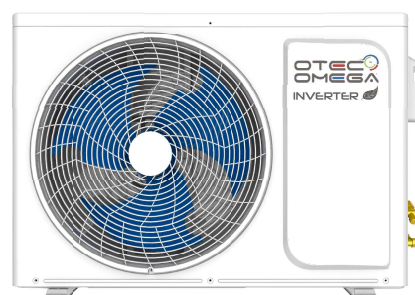
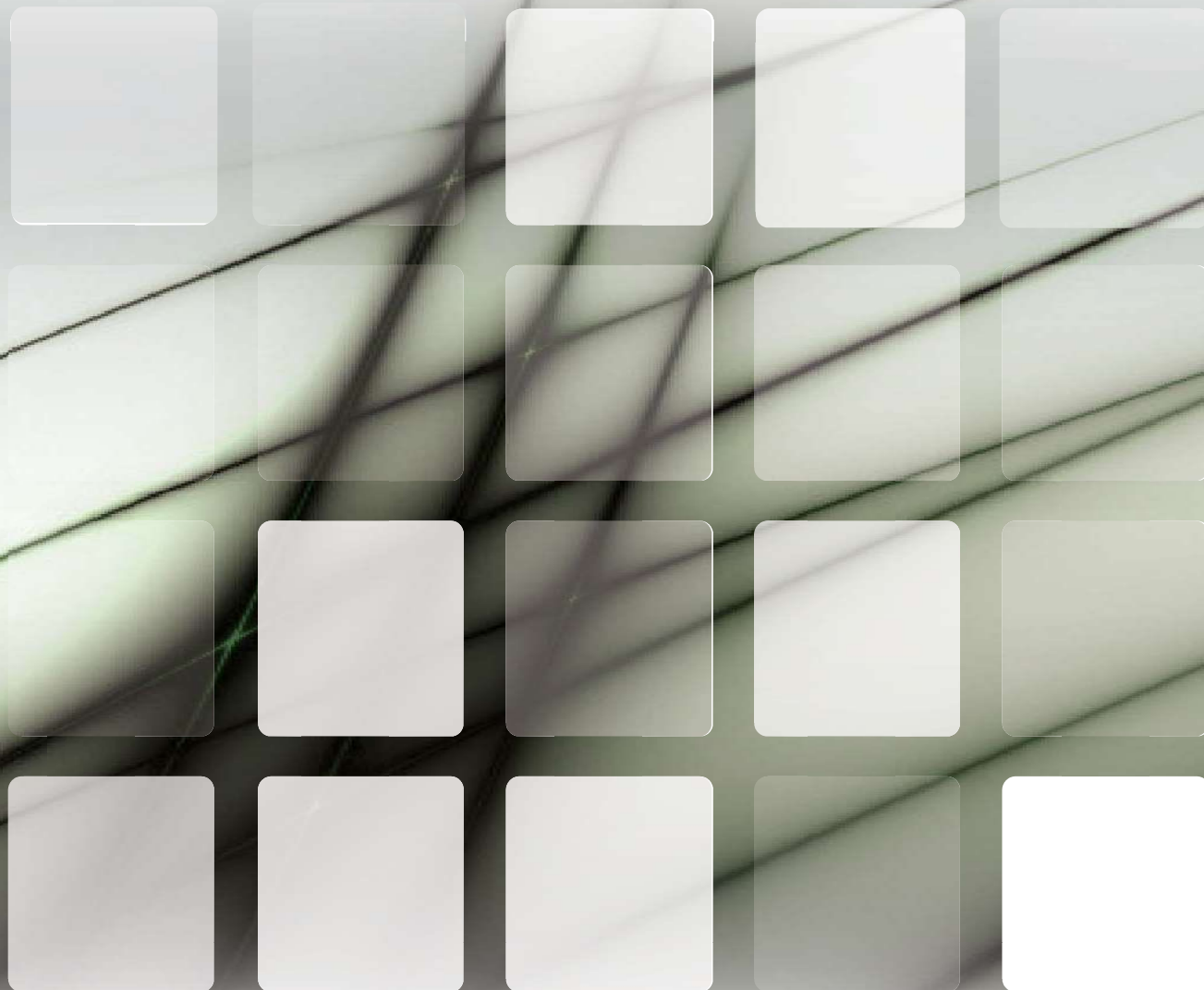


IEWH/ICHH Series High Wall Inverter Service Manual

220-240V/1/50Hz



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GENERAL SAFETY PRECAUTION

- It is strongly recommended to read the instructions carefully before using your device.
- Use the air conditioner as specified in this guide. These instructions are not intended to cover all conditions and situations. As with any home appliance products, common sense and caution are recommended for installation, use and maintenance.
- Packaging materials are recyclable and should be thrown in appropriate containers. The air conditioner must also be thrown in a recycling center when it is condemned.
- The manufacturer declines all responsibility for damage caused by non-observance of the safety instructions in this user manual.
- Power supply: The electrical installation must comply with local electrical standard, especially for grounding. We cannot be held responsible for any incident caused by improper electrical installation.
- Electrical installation advices:
 - Do not use an extension cord, adapter or power strip
 - Make sure the power plug has the ground wire
 - The socket must be easily accessible but out of reach of children



