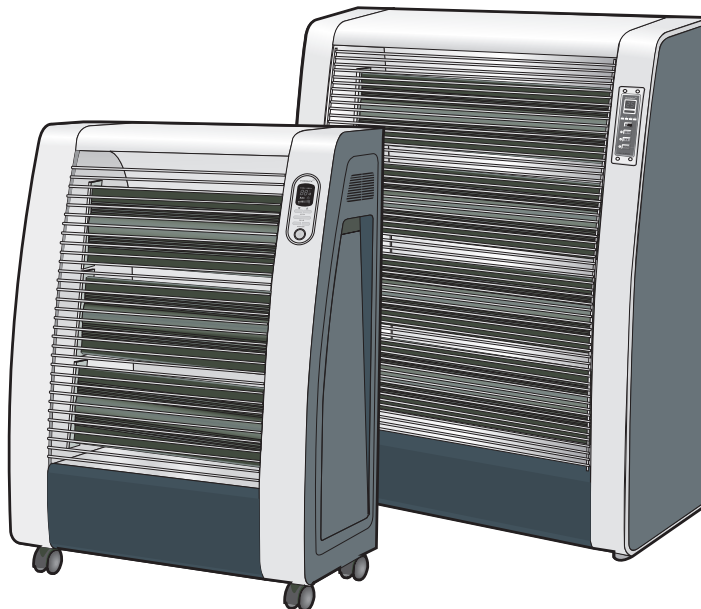


AIRREX PLATE HEATER

User's Manual

AH-720/AH-765/AH-780

- ▶ Thank you for purchasing Airrex Plate Heater. Please read the instructions thoroughly before using your heater.
- ▶ After reading the instructions, please keep them in a place accessible to all users.
- ▶ Ensure you read 'Safety Precautions' in advance and use the product correctly.
- ▶ The product is specified for use with a power supply of 230v. 50Hz.
- ▶ This manual includes the product warranty.
- ▶ Specifications and contents of this manual may be changed without prior notice, in accordance with our commitment to product quality, design and control.



HEPHZIBAH CO., LTD.



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Safety Precautions

These precautions are designed for keeping users safe and preventing material damage.
Be sure to read them and use the product correctly.

- There are 3 classifications of safety precautions and they are listed in the box below.



RISK

Possibility of death or severe injury in the event of mishandling.



WARNING

Possibility of death or severe injury in the event of mishandling.



CAUTION

Possibility of injury and /or material damage in the event of mishandling.

※ Meaning of picture signs



Indicate prohibition.



Indicate contents that people must carry out.

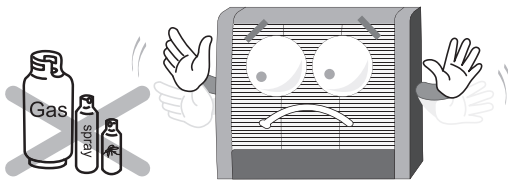


RISK

♣ After reading this, be sure to keep it at a place where other users can refer to it at any time.

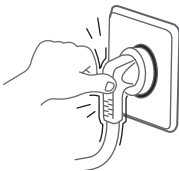
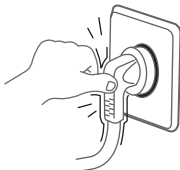
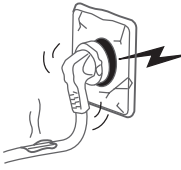
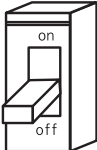
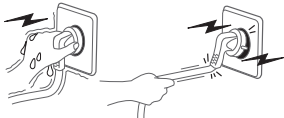
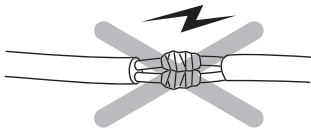
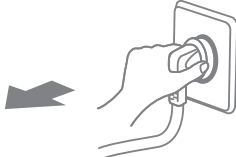
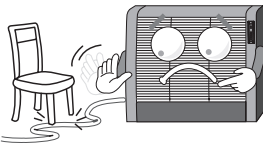
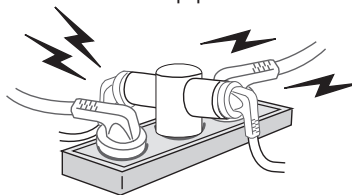
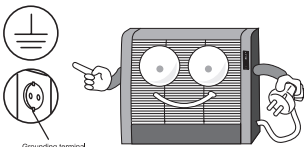
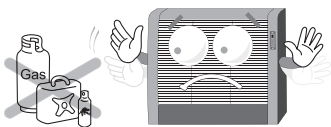
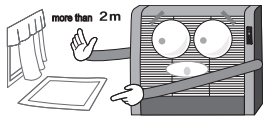
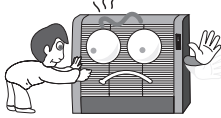
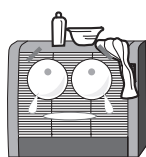


