

EAC CE

## SunCon Zero 3

INFRARED HEATER IRK

### Installation, operation and maintenance instructions

| MODEL           | VOLT      | WATT   | f        | IP | PHASE | BULB        |
|-----------------|-----------|--------|----------|----|-------|-------------|
| V400/2-30X5FMS3 | 220-240 V | 3000 W | 50-60 Hz | X5 | 1     | AMBER LIGHT |

**Keep this instruction manual in a safe place**

Tolcon AS

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**Read the instructions in this manual carefully before using the product. Tolcon AS cannot be held liable for any injury/damage to people/property as a result of failing to comply with the instructions below. Following these instructions will ensure the electrical and mechanical durability and reliability of your equipment.**

## **ORIGINAL INSTRUCTIONS**

### **Important information for environmentally-compatible disposal**

**IN SOME EU COUNTRIES THIS PRODUCT IS NOT WITHIN THE SCOPE OF NATIONAL LEGISLATION FOR THE IMPLEMENTATION OF THE WEEE DIRECTIVE, AND SEPARATE DISPOSAL AT THE END OF THE PRODUCT'S LIFETIME MAY NOT BE REQUIRED.**

This product complies with Directive 2012/19/EU. The barred bin symbol shown on the equipment indicates that at the end of its useful lifetime the product must be disposed of separately from domestic waste, and taken to an electrical/electronic waste recycling facility or retailer when purchasing new, similar equipment. Users are responsible for taking the equipment to a suitable waste recycling facility at the end of its lifetime, otherwise they may incur the fines stipulated in waste legislation. Separate waste disposal which facilitates environmentally-compatible equipment treatment and recycling processes helps to prevent potential negative effects on health and the environment, and encourages the reuse of the product's constituent materials. Contact your local waste disposal facility or retailer where you purchased the product for further information on the disposal services available. Manufacturers and importers meet their environmentally-friendly recycling, treatment and disposal obligations directly and indirectly by participating in a collective system.



# SUNCON ZERO 3(COD. V400/2-30X5FMS3)

ELECTRIC HEATER SPECIALLY DESIGNED TO ELIMINATE HUMIDITY IMMEDIATELY AND TO GENERATE HEAT AT ANY TYPE OF SITE

**SUNCON ZERO 3** is an industrial short-wave infrared heater specially designed to generate immediate heat on building sites and eliminate humidity in complete safety. The solid frame in lacquered steel, reinforced corners, large safety grilles and the tilt mechanism that switches the heater off automatically if it is struck hard or falls, make it ideal for use on sites in complete safety.



## **WARNING:**

SUNCON ZERO 3 IS A PROFESSIONAL DEVICE FOR EXCLUSIVE USE IN THE CONSTRUCTION SECTOR AND IT IS NOT SUITABLE FOR CIVIL USE OR DIFFERENT FUNCTIONS.

- This equipment has been professionally constructed. Its electrical and mechanical durability can be ensured by using it properly and carrying out regular maintenance.
- Do not use this product for purposes other than the one stated in these instructions.
- Check the integrity of the product after removing it from the packaging. If in any doubt, contact an authorised technical support centre immediately.
- Do not leave packaging within the reach of children or vulnerable individuals.
- Do not sit, or place objects, on the equipment.

### **WARNINGS - SAFETY**

- Using any electrical apparatus requires adherence to certain basic rules, such as not touching the apparatus with wet or damp hands and not touching it when barefoot.
- This equipment is not suitable for use by people (including children) with reduced physical, sensory or mental capabilities, or with a lack of experience or knowledge, unless they are supervised or have received instructions on using the equipment safely by someone who is responsible for their safety. Children must be supervised and not allowed to use the apparatus as a toy. NOTE: This heating equipment does not have an ambient temperature control device. Do not use in small rooms with occupants who cannot leave the room on their own, unless they are supervised continually.
- The equipment may be used by children over 8 years old and people with reduced physical, sensory or mental capabilities, or with a lack of experience or knowledge, provided they are supervised or have received instructions on using the equipment safely and understand any inherent risks.
- Children must not play with the equipment.
- Cleaning and maintenance to be carried out by the user must not be performed by unsupervised children.
- Children under 3 years old must be kept away from the equipment unless supervised continually.
- Children between 3 and 8 years old should only switch the equipment on/off if it is placed or installed in its normal position of operation, and they are supervised or given instructions on using the equipment safely and understand the risks.

- Children between 3 and 8 years old must not connect the plug, clean/adjust the equipment, or carry out maintenance to be implemented by the user.
- **WARNING - Some parts of this product may become very hot and cause burns.**
- Extreme care must be taken when children or vulnerable people are present.

