



**STAR PROGETTI**  
TECNOLOGIE APPLICATE

# ECO FRESH AIR

RAFFRESCATORE MANUALE D'ISTRUZIONI  
RAFRAICHISSEUR EVAPORATIF MANUEL D'INSTRUCTIONS  
AIR COOLER INSTRUCTION MANUAL  
MOD. FRE5001



**NUOVO CON DISPOSITIVO UV PER LA STERILIZZAZIONE DELL'ACQUA**  
**NOUVEAU AVEC DISPOSITIF UV POUR LA STÉRILISATION DE L'EAU**  
**NEW WITH UV DEVICE FOR WATER STERILIZATION**



1x



2x



3x



20x



3x



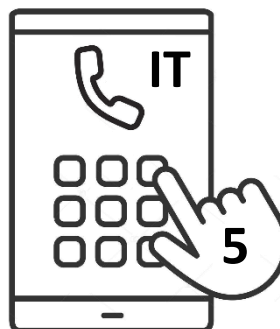
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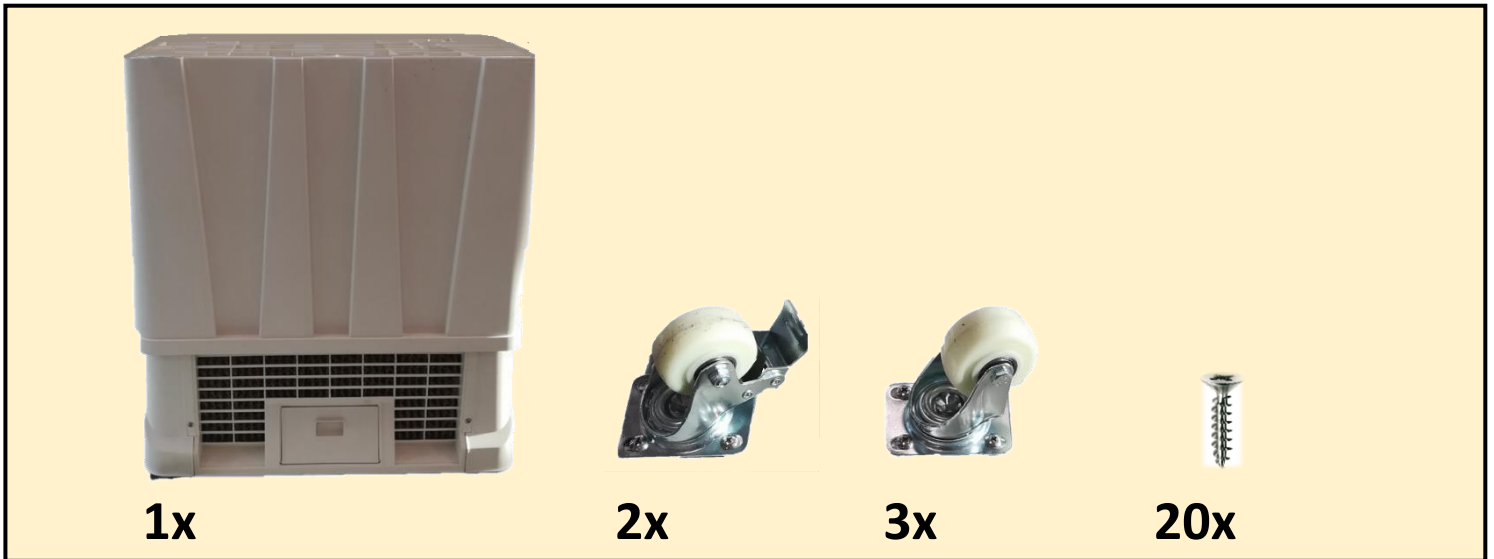
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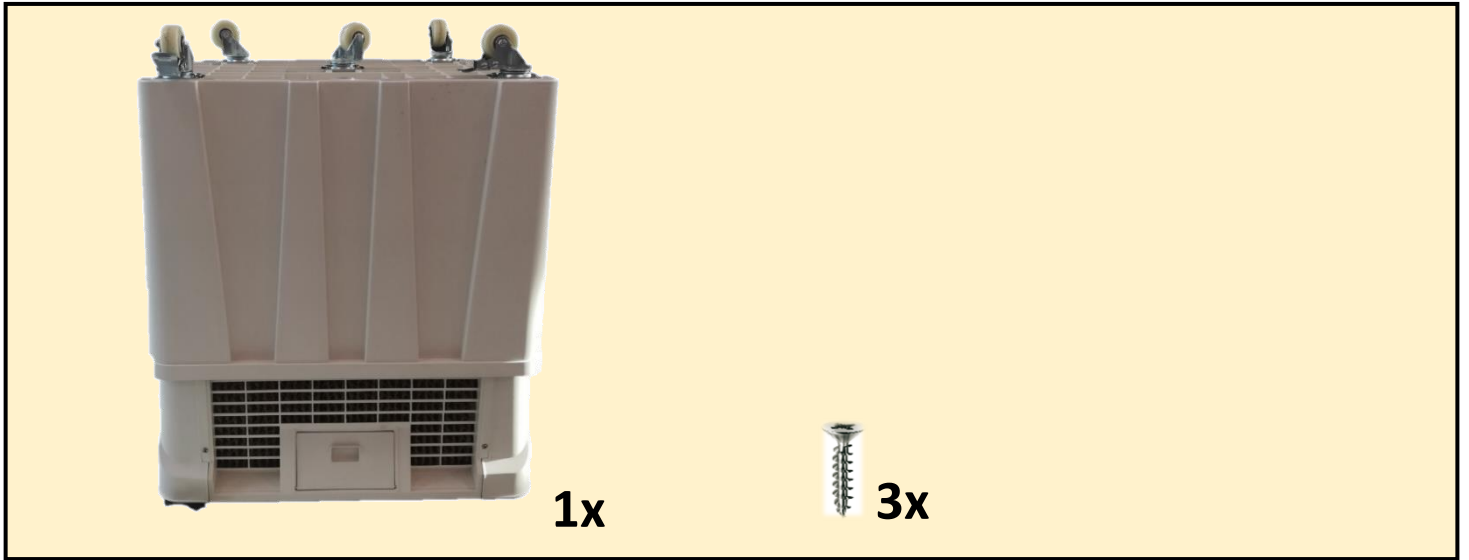


