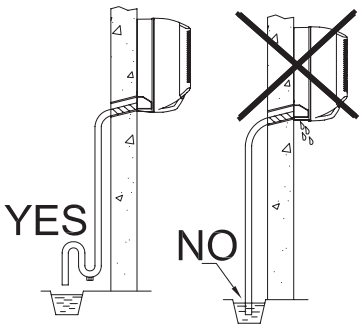
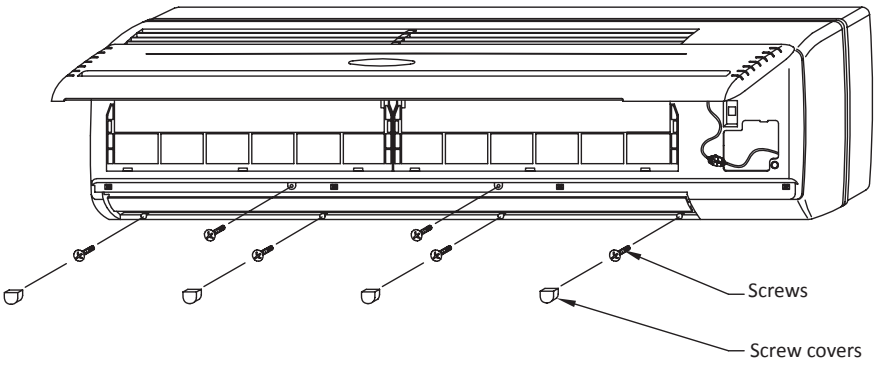
5 ÷ 10






RM
RM
180°
1
2
3
4
Øi 16mm


YES
NO


Screws
Screw covers

NOTES REFRIGERANT CONNECTIONS

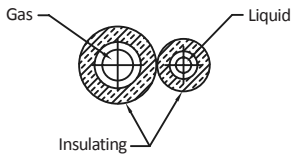
CWX	ø refrigeration lines mm(inch)	
	Liquid	Gas
250W	6,35(1/4")	9,52 (3/8")
350W	6,35(1/4")	12,7 (1/2")
500W	6,35(1/4")	12,7 (1/2")
700W	6,35(1/4")	15,9 (5/8")

It is recommended to realize the refrigerating lines with perfectly vertical or horizontal strokes.

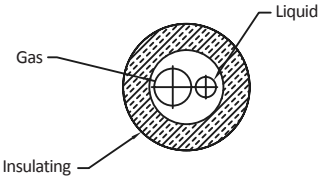
Maximum pressure of use:
The emassimo pressure value during use is 1.72 MPa (250 psig). (R410A)

Line insulation:

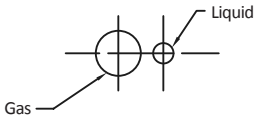
- The connection fitting to the indoor unit must be wrapped in thermal insulation. There must be no cracks between the fitting and the wall of the indoor unit.
- After having wrapped the tubes with protective material, never bend them at an acute angle as they may crack or break.
- Use adhesive tape to cover the pipes:
- Use adhesive tape to wrap the connection pipe and cables together. To prevent condensation from escaping from the drain pipe, separate the drain pipe from the connecting pipe and cables.
- Use thermal insulation tape to wrap the pipes from the bottom of the outdoor unit to the upper end of the pipe where it enters the wall. When using insulating tape, the last lap must cover the first lap of tape in half.