#### WARNINGS - TECHNICAL INSTRUCTIONS

- Electrical repairs on this equipment must only be carried out by qualified personnel in accordance with legislation.
- Contact an authorised technician if any doubts arise during installation.
- **To avoid overheating do not cover the radiator!**
- If the power supply cable is damaged, it must be replaced by the manufacturer, technical support service, or other qualified personnel, in order to avoid risk.
- The heater must not be installed on shelving.
- Do not use the equipment in the presence of flammable vapours or substances such as alcohol, insecticides, petrol etc.
- If the equipment is to be removed permanently, switch it off and disconnect it from the electricity supply, placing it away from children or vulnerable individuals. It is also advisable to make it unusable by cutting its power supply cable.
- Do not use the equipment in the immediate vicinity of bathtubs, showers or swimming pools, and always observe safe distances stipulated in EC and CEI standards.
- The temperature of the equipment is particularly high when it is operating, therefore avoid touching hot surfaces with exposed skin. Before working on the equipment, switch it off and wait for at least 5 minutes.
- Do not modify the equipment in any way.
- Be especially careful when using in unattended areas.
- Visually check the integrity of the product regularly. Do not use in the event of a fault and contact an authorised technical support centre immediately.
- **The equipment must not be placed immediately beneath or in front of a fixed power outlet.**
- The equipment must always be installed in a horizontal position.
- The product must be connected correctly to an electrical system that complies with current standards and has an effective earthing system. If in doubt ask a qualified professional to carry out a thorough check.
- The product must be installed by a qualified professional in accordance with the instructions in this manual. Tolcon AS cannot be held liable for incorrect assembly and/or electrical connection which may harm/damage people/property.
- During installation a suitably sized omnipolar switch must be fitted, with contact aperture distance equal to or greater than 3 mm.
- Only connect the product to the electricity supply if the system voltage and capacity correspond to the plate data, and the maximum

power in particular. **No action is required to adjust the equipment to the rated frequency specified.**

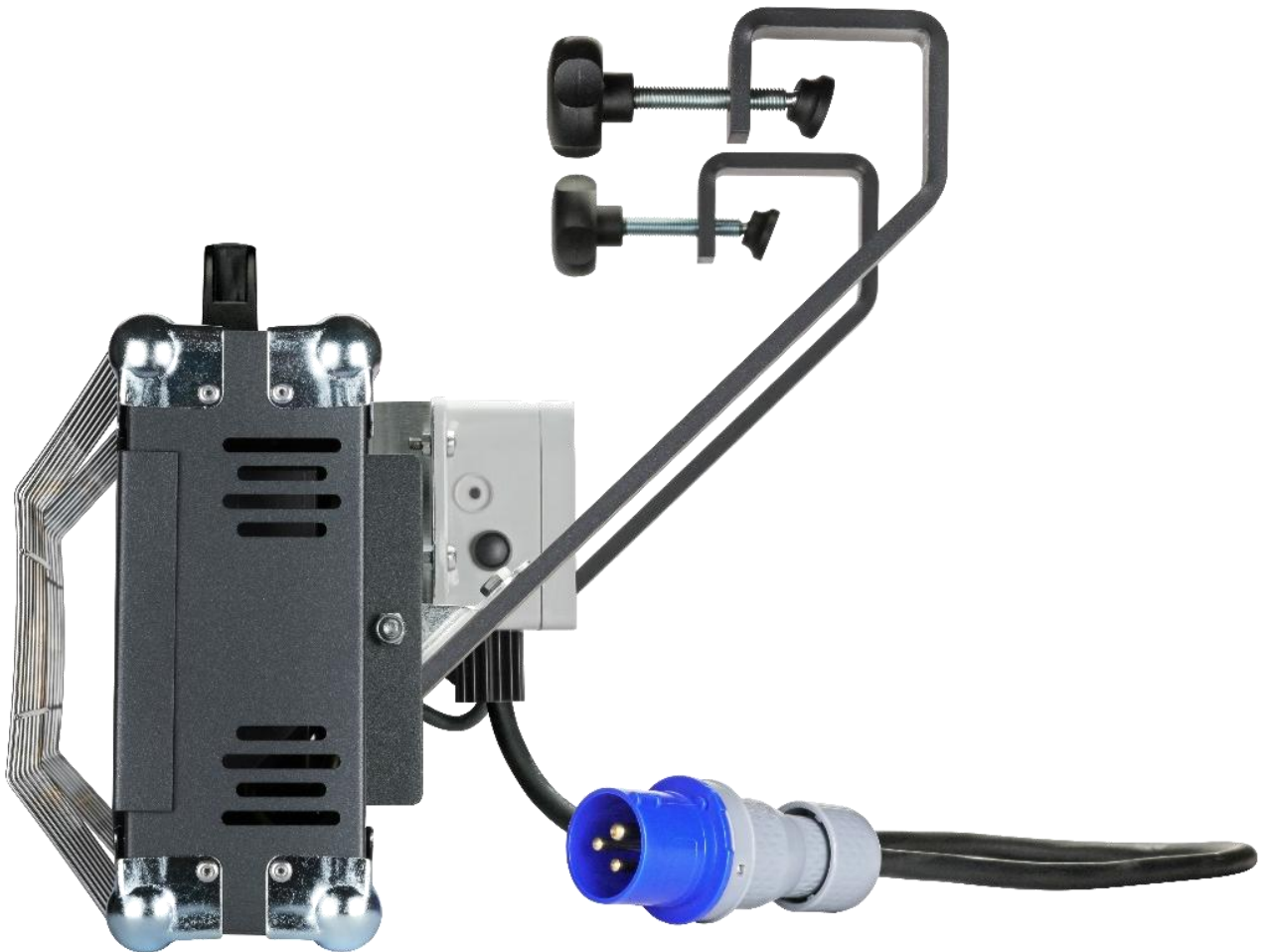
- Before cleaning or carrying out maintenance on the product, switch it off and disconnect it from the mains by opening the system switch.
- If the product falls or suffers a hard knock, have it checked immediately at an authorised technical support centre.
- During maintenance operations, do not touch the bulbs directly, use the end caps only. Bulbs can be damaged when touched using bare hands, invalidating the guarantee.
- If the surface of the bulb is accidentally touched by any object and/or hands, clean it immediately by rubbing it with a cloth dampened with methylated spirit.
- In the event of a fault and/or unsatisfactory operation, switch the equipment off and contact an authorised technical support centre immediately.
- Tolcon AS original spare parts must be used for any repairs. If the cable or plug is damaged, have it replaced promptly at an authorised technical support centre. **A cable with T180 characteristics must be used.**
- Switch the main system switch off when: a) an operational fault transpires; b) external cleaning is to be carried out; c) the equipment is not to be used for a lengthy period.
- Do not cover or obstruct the equipment during operation.
- To prevent fire hazards, do not install equipment with radiating elements near or facing curtains, beds or other objects or materials that are flammable. A minimum distance of 2 meters is to be considered as the distance to flammable materials, when installing with a reduced minimum distance, the surface temperature of materials being heated must be monitored in all cases to prevent the risk of fire or damage.
- Do not use the equipment in combination with programmers, timers or other devices that can switch it on automatically in the absence of an operator.
- **When the equipment is connected directly to the mains:** There must be an omnipolar switch with a contact aperture distance that enables complete disconnection from the supply in overvoltage category III conditions, as per the installation requirements.

