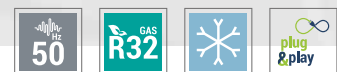


EN

25.10 - 5140911\_00  
Translation of Original instructions

# FK

## FK261 User and installation manual



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### WINDOW AIR CONDITIONER

Cooling capacity 2,50 kW



[www.aermec.com](http://www.aermec.com)

*Dear Customer,*

*Thank you for wanting to learn about a product Aermec. This product is the result of many years of experience and in-depth engineering research, and it is built using top quality materials and advanced technologies.*

*The manual you are about to read is meant to present the product and help you select the unit that best meets the needs of your system.*

*However, please note that for a more accurate selection, you can also use the Magellano selection program, available on our website.*

*Aermec, always attentive to the continuous changes in the market and its regulations, reserves the right to make all the changes deemed necessary for improving the product, including technical data.*

*Thank you again.*

*Aermec S.p.A.*

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# 1 SAFETY STANDARDS R32 GAS

## 1.1 SAFETY STANDARDS R32 GAS

### 1.1.1 Safety standard R32 gas



**WARNING:** please read this manual carefully before using the unit.



**WARNING:** please read this manual carefully before installing the unit.



**WARNING:** please read this manual carefully before repairing or performing maintenance on the unit.



**WARNING:** this unit contains flammable R32 gas.

### 1.1.2 Warnings for R32 refrigerant gas

- The unit uses eco-friendly R32 refrigerant gas.
- The refrigerant gas is odourless.
- R32 refrigerant gas is flammable, but only in the presence of flames.
- There is a chance of explosion but only if a certain concentration is reached in the air.
- Smoking near the unit is prohibited.
- Provide signage prohibiting smoking near the unit.
- The flammability of the gas is very low.
- Keep the room where the unit is installed well ventilated.
- Do not pierce or burn the unit.
- The unit cannot be placed near ignition sources such as open flames, electric heaters, etc.
- All repairs or extraordinary maintenance operations must be carried out by specialised technicians or qualified personnel.
- Leak test must be done after the installation.

### 1.1.3 R32 gas advantages

- Compared to common refrigerants, R32 is a non-polluting refrigerant. It causes no damage to the ozone layer and does not add to the greenhouse effect.
- R32 has excellent thermodynamic features that lead to high energy efficiency.

#### 1.1.4 R32 gas warnings for maintenance or repair

**These procedures may only be followed by specialised technicians or qualified personnel.**

Please follow the steps below:

- Turn off the unit and disconnect it from the electrical power supply.
- Drain the refrigerant gas.
- Extract the remaining gas.
- Clean with Nitrogen N<sub>2</sub>.
- Ensure that there are not naked flames.
- The refrigerant must be recycled in the special tanks.

#### 1.1.5 Filling R32 refrigerant gas

**These procedures may only be followed by specialised technicians or qualified personnel.**

- Make sure that other types of refrigerant do not contaminate the R32.
- The gas tank must be kept in a vertical position during filling.
- Apply the specified label to the unit after filling.
- Do not add more refrigerant gas than necessary.
- Once filling is finished, carry out the leak detection operations before testing its functioning.
- A second check for gas leaks must be performed once all of the previous operations are completed.

#### 1.1.6 Disposal of R32 refrigerant gas

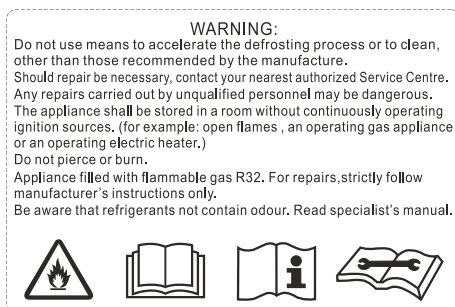
**These procedures may only be followed by specialised technicians or qualified personnel.**

- Do not dispose of it in areas with a risk of formation of explosive mixtures with the air. The gas must be disposed of in a suitable torch with an anti-flame-return device. Contact the supplier if you need instructions for use.

#### 1.1.7 Safety standards for transportation and storage of R32 gas

- Using a suitable gas detector, check that there are no gas leaks in the environment before opening the packaging of the unit.
- Ensure there are no ignition sources near the unit.
- Smoking near the unit is prohibited.
- The transportation and the storage must be done according to the current national regulations.

#### 1.1.8 Warning label R32 gas



WARNING: do not use means to accelerate the defrosting processor to clean, other than those recommended by the manufacture. Should repair be necessary, contact your nearest authorized Service Centre. Any repairs carried out by unqualified personnel may be dangerous. The appliance shall be stored in a room without continuously operating ignition sources. (For example: open flames, an operating gas appliance or an operating electric heater). Do not pierce or burn. Appliance filled with flammable gas R32. For repairs, strictly follow manufacturer's instructions only. Be aware that refrigerants not contain odour. Read specialist's manual.

■ Refer to the minimum room area table.

#### 1.1.9 Qualification requirement for installation and maintenance

- All the operators who are engaging in the refrigeration system should bear the valid certification awarded by the authoritative organization and the qualification for dealing with the refrigeration system recognized by the company or the institution where this operation is carried out. If it needs other technician to maintain and repair the appliance, they should be supervised by the person who bears the qualification for using the flammable refrigerant.
- The unit must be installed in a room that is larger than the minimum room area.
- Maintenance must be done in a room that is larger than the minimum room area.
- Check whether the maintenance area is well-ventilated. The continuous ventilation status should be kept during the operation.

— The unit can be repaired only with the method suggested by the manufacturer.

### 1.1.10 Warnings during welding operations

If it is necessary to cut or weld the pipes of the refrigeration system, please follow the points below:

- Operations must be carried out by specialised technicians or qualified personnel.
- Shut down the unit and cut off power supply.
- Discharge the refrigerant following the required procedures; the gas must be disposed of in a suitable torch with an anti-flame-return device.
- Make sure that there isn't any naked flame near the outlet of the vacuum pump and it's well-ventilated.
- Make sure there is a dry powder or CO<sub>2</sub> fire extinguisher near the work area.

### 1.1.11 Minimum room area table

Charge amount (kg)	Floor location (m <sup>2</sup> )	Window mounted (m <sup>2</sup> )	Wall mounted (m <sup>2</sup> )	Ceiling mounted (m <sup>2</sup> )
≤1.2	/	/	/	/
1.3	14.5	5.2	1.6	2.6
1.4	16.8	6.1	1.9	2.8
1.5	19.3	7.0	2.1	3.0
1.6	22.0	7.9	2.4	3.2
1.7	24.8	8.9	2.8	3.4
1.8	27.8	10.0	3.1	3.6
1.9	31.0	11.2	3.4	3.8
2.0	34.3	12.4	3.8	4.0
2.1	37.8	13.6	4.2	4.2
2.2	41.5	15.0	4.6	4.4
2.3	45.4	16.3	5.0	4.6
2.4	49.4	17.8	5.5	4.8
2.5	53.6	19.3	6.0	5.0
2.6	58.1	20.9	6.5	5.2
2.7	62.6	22.6	7.0	5.4
2.8	67.4	24.3	7.5	5.6
2.9	72.3	26.0	8.1	5.8
3.0	77.3	27.9	8.6	6.0
3.1	82.6	29.8	9.2	6.2
3.2	88.0	31.7	9.8	6.6
3.3	93.6	33.7	10.4	7.0
3.4	99.3	35.8	11.1	7.4
3.5	105.2	37.9	11.7	7.9
3.6	111.3	40.1	12.4	8.3
3.7	117.6	42.4	13.1	8.8
3.8	124.0	44.7	13.8	9.3
3.9	130.7	47.1	14.6	9.8
4.0	137.4	49.5	15.3	10.3

## 2 GENERAL WARNINGS

### Read the instruction manual carefully before using the unit

This symbol indicates that the failure to observe the instructions may cause damage or severe injuries.

The seriousness of potential damage or injuries is classified as either a **WARNING**, **CAUTION**, **PROHIBITION** or **NOTICE**.

### WARNING



The signal word indicates a hazard with a medium level of risk which, if not avoided, may result in death or serious injury.

### CAUTION



The signal word indicates a hazard with a low degree of risk which, if not avoided, may result in minor or moderate injury.

### PROHIBITION



Indicates a prohibited action which, if not avoided, could result in death or serious injury.

### NOTICE



**IMPORTANT** additional information on how to use the product

Read these operating instructions carefully and attentively before using/commissioning the unit and keep them for later use!

### WARNING



This product should not be used by children younger than 8 years of age, or by older people who do not have adequate physical, mental or motor capacity, or without specific experience in using the product. Users should be familiar with how to use the product safely, and should be informed on the risks and damages related to an incorrect use. Children should never treat the product as a toy. Children should never clean or perform maintenance on the product.

