

AIR CONDITIONER WITH ELECTRONIC CONTROL

SERIES JKF



INSTALLATION & OPERATING INSTRUCTIONS

Installation Instructions



SAFETY PRECAUTIONS

Read the following "SAFETY PRECAUTIONS" carefully before installation. Electrical work must be installed by a licensed electrician. Be sure to use the correct rating of the main circuit.

The caution items stated here must be followed because these important contents are related to safety. The meaning of each indication used is as below. Incorrect installation due to ignoring of the instruction will cause harm or damage, and the seriousness is classified by the following indications.



WARNING

1. Use qualified installer and follow careful this instructions, otherwise it will cause electrical shock, water leakage, or aesthetic problem.
2. Install at a strong and firm location, which is able to withstand the set's weight. If the strength is not enough or installation is not properly done, the set will drop and cause injury.
3. For electrical work, follow the local national wiring standard, regulation and this installation instruction. If electrical circuit capacity is not enough it will cause electrical shock or fire.
4. Do not damage or use unspecified power supply cord. Otherwise, it will cause fire or electrical shock. 
5. Do not modify the length of the power supply cord or use of the extension cord, and do not share the single outlet with other electrical appliances. Otherwise, it will cause fire or electrical shock. 

Carry out test running to confirm that no abnormality occurs after the installation. Then, explain to user the operation, care and maintenance as stated in instructions. Please remind the customer to keep the operating instructions for future reference.


The items to be followed are classified by the symbols:



WARNING
This indication shows the possibility of causing death or serious injury.



Symbol with background white denotes item that is PROHIBITED from doing.

6. Make sure the power supply socket is accessible and easy for disconnecting.
7. This equipment must be earthed. It may cause electrical shock if grounding is not perfect. 
8. Do not install the unit at place where leakage of flammable gas may occur. Incase of gas leaks and accumulates at surrounding of the unit, it may cause fire.
9. If power cord is damaged, it must be replaces by manufacturer service agent or similar qualified person.
10. Carry out drainage piping as mentioned in installation instructions. If drainage is not perfect, water may enter the room and damage the furniture.

OPERATING LIMITS

Operating temperature range: 21°C - 32°C inside, 21°C - 43°C outside

ELECTRICAL SPECIFICATIONS






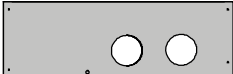




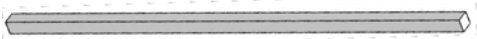
Power supply – 230/50/1, Voltage limit – 208V-253V
Circuit breaker rating – 10A, Type "G"

Contents:

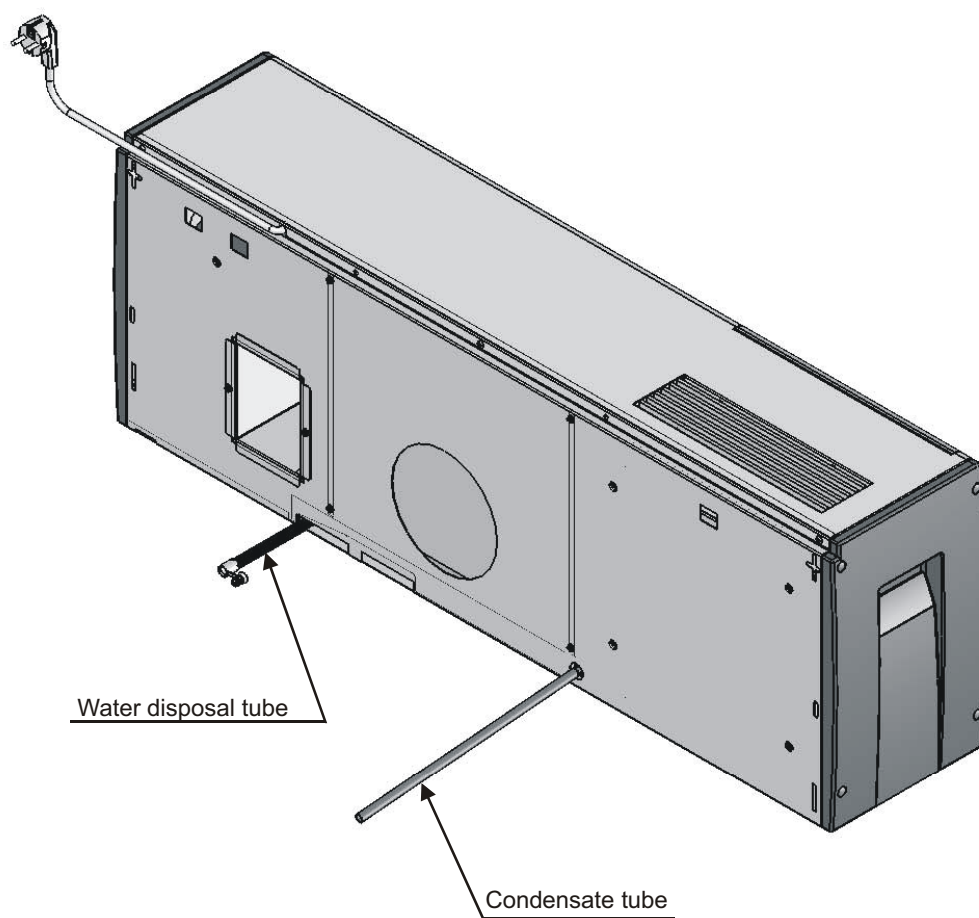
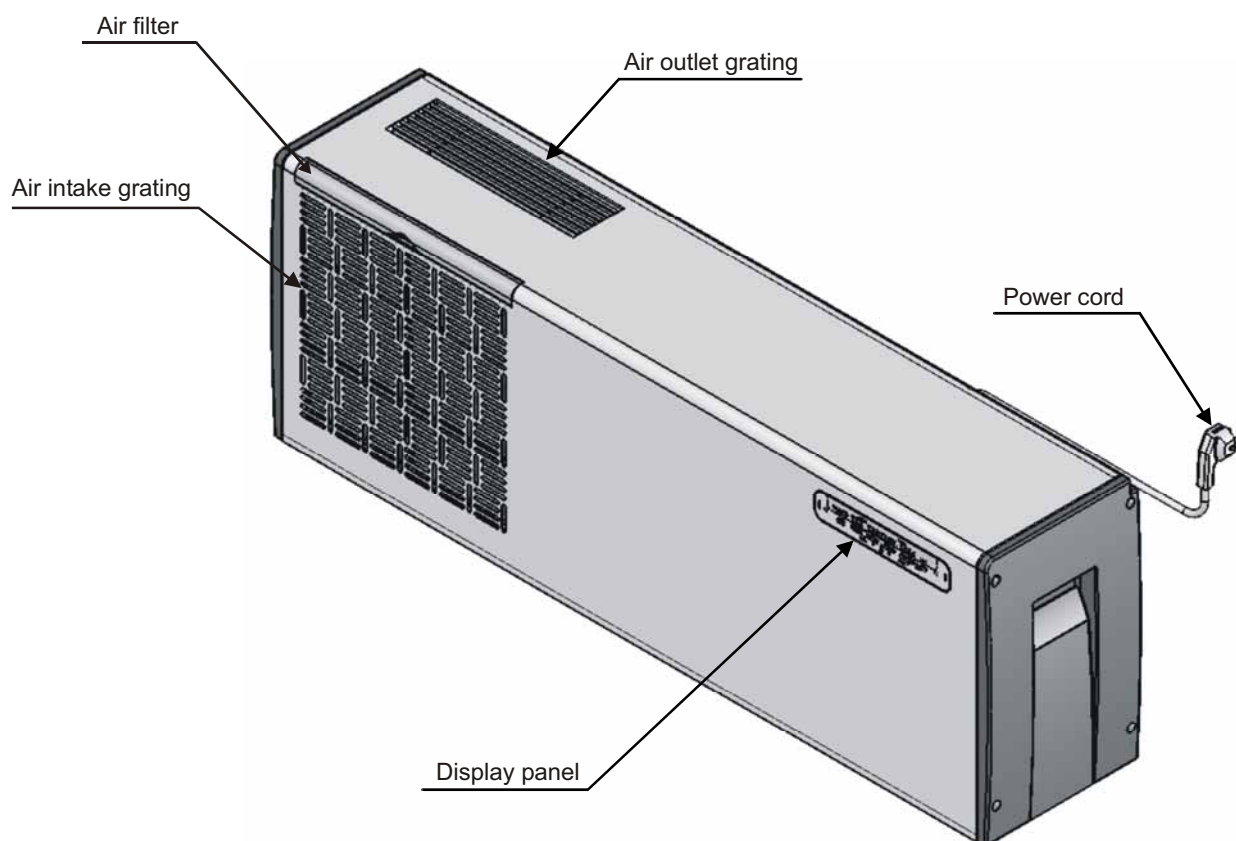
Safety precautions.....	2
Unit description.....	4
Unit location.....	5
Unit installation	6