## 1. TECHNICAL DATA

- Supply: 220-240VAC 50/60Hz
- Power: 3.0 kW
- Heater dimensions: 82x23x17.5 cm
- Net weight: 7.4 Kg
- Class of protection: IPX5

## 2. FEATURES

- Safety grilles.
- ON/OFF button with 20/40/60/80/100% heat regulation. Soft start.
- LED power light
- IP44 waterproof industrial plug
- Steel hooks for scaffolding and framework



### 3. INSTALLATION OF V400/2-30X5FMS3

- Installation height as required.
- Recommended installation angle: 0-45°
- Beam of heat/range: 2 - 4 m
- Distance between units: 3 - 4 m





Mobile telescopic stand on wheels  
with brake.

Height adjustable up to 180 cm  
(optional)



## 4. Use

1. Connect V400/2-30X5FMS3 to the electricity supply.
2. Switch V400/2-30X5FMS3 on. Press the button on the apparatus.
3. Adjust the heat output to the level required.

The heat output is set (1 MIN - 2 - 3 MED - 4 - 5 MAX - OFF)

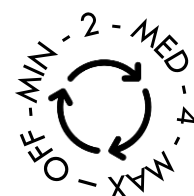
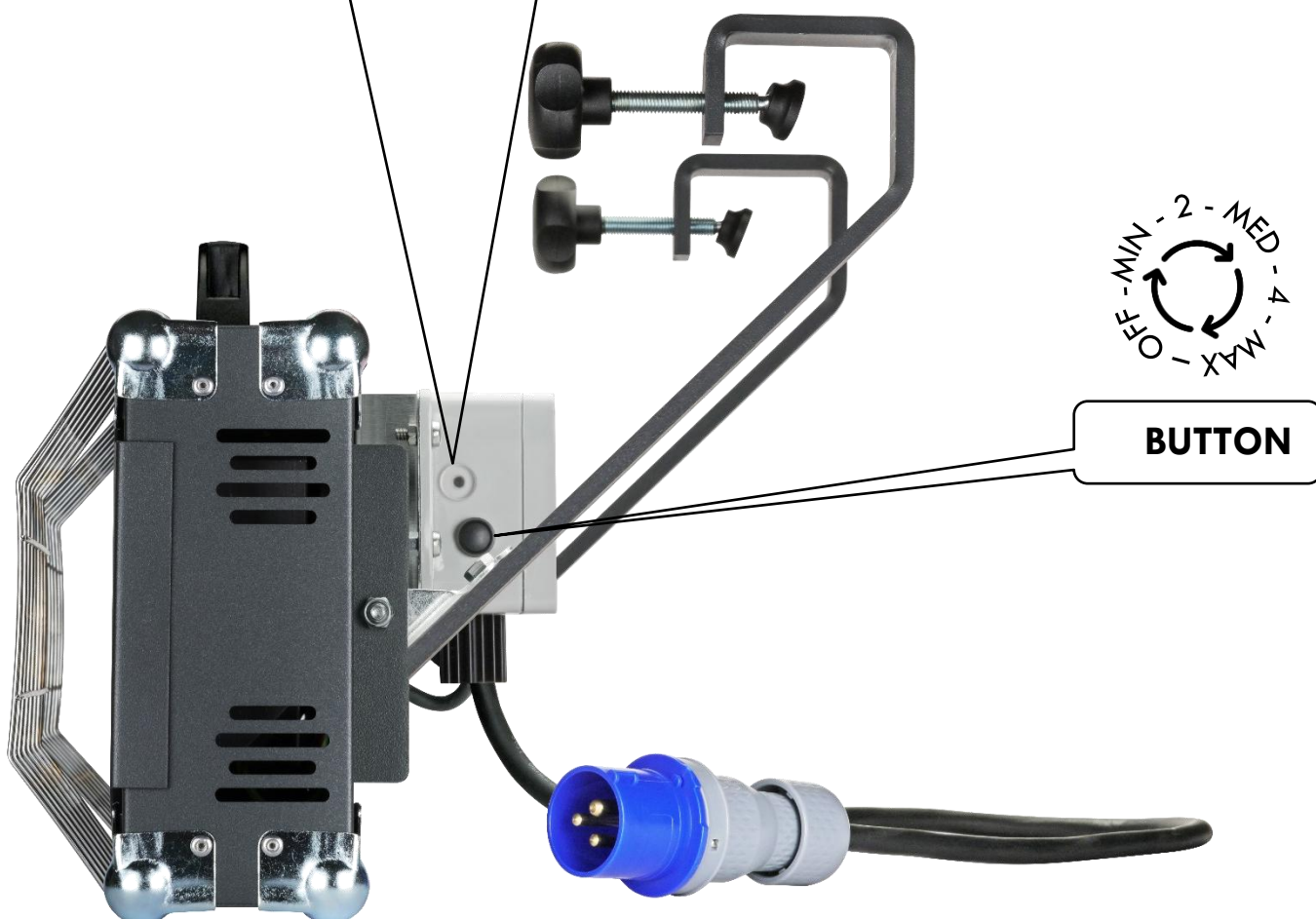
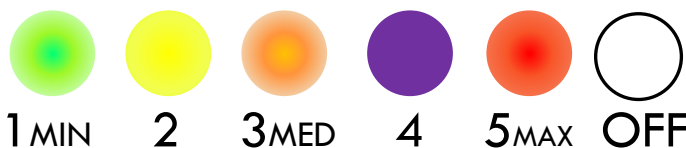
by going through a stepped cycle i.e. pressing the button repeatedly.