### 2.1 WARNINGS FOR THE INSTALLATION

#### WARNINGS



The installation and electrical connection of the unit must be carried out only by persons possessing the technical professional requisites for installation, transformation, expansion and maintenance of systems and the ability to perform checks on them for safety and operation. In this manual, these will generally be referred to as "Personnel with specific technical skills".



This air conditioner must be installed according to national plant engineering regulations. Particular attention must be paid to safety guidelines and to ensuring that the wiring is correctly connected, incorrect wiring connection could result in supply cables, plug or power socket overheating, which could present a fire risk.



Ensure that the air conditioner is connected to the power supply or to a power socket with the correct voltage and frequency. Using power supplies with the incorrect voltage and frequency could damage the unit and consequently risk starting a fire. The voltage must be stable, without major fluctuations.



Install on a solid surface that can sustain the weight of the unit. Check the support is securely installed and the unit is absolutely stable after operating for a long time.



To protect the unit against short circuits, mounted on the supply line of thermomagnetic isolator switch with a minimum contact separation of at least 3mm in all poles.



The isolator switch and any plug must be installed in an easily accessible position.



To ensure good drainage, the condensate discharge pipes must be correctly installed, following the installation instructions. Adopt the most suitable measures to avoid heat dispersion and the consequent formation of condensate. Incorrect installation of the pipes can result in water leaks, wetting furniture and other items in the room.



When installing the device, cross-check its dimensions and weight.



When installing the unit, allow sufficient technical clearance around the unit for maintenance.



Ensure that the power supply and the installed output are adequately scaled to supply the air conditioner correctly.



Before operating the air conditioner, ensure that the electric cables, condensate discharge pipes and cooling connections have been correctly installed to avoid the risk of water leaks, refrigerant gas leaks and electric shocks.



The air conditioner must be correctly earthed.



The unit and the isolator switch must be turned off before carrying out maintenance work or cleaning. The rotation of the fans inside the unit can cause injury.



Check that the power supply is disconnected before carrying out any operations on the unit.



For the power supply, use undamaged cables with a section that is suitable for the load.



Stranded cables can be used only with a cable terminal. Ensure the strands of the wires are inserted well.



Take care when stretching the supply and connection cables around the units, the cables must not be subject to mechanical stress. The cables must be protected.



If the power cable is damaged, it can be replaced by the manufacturer or by the technical assistance service or a person with a similar qualification, so as to prevent any risks.



Periodically check that the installation conditions of the unit have not been altered: have the system checked by "personnel with specific technical skills".



Install indoor unit and remote control at least 1 metre away from electrical appliances, TVs, radios, stereos, etc.



After completing the electrical wirings, carry out a test. This operation must only be carried out by "Personnel with specific technical skills".



The wiring diagrams are subject to a continuous update, therefore, it is mandatory to refer to those on the unit.










Replace the circuit breakers only with identical circuit breakers to the original ones.

## PROHIBITION







Do not install the unit in a location where it could be affected by inflammable gas leaks or deposits of materials which are inflammable, explosive, poisonous, corrosive or hazardous substances. Do not use naked flames near the units. Risk of fire or explosion. Install the unit in a location with minimal levels of dust, fumes, humidity and corrosive agents in the air.







-  Do not install in laundries.
-  Do not make any modifications to the unit! Do not attempt to repair the unit alone, this is extremely dangerous! Incorrect operations could cause electric shocks, water leaks, fires etc. Contact your After Sales Service, these operations must only be carried out by "personnel with the specific technical skills".
-  Do not connect the earth cable to the gas or water pipes, to the lightning conductor, or to the earth cable of the telephone. Incorrect earthing/grounding could cause electric shocks.
-  Do not handle the unit or touch the buttons when your hands are wet. Risk of electric shock.
-  Do not place objects on the unit and do not climb on top of it.
-  Do not make connections on the power supply cable: use a longer cable. Junctions can cause overheating and/or fires.
-  Do not leave any cables in direct contact with the refrigerant pipes as they could reach high temperatures and moving parts, such as the fans.

## 2.2 WARNINGS FOR THE USER

### WARNINGS

-  This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and necessary knowledge if they are supervised or have received instructions concerning use of the appliance in a safe way and understand the hazards involved. Children should not play with the appliance. Cleaning and maintenance intended to be performed by the user should not be performed by children without supervision.
-  Adjust the room temperature correctly to obtain a comfortable environment.
-  Switch off the power supply if the air conditioner is not to be used for a long time. When the power supply switch is turned on, electricity is consumed even if the system is not operating.
-  Position devices such as TV, radio, stereo, etc. at a distance of at least 1 metre from the indoor unit and the remote control. There may be some audio and video interference.

### PROHIBITION

-  Do not dismantle or repair the unit while it is in operation.
-  Do not obstruct the flow of air into and out of the unit. A reduction in the air flow reduces the effectiveness and causes faults and malfunctions.
-  Do not spray or throw water directly onto the unit. Water may cause electric shocks or damage to the unit.
-  Do not drop the remote control and do not press the keys with pointed objects, this could damage the remote control.
-  Do not pull or deform the supply cable. If the cable is pulled or used inappropriately, the unit could be damaged and there is a risk of electric shock.
-  Do not leave the doors or windows open for long periods when the air conditioner is operating. The yield in Cooling mode is reduced if doors or windows are kept open.

## 2.3 PRECAUTIONS FOR USE

### WARNING



Ensure the equipment is not used by children or disabled people without suitable supervision; also note that the unit should not be used by children as a toy.



To manually orient the regular flow of air, keep the position of the vanes of the grille forward.



Periodically check that the installation conditions of the unit have not been altered, and have the system checked by a qualified engineer.



In the event of issues with the air conditioner (e.g. burning smell), disconnect the unit from the power supply using the isolator switch. If the problem persists, the unit may be damaged and could cause electric shocks or fires. Contact your local after sales service.



Air the room. We recommend that the room where the air conditioner is installed is periodically aired, especially if many people occupy the room or if there is equipment that uses gas. Insufficient ventilation may result in a lack of oxygen.



If the air conditioner is being used in a room where there are children, elderly or disabled people or bedridden patients, ensure that the room temperature is appropriate.



If the relative humidity is above 80% (with the doors and windows open) and the air conditioner has been operating in Cooling mode for a long time, condensate water will probably form on the outlet of the indoor unit.



This could cause unwanted dripping.



**Energy saving advice:** Do not leave the doors and windows open while the unit is operating. The effectiveness of the air conditioner is reduced, and energy is wasted.



When operating in Cooling mode, the temperature selected must not be more than 5 °C below the outdoor temperature, for optimum comfort and energy saving.



Limit the room's exposure to direct sunlight using blinds or by leaving the windows ajar.



Clean the air filters once a fortnight.



Be sure to disconnect the power supply when the unit is not being used for a long period of time. Disconnect the isolator switch from the power supply.

### PROHIBITION



Do not direct the air jet straight at your body. Avoid cooling the air excessively. This may cause health problems.



Do not direct the air flow straight at animals and plants.



Do not remove the protection grilles. Do not insert your hands, or any objects, into the sockets or air vents.



Do not place objects on the unit and do not climb on top of it.



Do not use sprays or insecticides on the unit, risk of fire.



Do not use the air conditioner to store food or to dry clothes.



**Do not under any circumstances insert your fingers or any object into the unit.**



**Do not turn on or off the air conditioner from the electric panel or the power socket. To turn the air conditioner on or off, use the remote control or the panel on the machine.**



**Do not place hot devices, flames or other heat sources near the unit. The effectiveness of the air conditioner is reduced, and energy is wasted.**

## 2.4 OPERATING LIMITS

FK261	Inner side		Outer side	
	Temp. D.B. (°C)	Temp. W.B. (°C)	Temp. D.B. (°C)	Temp. W.B. (°C)
Cooling	Standard rated conditions			
	Max.	32		26
	Min.			

The safety devices can block the unit if used outside the operating limits.

## 2.5 INFORMATION FOR CORRECT DISPOSAL OF THE PRODUCT



This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

### CAUTION



**Disposing of this appliance in the forest or other natural surroundings endangers your health and is bad for the environment. Hazardous substances may leak into the ground water and enter the food chain.**

## 2.6 DISCLAIMER

**Aermec S.p.A. does not assume any responsibility for damages to the unit or warranty loss in case:**

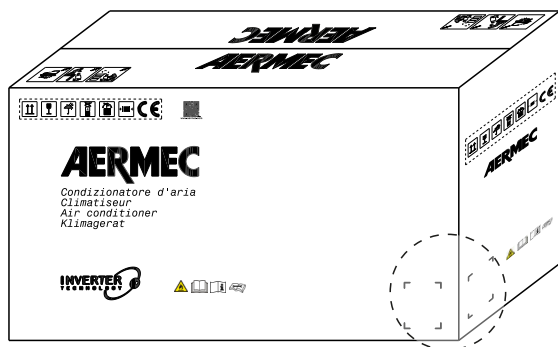
1. The unit is used improperly.
2. Attempts to modify, alter or repair the unit were made without following the previously mentioned instructions.
3. The unit that could have suffered from damages during transport, has not been checked.
4. The unit is operated / repaired without following the previously mentioned instructions.
5. Spare parts from third-party manufacturers are used.
6. Occurrence of natural disasters, force majeure or hostile environments.
7. The unit is damaged by corrosive gases in the environment.