Operating instructions.....	9
Maintenance	10
Before calling service	11

ATTACHED ACCESSORIES

Description	Amount	Name	Use
	1	Technician's installation Manual	Installation instructions
	4	Tie-Wraps	
	1	External grill	To install from outside
	4 each	Dibbles - Screws - Washers	For installing air inlet rings
	2	Air inlet ring	For air inlet tubes
	1	Template	
	4	Plugs	
	8 each	Dibbles - Screws - Washers	For installing the unit and the external grill to the wall
	4	Unit fix brackets	Fixing the unit to the wall
	1	Condensate tube ID8*650	Water draining
	2	Polyethylene band 15*15	For air inlet rings

UNIT DESCRIPTION



UNIT LOCATION

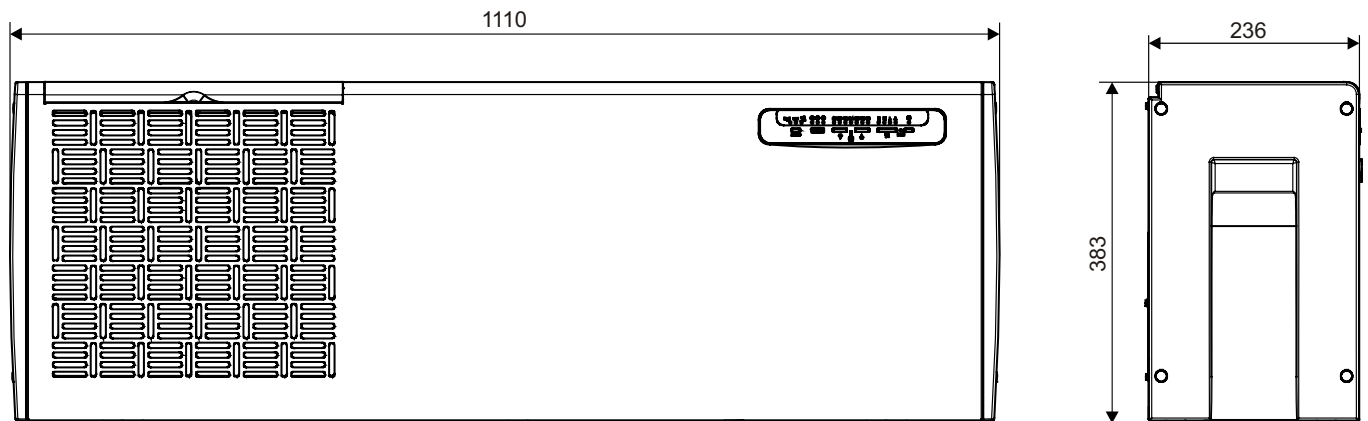
Important! This unit is designed to be placed on the floor. Do not hang it on the wall.

Select a location which is rigid and strong enough to support or held the unit, and select a location for easy maintenance.