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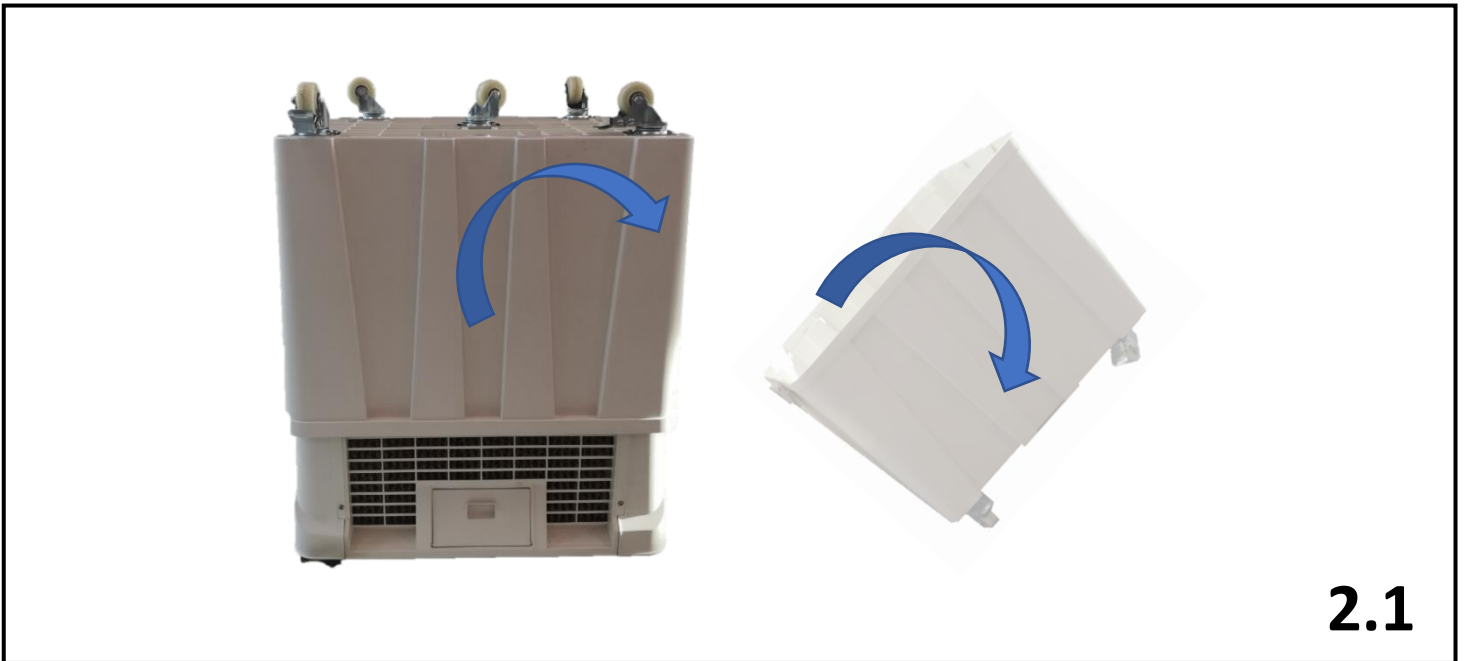


