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# DE'LONGHI EV100 Owner's Manual

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**EV100**  
**EVAPORATIVE COOLER / HUMIDIFIER**  
**IONIZER/CALENDAR with remote control**



Thank you for purchasing the De'Longhi EV100 Evaporative Cooler. This is a state of the art air cooler, humidifier and air purifier. Please read this manual carefully to ensure correct use & long life of your unit. Keep this manual in a safe place for future reference.

**INSTALLATION & OPERATING GUIDE**

1. Open the carton & remove the unit from the packaging.
2. Locate all accessories.
3. Open the water tank door, & fill tank with clean water up to the maximum level but not past it – **DO NOT OVERFILL**.  
If ice blocks are being used do not fill past the minimum level to allow for the ice blocks to be inserted.
4. Be careful when filling the water tank to ensure no water is spilt on the unit as damage may occur - Wipe up any spills immediately.
5. Keep the water tank door closed when unit is operating.
6. Always use clean water, purified or distilled water is preferable.
7. To turn the unit on, press the **ON/SPEED** button.
8. The timer can be set to turn the unit off after a pre-set period.  
The maximum timer setting is 7 hours 30 minutes.
9. To oscillate air movement, press the oscillation button to start the louvres moving from left to right & vice versa. You can also adjust the vertical air movement manually by adjusting the vertical direction vanes.
10. To turn the unit off press the **OFF** button and unit will go into standby mode.

**Remote Control:**

- (i). The unit can also be completely controlled with the remote control. Insert 2 x AA batteries in the remote control – Alkaline batteries are recommended for longer battery life.
- (ii). Except for the **PRESET** button, all other functions on the remote are on the control panel of the unit.
- (iii). Pressing the **PRESET** button will set the unit automatically in the following mode:
  - Cool Air
  - Air speed: Medium
  - Mode: Natural
  - Timer: 4 hrs
  - Air Cooler/Humidifier: On
  - Oscillation: Off

**Caution:**

Do not press the **PRESET** button on the remote control when there is no water in the tank, otherwise damage may result. When using the remote control, point it towards the front of the unit within a 6 metre range.

**Ice Blocks**

Each unit comes with two "ice blocks" to keep the water inside the water tank cool (8°C less than ambient temperature).