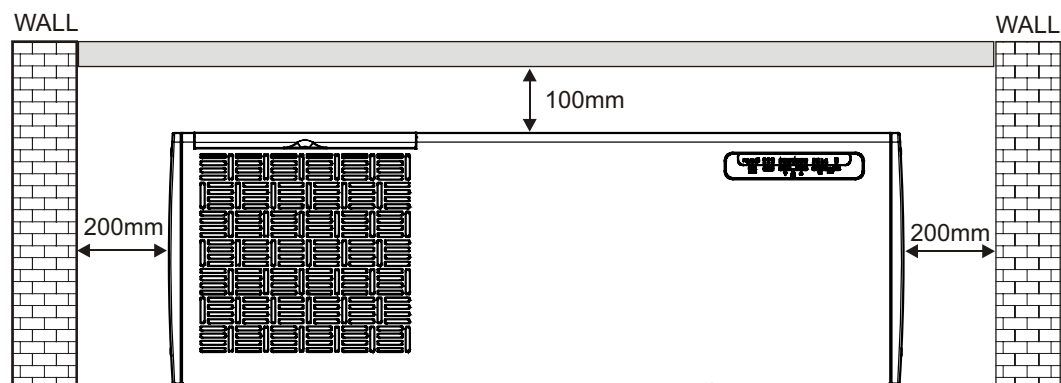
While selecting a location:

- Allow maximum airflow to the desired space.
- Allow maximum return airflow.
- Ensure adequate drainage of condensed water.
- This unit includes electrical heater, place it far from flammable materials as curtains, at least 40 cm.
- Leave a minimum 400 mm free space in front of the filter.
- Allow a free service access to the unit.