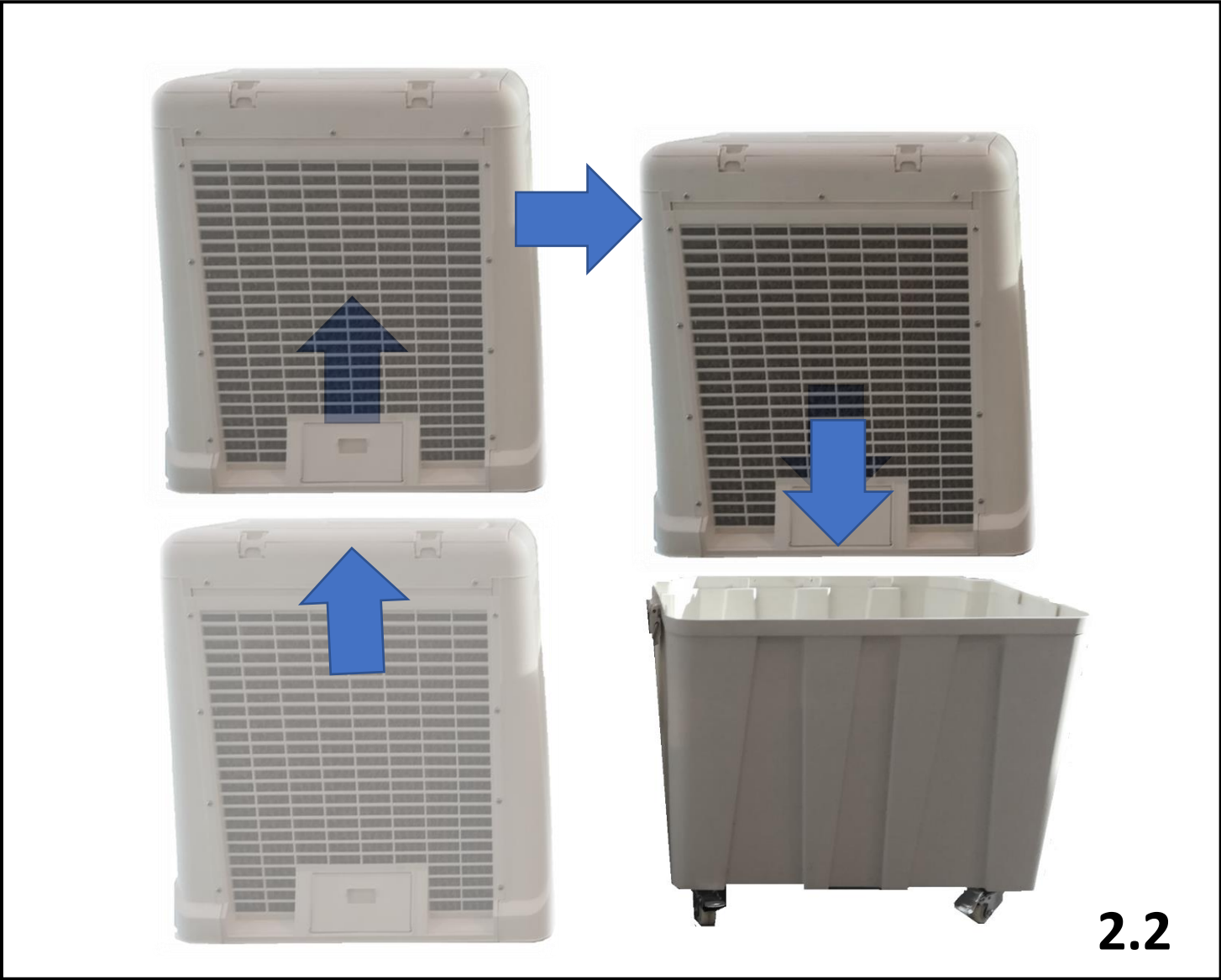
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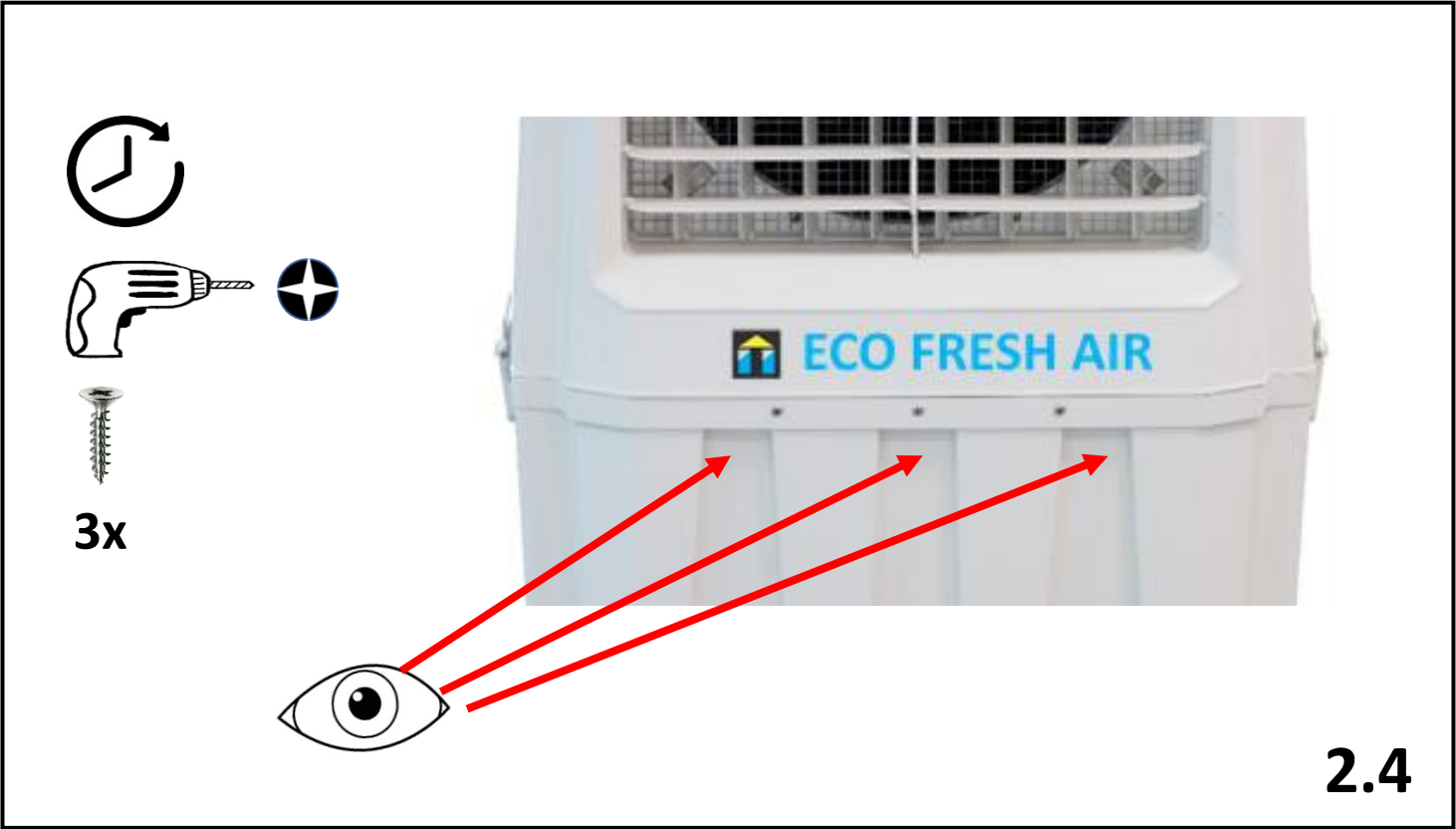
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**2.3**