SAFETY RULES AND RECOMMENDATIONS FOR INSTALLATION

WARNING

- The installation must be entrusted by the dealer or an authorized technician as it requires special knowledge and skills. If you install the unit yourself, there is a risk of fire, electric shock, injury, or water leakage.
- Make sure the base of the outdoor unit is securely fastened.
- Make sure that air cannot enter the refrigerated system and check for refrigerant leakage by moving the unit.
- The fuses installed in the integrated control are 3.15A / 250V for 220V and 3.15A / 125V for 110V.
The user must protect the wall unit with a fuse of sufficient capacity for the maximum power current or other overvoltage protection device.
- It is necessary to incorporate in the fixed wiring a device for disconnecting the power supply, the distance between the contacts must be at least 3 mm between each pole.
- The appliance must be installed according to the regional standards in force.
- The device must be installed according to national wiring regulations.
- Make sure that the main voltage corresponds to the one indicated on the identification plate.
- You may be shocked even if you turn off the power.
- Keep the switch or plug clean.
- Insert the plug correctly into the socket, avoiding the risk of electric shock or fire due to insufficient contact.
- You must use an independent electrical outlet to connect the unit. If you use another electrical outlet, a fire may occur.
- Check that the male and female plugs are compatible, if not pls proceed to change them.
- Do not install the appliance at a distance of less than 50 cm from flammable substances (alcohol, etc.) or pressurized containers (aerosol cans).
- If the unit is used in locations where ventilation is not available, care must be taken to prevent refrigerant leakage, which could result in a fire hazard.
- Avoid installing the unit in a location where flammable gas leaks may occur. A fire could start in case of gas leakage or gas accumulation around the unit.
- Do not install it in an excessively humid place, such as in a bathroom. Deterioration of the insulation may result in electric shock or fire.
- Before accessing the connection terminals, all power circuits must be disconnected from the power source.
- Grounding must be done by the dealer or an authorized technician. Insufficient or incorrect grounding may cause a fire.
- It is highly recommended to Perform an operation test after installing the air conditioner and save the operation data.





SAFETY RULES AND RECOMMENDATIONS FOR USE

PROHIBITION

- Never switch on or off the circuit breaker or touch the buttons with wet hands. You may be shocked.
- Do not insert your fingers or other objects into the air inlet / outlet grilles.
- Do not insert any object or liquid (metal object, piece of paper, water, etc.) into the air inlet or outlet grille. The internal blower (which can rotate at high speed) or the high voltage sections can cause injury or electric shock.
- Do not clean the inside of the air conditioner yourself. Ask your dealer to clean the air conditioner internally. Improper cleaning can result in breakage of resin parts or deterioration of the insulation of electrical components, which may result in water leakage, electric shock or fire.
- Do not place heavy objects on the power cable, expose it to heat, or pull on it. Otherwise, there is a risk of electric shock or fire.
- Do not use any other refrigerant than the one specified. Otherwise, abnormally high pressure may occur in the refrigeration cycle, which can lead to product malfunction, explosion or even personal injury.
- Do not bend, pull or crush the power cord as this may damage it.
- Electric shocks and fires are usually caused by a damaged power cord. Only a qualified technician should replace a damaged power cord.
- Do not use an extension cord or multiple plug.
- Do not touch the device if parts of your body are humid or wet.
- Do not obstruct the air inlet or outlet of the wall unit or outdoor unit.
- Clogging of these openings could cause a decrease in the efficiency of the air conditioner with the possibility of subsequent failures.
- Do not alter the characteristics of the device in any way.
- Do not install the unit in an environment that may contain gasoline, oil, or sulfur or near a heat source.
- Do not climb, do not place heavy or hot objects on the top of the unit.
- Do not leave doors or windows open for extended periods while the air conditioner is running.
- Do not direct the air flow onto plants or animals.
- Prolonged direct exposure to the cold air conditioner could have a negative effect on plants or animals.
- Do not put the air conditioner in contact with water. Electrical insulation could be damaged and cause a risk of electric shock.
- Do not climb or place objects on the outdoor unit.
- Never insert a stick or similar object into the outdoor unit. You could be seriously injured.