### 3 PRODUCT IDENTIFICATION

#### 3.1 SAMPLE LABEL

Placed on the packaging, displays the data identifying the product.

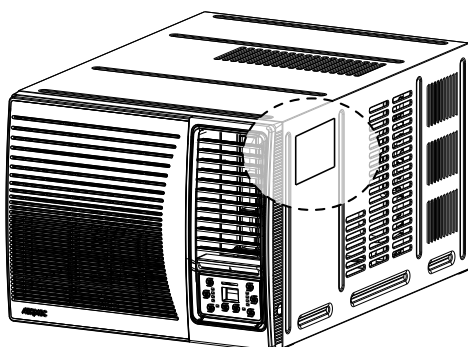
Example of packaging and positioning of label:



#### 3.2 TECHNICAL PLATE

The technical plate, located inside the unit, displays the product's technical and identifying data.

Example of outdoor unit and positioning of the characteristics plate:



## 4 PRESENTATION OF THE UNIT

### 4.1 PURPOSE OF THE UNIT

FK monoblock air conditioners have been designed only for the purpose of cooling internal spaces with dimensions and conditions of use that are suited to the power installed.

DO NOT USE THESE UNITS FOR OTHER PURPOSES.

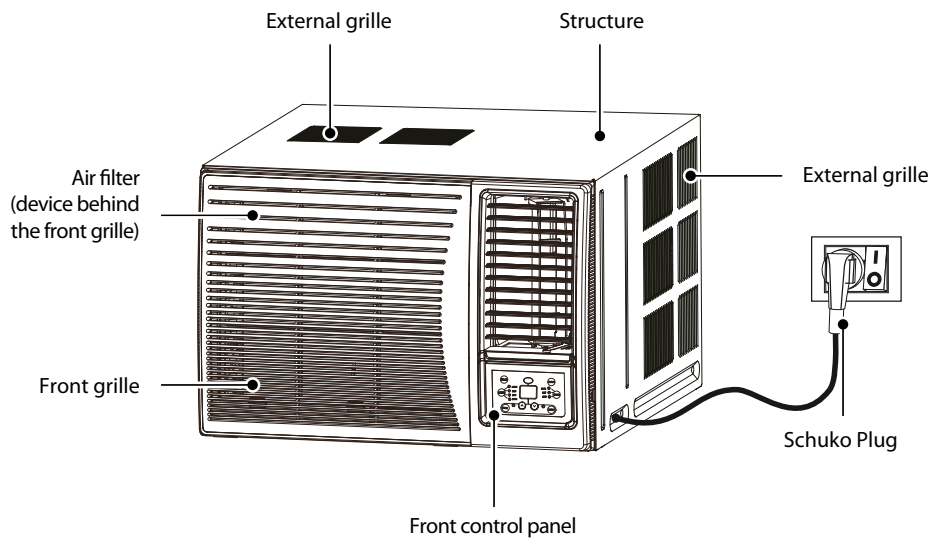
Operation of the various models is managed with the remote control or the panel on the machine.

### 4.2 UNIT TYPE

FK air-cooled monobloc air conditioners are ideal units for cooling, dehumidification or ventilation only.

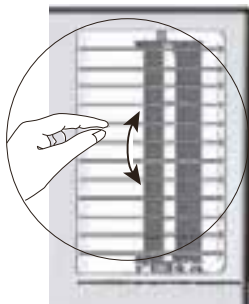
Perfect for applications in commercial environments such as stores, hotels, offices, laboratories, prefabricated sheds, etc.

These units are equipped, as standard, by a front control panel on the machine, as well as a remote control device.



Sensor	Function
Temperature sensor	It's used for detecting ambient temperature and pipeline temperature.
Infrared receiver	Receive the infrared signal sent from the remote controller.

#### 4.2.1 Adjusting air flow direction



Vertical airflow direction vane  
(Airflow direction adjustment up and down).

The vertical airflow direction deflector is controlled by positioning the vane to discharge the air upwards, downwards or straight out.

### 4.3 FEATURES

- Operation with R32 eco-friendly refrigerant gas
- Centrifugal fan evaporator side and axial fan condenser side
- DC Inverter Rotary Compressor
- Infra-red remote control
- Control panel on the machine
- Compact unit with reduced dimensions
- Three possible functions:
  - Cooling
  - Dry
  - Fan Only
- Class A energy efficiency
- Contained sound emissions
- Plug and play
- Possibility to adjust the flow of air upward or downward.
- Timer for setting operation with a clock (turning on or switching off).
- Easy installation and maintenance
- Automatic operating modes suitable for the various installation contexts (room, office, restaurant).
- Auto-Restart Function: The System will save the setting operation status before Power Supply failure (Black Out). Once Power Supply recovered, the System will automatically operate at the set status before Power Supply failure.

### 4.4 MAIN PARTS

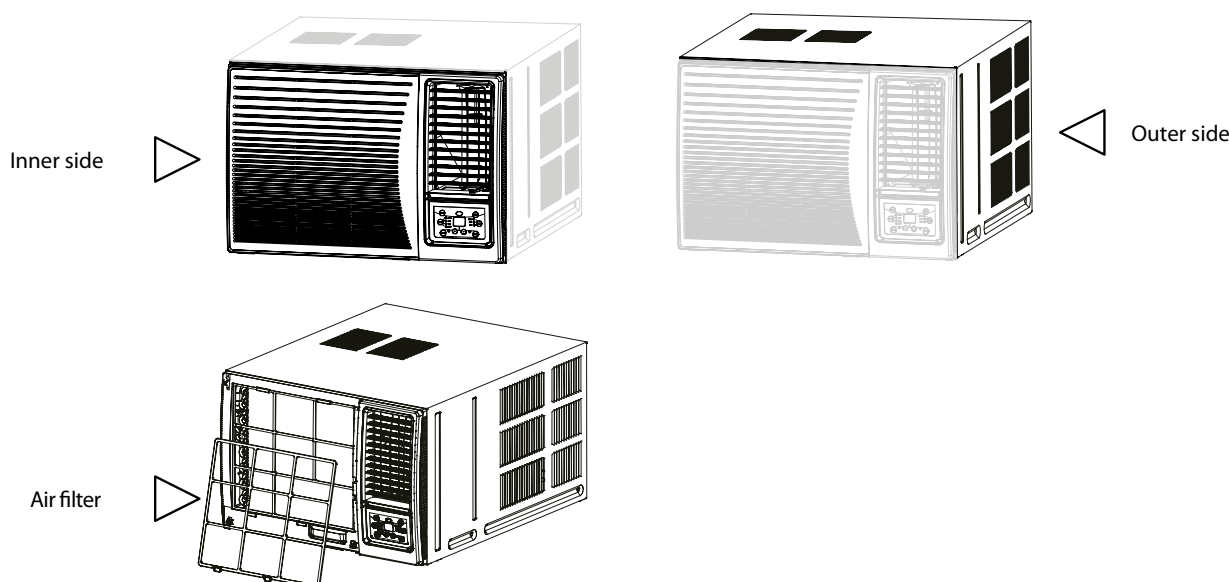
#### NOTICE



All the illustrations in the manual are for explanation purpose only. Your machine may be slightly different. The actual shape shall prevail.



The unit can be controlled by the unit control panel alone or with the remote controller.



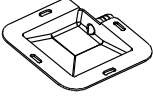
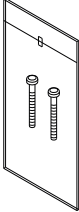


#### NOTICE



In order to ensure the optimal performance of our products, the design specifications of the unit and remote control are subject to change without prior notice.

