Panasonic®

Operating Instructions Air Conditioner

| Model No. | |
|-------------|--------------|
| Indoor Unit | Outdoor Unit |
| CS-E7LKR | CU-E7LKR |
| CS-E9LKR | CU-E9LKR |
| CS-E12LKR | CU-E12LKR |
| CS-E15LKR | CU-E15LKR |
| CS-E18LKR | CU-E18LKR |
| CS-E21LKR | CU-E21LKR |
| CS-E24LKR | CU-E24LKR |
| CS-E28LKR | CU-E28LKR |



Before operating the unit, read these operating instructions thoroughly and keep them for future reference.

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QUICK GUIDE

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NOTE

The illustrations in this manual are for explanation purposes only and may differ from the actual unit. It is subjected to change without notice for future improvement.

OPERATION CONDITION

Use this air conditioner under the following temperature range

| Temperature (°C) | | Indoor | | |
|------------------|------|--------|------|--|
| | | *DBT | *WBT | |
| COOLING | Max. | 32 | 23 | |
| | Min. | 16 | 11 | |
| HEATING | Max. | 30 | - | |
| HEATING | Min. | 16 | - | |

| Temperature (°C) | | Outdoor | | |
|------------------|------|---------|------|--|
| | | *DBT | *WBT | |
| COOLING | Max. | 46 | 26 | |
| COOLING | Min. | 16 | 11 | |
| HEATING | Max. | 24 | 18 | |
| REATING | Min. | -15 | -16 | |

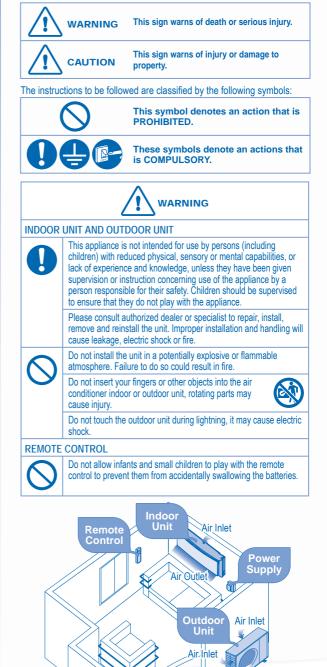
* DBT: Dry bulb temperature * WBT: Wet bulb temperature

2

SAFETY PRECAUTIONS

To prevent personal injury, injury to others, or property damage, please comply with the following.

Incorrect operation due to failure to follow instructions below may cause harm or damage, the seriousness of which is classified as below:



Air Outlet

| OWER | SUPPLY | | | | |
|---|--|--|--|--|--|
| 0 | Do not use modified cord, joint cord, extension cord or unspecified cord to prevent overheating and fire. | | | | |
| Do not share the same power outlet with other equipment to prevent overheating and fire. | | | | | |
| | Do not operate with wet hands to prevent electric shock. | | | | |
| 0 | If the supply cord is damage, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard. | | | | |
| - | It is strongly recommended to be installed with Earth Leakage Circuit Breaker (ELCB) or Residual Current Device (RCD) to prevent electric shock or fire. | | | | |
| | This equipment must be earthed to prevent electrical shock or fire. | | | | |
| | Prevent electric shock by switching off the power supply when: - Before cleaning or servicing. - Extended non-use. - Abnormally strong lightning activity. | | | | |
| | Stop using the product when any abnormality/failure occurs and disconnect the power plug or turn off the power switch and breaker. (Risk of smoke/fire/electric shock) | | | | |
| Example abnorma failure | | | | | |

is switched on for operation. The fan does not stop even if the operation is stopped.

Contact immediately your local dealer for maintenance/repair.

INFORMATION

FOR SEASONAL INSPECTION AFTER EXTENDED NON-USE

- · Checking of remote control batteries.
- · No obstruction at air inlet and air outlet vents.
- · Use Auto OFF/ON button to select Cooling/Heating operation, after 15 minutes of operation, it is normal to have the following temperature difference between air inlet and air outlet vents: Cooling: $\geq 8^{\circ}C$ Heating: ≥ 14°C

FOR EXTENDED NON-USE

- Activate Heat mode for 2~3 hours as an alternative to remove moisture left in the internal parts thoroughly to prevent mould growth.
- · Turn off the power supply.
- Remove the remote control batteries.