Do not leave or use pressure vessel around heater.
(Can cause explosion)



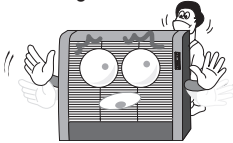
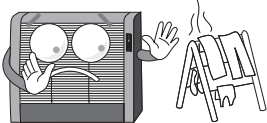
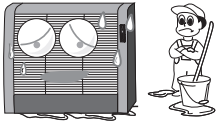
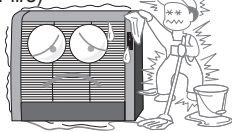
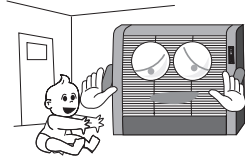
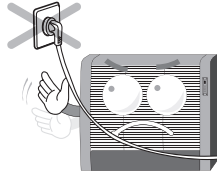
⚠ WARNING

♣ After reading this, be sure to keep it at a place where other users can refer to it at any time.

❗ Use specific 230V 13 amp socket. (to prevent fire & electric shock)  230V AH-720	❗ Ensure both plug and socket is clean and free from dust when using.  AH-720	⊘ Never use with a damaged power lead, plug or loose wall socket. (this can cause electric shock, short circuiting or fire)  AH-720
❗ Ensure that the circuit breaker or fuse supplying the socket is fit for the capacity required. (incorrect breaker could cause a risk of breakdown or fire) 	⊘ Never remove the plug from the socket by pulling the mains lead. Never touch the plug with wet hands. (risk of electrocution and/or fire)  AH-720	⊘ Do not extend the power cord. (risk of breakdown or fire) 
❗ Ensure you hold the power plug properly when either plugging in or unplugging.  AH-720	⊘ Do not kink or place the main power lead under heavy objects. (risk of electric shock or fire) 	⊘ Do not overload the dedicated power socket with other equipment. 
⊘ Always turn off the unit by use of its on/off switches and never by just pulling the mains plug or tripping the circuit breaker. 	❗ Ensure that the unit is properly earthed through the mains power circuit.  Grounding terminal	⊘ Do not install, use or place any combustible liquids or gases near the product. (risk of fire or explosion) 
⊘ Never place the unit near combustible products such as vinyl, carpets etc. This can cause a fire.  more than 2m	⊘ Never put hands or objects into the main body of the product. Never touch it immediately after use (risk of fire, burns or electric shock) 	⊘ Never place combustible objects on the product such as vinyl and plastic items. (can cause a risk of fire) 

⚠ WARNING

♣ After reading this, be sure to keep it at a place where other users can refer to it at any time.

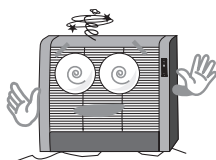
⊘ Never use the unit in places such as bathrooms, shower rooms, near swimming pools or anywhere near water. (electrocution and / or electric leakage can easily occur) 	⊘ Never move the product whilst it is switched on. Always turn it off and allow it to cool down before touching. 	⊘ Do not use the unit other than for its intended use. (do not use for drying clothing or for keeping animals or plants warm etc.) 
! Never allow water to get into the unit by leaving it exposed to the rain or careless cleaning. (this could cause fire or electric shock) 	⊘ Never spray water directly onto the unit nor attempt to clean it with any solvents or flammable liquids. (this could cause electric shock or fire) 	! The safety grille does not protect children or frail people completely. (use under strict supervision) 
! If the power cord is damaged, it must be replaced by a qualified electrician. (risk of electric shock or fire)  A/S AH-720	⊘ Do not use the product whilst sleeping or away from the premises. 	⊘ Do not place the heater close to the electric socket (risk of fire) 
⊘ Never leave the product switched on if it is covered by any objects or placed improperly as the programmer may automatically operate the unit and cause a fire	■ The heater must not be located immediately below a socket outlet. ■ Do not use this heater in the immediate surroundings of a bath, a shower or a swimming pool. ■ 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.	