WARNING

- The manufacturer declines all responsibility for damage caused by non-observance of the safety instructions in this user manual.
- Be careful not to install, repair, open or remove the cabinet. You may be exposed to dangerous voltages. Ask the dealer or a professional to do so.
- Always use the air conditioner with the air filter in place. Use without the air filter could cause excessive accumulation of dust and other residues on the internal components resulting in subsequent failures.
- The fins should be down in heating mode and up in cooling mode.
- Selecting the most appropriate temperature may prevent damage to the unit.
- Do not expose your body directly to cold or hot air for a long time.
- In the event of a malfunction (burning smell, etc.), switch off the air conditioner and switch off the circuit breaker.
- Be careful not to disassemble, modify or move the device yourself. You may cause a fire, electric shock, or water leak. If the cables are damaged, there is a risk of electric shock or fire. Always contact your dealer to repair or move the unit.
- If a malfunction occurs (especially if there is a burning smell from the unit or the unit is no longer cooling), immediately stop using the unit and turn off the circuit breaker. If you continue to use the product under these conditions, you may be subjected to electric shock or fire. Always contact your dealer to repair or have the device inspected.
- Do not connect the ground wire to a gas pipe, water pipe, lightning rod or to the telephone earth line.
- If the drain hose of the indoor unit is exposed due to moving the unit, close the opening.
- Do not touch the internal electrical components as this may result in electric shock or injury.
- If the air conditioner does not cool or heat up, it is possible that refrigerant leakage has occurred. Contact your dealer. The refrigerant used in the air conditioner is well protected. It will not leak under normal conditions of use. Nevertheless, if a leak occurs and the fluid comes into contact with a heat source, especially with a radiator or a range, a harmful reaction can take place.



- In case of unusual noises, stop using the device immediately and switch off the circuit breaker. If you continue to use the product under these conditions, it may cause a fire or electric shock. Contact your dealer for service.
 - Be careful not to damage or modify the power cable. Be sure to connect the cable correctly and do not use a multi-plug where other devices are connected. Otherwise, a fire may occur.
 - This device is not intended to be used by persons (including children) with reduced physical or mental abilities.
 - Children must be supervised so that they do not play with the device.
 - Check that the circuit breaker is correctly installed. Failure to install the circuit breaker properly may result in electric shock. To check the installation method, contact your dealer or the authorized service technician who installed the unit.
 - If you use the appliance in a closed room or with other combustion appliances, ventilate the room regularly by opening a window. Insufficient ventilation may result in asphyxiation due to a lack of oxygen.
 - Avoid using the device for a long time in an excessively humid environment (where the humidity is above 80%), especially when windows and doors are left open. Condensation may be formed in the indoor unit and water may flow on your furniture, which may damage the unit.
 - In case of prolonged disuse, turn off the switch or disconnect the main circuit breaker.
 - It is recommended to entrust the maintenance of the device to a specialist in case of prolonged use.
 - At least once a year, check if the mounting table of the outdoor unit is damaged. If you do not perform this check and the table is damaged, the unit may fall and injure someone.
 - Use a stable and sturdy ladder to install / remove the front panel / air filter. Otherwise, you risk to fall and injure yourself.
 - Do not hang on the outdoor unit and do not place any object on it. This may indeed tip over or fall, and you could hurt yourself. Damage to the unit may cause electric shock or fire.
 - Do not use combustion equipment directly in the airflow of the air conditioner. Poor combustion can lead to asphyxiation.
 - Check that the water is properly drained. If the exhaust system is clogged, leakage may occur and water may damage your furniture. To verify that the installation method used is correct, contact your dealer or the authorized service technician who installed the unit.
 - Do not place any containers filled with liquids, such as vases, on the apparatus. Otherwise, the liquid in the container may get inside the unit and damage the electrical insulator, which may cause an electric shock.
 - Do not place any other electrical appliance or furniture under the unit. Drops of water could fall on them, which could damage the furniture or the appliance.
 - Be careful not to place animals or plants directly in the airflow of the air conditioner. This can affect the health of the animals or plants.
 - Do not place objects near the outdoor unit and regularly clean dead leaves that fall around. Dead leaves attract small animals, which can come into contact with the electrical components of the appliance, which may cause a malfunction or fire.
 - Do not use the appliance for other purposes than the one designed, such as for storing food or animals, or as a support for plants, precision appliances or art works. Do not use the unit in a boat or other vehicle as this may cause the unit to malfunction or damage the vehicle. When you clean it, you must turn off the power and turn off the breaker. Since the internal blower can turn at high speed, you could hurt yourself.
Do not clean the main unit with water as this may cause an electric shock.
 - After cleaning the front panel or air filter, carefully wipe off any splashing water and let it dry. The presence of water may cause an electric shock.
 - After removing the front panel, do not touch the metal parts of the unit. You could hurt yourself.
 - Do not touch the air intake section or aluminum fins of the unit. You could hurt yourself.
- If thunder rumbles and lightning announces a thunderstorm, stop using the device and turn off the breaker.
Lightning may cause a malfunction.

BATTERY REMOTE CONTROL



- Observe the (+) and (-) polarities when inserting the batteries.
- Do not recharge the batteries.
- Do not use batteries whose recommended period of use has expired.
- Be sure to remove used batteries from the remote control.
- Do not use batteries of different types at the same time and do not use new batteries with used batteries.
- Do not solder the batteries.
- Be careful not to short-circuit, disassemble, heat, or burn batteries. If the batteries are discarded incorrectly, they may explode or leak, possibly resulting in burns or injury.
- If your skin comes into contact with the battery fluid, rinse immediately with plenty of water. If liquid is flowing on devices, wipe it to prevent direct contact.
- Keep batteries out of reach of young children. If a child swallows a battery, consult a doctor immediately.