### Important information for environmentally friendly disposal

**IN SOME EU COUNTRIES THIS PRODUCT DOES NOT FALL INTO THE SCOPE OF APPLICATION OF THE ITALIAN DOMESTIC LAW ACKNOWLEDGING THE RAEE DIRECTIVE AND THEREFORE THERE IS NO OBLIGATION IN FORCE TO SEPARATE MATERIALS AT THE END OF THEIR USEFUL LIFE.**

This product complies with Directive 2012/19/UE. The symbol of a dustbin with a cross, which is shown on the appliance, indicates that the product, because it must be treated separately from household waste, must be taken, at the end of its useful life, to a collection center for electrical and electronic equipment. The user is responsible for delivering the appliance to the appropriate collection structure at the end of its life, on penalty of the measures provided for by current legislation on waste. The proper separate collection for subsequent transfer of the appliance for recycling, treatment and environmentally friendly disposal contributes to avoiding any possible harmful effects on the environment and health and promotes recycling of the materials that make up the product. For more detailed information on the available collection systems, contact the local refuse disposal service or the shop where the purchase was made. The producers and importers meet their responsibilities for recycling, treatment and environmentally friendly disposal either directly or through participating in a collective system.

## INTRODUCTION

Thank you for purchasing our product. Evaporative air cooling is the natural way of cooling, similar to a breeze blowing across a fountain. This breeze drops the temperature and has a relaxing cooling effect. The evaporative air cooler cools the air by means of the evaporation of water. When water evaporates into the air, the result is a mixture of air and water molecules. This chemical change requires heat which is taken from the water molecules, resulting in cooler air propelled from the unit. When water is continuously distributed onto the cooling pad surface, the air being drawn through the pad causes the water to evaporate, making the air cool and fresh. The circulating water moves down to the reservoir, where it is again pumped up through the cooling pads. If the hose option is being used, a float valve keeps the reservoir full continuously. If filled manually, the big capacity reservoir ensures hours of uninterrupted operation. There is a digital level indicator to quickly check the amount of water remaining.

## ANTIBACTERIAL UV WATER STERILISATION DEVICE



The **ECO FRESH AIR** cooler you have purchased has a distinctive feature to aid personal health.

It is equipped with a **UV** lamp, located in the tank, to sterilise water and prevent the formation of bacteria (such as legionella, for instance) and mould.

When in use, our **ECO FRESH AIR** cooler prevents the development of pathogens caused by stagnant or contaminated water.

**Star Progetti** is the first to adopt this solution, which is part of our corporate strategy aimed at offering customers the best possible product with a full guarantee of well-being and health.

The UV lamp lasts for an average of 7000 hours, equivalent to several years of use during the summer.



*Read the instructions contained in this booklet carefully before using the appliance. Star Progetti cannot assume any responsibility for damage to property or personal injury resulting from failure to abide by the instructions given in this booklet. Following these instructions will ensure a long service life and overall electrical and mechanical reliability.*

**KEEP THIS INSTRUCTION BOOKLET IN A SAFE PLACE.**

- 1.If using this appliance where there are children, supervision by an adult is necessary; this appliance must not be used, without assistance, by children or persons whose physical, sensory or mental capacities prevent them from applying the necessary safety precautions.
- 2.If the cable or the power plug are damaged, take the appliance to manufacturer or to an authorised service centre for replacement or a professionally qualified electrician.

**IMPORTANT WARNINGS**

THE APPLIANCE MUST BE PLACED PERFECTLY IN PLAN.



**WE RECOMMEND THE USE OF CLEAN WATER. IF YOU ARE USING WATER NOT FROM THE WATER NETWORK, APPLY A FILTER TO MOUNT THE WATER LOAD.**

IF THE APPLIANCE IS USED IN ENVIRONMENTS WITH PRESENCE OF SUSPENSION POWDER, IT IS RECOMMENDED TO SYSTEMALLY CLEAN THE PAPER FILTER AS INSTRUCTIONS

**SAFETY WARNINGS**



BEFORE ANY MANUAL WATER FILLING OPERATION, CLEANING AND MAINTENANCE, TURN OFF THE DEVICE AND REMOVE THE PLUG FROM THE ELECTRIC SOCKET.



**ALSO, AVOID EXPOSURE TO LIGHT COMING FROM THE UVC BULB FOR A FEW SECONDS (EVEN IF THE LIGHT IS ONLY REFLECTED) AS EXPOSURE CAN CAUSE SEVERE CONJUNCTIVITIS AND ERYTHMEA.**



**SAFETY WARNINGS**

1. ALL ELECTRICAL REPAIRS MUST ONLY BE CARRIED OUT BY A SUITABLY QUALIFIED ELECTRICIAN, AFTER ALL POWER IS DISCONNECTED.
2. THIS COOLER IS NOT INTENDED FOR USE BY CHILDREN OR PERSONS WITH REDUCED PHYSICAL, SENSORY OR MENTAL CAPABILITIES OR LACK OF EXPERIENCE AND KNOWLEDGE.
3. CHILDREN SHOULD BE SUPERVISED TO ENSURE THAT THEY DO NOT PLAY WITH THE APPLIANCE

## APPLICATIONS

This cooler is currently being used in many different industries and applications in many countries. Company offices, shops, hospitals, schools, workshops, workers dormitories, outdoor teahouse/coffee bars, restaurants, recreation facilities.

### Manufacturing:

Textile, machinery, ceramic, refined chemical industries, metallurgy, hardware and leather industries.