⚠ CAUTION

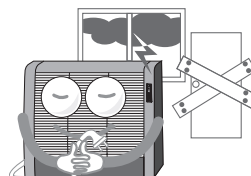
♣ After reading this, be sure to keep it at a place where other users can refer to it at any time.



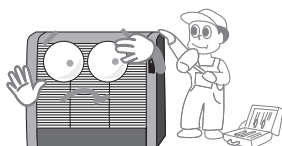
When in use, the heater must be on a flat and even surface



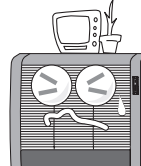
When thunder and lightning is present, turn off the unit and disconnect from the power supply. Disconnect from power supply when the unit is not being used for a long period.



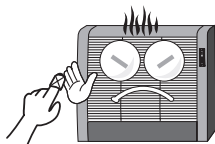
Do not try to take the unit apart or repair it. Never jar the product.



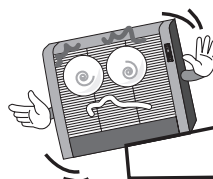
Do not place heavy objects on the product. (can cause breakdown or electric shock and you can get injured when objects fall down)



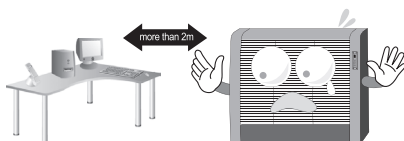
Do not touch hot parts whilst in use - do not place hands on the unit as it gets very hot during its heating operation. Always turn it off and allow it to cool before handling. Children must be kept away from the heater.



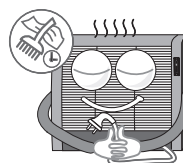
Do not use the unit on unstable or unsafe surfaces.



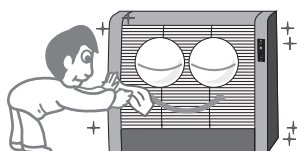
Keep heater away from other electric domestic appliances (They could get damaged due to high heat)



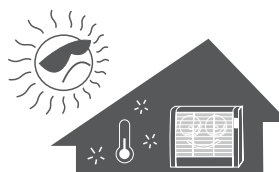
Do not clean the product before disconnecting from power and allowing it to cool down.



After storage, remove all dust before re-use.



Store the product in dry, indoor locations and not in hot or humid locations.



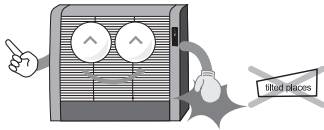
Precautions for installation and before use

PRECAUTIONS FOR INSTALL

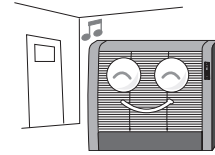
♣ After reading this, be sure to keep it at a place where other users can refer to it at any time.



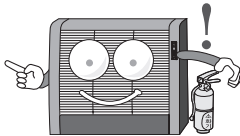
Install the product at places where bottom is solid and even. (the product cannot be working at tilted places)



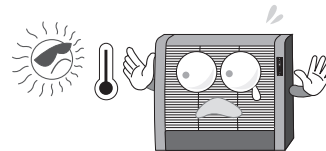
Install the product at places that are visible to people. (frequently observe the product for safety)



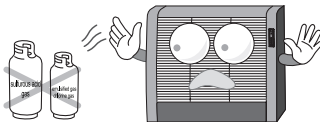
Install the product at places where users always reside and be sure to equip fire extinguisher.



Do not install at places with high temperature.



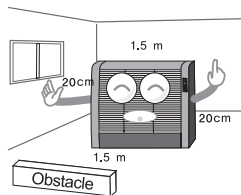
Use the product at places without sulfurous acid gas, emulsified gas or chlorine gas.



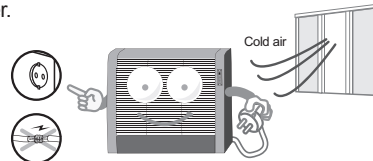
HOW TO INSTALL

♣ Keep packaging parts because they are necessary in maintaining the heater for a long time.