OK



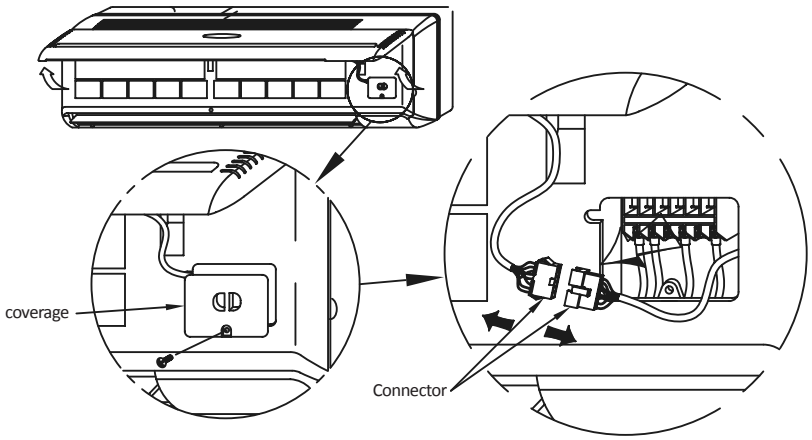
OK

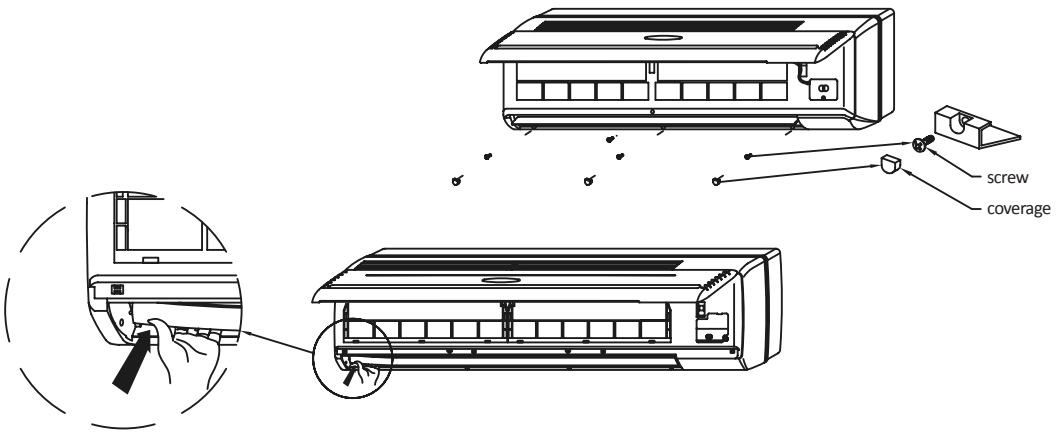


NO

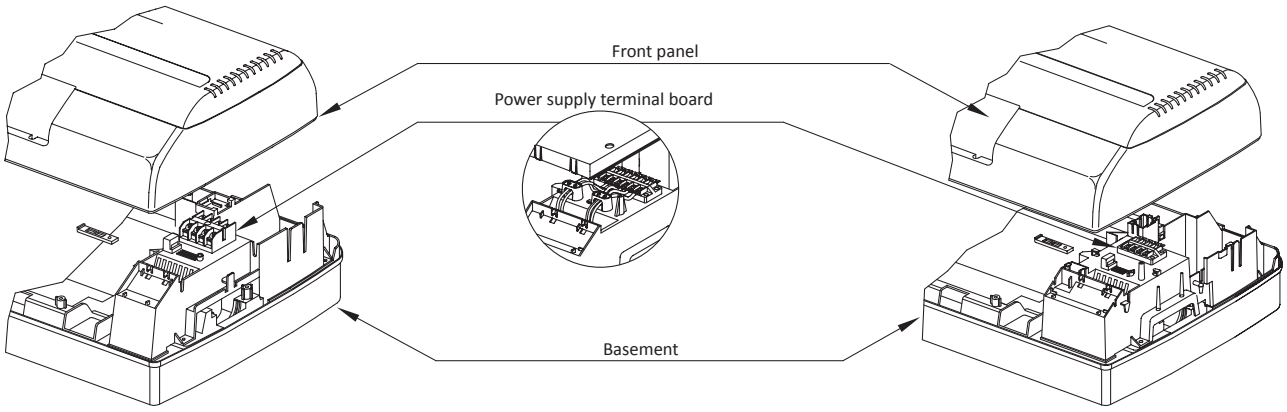
HOW TO REMOVE THE FRONT GRILL

- Open the front panel by grasping it with the rounded side groove and pulling it towards you.
- Unscrew the terminal cover, remove and disconnect the display board connection as shown in the illustration.
- Remove the fixing screws.
- Set the horizontal flap in the closed position, detach the horizontal pin on the left side and push it inside (see the illustration), taking care not to damage the pin or the wing during the procedure.