### Industrial processing:

Electronics, clothes & shoe making, plastics, food industries, packaging.

### Others:

Indoor sports courts, bakeries, playgrounds, laundries, kitchens, vegetable markets, gymnasiums, underground parking lots, greenhouses, chicken and pig farms, gardens, the list goes on.

## TECHNICAL FEATURE



New evaporitive cooling pad.



3 levels fan speed (low, medium & high).



Love noise.



Large capacity water tank for longer operating hours.



Swing function



Large wheels and brake allow easy movement.



Time setting function.



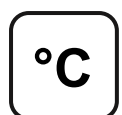
Micro-computer program control, LCD panel.



More convenient with remote controller.



Antibacterial UV device.



Room Temperature

## TECHNICAL SPECIFICATION

MODEL / CODE	KT-16D LED / FRE5001
Max Airflow (m <sup>3</sup> /h)	5000
Power supply (Vac)/Frequency (HZ)	220-240/50
Power Consumption (W)	230
Fan Style	Axial
Water Consumption (L/h)	3-4
Water Capacity (L)	90
Dimension (L*W*H) (mm)	664 × 433 × 1183
Weight (kg)	35
Effective Cooling Area (m <sup>2</sup> )	100/150 *

\*all the data mentioned are determined by tests, different results depend on the environmental conditions of use.

## **OPERATION INSTRUCTION**

### **ON/OFF**

This turns the cooler on or off.

### **COOL**

This activates the cooling function.

When COOL is pressed again, the water evaporation feature is turned off, with only the fan operating.

### **SPEED**

Pressing SPEED will select low, medium or high fan speed.

### **SWING**

This activates/deactivates swing function.

### **TIMER**

#### **Delayed start**

The timer setting can be used to start the cooler after a certain number of hours delay. When only the green POWER light is on, press TIMER until the number of hours delay (1-24) is shown.

### **TIMER**

#### **Automatic stop**

When the cooler is already going, press timer to set the number of hours (1-24) until the machine will automatically switch off.

### **WATER SUPPLY**

Use only clean, fresh water.

Pour water into the water inlet on the right hand side of the unit.

**PLEASE READ THE MANUAL CAREFULLY BEFORE OPERATING THE COOLER.**

A) Operating conditions:

- 1- Temperature: 18°C to 45°C; Water Temperature: < 45°C.
- 2- Power supply must not exceed the required voltage (+/-) 5%.
- 3- Air supply must be largely free of dust or extra cleaning is required.

B) Protect the power cable from vehicle or foot traffic. Connection to incorrect electric voltage, or faulty installation, will cause danger of electric shock.

C) If the product malfunctions at startup, please disconnect from electric power immediately and refer to dealer for service.

D) Other tips for cooler use:

- 1- Keep doors and windows open to allow fresh air to enter, and treated air to exit, when cooler is operating.
- 2- An audible signal indicates that the water level in the tank is low.
- 3- Rinse the reservoir with fresh water and clean prior to use after a period where the cooler has not been in operation.
- 4- Take care when moving the cooler, especially when it is full of water. Pushing too hard will cause the cooler to overbalance and tip over, which may cause injury and will damage the cooler.

**MAINTENANCE**

For best results and long term operation, regular maintenance is essential.

**To ensure the cooler delivers fresh and clean air, regularly change the water when dirty, and clean both the dust filter and the cooling pad.**

- 1) Remove the filter pad by unscrewing the screws on the rear of the cooler, then lift the pad and pull out at the bottom to release. To replace the pad, slide up into the slot under the top of the cooler, push in at the bottom and allow to drop into the lower slot.
- 2) Clean the pad from the inner-side to out-side of pad (inner side is towards motor). Never use any liquid detergent. Never use pressurized water, as it may cause damage to the pad.
- 3) Unscrew the drainage lid to let dirty water flow out, then clean the water tank thoroughly with a soft cloth. Wash off dirt on the water sensor, water pump and the float valve. Rinse thoroughly.
- 4) Use mild soap and soft clean cloth when cleaning the cooler casing. Do not use any caustic chemical detergent that may cause damage to the surface of the cooler.

**TROUBLESHOOTING**

<b>Malfunction</b>	<b>Reason</b>	<b>Remedy/Solution</b>
-The control panel does not light up, the fan does not start.	-No power -Main control board failure -Fuse is blown -Panel failure	-Check unit is plugged in -Change control board -Change fuse -Change panel
-Display is normal but without air flow or the air speed is too low	-The fan is jammed -Cooling pad or dust filter is blocked -Fan is distorted -Main control board failure	-Check to ensure there is nothing preventing free rotation of the fan -Clean the cooling pad and dust filter -Change the fan -Change the main control board
-Motor does not respond to control panel	-Main control board failure -Panel failure	-Change the main control board -Change panel
-Cool effect not good	-Water tank not enough water -Water pump is obstructed.	-Add water to ensure there is enough water for pumping -Clean water tank discharge impurities.
-Water leaking from drain valve	-Drain valve is loose -Dirt in valve	-Tighten drain valve nut -Clean drain valve
-Air diffuser / swing function not working	-synchronous motor is burnt out -Crankshaft is broken	-Change synchronous motor -Change crankshaft
-Water drops splash out of the air diffuser	-Water pipe has come loose	-Check water pipe to top of filter pad and reattach or tighten as necessary

**NOTE:**

THIS INSTRUCTIONAL CHART IS FOR REFERENCE PURPOSES ONLY, IF ANY TECHNICAL ASSISTANCE IS NEEDED, PLEASE CALL STAR PROGETTI'S OFFICES FOR SERVICE/REPAIR AT NO. 02/90639261 ext. 2