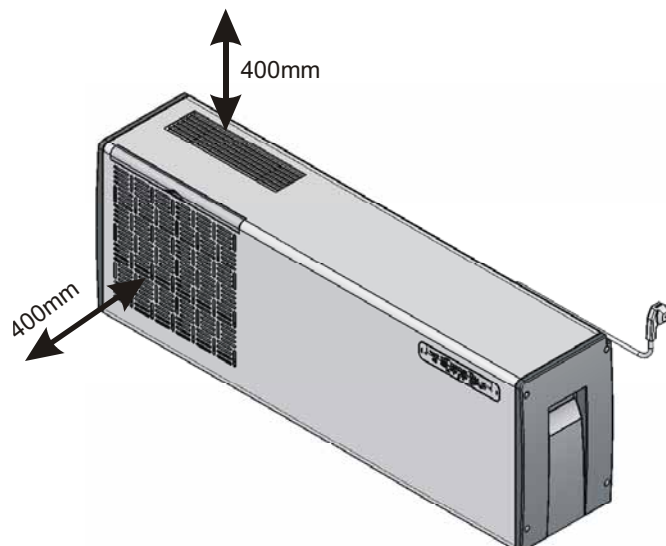
UNIT DIMENSIONS



CLEARANCES AROUND THE UNIT



CLEARANCES AROUND THE INLET/OUTLET AIR

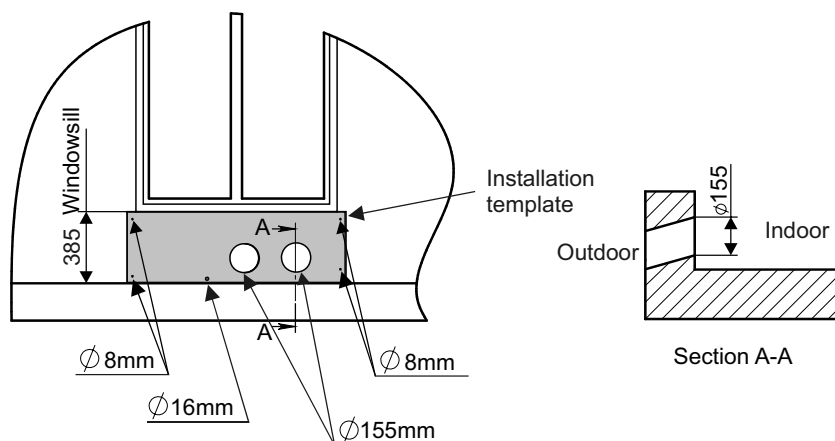


UNIT INSTALLATION

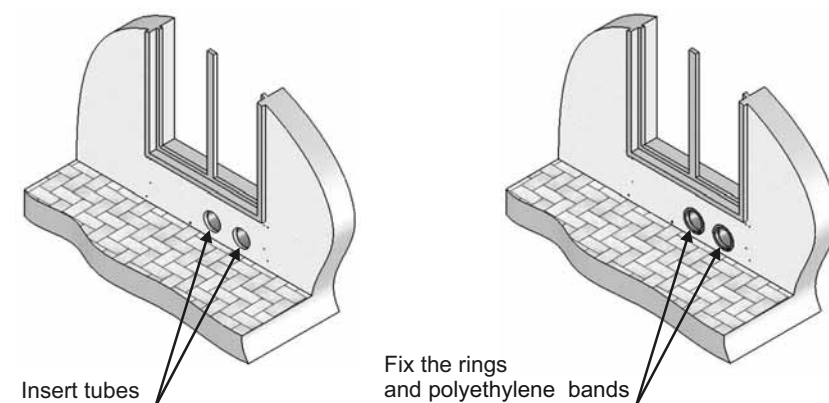
- a. Locate the installation template on the wall under the windowsill.
- b. Drill 4 holes $\varnothing 8\text{mm}$ through the template for fixing the unit to the wall.

Note: Drill the holes $\varnothing 16\text{mm}$ and $\varnothing 155\text{mm}$ with a slight outward inclination in order to prevent any backflow of water from the tubes.

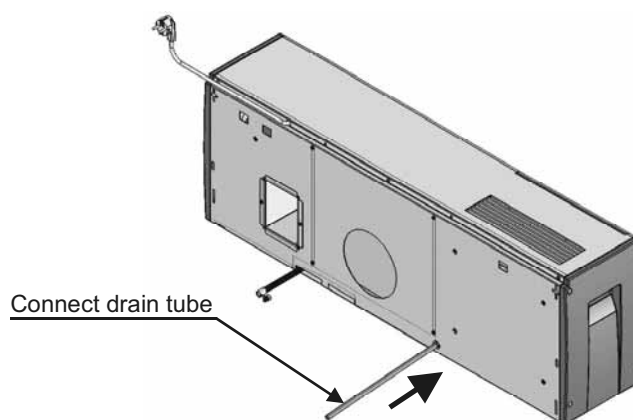
- c. Drill one hole $\varnothing 16\text{mm}$ through the template for drain tube.
- d. Drill 2 holes $\varnothing 155\text{mm}$ through the template for air inlet.



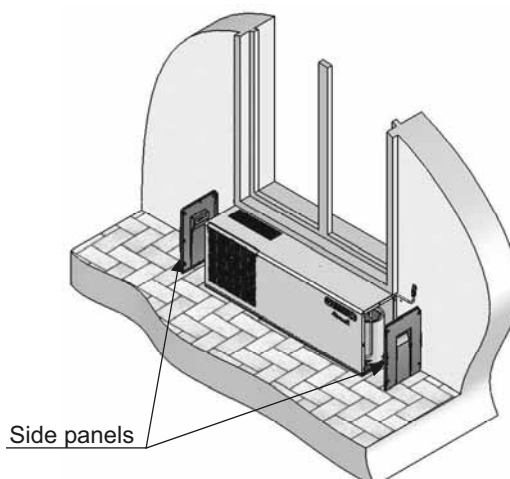
- e. Insert two $\varnothing 152\text{mm}$ tubes (not supplied) and fix the rings to the wall.
- f. Place two polyethylene bands around the rings.



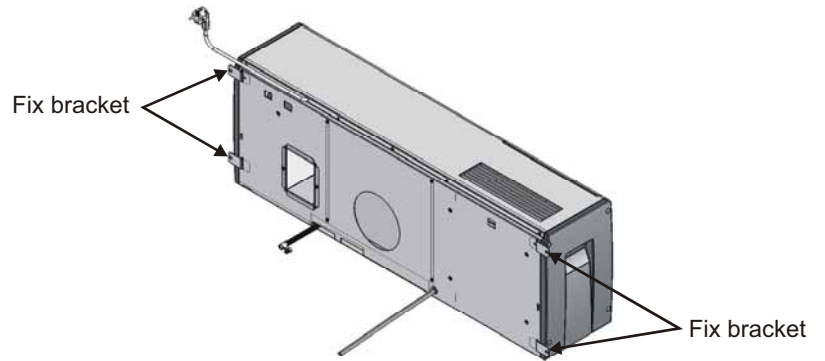
- g. Connect drain tube to the nozzle of the unit and insert it through the hole $\varnothing 16\text{mm}$ in the wall.