4. Switch the heater OFF by holding the button down.

(LED off)



The **LED** will change colour  
(**Green, Yellow, Orange, Magenta, Red**)  
depending on the heat setting.



## TILT ANTI-ROLLOVER SENSOR

**TILT  
ON**

**1**

**Start**



**1(5)sec.**

**press and hold  
the button**

**1.1**

**STOP**



**5(5)sec.**



**release the  
button when the  
led turns red**

**1.2**

**LED  
Yellow**



1

## TILT ANTI-ROLLOVER SENSOR

**Start**



1(5)sec.

press and hold  
the button

**2.1**

**TILT  
OFF**

**2**

**STOP**

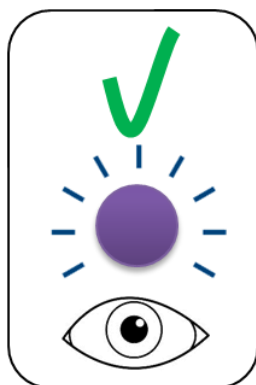


5(5)sec.

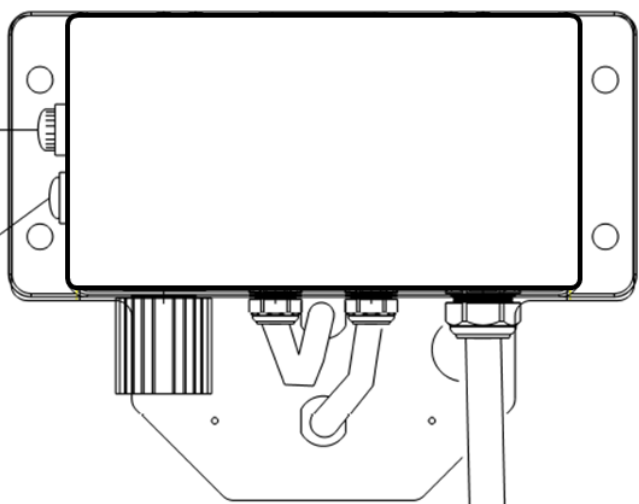


release the  
button when the  
led turns red

**2.2**



**LED  
Magenta**



## 5. CLEANING

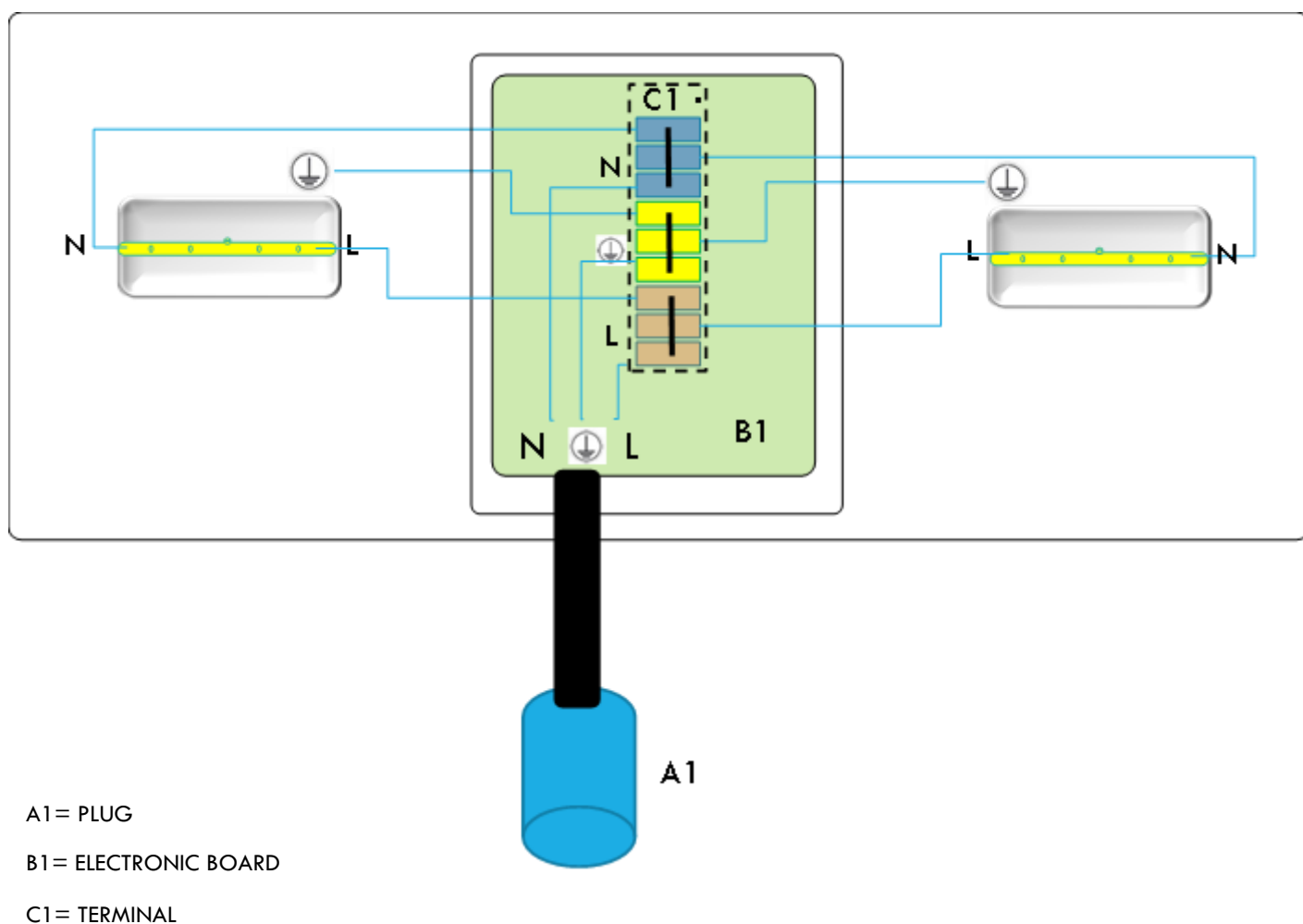
The reflector and bulbs must be kept clean to maintain proper heat efficiency. Only clean the equipment with methylated spirit and a clean cloth. Other products may damage the equipment.