Always leave a clear space of at least 20cm from the left, right and rear panels of the unit. The unit must also have at least 1.5m clear space above it. Never put any obstacles nearer than 1.5m to the front of the unit.



- Use the unit in places with easy access to power sockets and that are well ventilated.
- Never use connecting terminals in the power lead. Always directly connect the unit to the power.



HOW TO USE POWER

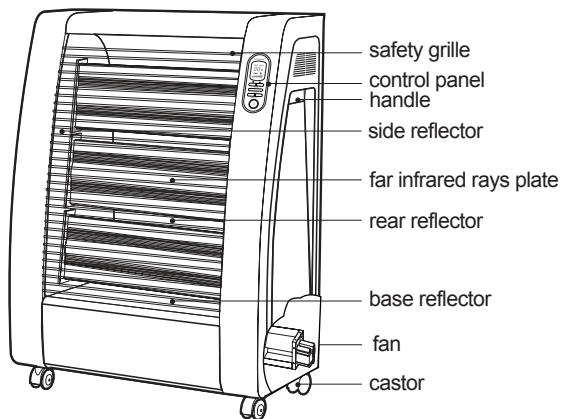
When using 230V (AH-720)
Put plug into specific outlet for 230V with earth terminal.



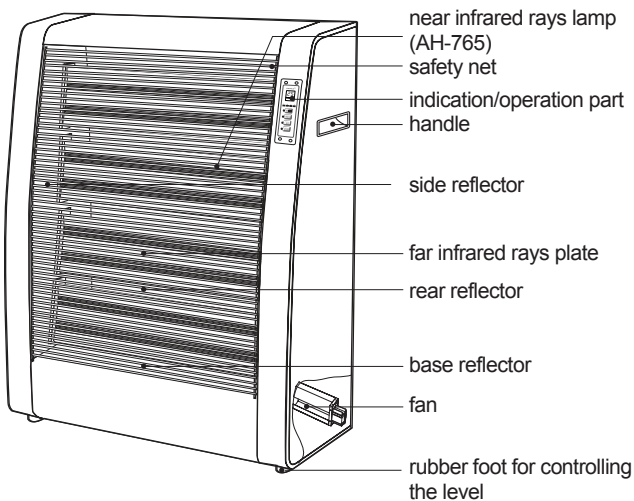
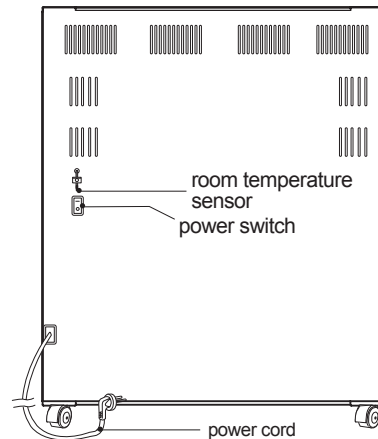
MEMO.

Configuration and Name

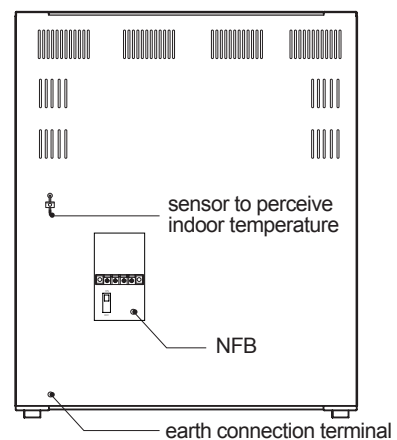
MAIN BODY



► AH-720



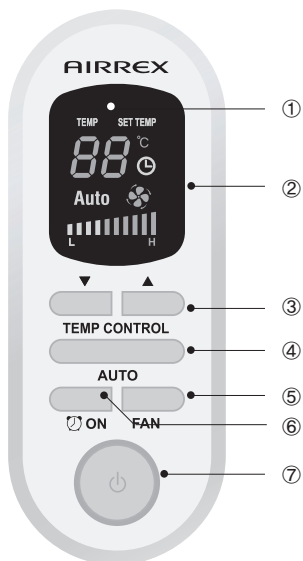
► AH-765/780



※ External appearance can be changed without prior notice for improving quality.