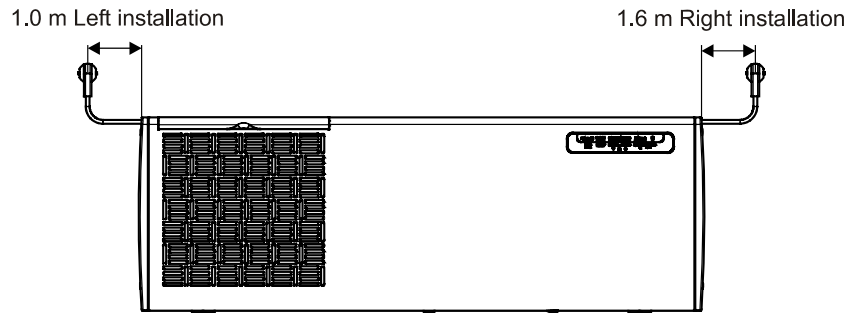
- h. Remove 4 plugs on each side panel and remove both side panels from the unit.



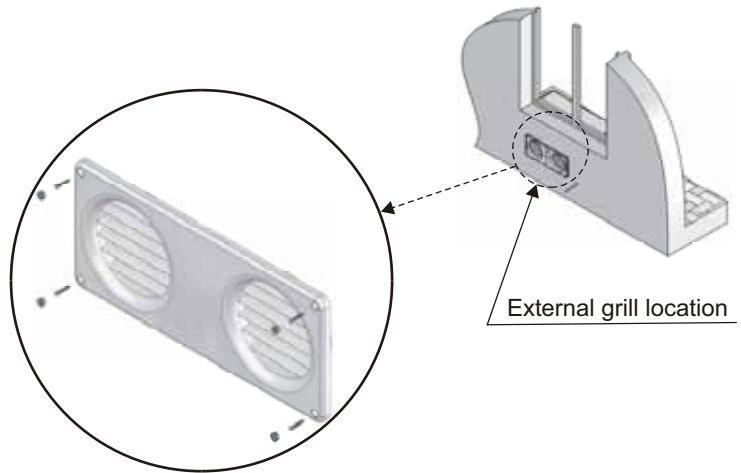
- i. Insert 4 fix brackets into the unit.



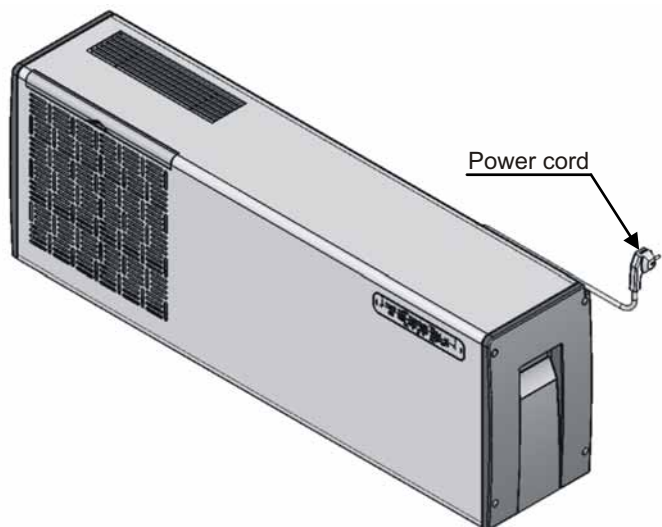
- j. Choose the side for power cord connection.
- k. Attach the unit to the wall.
- l. Fix the unit to the wall through 4 holes $\varnothing 8\text{mm}$ using 4 screws and washers.
- m. Reinstall side panels.



- n. Install the external grill from outside. Install 4 plugs.



- o. Plug the electric power cord (from left side or right side) into a power socket that is protected by a proper fuse.
- p. Install 4 plugs on each side panel.