SAFETY PRECAUTIONS





WARNING: Following these basic precautions will reduce the risk of fire, electrical shock, injury or death when using your air conditioner.


1. Air conditioner must be connected to proper electrical outlet or breaker with the correct electrical supply. And only the specified power can be used.
2. Proper grounding must be ensured to reduce the risk of shock and fire
DO NOT CUT OR REMOVE THE GROUNDING PRONG. If you do not have a three-prong electric receptacle outlet or breaker in the wall, have a certified electrician install the proper receptacle or breaker. The wall receptacle or breaker **MUST** be properly grounded.
3. **DO NOT** use if power cord is frayed or otherwise damaged. Also avoid using it if there are cracks or abrasion damage along the length, plug or connector.
4. **DO NOT USE AN ADAPTER OR AN EXTENSION CORD.**
5. **DO NOT** block airflow inside or outside the air conditioner with blinds, drapes, protective covers, shrubs or blusher.
6. Be careful of sharp edges on the front and rear fins of the unit that could cut and cause serious injury.
7. Be careful when lifting the air conditioner to install or remove the unit. Always use two or more people for this.
8. Always cut off the power of air conditioner before servicing it or moving it.
9. In some type of units, there is no appropriate plug corresponding to its power cord because of power, Under this condition, an appropriate power breaker should be linked to its power cord, therefore, the instruction part associated with plug using is not available for these types.
10. An all-pole disconnection switch having a contact separation of at least 3mm in all poles should be connected in fixed wiring.
11. The appliance shall be installed in accordance with national wiring regulations.
12. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.


SAFETY INSTRUCTIONS

〔Symbol Description〕

	Warning: A symbol indicating operation which may cause personnel casualties or serious damages.
	Caution: A symbol indicating operation which may cause personnel casualties or property damages.


〔Installation Instruction〕

 **Warning**





 **Never install by yourself.**

Split type air conditioner will work for you for a long period of time if it is correctly installed. Improper installation could cause problems such as leakage of water or refrigerant, electric shock or fire.

If the power cable to the unit is disconnected, burnt, chipped, or detached from the terminal , to make reparations, please contact the nearest service center, or repaired by people who have the same qualifications or experience to avoid electrical hazards.

 **Caution**

Please confirm the following before installation

<p> Power specifications</p> <p>Make sure that the capacity of socket or breaker and power cable is sufficient, the voltage is correct and the socket or breaker is grounded. There may be hazard of fire or electric shock otherwise.</p>	<p> Proper connection of wires and piping</p> <p>Improper connection may decrease the efficiency or cause air conditioner stop running. Water or refrigerant leakage may be resulted as well.</p>
<p> Installation environments</p> <p>Do not install air conditioner at the place where there is flammable or corrosive air.</p>	<p> Operating instruction</p> <p>Please operate air conditioner in accordance to this manual.</p>

〔Operating Instruction〕

WARNINGS

Following the safety messages is very important. These messages can save you from being injured or killed. Warning symbols alert you to be careful and means danger. Always follow instructions to be safe and reduce chances of injury or death. Warning and danger signs will precede safety messages.

Electrical safety

Grounding: This room air conditioner must be grounded.



Grounding reduces the risk of electric shock by providing an escape wire for the electric current.

If the power cord has a grounding plug with a grounding wire, plug it into an outlet that is properly installed and grounded.

If the power cord has not a grounding plug with a grounding wire, the grounding wire must connect the breaker that is properly installed and grounded.

Warning: Improper use of the grounding plug or breaker can result in a risk of electric shock. Call a qualified electrician if you don't understand the grounding instructions or if you are not sure if the air conditioner is properly grounded. If the wall outlet or breaker is not grounded, please contact an electrician to have it replaced with a properly grounded outlet or breaker.

Do not, under any circumstances, cut or remove the third (ground) prong from the power cord.

Adapter plug: We strongly advise against using an adapter plug or breaker.

Operating conditions

1. Temperature: T1 instance: $-7^{\circ}\text{C}\sim 45^{\circ}\text{C}$ ($16^{\circ}\text{C}\sim 45^{\circ}\text{C}$ in cooling-only type)

T3 instance: $-7^{\circ}\text{C}\sim 52^{\circ}\text{C}$ ($16^{\circ}\text{C}\sim 52^{\circ}\text{C}$ in cooling-only type)

If the unit runs beyond the temperature for a long time, it may cause cooling capacity to decrease or protector to work.

2. Relative humidity: <80%

If the unit runs beyond the humidity range, condensate may be formed near blade and outlet of air conditioner. It's normal.