IND

|)00R | UNIT AND OUTDOOR UNIT |
|------|---|
| 0 | Do not wash the indoor unit with water, benzene, thinner or scouring powder. |
| لح | Do not use for other purpose such as preservation of food. |
| | Do not use any combustible equipment in front of the airflow outlet to avoid propagation fire. |
| | Do not expose yourself directly to cold air for a long period. |
| | Do not sit or step on the unit, you may fall down accidentally. |
| | Do not touch the sharp aluminium fin, sharp parts may cause injury. |
| | Do not switch ON the indoor unit when waxing the floor. After waxing, aerate the room properly before operating the unit. |
| | Do not install the unit in oily and smoky areas. |
| | Ensure drainage pipe is connected properly. Otherwise, leakage may occur. |
| - | Aerate the room regularly. |
| | After long period of use, make sure the installation rack is not deteriorate to prevent the unit from falling down. |
| | |

REMOTE CONTROL



Do not use rechargeable (Ni-Cd) batteries. It may damage the remote control.



Remove the batteries if the unit is not going to be used for a long period of time.

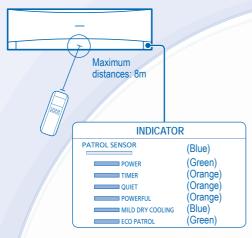
New batteries of the same type must be inserted following the polarity stated to prevent malfunction of the remote control

NON SERVICEABLE CRITERIAS

TURN OFF POWER SUPPLY then please consult authorized dealer under the following conditions:

- · Abnormal noise during operation.
- · Water/foreign particles have entered the remote control.
- · Water leaks from Indoor unit.
- · Circuit breaker switches off frequently.
- · Power cord becomes unnaturally warm.
- · Switches or buttons are not functioning properly.

REMOTE CONTROL



Press the remote control's button



2

TO TURN ON OR OFF THE UNIT

POWER

• Please be aware of the OFF indication on the remote control display to prevent the unit from starting/stopping improperly.

TO SET TEMPERATURE

- Selection range: 16°C ~ 30°C.
- Operating the unit within the recommended temperature could induce energy saving.
 HEAT mode : 20°C ~ 24°C.
 COOL mode : 26°C ~ 28°C.
 DRY mode : 1°C ~ 2°C lower than room temperature.

3 TO SELECT OPERATION MODE

AUTO mode - For your convenience

- During operation mode selection the power indicator blinks.
- Unit selects operation mode every 30 minutes according to temperature setting, outdoor and room temperature.

HEAT mode - To enjoy warm air

- Unit takes a while to warm up. The power indicator blinks during this operation.
- COOL mode To enjoy cool air
- Use curtains to screen off sunlight and outdoor heat to reduce power consumption during cool mode.

DRY mode - To dehumidify the environment

Unit operates at low fan speed to give a gentle cooling operation.

4 TO SELECT FAN SPEED (5 OPTIONS)

FAN SPEED

 For AUTO, the indoor fan speed is automatically adjusted according to the operation mode.

5 TO ADJUST VERTICAL AIRFLOW DIRECTION (5 OPTIONS)

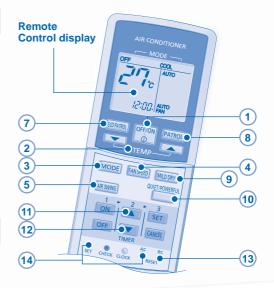
✦AUTO ✦_▋✦_▋ ✦,▌ ✦, ▌ ✦

AIR SWING

- · Keeps the room ventilated.
- In COOL/DRY mode, if AUTO is set, the louver swing up/down automatically.
- In HEAT mode, if AUTO is set, the louver fix at predetermined position.



- Keeps the room ventilated.
- In COOL/DRY mode, if AUTO is set, the louver swing left/right and up/down automatically.
- In HEAT mode, if AUTO is set, the horizontal louver fix at predetermined position. The vertical louver swing left/right after the temperature rises.