EVALUATION OF THE PERFORMANCE

Operate the unit at cooling mode and high fan speed for fifteen minutes or more.
Measure the temperature of the intake and discharge air.
Ensure the difference between the intake temperature and the discharge is more than 8°C.

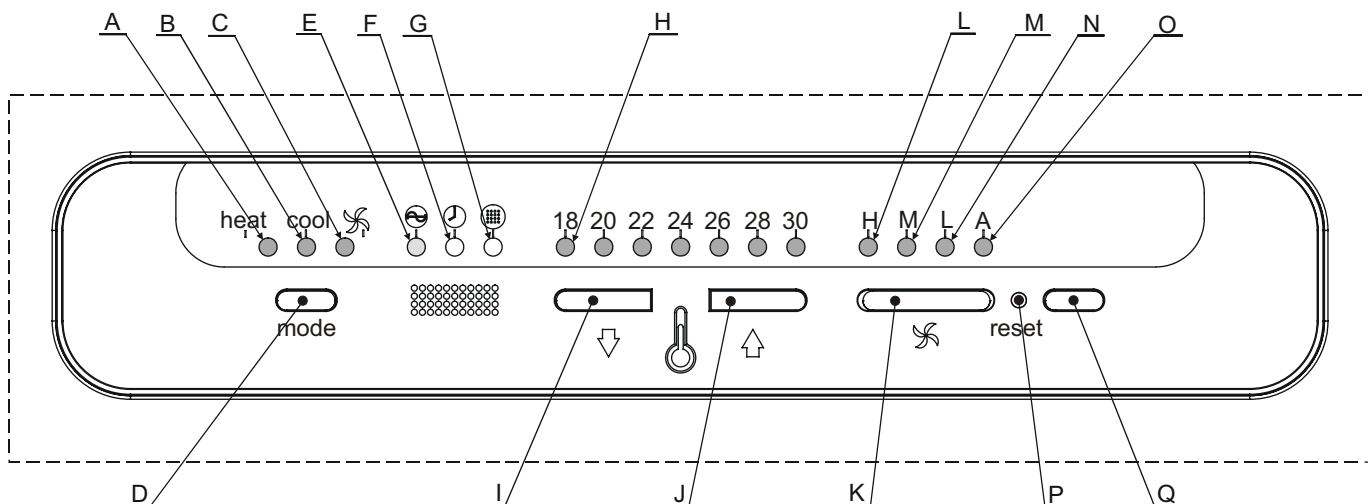
CHECK ITEMS

<input type="checkbox"/>	Is there any abnormal sound?	<input type="checkbox"/>	Is the thermostat operation normal?
<input type="checkbox"/>	Is the cooling operation normal?		

Operating Instructions

IMPORTANT NOTES

- Do not obstruct the air conditioner air inlet and air discharge.
- Do not allow children to play with the unit.
- Do not place hot or heavy objects on the unit.
- When using this air conditioner for the first time, please do the following:
 - Read this instruction manual and familiarize yourself with the controls.
 - Plug the electric power into a power socket that is protected by a proper fuse.
 - Check that all control functions operate properly.



A) HEATING

Lights on during operation. Heating and filtration of the air in the room. Sustainment of required ambient temperature.

B) COOLING

Lights on during operation. Cooling, dehumidification and filtration of the air in the room. Sustainment of required ambient temperature.

C) VENTILATION

Lights on during operation. The unit is running in ventilation mode only.

D) MODE Button

Pressing the button changes unit function between COOL – HEAT – FAN.

E) POWER

Lights on as soon as the unit is energized.

F) PROGRAMMING

Comes on during operation. Flashes to indicate that the remote control signal has been received and stored in the memory (applicable with remote control only).

G) FILTER

Comes on when the air filter needs to be cleaned. After cleaning and re-installation of the filter, the system must be reset (RESET button).

H) TEMPERATURE

Set temperature display
 18 lights - 18°C
 18 & 20 lights - 19°C
 20 lights - 20°C

I) TEMPERATURE SET DECREASE

Each pressing decreases set temperature by 1°C.

J) TEMPERATURE SET INCREASE

Each pressing increases set temperature by 1°C.

K) FAN

Each pressing changes fan speed MEDIUM – LOW – AUTO.