## 4.5 MATERIAL STANDARD SUPPLIED

	Remote control	1
	Batteries for the remote control	2
	Condensate drip	1
	Screws	2

## 5 TECHNICAL DATA

### 5.1 PERFORMANCE SPECIFICATIONS

		FK261
<b>Local air conditioner (portable)</b>		
Cooling capacity	W	2500
Cooling input power	W	770
Cooling input current	A	4,0
EER	W/W	3,25
SEER	W/W	5,10
Efficiency energy class		A
Annual power consumption	kWh/annum	172
Moisture removed	l/h	1,18
<b>Air flow rate</b>		
Maximum	m <sup>3</sup> /h	280
Average	m <sup>3</sup> /h	240
Minimum	m <sup>3</sup> /h	190

**Cooling** (EN 14511): Ambient air temperature 35°C d.b. / 24°C w.b. - Max speed

### 5.2 UNIT DATA

		FK261
<b>Inner side</b>		
Type of fan	Type	Centrifugal
Fan power	W	45,0
Type of evaporator	Type	Copper/Aluminium
<b>Inner side sound pressure</b>		
Maximum	dB(A)	50,0
Average	dB(A)	47,0
Minimum	dB(A)	42,0
<b>Inner side sound power</b>		
Maximum	dB(A)	60,0
Average	dB(A)	57,0
Minimum	dB(A)	52,0

**Sound Power** measured in semi anechoic chamber at a distance of 1,0m - in accordance with EN12102.

**Sound Pressure** measured in semi anechoic chamber at a distance of 1,0m - in accordance with EN12102.

		FK261
<b>Outer side</b>		
Type of compressor	Type	Rotary
Type of condenser	Type	Copper/Aluminium
Type of fan	Type	Axial
Air flow rate	m <sup>3</sup> /h	700
<b>Outer side sound pressure</b>		
Maximum	dB(A)	55,0
Average	dB(A)	52,0
Minimum	dB(A)	47,0
<b>Outer side sound power</b>		
Maximum	dB(A)	65,0
Average	dB(A)	62,0
Minimum	dB(A)	57,0

**Sound Power** measured in semi anechoic chamber at a distance of 1,0m - in accordance with EN12102.

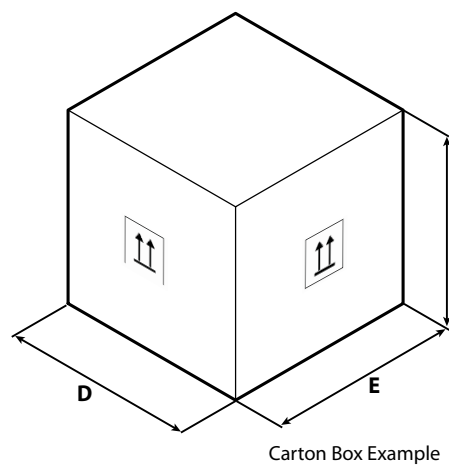
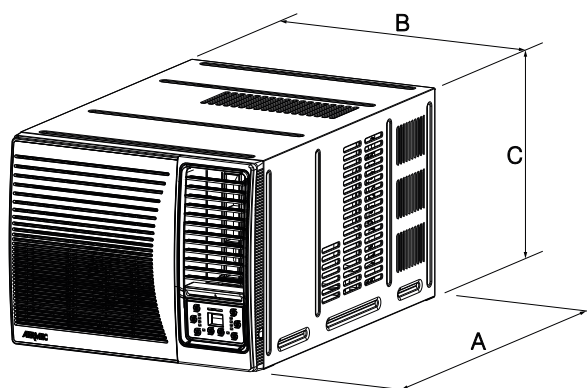
**Sound Pressure** measured in semi anechoic chamber at a distance of 1,0m - in accordance with EN12102.

### 5.3 GENERAL DATA

<b>FK261</b>		
<b>Electric data</b>		
Rated power input	W	1200
Rated current input	A	6,3
<b>Power supply cable</b>		
Type of power supply cable	Type	<VDE>H05VV-F 3G1.0mm <sup>2</sup> L= 1.30m + SCHUKO PLUG IEC60884-1 16A 250V~
<b>Power supply</b>		
Power supply	V/Ph/Hz	220-240V ~ 50Hz
<b>Local air conditioner (portable)</b>		
Protection rating		IPX4
Refrigerant gas		R32
Refrigerant charge	kg	0,42
GWP	kgCO <sub>2</sub> eq.	675

**The rated power input** (rated current input) is the maximum input electrical power (maximum current input) from the system, in accordance with the Standards EN-60335-1 and EN-60335-2-40.

## 6 DIMENSIONS AND WEIGHTS



Carton Box Example

<b>Dimensions and weights</b>		<b>FK261</b>
A	mm	640
B	mm	450
C	mm	350
D	mm	743
E	mm	516
F	mm	374
Net weight	kg	29,5
Weight for transport	kg	33,5

## 7 INSTALLATION

### 7.1 PRECAUTIONS FOR INSTALLATION OF THE UNIT

To guarantee the unit operates correctly, the choice of location for the installation must meet the following criteria:

- The external parts of the unit must be installed so as to avoid the recirculation of air discharged from the unit and that there is sufficient space around the machine for maintenance operations.
- The place of installation should have good ventilation so the external parts of the unit can suck in and blow out a sufficient amount of air. Make sure there are not obstacles near the air intake and delivery sockets.
- Remove any obstacles which may be blocking the intake or discharge of air.
- The position of installation should be solid enough to support the weight of the unit, and it must be possible to absorb vibrations and insulate noise. Ensure that the air and noise coming from the unit do not disturb your neighbours.
- The installation position must ensure that the external parts are not covered by snow and it not subject to the effects produced by fumes from fuel and oils.
- Avoid direct exposure of the unit to solar radiation, it is recommended to install protection.
- The place of installation should guarantee the drainage of rainwater.
- Always ensure adequate condensate drainage is installed. The condensation discharge pipe is NOT supplied with the unit. It should only be installed under the base of the unit and connected to a pipe of a sufficient diameter.
- The site of installation must be positioned so that the discharge air outlet is not exposed to strong winds and the air discharged must be free to disperse into the atmosphere.
- There should be no obstacles near the air delivery and intake sockets in the internal part so that air can circulate freely.
- Ensure the installation complies with the minimum technical clearances specified in the installation diagram.
- The installed unit must be horizontal and level.
- Installation in dusty or smoky environments (kitchens with cookers, etc.) can clog the filter, the heat exchanger and the condensate discharge, resulting in reduced performance and the risk of condensate water overflow.
- If the unit is installed in a kitchen, make sure the exhaust hood of the kitchen is enough to suck all the smoke of the kitchen. Install the unit away from the stove to prevent that suck the fumes.
- Install the unit further than 1m away from other electrical appliances such as TVs, radios, audio equipment, etc.
- Do not install the unit in a location where it could be affected by inflammable gas leaks.
- Do not install the unit near a laundry, bathroom, shower or swimming pool.
- To avoid problems with the air conditioner, avoid installation in locations:
  - Where there is a lot of oil.
  - Where there is an acid base.
  - Where the power supply is irregular.

## 7.2 MINIMUM TECHNICAL SPACES

### CAUTION



Choose a location where there are no obstacles that could block the air inlet and outlet of the air conditioner and the plug is accessible.

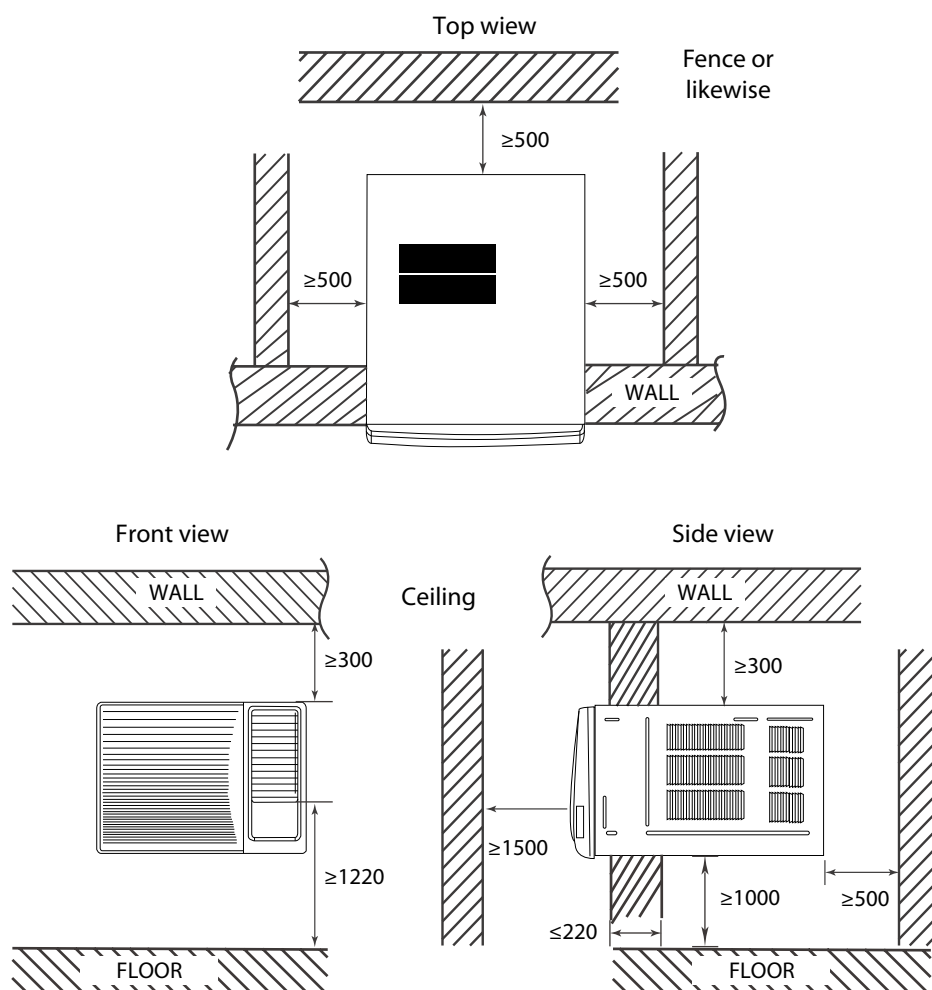


Prepare the installation hole slightly bigger than unit size.