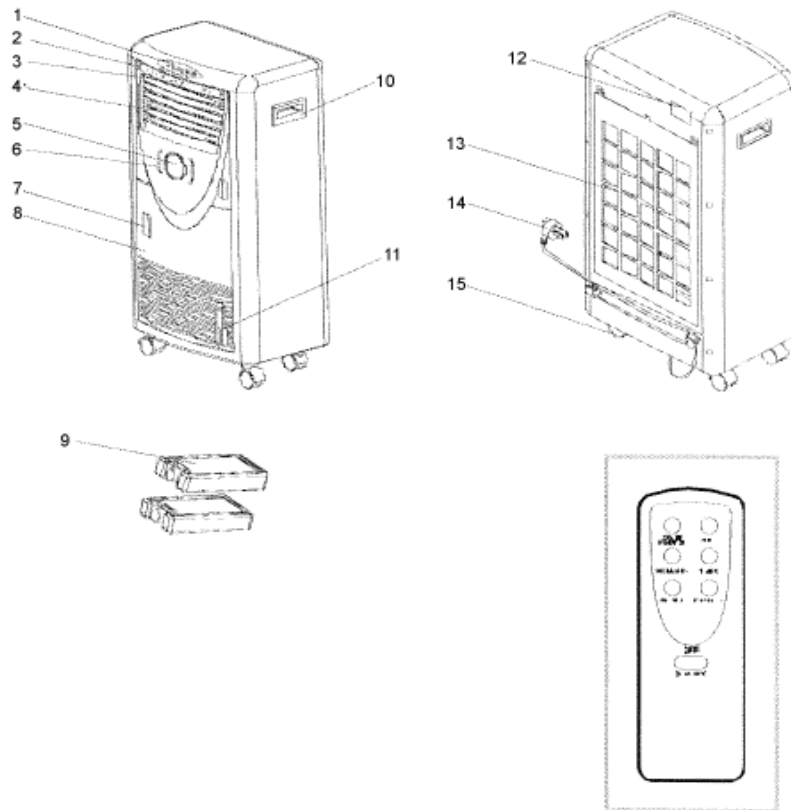
**Use of Ice Blocks**

- (i) Put the ice blocks in the freezer until they are completely frozen.
- (ii). Place one ice block in the water tank first and then fill the tank to the maximum level.
- (iii). Close the door & press the **COOLER/HUMIDIFIER** button on the control panel or remote control to start the cooler. The temperature of the water will be much lower than that of ambience, and will last for approx. 4 hours until the water gets warm.
- (iv). The unit comes with 2 x ice blocks for consecutive use.

**Calendar/Clock Alarm**

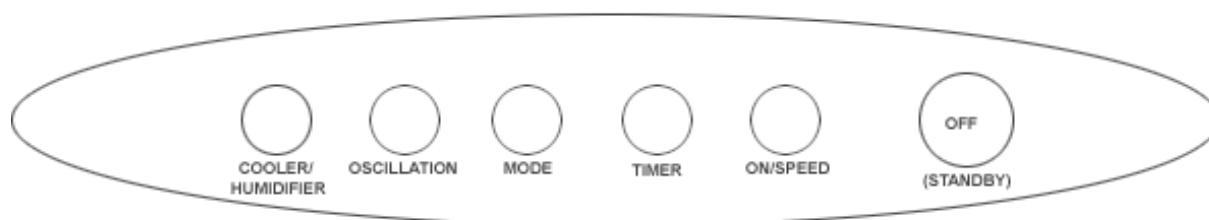
- (i). The calendar requires 2 x AAA batteries.
- (ii). If the display on the LCD display shows faded digits, change the batteries as soon as possible.
- (iii). If the unit is not to be used for an extended period, remove the batteries to avoid leakage.

## Description of the Components

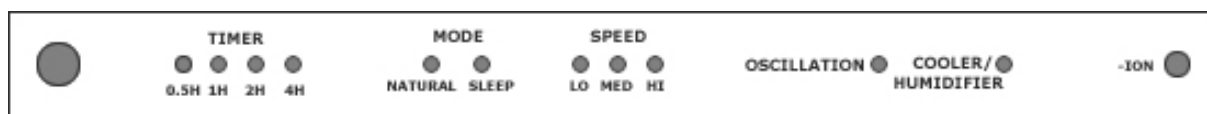


1. control panel
2. remote control receiver
3. function indicator
4. front air outlet
5. calendar LCD
6. calendar control button
7. water tank catch
8. water tank door
9. ice blocks
10. handle (one each side)
11. water level indicator
12. battery compartment
13. air filter (removable)
14. power cord & plug
15. castor

## CONTROL PANEL



## INDICATOR PANEL



### Control Panel Operation

#### ON/SPEED

There are three speeds – High / Medium / Low.

Press this button to start the unit at medium speed, after 3 seconds it changes to low speed, then you can select the desired speed.

#### COOLER/HUMIDIFIER

After you have filled the water tank with water, you can start the humidifier by pressing this button, after 20 seconds the humidity indicator lights.

#### OSCILLATION

Press this button to oscillate air direction from left to right & vice versa.

#### TIMER

To use the timer function press the timer button to increase the time by 30 minute increments up to a maximum time of 7 hrs 30 mins.

#### IONIZER INDICATOR

The ionizer automatically starts when the unit is turned on & the ionizer indicator lights to show it is operating.

#### MODE

There are three modes of fan speed: normal, natural & sleep mode.

Fuzzy logic controls the speed randomly but each mode can be selected manually by pressing the **MODE** button.

- **Normal Mode** (two mode indicators are off)  
The fan constantly cycles from **LOW** to **MED** to **HI** as set.
- **Natural Mode**  
The fan operates in a cycle of **HI**, **MED** and **LOW** for 90 secs.