Electrical connections



WARNING: before carrying out any work, make sure that the power supply is switched off.

The unit must be connected directly to an electrical connection or to an independent circuit.

Supply with a voltage of 230V (± 10%).

To protect the unit against short-circuits, fit a magneto-thermal switch on the power supply line max. 2A 250V (CIRCUIT BREAKER) with minimum contact opening distance of 3mm.

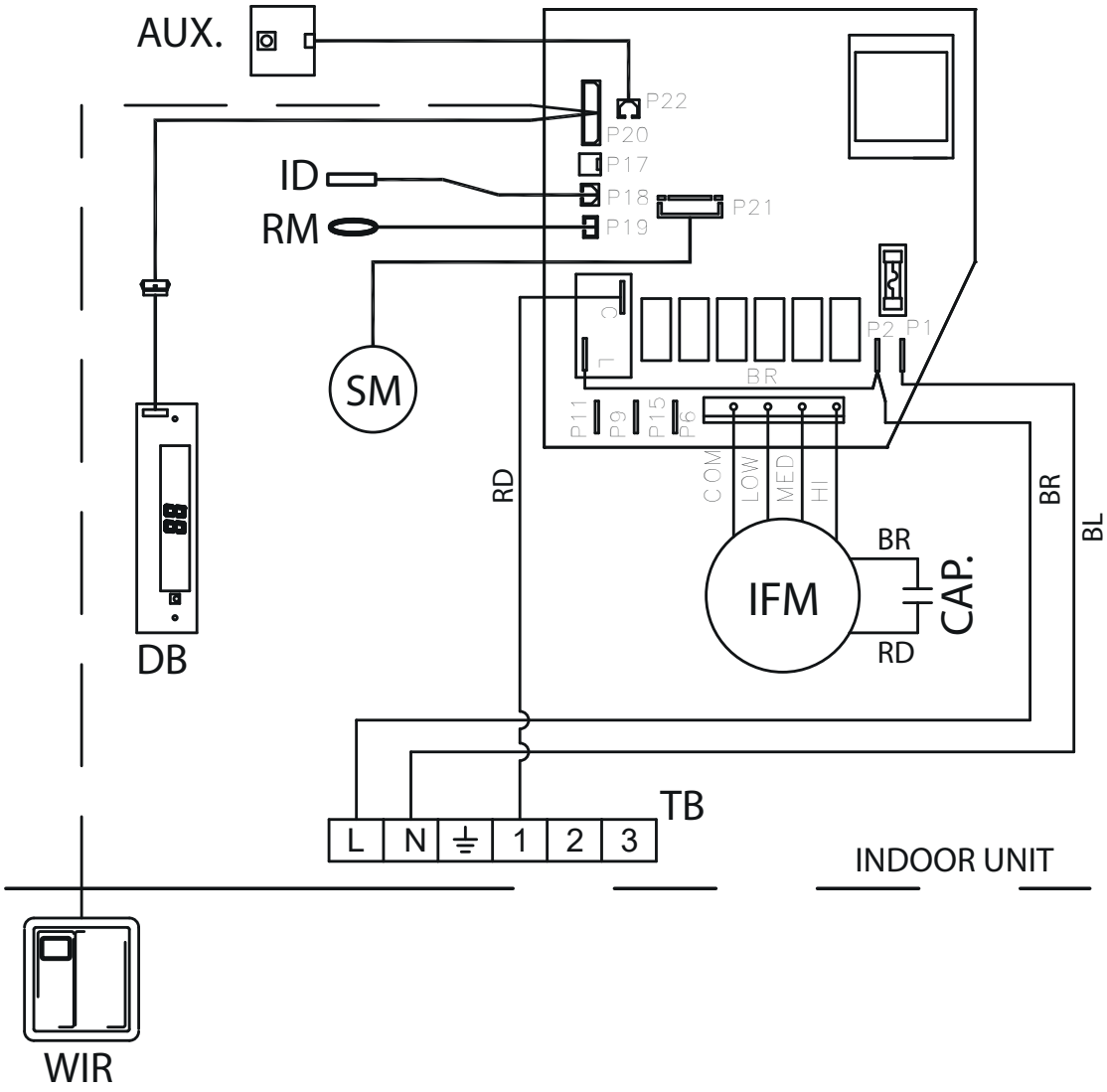
The power supply cable must be of the H07 V-K or N07 V-K type with 450 / 750V insulation if embedded in a pipe or duct. For installations with exposed cable use cables with double insulation of type H5VV-F.