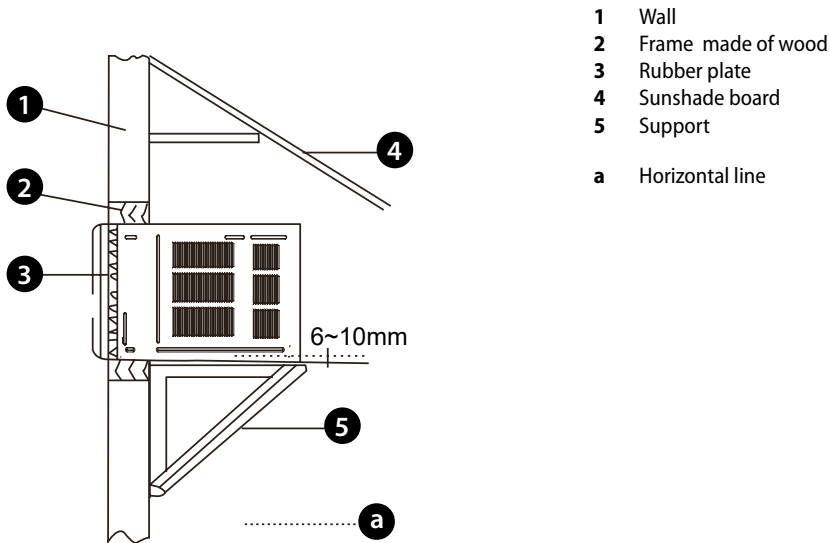


Choose the installation space according to the following diagram.

The distance between the air conditioner and the around obstacles should meet the requirement as below:



### 7.3 INSTALLATION PROCEDURE



**Carry out the following installation procedure:**

1. Remove the sticker from the front panel.
2. Put the unit in the installation hole.
  - During installation the unit should be inclined by 6 to 10 mm towards the rear as shown in the figure, for ensuring the correct drainage of the condensate.
  - The installation hole must be strong enough to avoid the enlargement of noise or vibration.
3. Fill the space between the hole and the unit with polyurethane foam or similar for proper fixing and insulation.

**Installation assistance:**

— **Use iron support**

The installation hole should be strong enough to support the air conditioner.

If it cannot, iron support has to be used outdoors.

Iron support should be fixed on the building (shown in figure)

— **Use sunshade board**

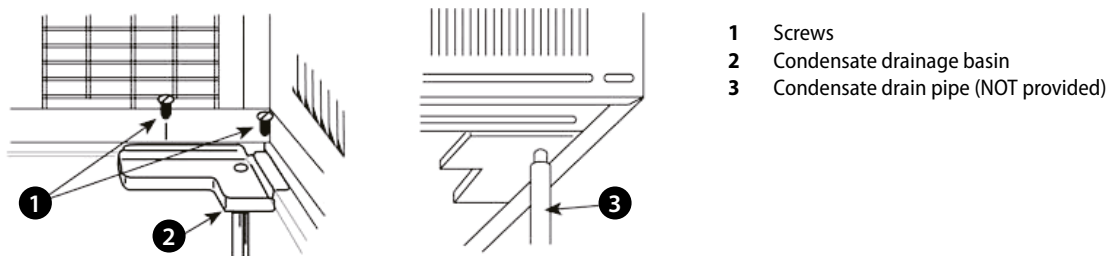
Air conditioner should avoid anything to be dropped into it and avoid direct sunshine.

If there is no cover on it, you should contact the seller for installing the sunshade board.

When installing the sunshade board, don't let it block the air inlet at the side grille.

### 7.4 CONDENSATE DRAINAGE

Perform the following procedure to install the condensate drain pan (provided) and the condensate discharge hose (NOT provided):



Perform this procedure before starting up the unit.

1. Slide the frame of the unit from the base.
2. Install the condensate drain pan hose on the corner and fix it with two screws, as shown in the figure.
3. Connect the condensate discharge hose (NOT provided) to the specified coupling on the bottom of the drain pan.

4. Slide the frame of the unit back to its original position.

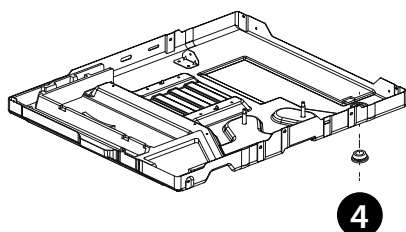
### NOTICE



The unit is designed to spray the condensate water of the evaporator on the condenser coil. This process is necessary to increase performance by reducing the condensation temperature.



If the sound of the spraying is bothersome, the cap can be removed from the base (this can cause a slight loss of performance).



4 Base cap for condensate drainage

## 7.5 NOTES FOR INSTALLATION

### Remove

- Before removing air conditioner to the other place, please contact local after-sales service for assistance.
- Removing must be performed by experienced, authorised and qualified personnel.

### Noise


- Install in a location where is firm enough to avoid the enlargement of noise and vibration.
- Don't put anything in front of the outlet of the unit to avoid increasing noise.
- Be sure that hot air or noise will not inconvenience neighbors.
- If abnormal noises are heard during operation, contact the local after sales service immediately.

### Electrical wiring

- The air conditioner must be correctly earthed.
- The exclusive circuit must be used. But removable socket can't be used because poor contact of it can cause over heat or fire.
- Don't pull the power cord strongly.
- In fixed circuit, there must be electricity leakage protection switch and leakage current is less than 30mA.
- Connecting method between air conditioners and power cord and interconnecting method of each individual element with one another should accord with wiring diagram on the unit.
- The air conditioner should be installed in accordance with national wiring regulation.
- The appliance shall be installed in accordance with national wiring regulation.
- An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring.
- Air switch (thermal-magnetic breaker) should be installed in the circuit and its capacity is 10A.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- All the electrical work must be done according to the local wiring regulations.

## 8 OPERATION AND DESCRIPTION OF THE REMOTE CONTROL

### 8.1 USER NOTICE

- The wired controller is universal.
- Some of the buttons of the remote control are not used for the required unit and are therefore not described in these instructions. Pressing of these keys will not affect the operation of the unit.
- When the remote control sends a signal the symbol  appears on the display, the receiver of the indoor unit emits a sound to confirm reception of the signal.
- Never install the wired controller in the moist circumstance or expose it directly under the sunlight.
- Never operate the wired controller and the wireless remote controller with wet hands.

### NOTICE



Please read the manual carefully before using and installing this product.

### 8.2 USER INTERFACE (BUTTONS)

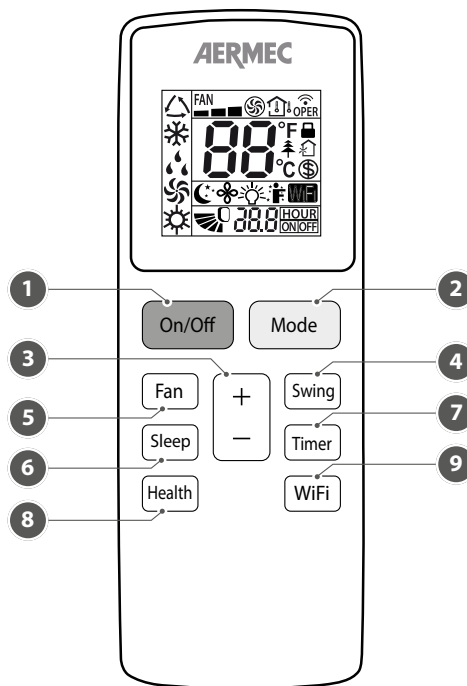


Table of contents	Function of the button
1	Switches indoor unit ON/OFF
2	Sets the operating mode
	Increase/decrease the temperature or, during timer setup, adjust the time
	Sets the operation of the motorised air discharge fin (swing function)
	Sets the fan speed
	Activate / Deactivate the night wellness (SLEEP) function
	Activates, deactivates or changes the programmed switch on or off timer
	Activate / Deactivate the health and scavenging functions (not available)
	Activates or deactivates the WiFi function

## 8.3 FUNCTIONS AVAILABLE THROUGH THE REMOTE CONTROL

### NOTICE



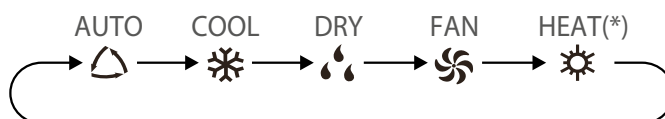
Before operation, please ensure the unit is plugged in and power is available.