-
3. In heating operation, strange smell may come from the unit. It is Normal phenomenon.
 4. The performance parameters refer to name plate.
 5. The waterproof level of indoor unit is IPX0. Do not use it in the laundry or bathroom.
 6. The outdoor unit can't be installed in a closed area.

Tips

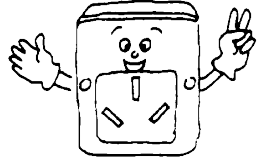
- Install the unit on the north side, as normally that is the shaded side. This will enhance the operation of your unit.
- Use correct electric voltage and proper ampere for the unit to run effectively.
- Only let a certified electrician do any modifications to your electrical outlet or breaker.
- Use a dedicated line for the operation of your air conditioner to avoid the possibility of an electrical surge.
- If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.
- The dimensions of the space necessary for correct installation of the appliance including the minimum permissible distances to adjacent structures.
- The appliance shall be installed in accordance with national wiring regulations.
- Disconnect the power supply before cleaning and maintenance.
- If the appliance is not connected by plug, an all-pole disconnection device which has at least 3mm separation distance in all pole and a residual current device(RCD)with the rating of above 10mA shall be incorporated in the fixed wiring according to the national rule.
- If the appliance is connected by plug, it must be positioned so that the plug is accessible.

Energy Saving Guide

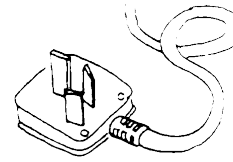
- When installing your air conditioner make sure to seal all areas where there is a possibility of air leakage.
- Airflow should not be blocked inside either by curtains, drapes or furniture or outside by shrubs or bushes.
- Do not needlessly use an electrical light or other appliances that produce heat.
- Keep the blinds and the drapes drawn on all the other window.
- While cooking use an exhaust fan in the kitchen to remove the excess heat produced.

〔Operating Instruction〕

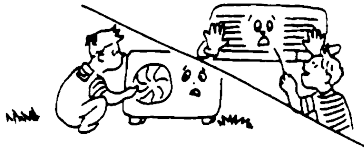
Only single-phase a.c. power can be used.
please refer to nameplate for details.



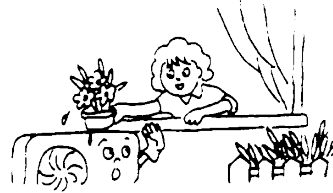
Use the specified power cord; do not
change it.



Do not put fingers or sticks into the inlet or
outlet of air conditioner; the running fan may
cause injuries.



Do not put anything on the outdoor unit.



Do not switch on or off the unit by plugging or
pulling off the plug, or by switching on or off
the breaker .



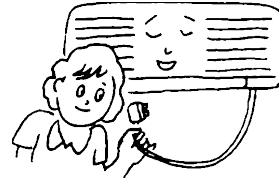
Keep indoor ventilated, especially when
there is operating gas equipment.



Do not substitute fuse with lead wire or other
materials.



Pull off power plug or switch off breaker if
the air conditioner is not used for a long
time.



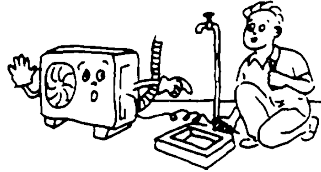
[Safety Instruction]



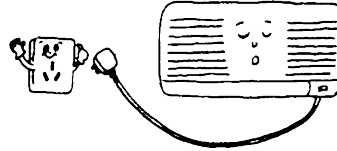
Warning:

The appliance is not intend for use by young children or infirm persons without supervision.
Young children should be supervised to ensure that they do not play with the appliance.
If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.

Don not connect the earth line to gas pipe, water pipe. Improper grounding may cause electric shock.



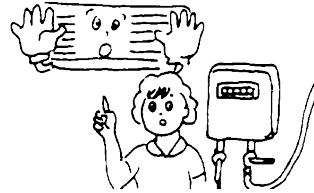
Do not pull off the power plug or switch off the breaker when it is in operation.



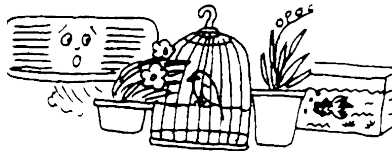
Switch off the unit; cut off the power source and contact service agent if there is abnormal phenomenon (e.g. burning smell comes out).



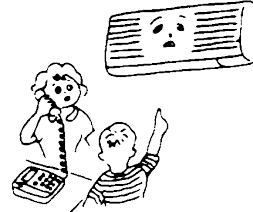
Do not install air conditioner at the place where flammable gas may leak.



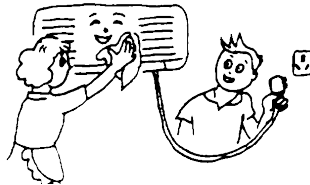
Do not place plants or animals directly in the path of the air conditioner's airflow. Doing so could harm them.



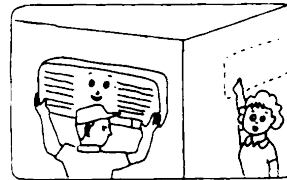
Please contact service agents for service. Improper service may cause accident.