E7LKR, E9LKR, E12LKR, E15LKR

| TO MONITOR HUMAN PRESENCE & ACTIVITY FOR | 11 | Press an unit's ind |
|--|---|--|
| ECO + ECO 1 + ECO 2 + ECO OFF - | 12 | Press an show ter |
| Heat Source & Movement Low High None | 13 | Press to |
| Set Temperature | 14 | Not used |
| HEAT Mode -2°C -3°C | | |
| Set Fan Speed *+1 tap [*] ≤ Medium Fan | QU | IET/POWERFUL |
| — ECO 1 - To optimize comfort and energy saving. ECO 2 - To maximize energy saving. * Applicable during COOL/DRY Mode only. | by | an be activ pressing |
| 8 TO MONITOR AIR QUALITY CARACTER S | QU | IET/POWERFUL |
| Detects air quality; e-ion operation activates when air quality is at dirty level. Can be activated even when the unit is turned off. Patrol starts automatically with the unit switched on with OFFICIAL | • C | annot be s annot be a peration is |
| | • 2 0 | sets of ON |
| 9 TO IMPROVE HUMIDITY AND MILD DRY COOLING MILD DRY COOLING | or | OFF the upplete be |
| This operation reduces air dryness and provides you with a comfortable living environment during COOL mode only. When vertical airflow direction is set to AUTO, it stops at lower position to avoid cold air contact. However, you can adjust the louver direction manually. | | |
| 10 TO SWITCH BETWEEN QUIET & POWERFUL | | Select ON |
| QUIET/POWERFUL QUIET POWERFUL NORMAL TO ENJOY QUIET OPERATION • This operation reduces airflow noises. | М | xample of orning: ON OF vening: ON |
| TO REACH TEMPERATURE QUICKLY This operation will stop automatically after 4 hours. | se | OF cancel O elect respe timer is ca |
| 6 MODE Fairse Mudder All Svince OULTOWERUL IN OFF TIMER SET CHECK COCK RESET | Up Up W to ac Tir rei se | u can rest to sele peoming tin sequence hen ON Ti 35 minute hieve the mer operat mote contri tting, pleas ick cover. |

| 11 | Press and hold for 5 seconds to dim or restore the unit's indicator brightness. |
|----|--|
| 12 | Press and hold for approximately 10 seconds to show temperature setting in °C or °F. |
| 13 | Press to restore the remote control's default setting. |
| 14 | Not used in normal operations. |
| | |

NOTES ET/POWERFUL PATROL ECO PATROL an be activated in all modes and can be cancelled pressing the respective button again. IET/POWERFUL ECO PATROL annot be selected at the same time. annot be activated during "MILD DRY COOLING" peration is activated. TO SET THE TIMER sets of ON and OFF timers are available to turn ON OFF the unit at different preset time. omplete below procedures to set each timer: 11 TIMER ▶ @1 → @2 → Cancel· 11 ▶ @1 → @2 → Cancel SET Set the Select ON or OFF timer Confirm time cample of application at living room: orning: ON @1 at 07:00 (Wake up) OFF @1 at 08:00 (Out for work) vening: ON @2 at 17:00 (Back home) OFF @2 at 22:00 (Sleep) cancel ON or OFF timer, press ON or OFF to elect respective @1 or @2 then press ance. imer is cancelled manually or due to power failure, u can restore the timer again by pressing or FF to select respective O1 or O2 then press SET. coming timer will be displayed and will be activated sequence. hen ON Timer is set, the unit may start earlier (up 35 minutes) before the actual set time in order to hieve the desired temperature on time. mer operation is based on the clock set in the mote control and repeats daily once set. For clock tting, please refer to Remote Control Preparation at

INDOOR UNIT



Switch off the power supply before cleaning.

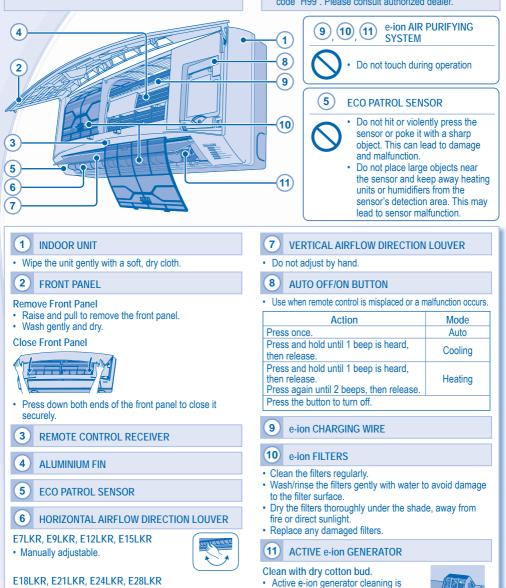
• Do not touch the aluminium fin, sharp parts may cause injury.

CLEANING INSTRUCTIONS

- · Do not use benzene, thinner or scouring powder.
- Use only soap (2 pH7) or neutral household detergent.
 Do not use water hotter than 40°C.