### 8.3.1 Switching the indoor unit ON and OFF

Press the ON/OFF button to turn on the unit. Press this button again to turn off the unit.

### 8.3.2 Selecting an operating mode

If the unit is on, pressing the "Mode" button allows passing from one operating mode to the next, in this sequence:



- **AUTO mode:** the unit will operate automatically according to ex-factory setting. In this case, set temperature cannot be adjusted.
- **COOLING mode:** air conditioner operates under cooling mode. Cooling indicator will be on. Press "Fan Speed" button can adjust the fan speed.
- **DRY mode:** the unit runs in low fan speed for dehumidification and the corresponding indicator is on; under dry mode, the fan speed cannot be adjusted.
- **FAN mode:** the unit will only blow fan, no cooling and no heating. Press "Fan" button to adjust fan speed.
- **HEAT mode(\*):** function not available.

### 8.3.3 Setting the operating setpoint

Pressing "+" or "-" button once will increase or decrease set temperature by 1°C. Hold "+" or "-" button for 2 seconds, set temperature on remote controller will change quickly.

Release the button after your required set temperature is reached.

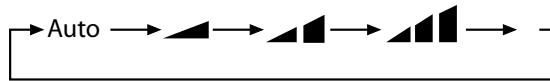
Under timer setting status, after each pressing of "+" or "-" button, time will increase or decrease 0.5 hours. Hold "+" or "-" button, 2 seconds later, time displayed will change quickly. Release the button once the desired time has been reached.

### 8.3.4 Setting the motorised discharge fin (SWING)

Press the SWING button to activate or deactivate the motorised deflector.

### 8.3.5 Fan speed

Press the "Fan" button to set the fan speed according to the sequence below:



: Speed 1

: Speed 2

: Speed 3

#### NOTICE



**There are 3 speeds for the Fan Speed.**



**In FAN mode, can't set the temperature. As a result, no temperature display in remote screen.**



**Under Dry mode the fan speed is low.**

### 8.3.6 Night mode (Sleep)

The SLEEP function is used to decrease energy use while you sleep (and don't need the same temperature settings to stay comfortable).

Then press SLEEP button to turn on/off this function.

#### NOTICE



**This function is only available under COOL mode to maintain the most comfortable temperature.**



**The SLEEP function is unavailable under FAN or DRY mode.**

### 8.3.7 Timer

Under ON status, press this button to set timer OFF; under OFF status, press this button to set timer ON.

Press this button once and the characters of HOUR ON (OFF) will flash to be displayed. Meanwhile, press "+" button or "-" button to adjust timer setting (time will change quickly if holding "+" or "-" button). Time setting range is 0.5~24hours. Press this button again to confirm timer setting and the characters of HOUR ON (OFF) will stop flashing.

If the characters are flashing but you haven't press timer button, timer setting status will be quiet after 5s. If timer is confirmed, press this button again to cancel timer.

### 8.3.8 WiFi function

Press WiFi button to turn on the function, WiFi icon will be displayed on the remote controller; Hold button for 5s to turn off WiFi function and icon will disappear.

Under off status, press "Mode" and "WiFi" buttons simultaneously for 1s, it is possible to reset the WiFi module of the indoor unit.

Refer to the " Please scan the QR code to download the EWPE manual [on page 28](#)" paragraph for use via the App.

### 8.3.9 EWPE Smart

Please scan the QR code or search "EWPE" in the application market to download and install it.



After scanning the QR code, accept the invitation to open the application or the Internet page of your store and download the App.

When "EWPE" App is installed, register the account and add the device to achieve long-distance control and LAN control of smart home appliances. APP can only set some common functions of remote controller: ON/OFF, mode, set temperature, FAN speed, etc.

When using the APP for the first time, please reset the WiFi function.  
Once the WiFi has been reset, add your device in the EWPE App.

### NOTICE



**If the device is offline or router's name and password have been changed, please reset WiFi and add the device again.**



**WiFi networking performance is related to the distance between the indoor unit and the router and the obstacles between them. During the installation process, the distance between the wired controller and the router should be as close as possible, and the obstacles should be as little as possible. If the WiFi signal is not good, use the WiFi signal enhanced router.**



**For more information, please refer to "Help" in App.**

**Please scan the QR code to download the EWPE manual**

Italian:

<http://www.aermec.com/qrcode.asp?q=15587>

English:

<http://www.aermec.com/qrcode.asp?q=15588>

French:

<http://www.aermec.com/qrcode.asp?q=15589>

German:

<http://www.aermec.com/qrcode.asp?q=15590>

Spanish:


<http://www.aermec.com/qrcode.asp?q=15591>

## 8.4 FUNCTION INTRODUCTION FOR COMBINATION BUTTONS

### 8.4.1 Unit of measurement

Under OFF status, hold "Mode" and "-" buttons simultaneously for 3s to switch temperature display between °C and °F.

### 8.4.2 Activating / Deactivating the indoor unit's display

The display on the indoor unit must be activated using the remote control; to activate the display of information on the front panel of the indoor unit press the button "+" and "FAN" on the remote control. The display will show the symbol  that indicates the activation of the display on the indoor unit; Pressing the button again deactivates the display.

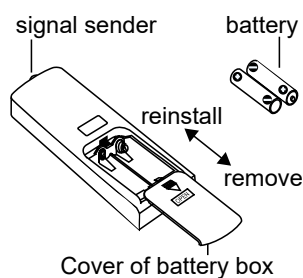
### 8.4.3 Child Lock

Hold "+" and "-" buttons simultaneously for 3s to turn on or turn off Child Lock function.

## 8.5 INSERTING AND REPLACING BATTERIES

Your air conditioning unit may come with two batteries. Put the batteries in the remote control before use.

1. Open the battery cover by sliding it in the direction of the arrow;
2. Insert two new 1.5V alkaline high performance batteries, type LR03 (AAA), taking care that their polarity is correct;
3. Slide the battery cover back into place.



### NOTICE



The remote control can emit a signal up to a maximum distance of 8 metres.



The unit can be affected by signals transmitted by remote controls for televisions, video recorders, or other devices used in the same room.



When batteries are replaced use new batteries of the recommended type.



Remove the batteries if the remote control is not used for extended periods.



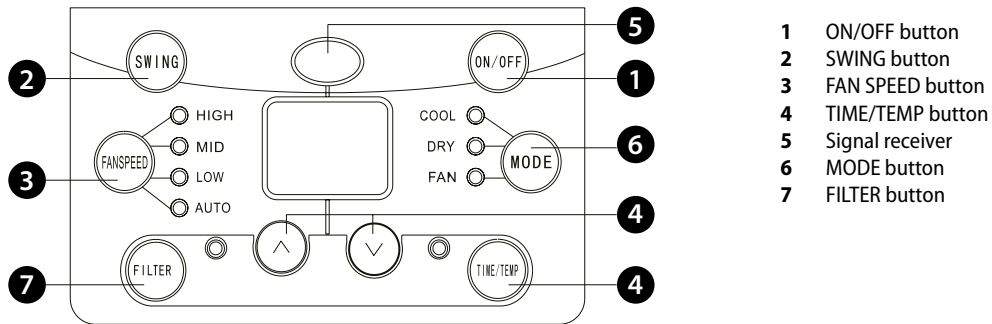
If the remote controller does not operate normally, please take the batteries out and reinsert them after 30 seconds. If it still can't operate properly, replace the batteries.

### 8.5.1 Information for correct disposal of the product



This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

## 9 CONTROL PANEL



### 9.1 OPERATION

#### 1 - ON/OFF button

Press this button to turn the unit on or off.

#### 2 - SWING button

Activate the automatic air swing function.

#### 3 - FAN SPEED button

Select the fan speed LOW, MID, HIGH and AUTO in sequence.

#### 4 - TIMER/TEMP button

TIMER function for setting the time the unit is switched on or off.

TEMP function to set the ambient temperature.

Pressing  $\wedge$  or  $\vee$  once will increase or reduce the set temperature.

The parameter value setting range is 16°C to 30°C.

Press the  $\wedge$  button to increase the set time in increments of 0.5 hours, and the  $\vee$  button to decrease it in the same increments.