- **Sleep Mode**

In this mode the fan gradually reduces speed. Sleep mode has the following variations:

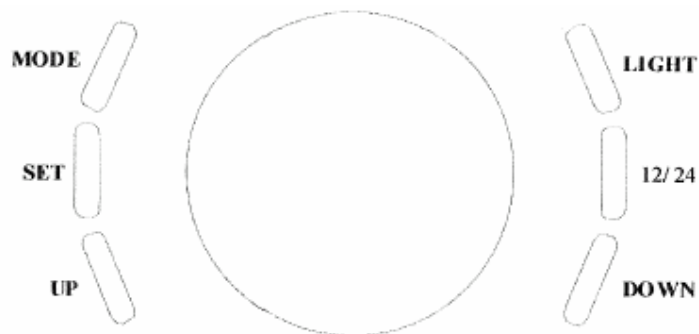
- (i). When set at **HI** position at the start, the fan will operate at high speed for 30 mins, then it will switch to medium fan speed. After another 30 mins it will change from medium fan speed to low speed. The fan will work at low speed until the preset time has elapsed or the power is turned off.
  - (ii). When set at **MEDIUM** position at the start, the fan will operate at medium speed for 30 mins, then the fan switches to low speed. The fan will work at low speed until the preset time has elapsed or the power is turned off.
  - (iii). When set at **LOW** position at the start, the fan will work at low speed until the preset time has elapsed or the power is turned off.
- **Rhythm Mode** (two mode indicators are on)  
When the two mode indicator lights are on together, high, medium & low rhythm fan can be selected in conjunction with the fan speed button.
  - (i). When set at high rhythm fan position, the fan will operate from high speed to medium speed 60 mins later. The fan will work at medium speed until the preset time has elapsed or the power is turned off.
  - (ii). When set at me at medium rhythm fan position, the fan will operate will work at this speed until the preset time has elapsed or the power is turned off.

**Note: Do not use this function when there is no water in the tank**

**Remote Control Operation**

The functions of the remote control are the same as that of the control panel. See previous section on Control Panel Operation for the individual function descriptions.

**CALENDAR/CLOCK/ALARM**



### To set the time/month/date

Press the **SET** button to select the time/month/date parameters.

The display will be blinking for the parameter to be set – use the **UP/DOWN** buttons to set the desired value.

Press the **SET** button again & repeat the procedure with the **UP/DOWN** buttons to set all time/month/date parameters.

When complete press the **MODE** button again to finalize the settings & return to normal display.

A beep will sound to confirm time is set.

### To set the alarm

Press the **MODE** button once to select alarm setting function & then press the **SET** button to select time/melody parameters for the alarm.

The display will be blinking for the parameter to be set – use the **UP/DOWN** buttons to set the desired value.

Press the **SET** button again & repeat the procedure with the **UP/DOWN** buttons to set all time/melody parameters.

When complete press the **MODE** button again to finalize the settings & return to normal display.

A beep will sound to confirm the alarm is set.

### LCD back light

Press the **LIGHT** button on the calendar control panel, the LCD display of the calendar will be illuminated for 10 seconds.

## NEGATIVE ION GENERATOR

### How are negative ions generated?

The high efficiency negative ion generator can generate negative ions through discharge of high voltage across a carbon fibre terminal of the ionizer, during which the electrons and oxygen in the air combine to make negative ions.

### Benefits of Negative Ions

As universally demonstrated by scientific research, it shows that the content of negative ions in the air is of great importance to the air quality. People near forests or waterfalls enjoy much better air quality and freshness of negative ion content in these places is 1000 times more than office buildings and urban residential areas. The oxygen rich negative ion is very active and much easier to be absorbed by human organs, which is beneficial for human body growth, preventing several diseases and reviving the spirit.

In the table: Ion stands for negative ion, S for number of ions, and cc for millilitre.

Region	forest, waterfall region	mountain, seashore	suburb, field
Content (Ion/S/cc)	100,000-500,000	50,000-100,000	5,000-50,000
Relation to health	spontaneous recovery	sterilizing and reduce spread of disease	enhancing human immunity and antisepsis

Region	green part of street	enclosed urban residential area	air conditioned room
Content (Ion/S/cc)	100-200	40-50	0-25
Relation to health	threshold of inducing physiological disorder	inducing physiological disorder, headache, insomnia etc	inducing "air-con" symptoms

### **Prevention of "Air-Con" Symptoms for healthier life**

Extended periods in an air-conditioned room may result in exposure to excessive dust, hazardous gas and positive ions, which induce "Air-con" symptoms (light headedness, insomnia, nervositas, hypo immunity, amnesia...) causing serious health & comfort issues. It is verified through testing that rooms equipped with negative ion fans can have the negative ions increased from 50 to 10,000 within half an hour of operation. The density of the the negative ions can be as much as 1 million, equivalent to that of negative ions found in forests or near waterfalls after 3 hours of operation.