For all connections, follow the wiring diagrams supplied with the appliance.

Make sure that the wiring is done in accordance with the laws and regulations in force and this manual.

All parts and materials supplied on site must comply with national laws and regulations.

WIRING DIAGRAM CWX250W - CWX350W



LEGEND:

AUX.	:	AUXILIARY SWITCH
CAP.	:	FAN CAPACITOR
DB	:	DISPLAY BOARD
ID	:	INDOOR COIL THERMISTOR
IFM	:	INDOOR FAN MOTOR
RM	:	ROOM SENSOR
SM	:	STEP MOTOR
TB	:	TERMINAL BLOCK
WIR	:	WIRED REMOTE UNIT (OPTIONAL)
⏚	:	GROUND
L	:	LINE
N	:	NEUTRAL

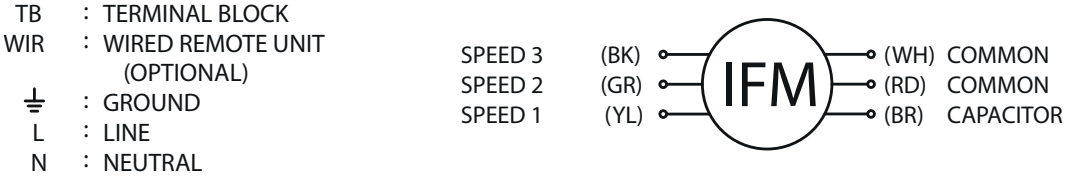
COLOR CODE:

BL	:	BLUE	GR	:	GREEN
BK	:	BLACK	RD	:	RED
BR	:	BROWN	YL	:	YELLOW

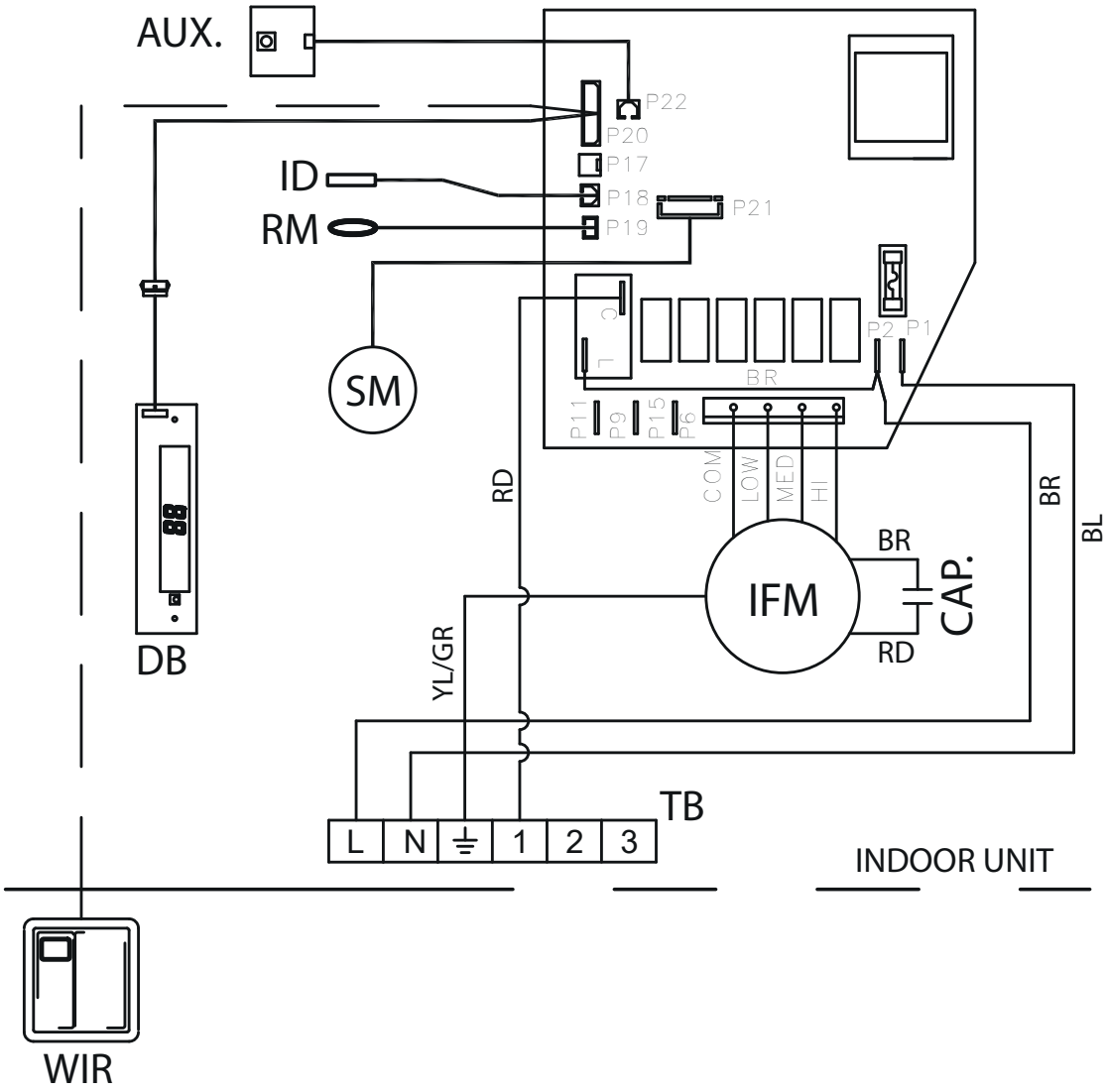
INDOOR FAN MOTOR CON:

MODEL: CWX250W & CWX350W

IFM WIRED TO - HI(BK), MED(GR) & LOW(YL)



WIRING DIAGRAM CWX500W - CWX700W



LEGEND:

AUX.	:	AUXILIARY SWITCH
CAP.	:	FAN CAPACITOR
DB	:	DISPLAY BOARD
ID	:	INDOOR COIL THERMISTOR
IFM	:	INDOOR FAN MOTOR
RM	:	ROOM SENSOR
SM	:	STEP MOTOR
TB	:	TERMINAL BLOCK
WIR	:	WIRED REMOTE UNIT (OPTIONAL)
⏚	:	GROUND
L	:	LINE
N	:	NEUTRAL

COLOR CODE:

BL	:	BLUE	GR	:	GREEN
BK	:	BLACK	RD	:	RED
BR	:	BROWN	YL	:	YELLOW

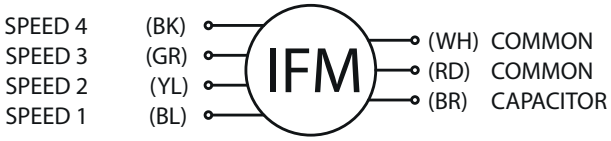
INDOOR FAN MOTOR CON:

MODEL: CWX500W

IFM WIRED TO - HI(GR), MED(YL) & LOW(BL)

MODEL: CWX700W

IFM WIRED TO - HI(BK), MED(GR) & LOW(YL)



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carta riciclata
recycled paper
papier recyclé
recycled Papier