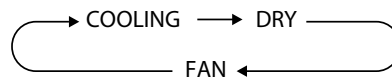
The settable range is from 0 to 10 hours.

For longer intervals, from 10 to 24 hours, the time will increase or decrease in 1-hour increments using the  $\wedge$  and  $\vee$  buttons respectively.

#### 5 - Infrared receiver

#### 6 - MODE button

Press any button to activate one of the possible modes.



Repeatedly press the button until the desired operating mode is reached.

#### 7 - FILTER Button (Air Filter Cleaning Alarm Function)

Setting this function the unit will show automatically to the user when it's necessary to clean the air filter.

Please remember that a regular cleaning of the air filter grants a better efficiency for air conditioner.

Push FILTER button to set this function.

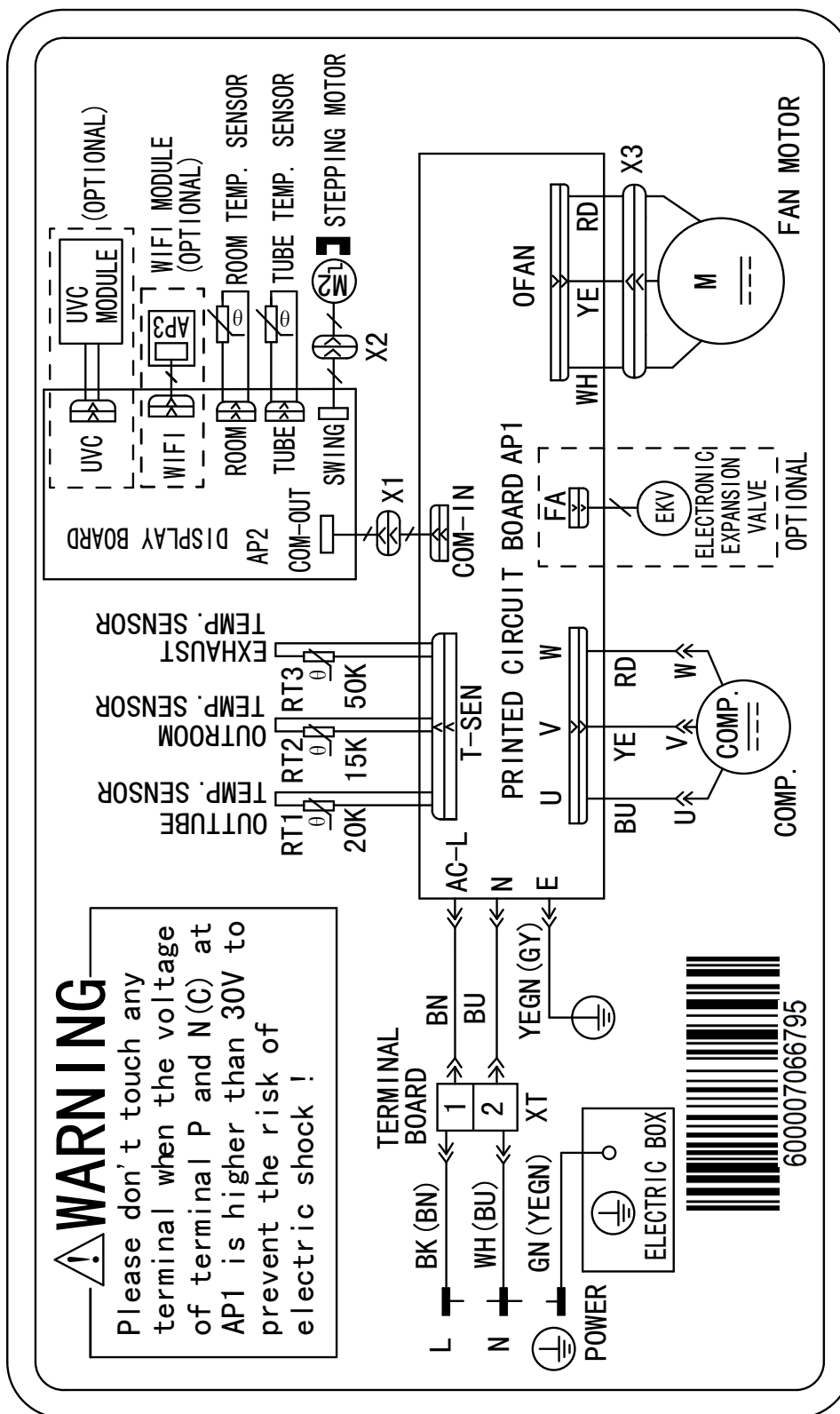
After 250 hours of operation the LED close to FILTER button will light and it will advise it is better to clean the air filter.

The unit will continue to work properly also when the LED is on.

After cleaning the air filter it is necessary to push FILTER button to switch-off the LED and the function.

Push the FILTER button again to set this function.

# 10 WIRING DIAGRAM



## 11 OPERATION TIPS

### 11.1 OPERATIONS FOR COMFORT AND ECONOMY

**Do not overcool the room temperature.**

Setting temperatures too low is detrimental to health and an unnecessary waste of energy.

**Keep blind or curtains closed.**

Do not let sunshine enter the room directly when the air conditioner is in operation.

**Maintain a consistent room temperature.**

Adjust the vertical and horizontal airflow direction to ensure ensure an even temperature throughout the room.

Air can't be discharged to the direction of air-in.

**Make sure all windows and doors are properly closed.**

Avoid opening doors and windows as much as possible to keep air conditioning in the room.

**Clean the air filter regularly.**

Blockages in the air filter reduce dehumidifying effects.

Clean the filter at least once every two weeks.

**Ventilate the room.**

Since windows are kept closed, it is a good idea to open them and ventilate the room now and then.

When starting the unit, curtains or windows should be closed to prevent the heat/cool leakage.

### 11.2 SAFETY AND HEALTH TIPS

1. The plug must be accessible after the appliance is positioned.
2. Do not use this appliance in the laundry.
3. If the power cord is damaged, it must be replaced by the manufacture or its service agent in void of hazard.
  - Don't pull the power cord.
  - Damage to the cord may result in serious electric shocks
  - Do not use the air conditioner for other purposes except for cooling the room.
  - Do not use the air conditioner for other purposes such as drying clothes, preserving foods, or cultivating vegetables.
  - Do not block the air intake and outlet vents. This causes lowered performance and irregular operation.
  - Do not insert sticks or other objects into these vents as it is dangerous to touch the electric components and the fan.
  - Select the most appropriate temperature. Pay attention to adjust the temperature to suit the conditions. Rooms occupied by infants, the elderly, or the sick should be kept at an appropriate temperature.
  - Do not use heating apparatuses in the vicinity. The air conditioner's plastic parts will melt if exposed to excessive heat.
  - Avoid exposing the body directly to a continuous unidirect- This is not recommended for health reason.
  - Wait 3 minutes before switching the unit back on after switch-off

#### CAUTION



**Pleas enotice that the unit is filled with flammable gas R32. Inappropriate treatment of the unit involves the risk of severe damages of people and material. Details to this refrigerant are found in chapter 1 Safety standards R32 gas [on page 5](#).**



**The device must be stored, installed and used in a room with a floor surface greater than 4m<sup>2</sup>.**

## 12 MAINTENANCE

### CAUTION



Always unplug the unit before cleaning or servicing.

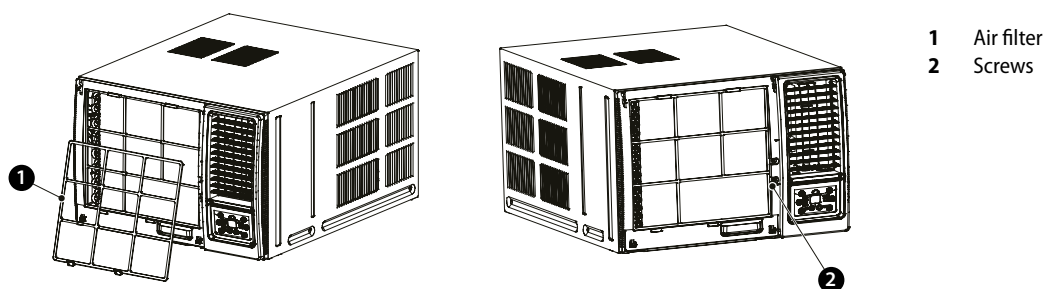
### 12.1 UNIT CLEANING

1. Disconnect the power supply before cleaning the unit. Disconnect the power supply when the air conditioner is off.
2. For routine cleaning, use only a soft, dry cloth. Gently wipe the unit to remove dust and dirt. (If the unit is especially dirty, you can use a cloth dampened with warm water. After cleaning with a damp cloth, dry the unit thoroughly with a dry cloth.
3. Don't use gas, benzene, solvent, wash, chemical solvent, etc. for cleaning.
4. Do not splash water directly into the unit, in which there are micro-computer and circuit plate, they must not be drenched with water.