Long term exposure in this environment may benefit from improved myocardium function, pulmonary function, better sleeping, promoting metabolism and strengthening immune system of the human body.

### **Effects of Negative Ions in dust-proofing & sterilization**

Negatively charged ions can be blown throughout the room by the fan to neutralize the positive charge in the particles of smoke and dust that float in the air, thereby losing their energy & will no longer remain in the air. The combination of negative ions on bacteria may deter the bacteria growth or even kill the bacteria.

Therefore the negative ions are effective in creating a cleaner & more sterile environment leading to a healthier lifestyle.

### **FEATURES**

- **Active Oxygen Negative Ions creating a healthy environment**

The ionizer is one of the main parts of the unit, helping to clean the air while cooling the air at the same time.

- **Low power consumption**

It only consumes 60W when on maximum to cool the air which is a big saving when compared to an air conditioner.

- **Humidifying**

The humidity can be controlled

- **Sterilization & neutralizing smelly odours**

A very useful part of this unit is the air filter. It can be activated by exposure to the sun. The photo-sensitizer used in the filter can absorb and dissolve the harmful chemical gas in the environment effectively. It's deodorant rate goes up to 95% of odours to make fresh air and a healthy environment.

The light contact agent material can also be regenerated under the light source to ensure cleaner air for a longer period before replacement is required.

- **Multi-purpose**

- **100% Wide angle air delivery**

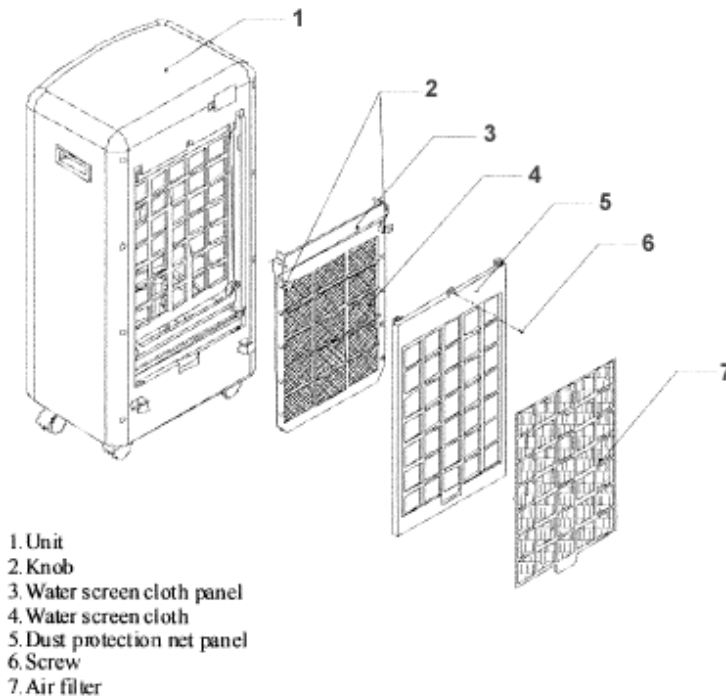
Three fan speed selections: Low, Medium & High.

- **Remote Control**

6 metre remote control and 90° remote control signal.



## CLEANING



### Water screen cloth

Unplug the power cord, take out the **AIR FILTER (7)**, and then undo the **SCREW (6)**, press the button on the **DUST PROTECTION PANEL (5)**, and then withdraw it.

Turn the **KNOB (2)** at each side of the **WATER SCREEN CLOTH PANEL (3)** and then lift up to remove the **WATER SCREEN CLOTH PANEL (3)**.

Move the slide fastener to remove the **WATER SCREEN CLOTH (4)**.