**Keep the original packaging**

## RECOMMENDATIONS FOR USE

- In order to avoid any water sprays to come out from the fan, the cooler, under normal working conditions, should be placed on a flat surface, and its cellulose panels perpendicular to the floor.
- When it is first switched on, it is recommended to fill the tank as per instructions and run one-hour cycle at least with the COOL function ON and the fan operating speed set to the minimum.  
If the appliance is operated at the maximum air flow from the very start, it may cause the passage of water from the cellulose panel to the fan, causing water sprays from the front of the cooler and possible damages to the bearing of the fans themselves.
- The first time it is switched on, you might feel an unpleasant smell of the cooled air, caused by the new cellulose panel. We suggest you should complete at least one cooling cycle outdoors in an open space (fill a water tank, start the COOL function and let the appliance work until it finishes water completely), before positioning and using it at the final place.
- You can also add eutectic plates to water, to maximise the appliance performance in the hottest weather, as well as scented essences (to distribute cooled and scented air in the zone of use). Be however sure to use water-based essences so as to avoid clogging the filter by oils or soaps, which may affect the effectiveness and proper functioning of the cooler.
- It is suggested to run a lime washing cycle at least once in a year, by adding one litre of white vinegar in the water tank and activating the COOL function until the tank is completely exhausted. Once the cycle with vinegar is ended, fill again the tank by water only and repeat the procedure.