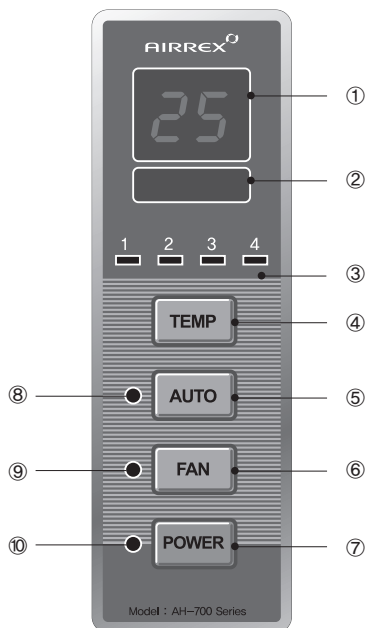
INDICATION AND OPERATION PART

► AH-720



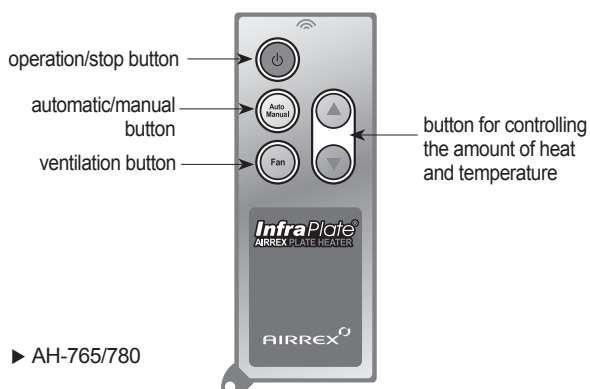
1. signal receiver of remote control
2. LED display
Various conditions are indicated such as temperature, time and abnormal condition
3. button for temperature control.
Use the button used to control temperature or the amount of heat.
4. automatic/manual button
Use the button when you select automatic or manual operation.
5. FAN button
Use for turning fan on or off
6. On-Timer button
Use the button when you select On-Timer.
7. button for operation/stop
Use the button when you turn on or off the heater.

► AH-765/780



1. LED Display
Various conditions are indicated such as temperature, time and abnormal condition.
2. signal receiver of remote control
3. Heat Grade Lamp
Heat amount is displayed from step 1~ 4.
4. button for temperature control
Use the button used to control temperature or the amount of heat.
5. automatic/manual button
Use the button when you select automatic or manual operation.
6. FAN button
Use for turning fan on or off
7. button for operation/stop
Use the button when you turn on or off the heater
8. Auto lamp
If you select Auto, Auto lamp is on.
9. Fan lamp
If you select Fan, Fan lamp is on.
10. Operation lamp
Operation lamp is on during heater operates.

REMOTE CONTROL

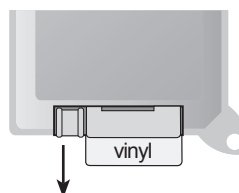


► AH-765/780

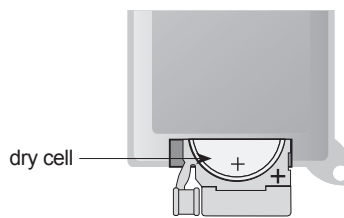
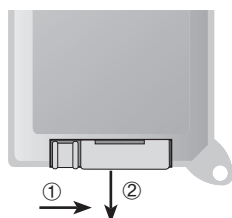


AH-720

- Point the remote control towards the receiver whilst using it.
- Remote control will not work from a distance when strong lighting or sunlight is present. In this case, use the remote control just in front of the control panel.
- When you select a function with the remote control you will hear a 'bleep'.
- When the remote control is not used for a long period, please remove the battery to avoid leakage and damage.
- Do not allow water or liquid to get into the remote control.
- Use the magnet which is in the remote control to fix it to the side panel of the unit.
- When using the remote control for the first time, remove the vinyl covering at the lower part of the control unit



HOW TO EXCHANGE DRY CELL OF REMOTE CONTROL

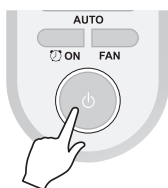


1. Open over of dry cell.
 - * Press ① part toward the direction shown by arrow.
 - * Pull ② part toward the direction shown by arrow.
2. Exchange dry cell.
 - * Put dry cell in the indication of $\oplus$ $\ominus$
3. Close cover
 - * Push cover on a level until it sounds "click".