### 12.2 CLEANING THE AIR FILTER

The air filter behind the intake grille must be washed at least once every two weeks.

Remove the air filter (as shown in the following figures):



- 1 Air filter
- 2 Screws

1. Open the air intake panel.
2. Remove the screws on the left and right sides (shown in the figure).
3. Apply light force to the structure to remove the filter.

How to clean the filter:

1. When the filter cleaning LED light appears, it is better to operate this way; once the filter is removed, dust it with a vacuum cleaner.
2. To remove the air intake grille, grasp the tab of the filter and pull to unhook it.
3. Rinse the filter under running water, always facing up so as to wash away excess dust not captured by the vacuum cleaner.
4. Only if after these steps the filter is still dirty, fill a tub with lukewarm water and some non-aggressive cleanser and soak it for a few minutes. Next, dry it with a cloth.
5. Otherwise, have a specialised technician clean the filter.

### NOTICE



Do not clean with water that is too hot.



Do not use fire to dry the filters.



Do not operate the air conditioner without the air filter.



Do not use brushes or hard tools.

## 12.3 TROUBLESHOOTING

Problem	Solution
Air conditioner does not operate at all.	Is there a power failure? Is the plug out? Is power fuse or switch off ? Whether the voltage is too high or too low?
Poor cooling performance.	Is the air inlet/outlet blocked? Is there any other heat /cool source in room? Is indoor fan speed set at LOW? Maybe the room is too hot/cool when the unit is started.
Mist emerging from the unit	At COOL mode operation, sometimes there is foggy air flowing out of the unit, this is because the room humid air has been cooling rapidly. The unit is normal while the indoor outlet is sending out some odor, because the inlet air may be mixed with the smell of furniture and smoke.
The unit is noisy and vibrates too much.	For a noise that sounds like water flowing: this is the sound of gas refrigerant flowing in unit. For a noise that sounds like a shower: this is the sound of the dehumidifying water being processed inside the air conditioner unit.
It seems that condensation is leaking from air conditioner.	Condensation occurs when the airflow from the air conditioner cools the warm room air.
Air conditioner does not operate for about 3 minutes when restart.	This is to protect the mechanism. Wait about three minutes and operation will begin.

## 12.4 ERROR CODE

Code on the display	Malfunction	Unit status	Possible causes
E2	Evaporator antifreeze protection	It is not an error code. This is the status code for the operation.	
E4	Compressor discharge high temperature protection	During cooling and drying operation, compressor and outdoor fan stop while indoor fan operates. During heating operation, all loads stop.	Refer to the malfunction analysis (discharge protection, overload).
E5	Over-current protection	During cooling and drying operation, compressor and outdoor fan stop while indoor fan operates. During heating operation, all loads stop.	1. Supply voltage is unstable. 2. Supply voltage is too low and load is too high. 3. Dirty evaporator.
Fo	Refrigerant recovery mode	Refrigerant recovery The Serviceman operates it for maintenance.	
F0	Freon-lacking protection	During cooling and drying operation, compressor and outdoor fan stop while indoor fan operates.	1. Heat exchanger is too dirty/blocks the air inlet/outlet. 2. Compressor operation is abnormal, strange noise or leakage occurs. Temperature of outer casing is too high. 3. The internal system is blocked (dirty blockage, ice blockage, oil blockage and the 4-way valve is not completely opened). 4. The pipeline is fractured or rusted, and the refrigerant is leaked.
F1	Room air temperature sensor disconnected or short-circuited	During cooling and drying operation, IDU operates, while other loads stop operation. During heating operation, the complete unit will stop operation.	1. Loosening or bad contact of Indoor evaporator temp. sensor and mainboard terminal. 2. Components on the mainboard fall down leads short circuit. 3. Indoor ambient temperature sensor is damaged. (Please check it by referring to the resistance table for temperature sensor) 4. Main board is damaged.
F2	Internal evaporator temperature sensor is open/short-circuited	AC stops operation once reaches the setting temperature. Cooling, drying: internal fan motor stops operation while other loads stop operation. Heating: AC stops operation.	1. Loosening or bad contact of Indoor evaporator temp. sensor and mainboard terminal. 2. Components on the mainboard fall down leads short circuit. 3. Indoor ambient temperature sensor is damaged. (Please check it by referring to the resistance table for temperature sensor) 4. Main board is damaged.

Code on the display	Malfunction	Unit status	Possible causes
F3	Outdoor air temperature sensor disconnected or short-circuited	During cooling and drying operation, compressor stop while indoor fan operates. During heating operation, the complete unit will stop operation.	Outdoor temperature sensor hasn't been connected well or is damaged. Please check it by referring to the resistance table for temperature sensor.
F4	External capacitor temperature sensor is open/short-circuited	During cooling and drying operation, compressor stop while indoor fan operates. During heating operation, the complete unit will stop operation.	Outdoor temperature sensor hasn't been connected well or is damaged. Please check it by referring to the resistance table for temperature sensor.
F5	Outdoor discharge temperature sensor is open/short-circuited	During heating operation, the complete unit will stop after operating for about 3 mins, while indoor fan will operate. During heating operation, the complete unit will stop after operating for about 3 mins.	1. Outdoor temperature sensor hasn't been connected well or is damaged. Please check it by referring to the resistance table for temperature sensor. 2. The head of temperature sensor hasn't been inserted into the copper tube.
HC	PFC protection	During cooling and drying operation, compressor will stop while indoor fan will operate. During heating operation, the complete unit will stop operation.	Refer to the malfunction analysis.
H1	Forced defrosting	It is a normal event.	
H3	Compressor overload protection	During cooling and drying operation, compressor will stop while indoor fan will operate. During heating operation, the complete unit will stop operation.	Wiring terminal OVC-COMP is loosened. In normal state, the resistance for this terminal should be less than 1ohm. 2. Refer to the malfunction analysis (discharge protection, overload).
H4	System fault	During cooling and drying operation, compressor will stop while indoor fan will operate. During heating operation, the complete unit will stop operation.	Refer to the malfunction analysis (overload, high temperature resistant).
H5	IPM protection	During cooling and drying operation, compressor will stop while indoor fan will operate. During heating operation, the complete unit will stop operation.	Refer to the malfunction analysis (IPM protection, loss of synchronism protection and overcurrent protection of phase current for compressor).
L9	Power supply protection	compressor stop operation and outdoor fan motor will stop 30s later, 3 minutes later fan motor and compressor will restart.	To protect the electronic components when detect high power
PH	Voltage for DC bus-bar is too high	During cooling and drying operation, compressor will stop while indoor fan will operate. During heating operation, the complete unit will stop operation.	1. Measure the voltage of position L and N on wiring board (XT), if the voltage is higher than 265VAC, turn on the unit after the supply voltage is increased to the normal range. 2. If the AC input is normal, measure the voltage of electrolytic capacitor C on control panel (AP1), If it's normal, there's malfunction for the circuit. Replace the control panel (AP1)
PL	Voltage of DC bus-bar is too low	During cooling and drying operation, compressor will stop while indoor fan will operate. During heating operation, the complete unit will stop operation.	1. Measure the voltage of position L and N on wiring board (XT), if the voltage is higher than 150V AC, turn on the unit after the supply voltage is increased to the normal range. 2. If the AC input is normal, measure the voltage of electrolytic capacitor C on control panel (AP1), If it's normal, there's malfunction for the circuit. Replace the control panel (AP1)
U7	4-way valve reversing error	If this malfunction occurs during heating operation, the complete unit will stop operation.	1. Supply voltage is lower than AC175V; 2. Wiring terminal 4V is loosened or broken; 3. 4-way valve is damaged, please replace.

### NOTICE



**If there're other malfunction codes, please contact your nearest authorized Aermec service centre.**

**CAUTION**

**Stop the operation immediately and turn off the main power supply, then contact your local Aermec authorized service center in the following situations:**

- **Operation starts or stops abnormally.**
- **Power fuse or switch often breaks.**
- **Carelessly splash water or something into air conditioner.**
- **Electrical lines are much hot or lines cover breaks.**
- **Other strange situations.**





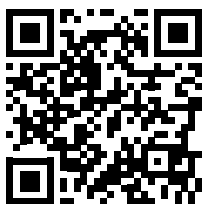


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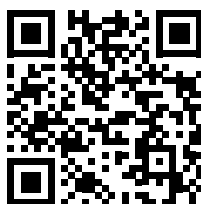
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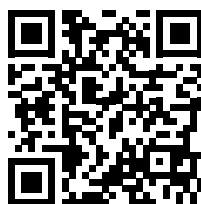
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