Switch off the unit, cut off the power source and make sure the fan stops before cleaning the unit.



For removal and installation of air conditioner, please refer to professionals or contact service agents.

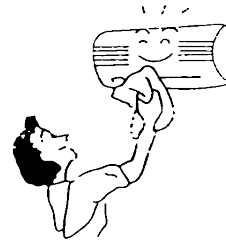


SERVICE AND MAINTENANCE

Careful maintenance and overhaul in advance can prolong the air conditioner's service life and save electricity charges.

Caution:

1. Stop air conditioner by remote controller and pull off the plug before service and maintenance.
2. Do not stand on unstable objects when you clean or service air conditioner, or it may cause personnel injury.
3. Do not touch the metal part of the body when you remove the front panel, or it may cause personnel injury.



〔Clean the Front Panel and Remote Controller〕

If the dirt can't be removed, please clean it with warm damp cloth (soaked with warm water below 40°C)

Caution:

1. Do not clean the unit with water, or it may cause electric shock.
2. Do not clean the remote controller with water.
3. Do not clean with alcohol, gasoline, banana oil, or polishing.
4. Do not clean the unit violently, or it may cause the front panel falling down.
5. Do not clean the front panel or remote controller with metal brush; it may damage the surface.



〔Clean Air Filter〕

1. Open the front panel. (Fig.4)
2. Lift the protruding part, then pull it downward, remove the air filter.
3. Clean it with vacuum cleaner or water. If air filter is very dirt, please clean it with warm soapy water or mild detergent. Then dry it in the shadow.
4. Insert air filter into the previous position, and close the front panel.

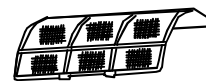
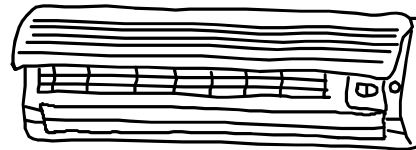


Fig. 4

Note:

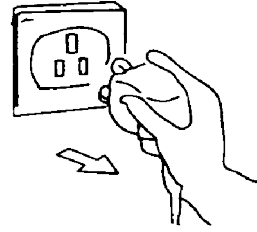
1. Air filter should be cleaned at least once every two weeks, or heating or cooling capacity will be reduced.
2. Do not clean the air filter with metal brush; it may be damaged.

〔No Use for Long Time〕

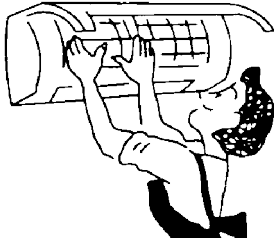
1. Swing 3-4 hours to dry the internal air conditioner.



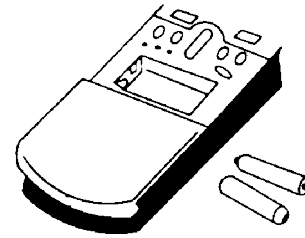
2. Stop operation by remote controller, then cut off the power source of air conditioner.



3. Maintain air filter net.



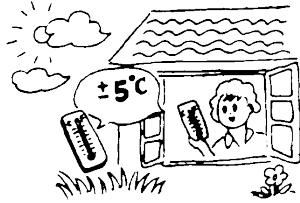
4. Take out batteries from remote controller.



【 Recommendations for Energy Saving 】

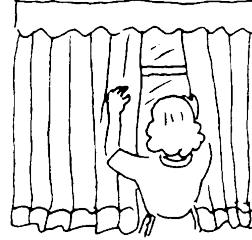
Appropriate Temp Setting

It is harmful to health if the room is too cold.



Avoid Direct Sunlight

When it is cooling, please use curtain or blind to obstruct direct sunlight.



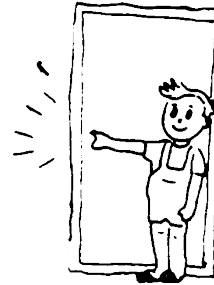
Avoid Heat Sources

When it is cooling, using other heat sources may affect cooling effect.



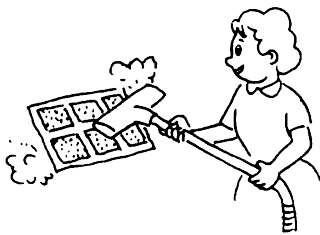
Close Doors and Windows

Incoming outdoor air will affect the cooling or heating efficiency.



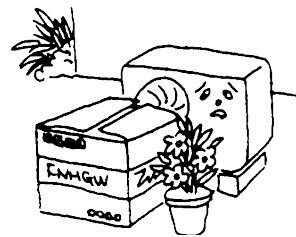
Keep Air Filter Clean

Keeping air filter clean ensures high efficiency operation.



Good Ventilation

Do not put objects in front of the inlet and outlet of outdoor unit.