How to use

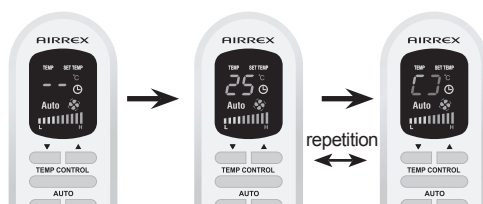
OPERATION AND STOP

1. Start operation by pressing operation /stop button.



AH-720

2. Heater is turned on and operation is started with the sound of beep.

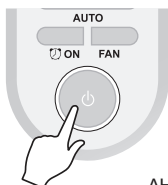


3. press operation/stop button once again to stop.



AUTOMATIC OPERATION FUNCTION

1. Start operation by pressing operation /stop button.

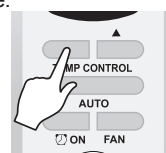


AH-720

2. Select automatic operation by pressing auto button. AUTO lamp is turned on.

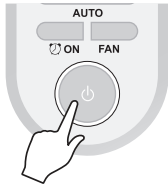


3. Control temperature you want by pressing temperature control button. The range of set temperature can be controlled between 10 and 32 .The amount of heat is automatically controlled and operated to be suit able for set temperature.



MANUAL OPERATION FUNCTION

1. Start operation by pressing operation /stop button.

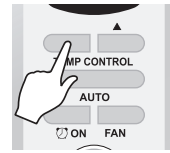


AH-720

2. Select manual operation by pressing auto button. AUTO lamp is turned off.

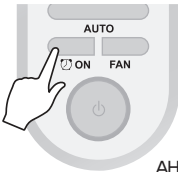


3. Select the amount of heat you want by pressing temperature control button. Selected amount of heat is operated regardless of temperature.



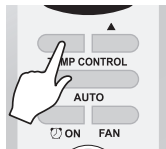
ON-TIMER FUNCTION

1. Press On-Timer button when operation is stopped.



AH-720

2. Set the time you want by pressing key of controlling up and down ▲, ▼. (setting is possible between 1 hour and 24 hours)
※ without entering separate buttons, the setting is kept three seconds later and ' ' is lighted.



※ Cancellation

1. Press button On-Timer for one second.
2. The timing is automatically cancelled when you cancel operation by pressing operation/stop button.

HOW TO STOP

1. If you press operation/stop button during operation, the operation is immediately stopped.



AH-720

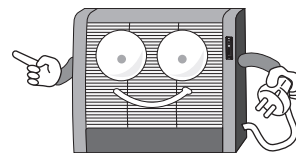


AH-765/780

2. If you leave the unit unattended for a long period, ensure that it is switched off and remove the plug from the power socket.



circuit breaker



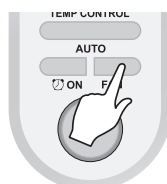
HOW TO OPERATE / STOP FAN

1. When you press fan button while heater is in operation, '🌀' is indicated in window and fan is operated.



AH-720

2. When you press fan button while fan is in operation, '🌀' is turned off and fan is stopped.



1. When you press fan button while heater is in operation, 'on' is indicated in window and fan is operated.



AH-765/780

2. When you press fan button while fan is in operation, 'oF' is indicated in window and fan is stopped.



How to diagnose safety device

WHAT TO CHECK INDICATE (AH-720)

- ※ perceive abnormality of temperature sensor - indicated as E 1

- In the event that sensor of present (indoor) temperature does not work properly, E1 is indicated and all activities are stopped.



- overly heated - room temperature prevention device

- In the event that present (indoor) temperature exceeds 43℃, E2 is indicated and all activities are stopped.



prevent overheating and perceive abnormality of conductivity safety

- When indoor temperature exceeds 130℃ while heater is in operation, power of the product is cut off.
- When the product is fallen down, conductivity safety sensor is operated and power of the product is cut off.

♣ Note

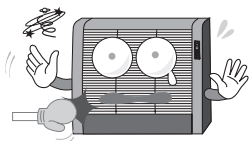
- When causes of abnormality are resolved, the product is automatically powered on.
- Beep is stopped when you press operation/stop button.