HINT

· To ensure optimal performance of the unit, cleaning maintenance has to be carried out at regular intervals. Dirty unit may cause malfunction and you may see error code "H99". Please consult authorized dealer.



recommended every 6 months.

· Do not adjust by hand.

TROUBLESHOOTING

The following symptoms do not indicate malfunction.

| SYMPTOM | CAUSE |
|---|---|
| Mist emerges from indoor unit. | Condensation effect due to cooling process. |
| Water flowing sound during operation. | Refrigerant flow inside the unit. |
| The room has a peculiar odour. | This may be due to damp smell emitted by the wall, carpet, furniture or clothing. |
| Indoor fan stops occasionally during automatic fan speed setting. | This helps to remove the surrounding odours. |
| Operation is delayed a few minutes after restart. | The delay is a protection to the unit's compressor. |
| Outdoor unit emits water/steam. | Condensation or evaporation occurs on pipes. |
| Timer indicator is always on. | The timer setting repeats daily once set. |
| Power indicator blinks during HEAT mode with no warm air supply (and louver is closed). | The unit is in defrost mode (and AIR SWING is set to AUTO). |
| Indoor fan stops occasionally during heating operation. | To avoid unintended cooling effect. |
| Power indicator blinks before the unit is switched on. | This is a preliminary step in preparation for the operation when the ON timer has been set. |
| Cracking sound during operation. | Changes of temperature cause the expansion/contraction of the unit. |

Check the following before calling for servicing.

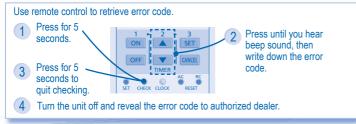
| SYMPTOM | CHECK |
|---|---|
| Heating/Cooling operation is not working efficiently. | Set the temperature correctly. Close all doors and windows. Clean or replace the filters. Clear any obstruction at the air inlet and air outlet vents. |
| Noisy during operation. | Check if the unit has been installed at an incline. Close the front panel properly. |
| Remote control does not work. (Display is dim or transmission signal is weak.) | Insert the batteries correctly.Replace weak batteries. |
| The unit does not work. | Check if the circuit breaker is tripped.Check if timers have been set. |
| The unit does not receive the signal from the remote control. | Make sure the receiver not obstructed. Certain fluorescent lights may interfere with signal transmitter. Please consult authorized dealer. |
| PATROL operation does not work. | Press and hold PATROL for 15 seconds until beep sound is heard, press PATROL again. |
| Patrol sensor indicator on the indoor unit is blinking. | Press PATROL twice. If the patrol sensor indicator still blinking, please consult authorized dealer. |

Notes on "ECO PATROL SENSOR"

Sensor may not detect moving objects further than 7m away or beyond detection angle. Sensor sensitivity is influenced by indoor unit location, movement speed, temperature range, etc.

- The sensor may mistakenly detects pets, sunlight, certain lighting, fluttering curtains and light reflection as human being.

The unit stops and the timer indicator blinks.



Note:

· For certain errors, you may restart the unit for limited operation with 4 beeps during operation starts.

QUICK GUIDE

Remote Control Preparation

| 6 | 1 Press and pull out | | | |
|--|----------------------|---|-------|-----------------------------------|
| | | tteries (can be used ~ 1 yea | ar) | |
| | 3 Press CLOCK | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | | |
| 3 4 5 | 4 Set time | | | |
| | 5 Confirm | | | |
| ON SET OFF CANCEL | 6 Close the cover | | | |
| AC RC SET CHECK CLOCK RESET | | | | |
| | | | | |
| C AUTO → HEAT DRY ← COOL | | | | |
| Select the desired mode. | | | | |
| | | | | |
| 2 | | | -2- | |
| OFF/ON | | MODE FAN SPEED (MILD DRY) | -3- | MODE FAN SPEED (MLD DRY |
| Start/stop the operation. | | QUIET/POWERFUL | -(1)- | |
| | | | | |
| З | | | | |
| Select the desired temperatu | re. | SET CHECK CLOCK RESET | | SET CHECK CLOCK RESET |
| | | E7LKR, E9LKR, E12LKR, E15LKR | | E18LKR, E21LKR, E24LKR, E28LKR |
| Information for Users on Collection and Disposal of Old Equipment and used Batteries | | | | |
| | | | | |



[Information on Disposal in other Countries outside the European Union]

These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.



Note for the battery symbol (bottom two symbol examples):

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

Panasonic Corporation Website: http://panasonic.net/

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