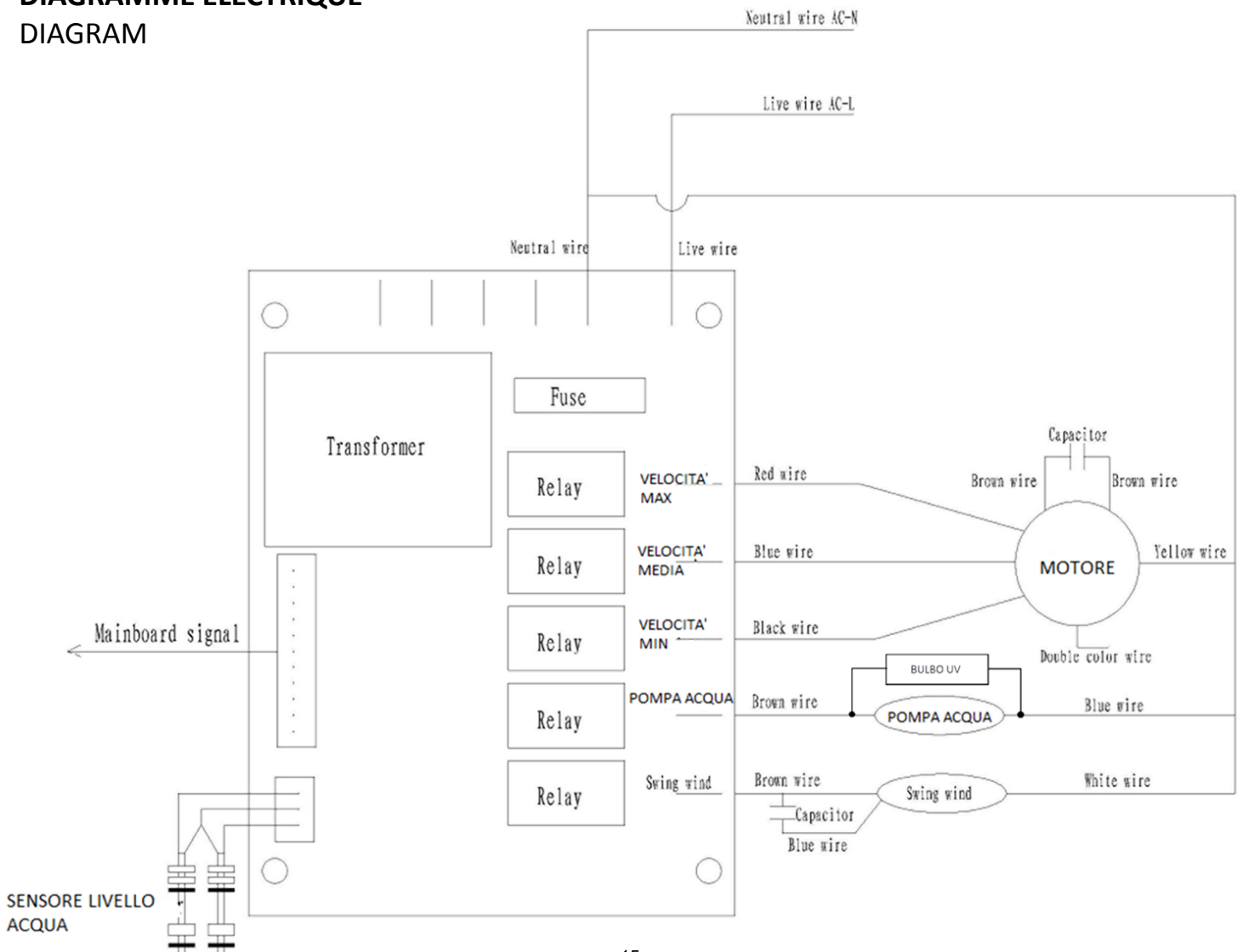


TELECOMANDO  
TELECOMMANDE  
REMOTE CONTROLLER



PANNELLO DI CONTROLLO  
PANNEAU DE CONTROLE  
CONTROL PANEL

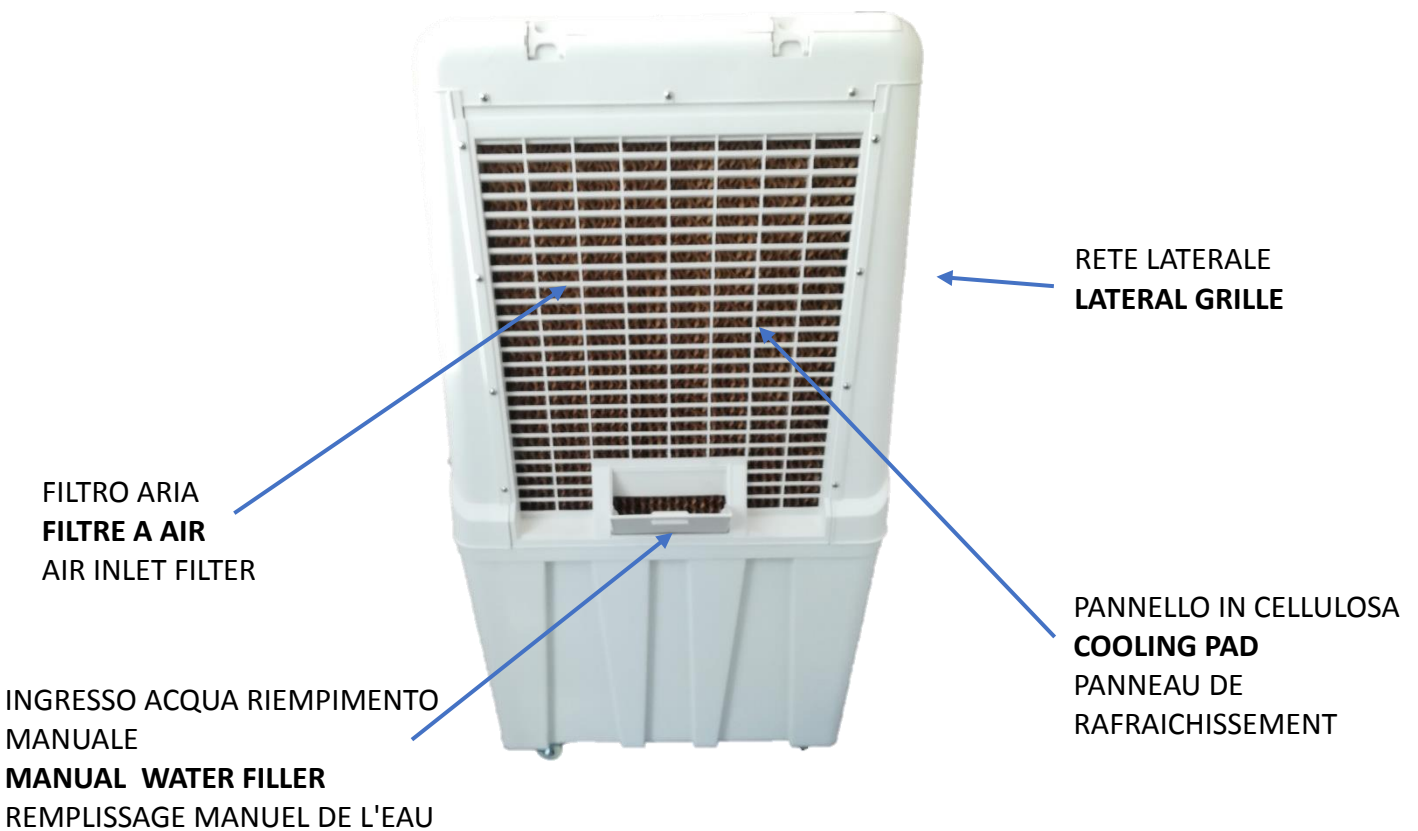
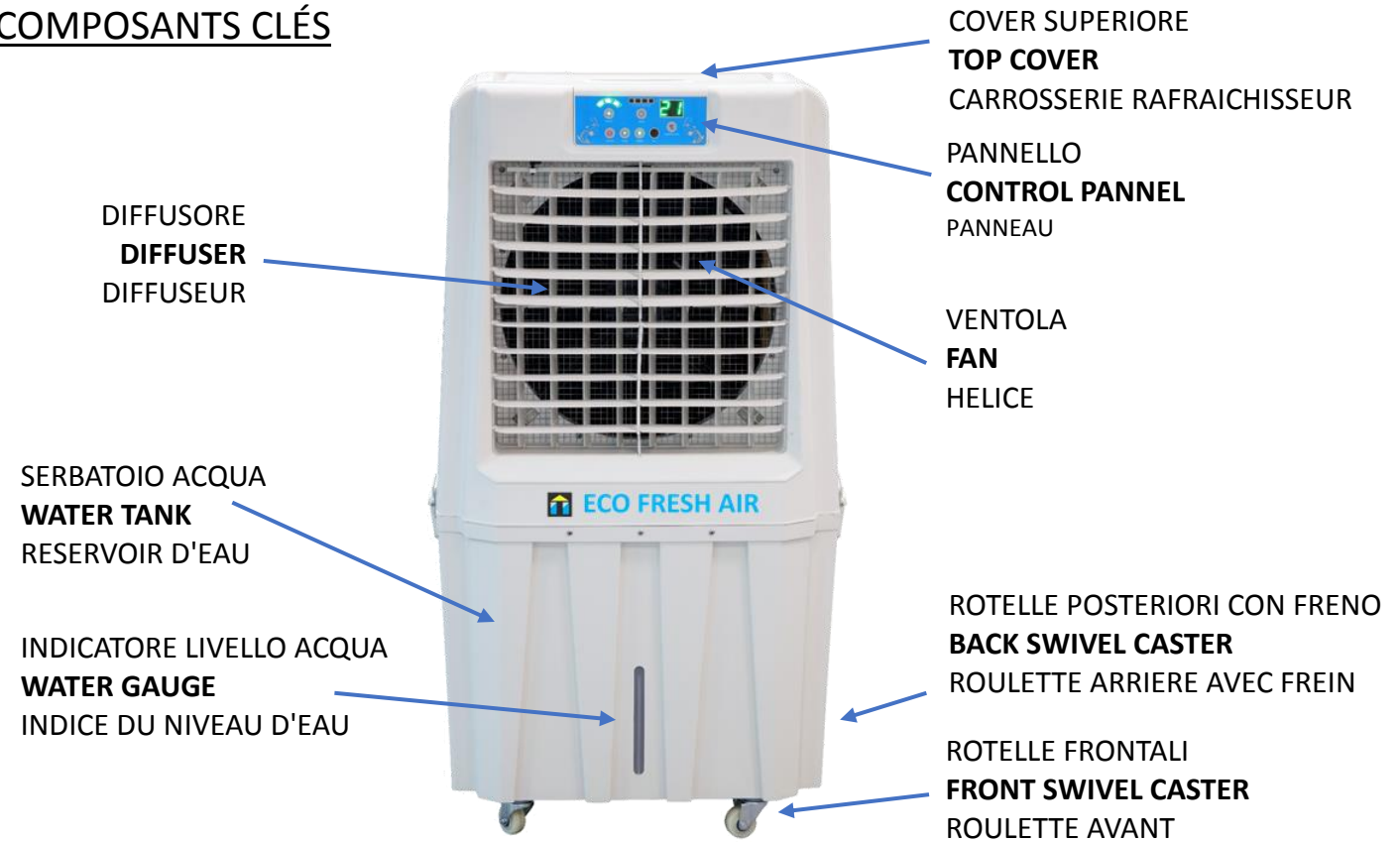
SCHEMA ELETTRICO  
DIAGRAMME ÉLECTRIQUE  
DIAGRAM