SAFETY DEVICE

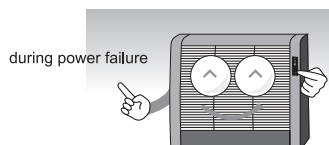
Airrex heater is equipped with diverse safety device, preventing a risk of fire. In the event that heater is not working properly, safety device is operated and heater is automatically stopped.

If heater falls over or is given a sharp jolt, it will automatically switch off.

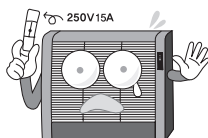
- After checking that there is no damage, switch on again and operate normally.



The unit will automatically stop if there is a power failure. You must press the 'On' button to continue use.



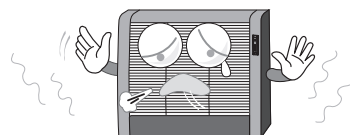
If a power surge or unusually high current is induced in the heater, then the fuse and circuit breaker cuts off the power.



If the unit overheats and the temperature inside the unit is abnormally high, it will automatically turn off

- Operate heater normally after allowing to cool down.

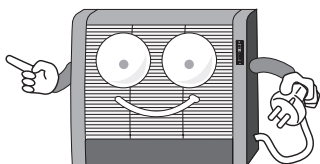
If the room temperature exceeds 43°C the unit will automatically turn off.



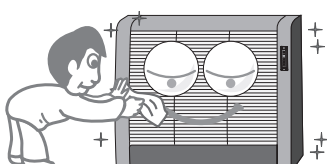
MEMO.

Storage Instructions

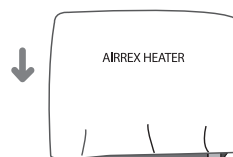
- Disconnect from power supply.



- Ensure main body is clean and dry.



- Cover the heater with the covering supplied when you purchased the unit. Keep it in a well ventilated dry place.



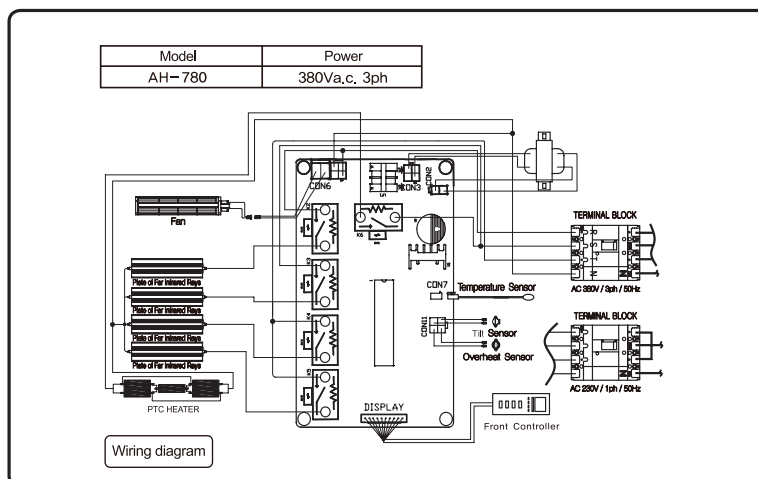
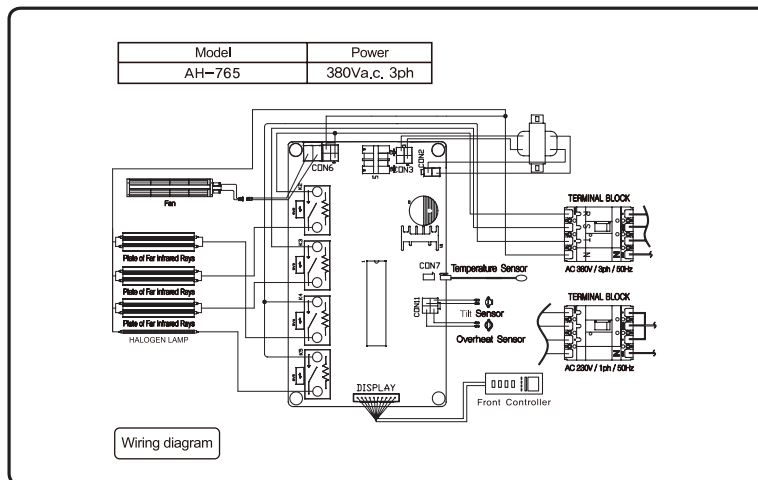
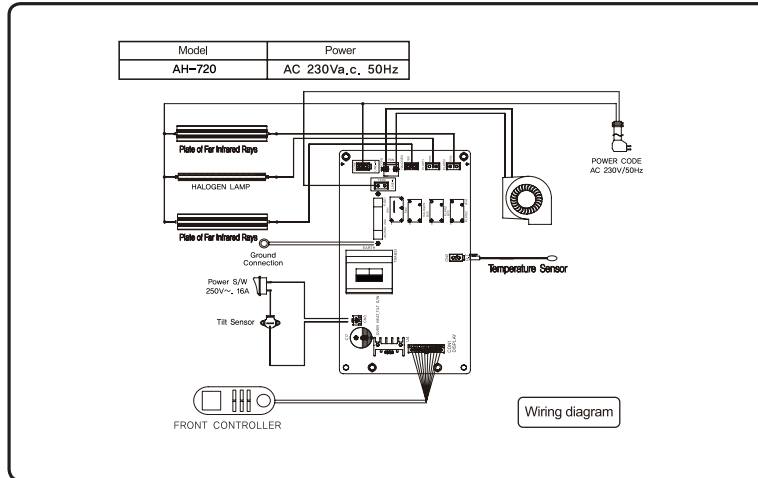
※ precautions for examination and handling