TROUBLE SHOOTING

〔Air Conditioner is in Error〕

Checking before service.



Phenomenon	Checking Items
Air Conditioner Does Not Operate At All	1. Check whether the power is disconnected.
	2. Check whether the breaker is switched on or the fuse is burnt.
	3. Check the remote controller batteries.
	4. Check whether radio equipment is used within 1m around the unit.
Poor Cooling or Heating Performance	1. Check whether the air inlet or outlet is blocked.
	2. Check whether dust is blocking the filter.
	3. There may be too many people indoors.
	4. Check whether doors or windows are closed.
	5. Check whether fan speed or set temperature is improper.

〔Remote Controller is in Error〕



The following “trouble shooting” is normal phenomenon

Phenomenon	Checking Items
Fan stops or fan speed can not be controlled.	1. When air conditioner is in DRY mode or SLEEP mode, fan speed can't be controlled sometimes.
	2. When air conditioner is in COOL AIRFLOW PROOF or DEFROSTING operation (in HEAT mode), fan motor will stop.
	3. When air conditioner is in COOL or DRY mode, if air conditioner enters freeze-prevention operation, then fan speed can not be controlled.
	4. When air conditioner is in HEAT mode, if air conditioner enters heating overload prevention operation, then fan speed can not be controlled.

[Error Codes]

		CETO MINI SPLIT ERROR CODES			
IDU display	ODU LIGHT FLASH	Fault Details	Failure Cause	Action	
EE	25	Indoor unit EEPROM fault EEROM	IDU main PCB is damaged.	replace a new IDU main PCB	
F0	26	Indoor fan motor fault	1. IDU fan is blocked.	1. clean the fan's block	
			2. IDU fan motor is damaged.	2. replace a new IDU fan motor	
			3. IDU main PCB is damaged.	3. replace a new IDU main PCB	
E1	27	Indoor PCB Zero crossing fault	IDU main PCB is damaged.	replace a new IDU main PCB	
F3	28	Indoor coil sensor fault	1. IDU coil sensor is loose , short circuit or open circuit.	1. loose : connect it well again ; short circuit or open circuit: replace a new IDU coil sensor	
			2. IDU main PCB is damaged.	2. replace a new IDU main PCB	
F1	29	Indoor room temperature sensor fault	1. IDU room temperture sensor is loose、 short circuit or open circuit.	1. loose : connect it well again ; short circuit or open circuit: replace a new IDU room temperture sensor	
			2. IDU main PCB is damaged.	2. replace a new IDU main PCB.	
EF	1	Outdoor unit EEPROM fault	ODU main PCB is damaged.	replace a new ODU main PCB	
F6	2	Indoor and outdoor communication fault	1. the IDU and ODU connecting wire were connected in wrong order when installation.	1. check the connecting wire to confirm it correct.	
			2. poor contact between the connecting wire cable and the terminal block	2. connect it well again.	
			3. the connecting wire is damaged	3. replace a new connecting wire	
			4. No ODU rated voltage output or IDU main PCB is damaged	4. check the power supply voltage or replace a new IDU main PCB	
			5. ODU main PCB is damaged.	5. replace a new ODU main PCB	
F8	3	Main board and driver board communication fault	The communication between the power board and the drive board is abnormal, and the communication fault between the power board and the drive board is judged for 3min	replace a new ODU main PCB	
E4	4	Compressor starting abnromal (Phase failure,reverse)	1. ODU compressor connecting wire is loose or damaged	1. connect the wire well, or replace a new compressor connecting wire.	
			2. ODU compressor connecting wire suquence is wrong	2. check the ODU compressor connecting wire suquence	
			3. ODU main PCB is damaged.	3. replace a new ODU main PCB	
E3	5	Compressor out of step fault	ODU main PCB is damaged.	replace a new ODU main PCB	
F9	6	IPM module fault intelligent power module	ODU main PCB is damaged.	replace a new ODU main PCB	

[Error Codes]