## 6. BULB REPLACEMENT

The V400/2-30X5FMS3 guarantee does not cover bulb replacement or repair.

For bulb replacement contact a qualified professional or an authorised support centre.

## 7. ELECTRICAL DIAGRAM



## 8. INSTRUCTIONS ONLY AND EXCLUSIVELY FOR TECHNICAL ASSISTANCE AND MAINTENANCE CENTER.

### BULB REPLACEMENT INSTRUCTIONS

**General:** the heater must be dismantled to replace the BULB, and it is advisable to have it replaced by a qualified electrician.

**N.B.:** The quartz bulb must be kept clean and free from contaminants. Avoid touching the bulb with the fingers as natural body oils will reduce bulb lifetime significantly. The highly polished reflector must be kept clean and free from dust, dirt, fingerprints etc. to enable maximum heat output and safe operation. A dirty reflector will reduce bulb lifetime. If someone does touch the bulb or deflector, it must be cleaned with methylated spirit before use. A pad dampened with spirit is provided with the bulb for this purpose. Using fabric gloves to handle the emitter will also help to keep it clean during this process.

#### WARNING:

**RISK OF ELECTRIC SHOCK. DISCONNECT THE POWER SUPPLY TO THE HEATER AT THE MAIN ELECTRICAL SWITCHBOARD BEFORE ATTEMPTING REPAIRS.**

~~It is advisable to remove the heater from the assembly brackets, disconnect the electrical connection and place it on a stable work surface to replace the bulb.~~

1. Remove the front grille using the ten screws as shown in figure 1.

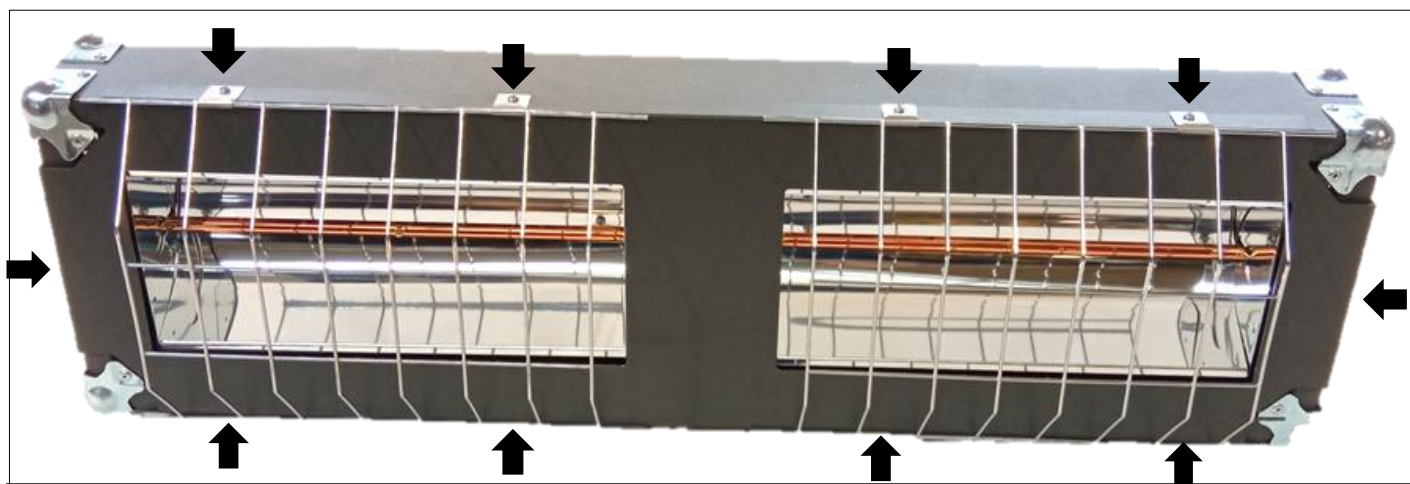


Fig. 1 Screws securing the front grille.