- Handle heater when it is completely cooled down and power is cut off.
- Never disassemble for operation. (devices including safety ones are not properly operated.)

Troubleshooting

	Symptoms	How to deal with
Unit is not working	☉ Is electricity supply working?	Check the main power supply is working
	☉ Check that the power plug is plugged in. (AH-720)	▶ Turn on the product once again after plugging in.
	☉ Is the circuit breaker off? (AH-765,780)	▶ Reset circuit breaker.

Wiring diagram





Specification

Model no. classification	AH-720	AH-765	AH-780
Heating Capacity (BTU/h)	9,200	23,900	34,500
Power Consumption (kW)	2.7	7	10.1
Space for use (m ²)	17~20	47~55	70~78
Power supply	230Va.c. 50Hz 1ph	230Va.c. 50Hz, 1ph or 380Va.c. 50Hz, 3ph	
Consumption Current(A)	MAX 11.7	MAX 30.4/10.6	MAX 44/15.3
Size (mm) (W x L x H)	540x290x800	670x290x920	970x290x920
Product weight(kg)	15	27	35
Safety device	overheating safety device, conductivity safety device, over-temperature prevention device, abnormality sensing device		
Controlling method	Digital micom controlling and remote control		
Controlling function	On-Timer function (AH-720), automatic/manual operation function, 4 steps heat amount control, fan on/off selection function, room temperature function, abnormality and operation indication function		

* Designs and specifications of this product can be changed without any prior notice to improve the quality and enhance efficiency.

WARRANTY

(Applicable to first retail purchaser only)

AIRREX HEATER give more reliable performance, comfort and durability the more they are used. They are built under a strict quality assurance regime which includes inspection both during and after production and exhaustive reliability testing.

In the unlikely event you have any problems, please contact your dealer or distributor. If the problem is as a result of a production fault or failure, repairs will be undertaken free of charge during the period of warranty subject to the following warranty conditions:

1. The warranty period is 12 months from the date of first purchase.
2. If the problem has been caused by customer error or misuse, abuse or damage, then all repairs will be charged for.
3. Proof and date of purchase must be supplied.
4. Please complete the details below and keep this warranty in a safe place.
5. All transport charges back to the dealer are at the customers cost.
Keep all original packaging to facilitate return. Return to customer will be at dealers cost (if genuine warranty claim).

DESCRIPTION	AIRREX HEATER		
MODEL	AH-720/765/780		
DATE OF PURCHASE		PRODUCT SERIAL NO:	

Warranty Period	() Months		
DISTRIBUTOR	Name of Company		
	Telephone No.		

CUSTOMER DETAILS	Name :	
	Address :	
	Telephone :	

AIRREX[®]

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