### Cleaning the screen cloth

Dip it in warm soapy water for a few minutes, clean it and then leave to dry in the sun. After cleaning re-install in the reverse procedure as described above.

### Active Filter & Water Filter in water tank

Remove the plug from the wall socket, and drain the water in the water tank, open the water tank door, slide the water filter towards you & remove it. Once removed the hold on panel can be unclipped from the active filter.

### Cleaning the water filter

(1). Water filter: wash with a soft brush & warm soapy water.

(2). Active filter: Dip in warm soapy water for approximately 1 hour then brush softly & finally rinse with clean water.

(3). Re-assembly: Re-clip water filter & active filter together & slide back into position in water tank.

Note: If the quality of water is poor, the active filter will get require cleaning more often to ensure efficient cooling operation of the unit.

**Air Filter**

Unplug the power cord, loosen the screw of the air filter and then press the button on the side to remove the air filter. In a smoky or dusty environment the filter may appear gray after 1 -2 months and will need to be cleaned. Under conditions without smoke or minimal dust the filter will need to be cleaned every 1 – 6 months depending on condition of filter.

**Cleaning the air filter**

Wash the air filter with warm soapy water and a soft brush. Place side of filter with light contact agent facing upwards in the sun for at least 4 hours to re-generate the light contact agent and re-fit it back in the unit.

**Water Tank**

No cleaning is needed if the unit is used frequently, however it is advisable to clean the tank periodically when the filters are cleaned and when storing.

**Cleaning the water tank**

Unplug the power cord, open the front cover and drain the tank. Clean the sediment and fouling in the water tank with gentle detergent. Remove the rubber stopper at the drain to let the water out until empty.

**SAFETY WARNINGS**

- Never let children or unfit persons use the appliance without supervision.
- Never touch the appliance with wet or damp hands or feet when the unit is plugged in to a power source.
- Never pull the power cable or the appliance with wet or damp hands or feet when the unit is plugged in to the wall socket.
- Never immerse the appliance in water
- Never use the appliance in a bathroom.
- Never allow water to remain on the exterior of the unit as high voltage is present inside the unit & could cause an electrical hazard. Remove the plug from the wall socket & remove water immediately with a dry cloth.
- If the unit is tipped over with water in it, the plug should be removed from the wall socket immediately & left to dry out for 24 hours before plugging back in & using again. Damage or an electrical hazard may result if this procedure is not followed.
- In the event of malfunction or faulty operation, switch off and do not attempt repair.
- The appliance must be taken to an authorized De'Longhi Service Representative for repair.
- If the supply cord of this equipment is damaged, it must only be replaced by manufacturer or it's service agent or similarly qualified person in order to avoid a hazard.
- Remove plug from wall socket when cleaning or performing maintenance on the unit.
- Do not knock or shake the machine when operating, otherwise it may shut off automatically & will require it to be manually turned on again.
- Do not place any objects on the unit.
- Be careful when moving the unit with water in it, to avoid water spillage or possible electrical hazard.

- When adding water, do not overfill water above "MAX" level. If ice blocks are being used, place the ice block(s) in the water tank when the tank is empty, then fill the tank with water to the maximum level.
- Do not turn on "**COOLER/HUMIDIFIER**" or "**PRESET**" function when lack of water or no water in tank, as this may damage the unit.
- Choose normal fan speed when humidity is too high as cooling function is accompanied with humidifying.
- Do not place the unit with the air inlet close to wall or curtains, otherwise efficiency of the unit will be lessened.
- Clean the outside of the unit with a damp cloth. Do not use corrosive detergent or solvent to clean. Never pour water on the unit.
- When the appliance is not in use, remove the plug from the wall socket.

### **SPECIFICATIONS**

Voltage:	230-240V ~ 50 Hz
Input Power:	60W
Cooling power:	75W
Max. air vol.:	23 m <sup>3</sup> /min
Max. water injection:	7 L
Net weight:	10.7 kg
Dimensions:	380 x 295 x 780 mm

In the unlikely event of a breakdown, you will have access to professional help from De'Longhi by simply calling this number:

Australia 1800 126 659  
New Zealand 0508 200 300