2. Remove the four screws that secure the board unit, then remove the two screws that correspond to the bulb to be replaced from the back of the apparatus, to enable access to the reflector as shown in figure 2.

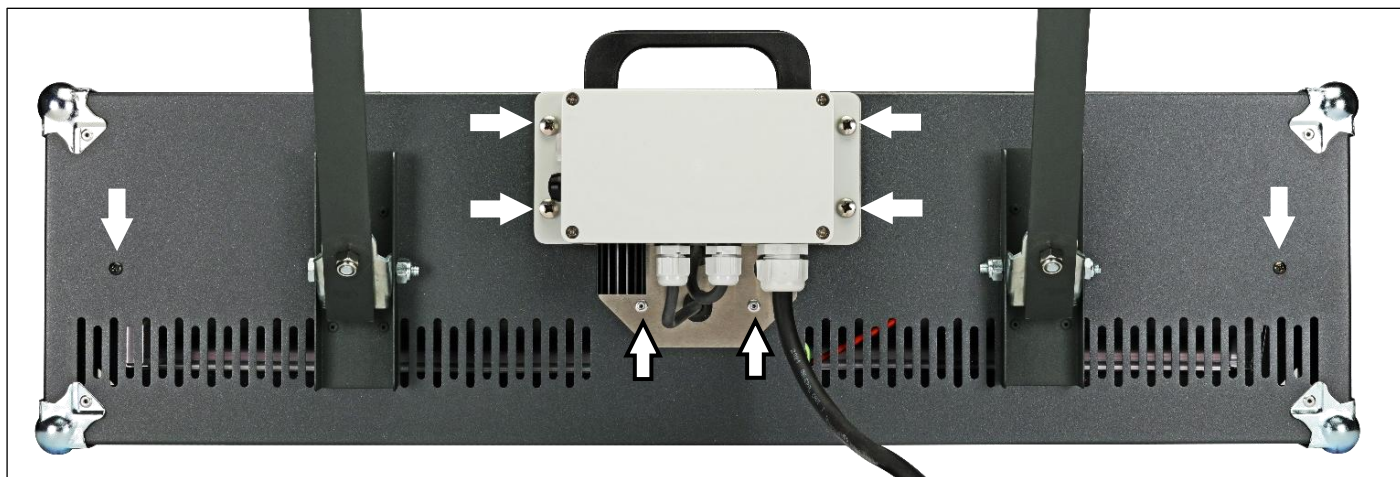
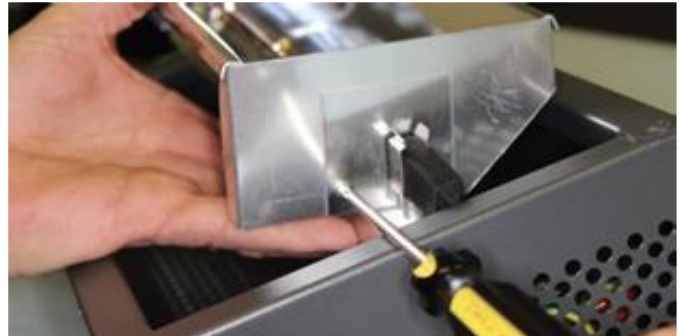


Fig. 2 Screws that secure the aluminium reflectors.

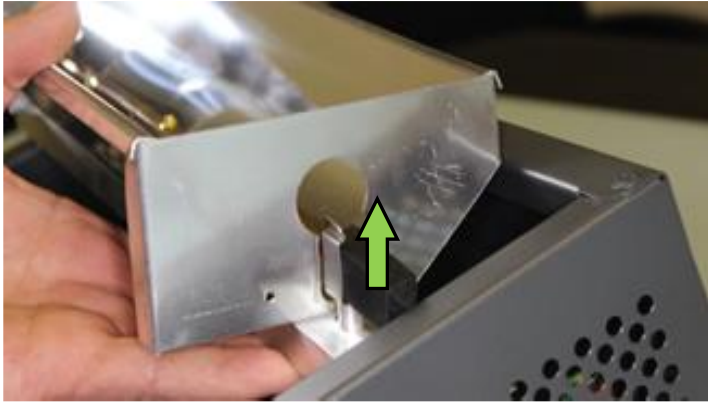
3. Once the reflector has been removed from the structure proceed by removing the side guards as in figure 3.

4. Repeat at the other end.

5. Open the retaining clips carefully and lift the ends of the bulb at the black silicone tubes as shown in figure 4.



**Fig. 3 Remove the reflector guards.**



**Fig. 4 Remove the bulb from the clips.**

6. Remove the two tubes that cover the end of the bulb and disconnect the two faston terminals that join the bulb wires. (if the caps used are worn, remove them by cutting the wires alongside the two faston terminals) as shown in figures 5 and 6.