L) FAN

H – High speed

M) FAN

M – Medium speed

N) FAN

L – Low speed

O) FAN

A – Automatic

P) RESET

Press to switch off the indicator light and activate the filter function, after cleaning and re-installing the filter. Press to cancel the audible warning.

Q) ON/OFF

Unit On/Off button.

MAINTENANCE

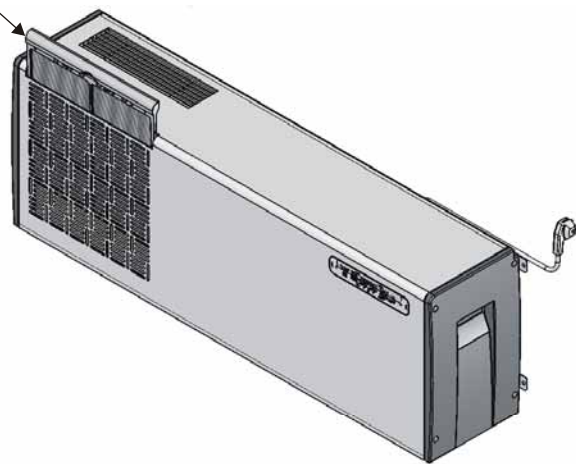
AIR FILTER CLEANING

Before performing any maintenance procedure, make sure to disconnect the air conditioner from the power supply.

One of the functions of the air conditioner is to filter the supplied air by collecting dust and dirt particles from the air.

The filter should be cleaned periodically – once a month, or at least once every season under ordinary conditions. Failure to clean the air filter will result in reduced cooling/heating capacity and may cause damage to the unit.

Air filter



UNIT CLEANING

Wipe the unit with a soft cloth or clean it with a vacuum cleaner.

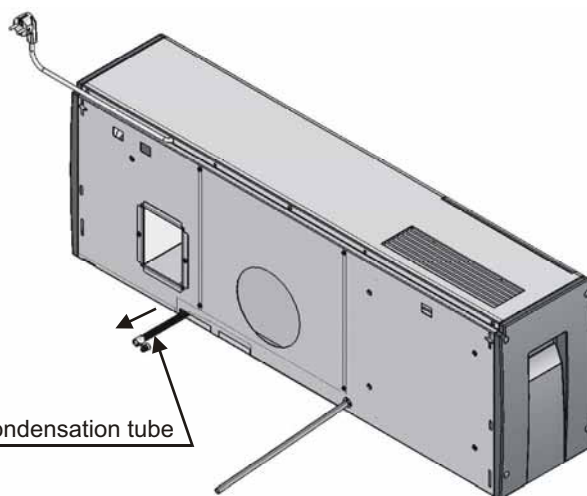
Do not use hot water or volatile materials, which could damage the surface of the air conditioner.

CONDENSATE WATER DISPOSAL

Before relocating or transporting the unit, it is recommended to remove all the water from the unit.

Withdraw the tube from the unit, remove the plug and empty the water to the suitable container.

Water condensation tube



BEFORE CALLING THE SERVICE

Before calling for service, please check the following malfunctions and correct as needed.
Should this fail to remedy the malfunction, contact your nearest authorized service center for qualified assistance.

PROBLEM	CAUSE	SOLUTION
Air-conditioner does not work; the operation indicator doesn't light up.	1. Power failure 2. Plug is disconnected.	1. Check main fuse. 2. Insert power cord in power supply socket.
Unit operates for only brief periods in cooling mode.	Improper temperature setting.	Decrease temperature setting.
Unit functions, but does not perform efficiency.	1. Window is open. 2. Source of heat in the room (cooker, etc.) or room is over crowded with people. 3. Unit capacity is insufficient for load or room size. 4. Improper temperature setting. 5. Air filter is clogged.	1. Close the window. 2. Remove source of heat. 3. Consult your dealer. 4. Adjust temperature setting. 5. Clean filter.
Unit does not heat.	Temperature setting is too low.	Reset temperature setting.
Filter indicator lights up.	Air filter is contaminated.	Clean filter, reinstall it and reset indicator.
Filter indicator blinks.	Condensate water overflow protection.	Consult your dealer.