# FRE5001

## COMPONENTI PRINCIPALI- KEY COMPONENTS

### COMPOSANTS CLÉS







BULBO UV  
**UV BULB**  
LAMPE UV

TUBO ACQUA  
**WATER PIPE**  
CONDUITE DEL'EAU



POMPA DELL'ACQUA  
**WATER PUMP**  
POMPE DEL'EAU

**CERTIFICATO DI GARANZIA**

Ci complimentiamo con Lei per l'acquisto del nostro FRE5001. La **durata della garanzia è di 12 mesi**, decorre dalla data di acquisto dell'apparecchio e cessa dopo il periodo prescritto. La ricevuta fiscale o altro documento valido fiscalmente comprova la decorrenza della garanzia. Si garantiscono tutte le sostituzioni o riparazioni che si rendessero necessarie a causa di difetti di materiale o di costruzione. E' esclusa quindi la sostituzione o la riparazione delle parti soggette a normale consumo. La garanzia non viene riconosciuta qualora l'apparecchio venga manomesso o qualora sia danneggiato a causa d'incuria, durante il trasporto, manutenzione operata da personale non autorizzato, mancata osservanza delle istruzioni d'uso, errata installazione o non conforme alle norme vigenti nel paese di utilizzo. La garanzia non prevede in nessun caso la sostituzione dell'apparecchiatura. Le riparazioni eventuali riconosciute in garanzia saranno effettuate gratuitamente per merce resa franco STAR PROGETTI o presso il distributore autorizzato. Sono quindi a carico dell'utilizzatore le sole spese di trasporto.

**CERTIFICAT DE GARANTIE**

Nos compliments pour l'achat de notre FRE5001. **La durée de la garantie est de 12 mois** à partir de la date d'achat de l'appareil et elle cesse après la période prescrite. Le ticket d'achat ou autre document, obligatoire fiscalement prouve la date de début de la garantie. On garantie toutes les substitutions ou les réparations qui sont nécessaires à cause de défauts des matériaux ou de la construction. La substitution ou la réparation des parties assujetties à un usage normal sont par conséquent exclues. La garantie n'est pas reconnue au cas où l'appareil ait été malmené ou quand il a été abîmé à cause de la négligence de l'utilisateur, maintient fait par personnel pas autorisé, à cause du transport, lorsque les instructions d'utilisation n'ont pas été respectées ou encore lorsqu'il a été mal installé sans tenir compte des normes en vigueur. La garantie ne prévoit absolument pas la substitution de l'appareil. Les réparations prises en considération par la garantie sont effectuées gratuitement pour les marchandises rendues franco atelier Star Progetti ou auprès d'un de nos distributeurs. Par conséquent seulement les frais de transport sont à la charge du client.

**CERTIFICATE OF GUARANTEE**

We congratulate you on the purchase of our FRE5001. **Validity 12 months** from date of purchase of the appliance: the guarantee expires after this period. The invoice, receipt or hire purchase agreement shall prove the duration of the guarantee period. Replacements and repairs caused by faulty materials or manufacture are guaranteed. Replacements and repairs to those parts of the appliance subject to normal wear are excluded from this guarantee. The guarantee shall immediately cease and become void should the appliance be dismantled or repaired by unauthorized people, or in case of negligence, or accidental damage during transport or elsewhere, or in case of misuse, failure to comply with the instructions for use, maintenance carried out by unauthorized people, faulty installation not in conformity with the laws in force. Replacement of the appliance is excluded from this guarantee. The eventual repairs recognized in guarantee will be carried out free of charge for those appliances returned free STAR PROGETTI's factory or to one of the authorized distributor. All transport costs are to be paid by the customer.

N.SERIE / N. SERIE / NÚMERO DE SERIE

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DATA ACQUISTO / DATE D'ACHAT / FECHA DE COMPRA

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FATTURA N. / FACTURE N. / FACTURA NÚMERO

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RIVENDITORE / REVENEUR / DISTRIBUIDOR

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MOD. FRE5001



**STAR PROGETTI**  
TECNOLOGIE APPLICATE

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