**Fig. 5 Silicone rubber tubes.**

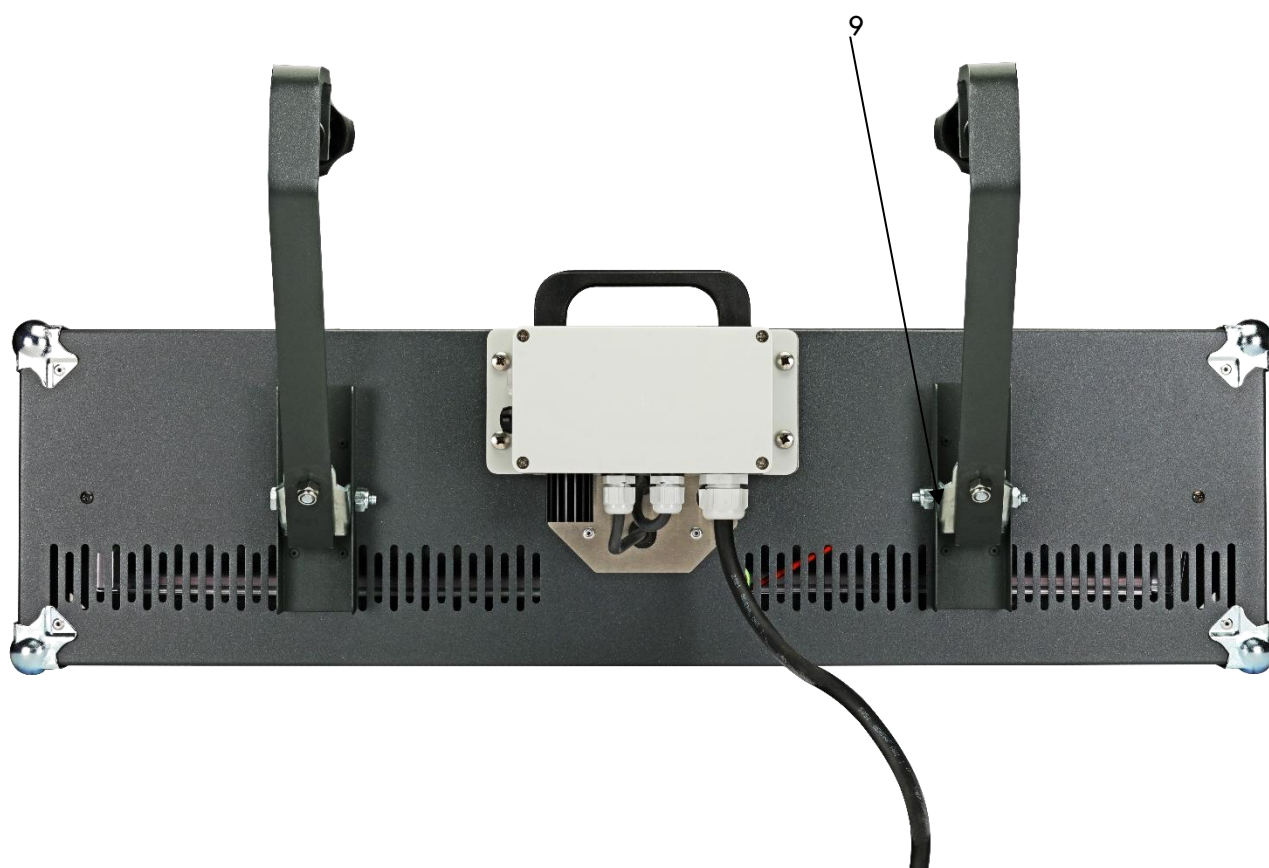
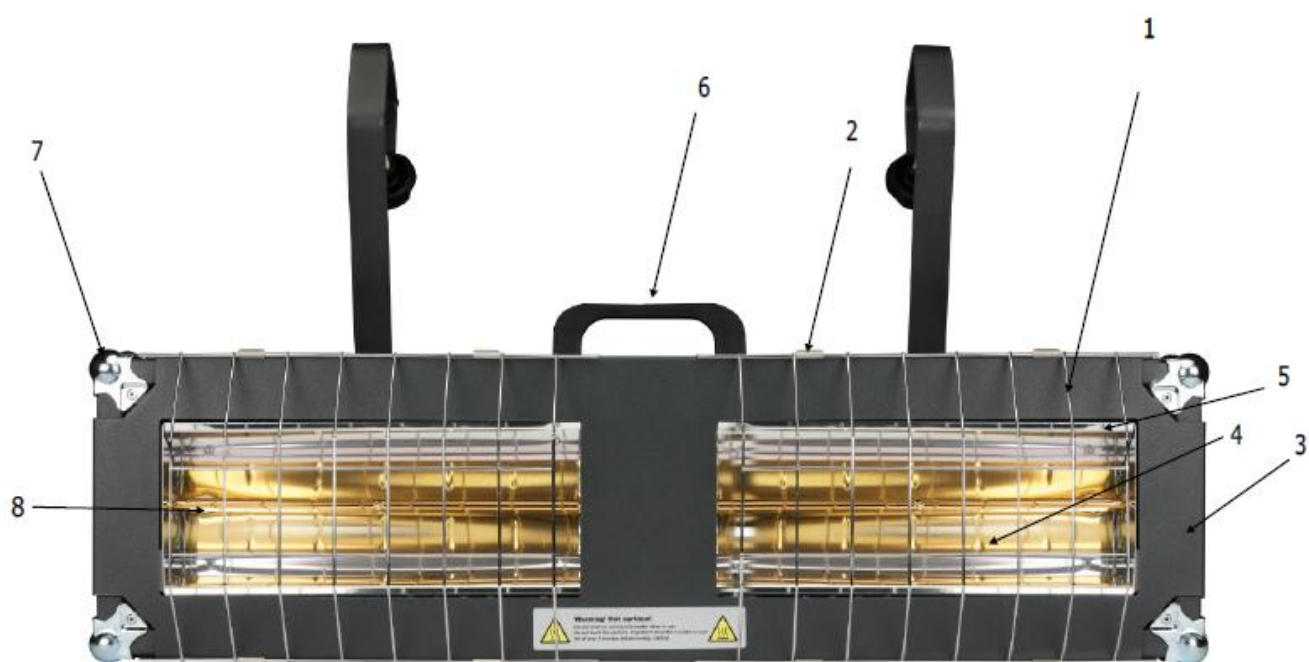