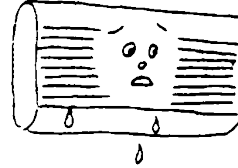
		CETO MINI SPLIT ERROR CODES			
IDU display	ODU LIGHT FLASH	Fault Details	Failure Cause	Action	
E0	7	Compressor shell roof fault/protection	The top temperature of the compressor is too high or Temperature acquisition module failure	replace a new ODU main PCB	
F5	8	Exhaust temperature sensor fault	1. ODU exhaust temperature sensor is loose, short circuit or open circuit	1. loose : connect it well again ; short circuit or open circuit: replace a new ODU exhaust temperature sensor	
			2. ODU main PCB is damaged.	2. replace a new ODU main PCB	
E5	9	Suction temperature sensor fault	1. ODU suction temperature sensor is loose, short circuit or open circuit	1. loose : connect it well again ; short circuit or open circuit: replace a new ODU suction temperature sensor	
			2. ODU main PCB is damaged.	2. replace a new ODU main PCB	
F4	10	Outdoor coil temperature sensor fault	1. ODU coil temperature sensor is loose, short circuit or open circuit	1. loose : connect it well again ; short circuit or open circuit: replace a new ODU coil temperature sensor	
			2. ODU main PCB is damaged.	2. replace a new ODU main PCB	
F2	11	Outdoor ambient temperature sensor fault	1. ODU ambient temperature sensor is loose, short circuit or open circuit	1. loose : connect it well again ; short circuit or open circuit: replace a new ODU ambient temperature sensor	
			2. ODU main PCB is damaged.	2. replace a new ODU main PCB	
E2	12	Outdoor DC fan motor fault	1. DC fan motor fault	1. replace a new DC fan motor	
			2. ODU main PCB is damaged or fan model selection in EEPROM is wrong.	2. replace a new ODU main PCB	
E8	/	Outdoor system exception 30min	The inner plate temperature is lower than the preset value within 5 minutes of continuous operation of the compressor	1. Check whether the position of the inner plate temperature sensor is correct 2. To add fluoride	
E9	/	WIFI fault	1. WIFI module failure	1. replace a new WIFI module	
			2. IDU main PCB is damaged.	2. replace a new IDU main PCB.	

NORMAL PHENOMENONS

When it is heating or cooling, plastic substance may give out a sound because of the temperature change.



If the indoor humidity is too high, water drops may form on the front grill of indoor unit. This is a normal phenomenon.



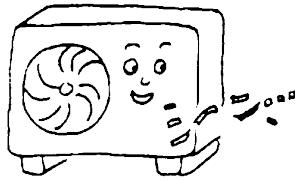
There may be gentle "rustle" sound when the unit starts or stops. It is the normal sound of flowing refrigerant.



Walls, carpet, furniture or clothes indoors may disseminate peculiar smell.



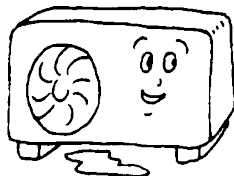
In order to protect the unit, when the compressor stops, there will be a 3-minute delay before restarting.



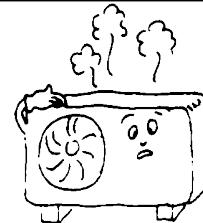
In the first several minutes of heating operation, wind may not come out from the indoor unit.



Water may flow out from the outdoor unit during heating operation.



In heating operation, steam may come out when it is defrosting.



[PROTECTIONS]



PROTECTIONS

PE	23	Heating outdoor ambient temperature over-high protection	Normal phenomenon, it is the self-protection of the air conditions	The system run in high load may lead to following protections : Also a wrong sensor may lead to the protections too, you can check the sensor according to error codes
PA	22	Cooling outdoor ambient temperature over-low protection		
P4	21	Heating indoor coil overheat protection		
P6	20	Cooling outdoor coil overheat protection shutdown		
P5	19	Cooling indoor coil anti-freezing protection		
P1	18	Exhaust temperature overheat protection		
P9	17	IPM over-high temperature protection	Normal phenomenon, it is the self-protection of the air conditions	The system run in high load, the devices temperature is high too
P2	13	Outdoor AC current protection	Normal phenomenon, it is the self-protection of the air conditions	The system run in high load, the current is high too
P7	15	Outdoor unit over-high/over-low AC voltage protection	Power supply voltage is too high or too low	check the power supply voltage, the voltage range is 136-276V
P8	16	Outdoor unit over-high/over-low DC voltage protection	Power supply voltage is too high or too low	check the power supply voltage, the voltage range is 136-276V
P0	14	Compressor phase current protection	Normal phenomenon, it is the self-protection of the air conditions	The system run in high load, the current is high too
P3	/	Heating and defrosting tips	Normal phenomenon, it is the Heating operation into the defrosting tip of the air conditions	The air conditioning heating runs into defrosting
L1	31	Drive bus overvoltage fault	Bus voltage range is too high	check the Bus voltage, the bus voltage range is 150-380V
L2	32	Undervoltage failure of drive bus	Bus voltage range is too low	check the Bus voltage, the bus voltage range is 150-380V
L3	33	Compressor overflow fault	When the compressor starts, the phase current is too high and exceeds the working range	When the system starts with high load, the current value is too large to exceed the logical layer current operating range
L4	34	Phase current acquisition fault	Outdoor controller cannot collect phase current value	Outdoor controller reads abnormal phase current
L5	35	Other Drive Fault	Abnormal compressor drive	Try powering it up again



OMEGA
ENVIRONMENTAL
TECHNOLOGIES LLC.

17702 Mitchell North, #101
Irvine, CA. 92614 .USA
Tel: 714 795 2830
Fax: 714 966 1646
info@otecomega.com
www.otecomega.com

OTECTM
AIR CONDITIONING

Showroom & Technology Center
11380 Interchange Circle North
Miramar, FL 33025 .USA
Tel: 305 901 1270
Fax: 954 212 8280
info@otecomega.com
www.otecomega.com

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