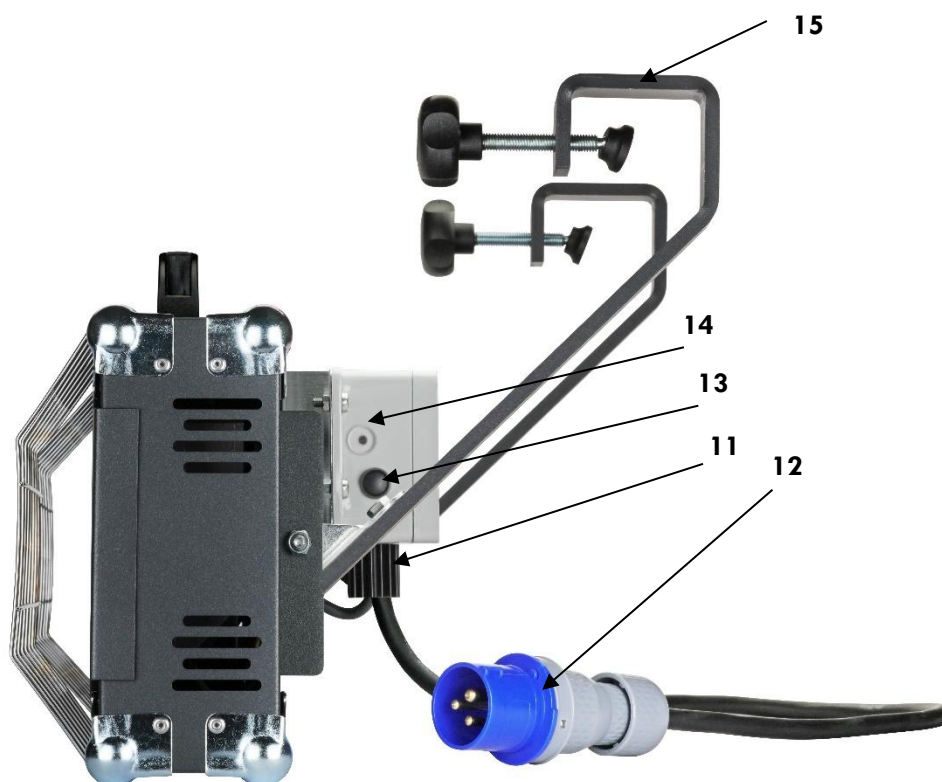
**Fig. 6**

7. Carefully remove the new bulb from its packaging, being mindful not to touch the bulb with your fingers. Check the details on the ceramic end of the bulb to ensure that the voltage and rated power correspond to the old bulb.

### **WARNING**

The male faston terminals on the bulb are very fragile. HANDLE VERY CAREFULLY





| <u>No.</u> | <u>Code</u>    | <u>Description</u>   | <u>Quantity</u> |
|------------|----------------|----------------------|-----------------|
| 1          | EGRIGLIA       | Front grille         | 2               |
| 2          | EMOLLETTA5S    | Grille tabs          | 8               |
| 3          | ECORNICE4FMS   | Front frame          | 1               |
| 4          | ERIFLETHP      | Reflector            | 2               |
| 5          | ETESTATA400    | Side end section     | 4               |
| 6          | MAN1           | Handle               | 1               |
| 7          | EPAR41143      | Corner protectors    | 8               |
| 8          | SP990517       | Bulb V400/2-30X5FMS3 | 2               |
| 9          | ESNODO         | Rear joint           | 2               |
| 10         | ESTAFFAPV400FM | Rear bracket         | 2               |
| 11         | EDIS5          | Dissipator           | 1               |
| 12         | ESPINA57       | 16A 2P+E IP44 plug   | 1               |
| 13         | EPULSANTE      | Button               | 1               |
| 14         | EVITEM6X-16    | Transparent screw    | 1               |

| <b><u>No.</u></b> | <b><u>Code</u></b>  | <b><u>Description</u></b>                                        |
|-------------------|---------------------|------------------------------------------------------------------|
| <b>15</b>         | <b>Fixation kit</b> | <b>Fixation kit (composed by 3 elements not sold separately)</b> |
|                   | <b>EVITE10X80S</b>  |                                                                  |
|                   | <b>ESPINTORE6</b>   |                                                                  |
|                   | <b>EVOLANT</b>      |                                                                  |



## CERTIFICATE OF GUARANTEE - THE GUARANTEE EXCLUDE REPLACEMENTS OF THE BULB

We congratulate you on the purchase of our patio heaters SUNCON ZERO 3 INFRARED IRK. **Validity 2 years** 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 (see bulb etc.). 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 TOLCON AS's factory or to one of the authorized distributors. All transport costs are to be paid by the customer.

## CERTIFICATE OF GUARANTEE

APPLIANCE No.

DATE OF PURCHASE

DEALER

INVOICE NO.

*THE USER MUST FILL IN THE CERTIFICATE FOR THE GUARANTEE TO BE EFFECTIVE.*

CE EAC

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Manufactured in the EU for Tolcon by  
STAR PROGETTI Tecnologie Applicate SpA

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