



Introduction

Congratulations on purchasing what we believe is the highest quality Infrared Heater in South Africa. Our 15 years' experience in designing effective Infrared heaters resulted in our latest model range the Generation 5, or G5 for short

It will provide you with years of economical and effective heating. Our heaters are virtually maintenance free and easy to install.

Reading this instruction manual will assist you to properly install and operate your new infrared heater.

The following Features distinguish the Gen 5 from the competition:

- New style full and low-profile designs
- German Miro reflector (96% electricity converted to heat)
- Leading Schott Nextrema glass cover (*)
- Completely rust free: units are constructed from high grade aluminium and stainless steel
- Elements are quick and easy to replace
- Manufactured in South Africa, parts available locally
- Dimmable to control heat and save electricity (dimmer sold separately)

G5 Models and Variants

We have the following Gen 5 Model available.
All models are available in FerroBlack (BK) or PebbleGrey (PG).

Models	G5 Glow		G5 Carbon	G5 Gold	G5 Ruby	
Wattage	900 watt 2000 Watt ULG+		500, 900	1500, 2000	1500, 2000	
	Carbon		and 1800 (2 x 900)	and 3000 (2 x 1500)	and 3000 (2 x 1500)	





Safety Information

Please follow the safety instructions below before installation and when using the appliance:



Installation

- The appliance must be installed by a qualified electrician in accordance with relevant local building and fire safety regulations.
- When installing the heater, ensure that the lower edge of the unit is at least 180 cm (1.8m) from the
 ground and the safety clearances from the wall and ceiling set out in this manual are maintained.
 Always maintain a distance from the heating surface of at least 120 cm from textiles, cloth and other
 easy inflammable soft materials.
- The heater must be properly fixed using the supplied brackets with permanent wall plugs and/or screws.
- The heater must always be earthed.
- If the heater is installed without a plug, or with other means for disconnection from the supply, a double pole isolator should be used.
- When installed in a bathroom/jacuzzi area, the heater, switches, and other controls must be positioned out of reach of anyone in the bath/jacuzzi.
- The heater should be installed only on cement, steel, or concrete surfaces and proper insulation must be ensured if installing on a wooden surface.

Usage

- The unit must only be used with an approved isolating system, which must be built in the existing electrical installation acc. to the facility regulations. The heater comes as standard with a separate open-ended cable for connection purposes.
- WARNING: This unit is not equipped with an application to regulate the room temperature. The
 heater must not be used in small rooms inhabited by people who cannot leave the room unaided,
 unless constant supervision is ensured.
- CAUTION: Some parts of the unit get very hot and may cause burns! high cautiousness is imperative,
 if children or persons with reduced physical, sensory or mental abilities or lack of experience and/or
 knowledge. are present in the room.
- The cable must not be crushed, squeezed or damaged. If damaged, it must be replaced by the manufacturer, its service agent, or similarly qualified persons to avoid any hazards.
- Do not cover either part of the front or the entire front of the radiant heater. Do not touch any part of the heater during operation and up to 30 minutes after switching it off.
- Ensure that cables, furniture, flammable materials or other objects do not come into contact with the surface of the radiant heater and never cover the unit. Under no circumstances should the unit be covered or enclosed with insulating or similar materials. Adequate ventilation sur- rounding the heater must be ensured at any time. Ledgers, beams and rafters must not be cut into or grooved to install the infrared heater.
- Disconnect the heater from the power supply before cleaning it, adjusting the angle or removing it from the wall/ceiling. Wait until the heating elements are not glowing anymore and the housing is noticeably cooled down.
- The Quartz Halogen or Carbon elements must never be touched, as this may cause premature element failure. If the elements are touched, refer to the paragraph titled "Cleaning the heater" on page 8 and follow the instructions carefully before switching on the heater.
- Remove the foam that protects the lamp during transit before operating the heater.
- Always remember to switch off the unit after use.

Included in the box

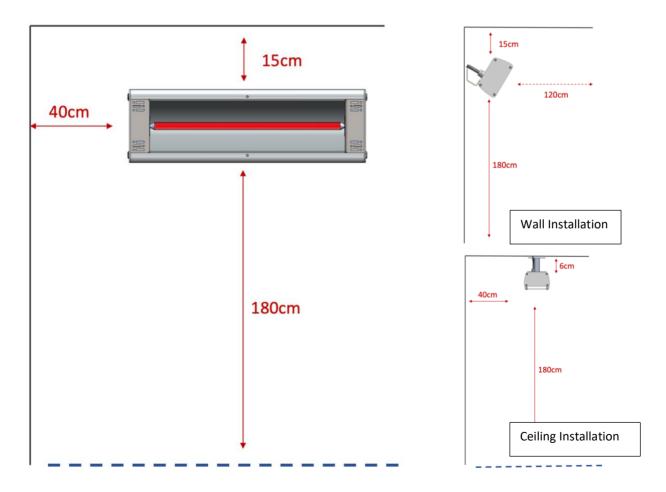
- Your new Striking Energy G5 infrared heater (two 4 mm hex screws already located in the bracket slot on the heater).
- Sealed packet with the following items:
 - One or Two wall brackets (depending on Model)
 - o 2 or 4 x 6 mm Wall screws (to mount brackets to the wall)
 - Two 4 mm hex nuts
- Instruction Card

Heater Installation

Minimum Safe Distances (Wall and Ceiling)

The following safe distances should always be adhered to. Always ensure that heaters are mounted on **non-combustible** material.

*When a picture of a heater is used, it represents all models in our range. While there may be some slight variations in size or appearance between models, the picture serves as a general representation of the style and design of our heaters."



Unpacking

- Carefully remove the heater from the box.
- Remove all plastic, white polystyrene and/or any other packing aids.
- Remove the protective foam or any other packaging material from behind the element.
- Ensure that all parts (see **Included in the box** below) are retrieved from the box.
- Never touch the Quartz Halogen elements. If you do need to clean the element before switching the heater on for the first time, please refer to the paragraph titled "Cleaning the heater" and follow the instructions carefully.

Choosing position to install

Understanding the characteristics of infrared heat will help you select your ideal position. This is not an exact science, and this discussion can serve as a guideline.

Height vs wattage: The heater has an 80-85° spread angle, meaning that the higher the installation, the less heat reaches the target. The ideal height for a 1500-watt heater is between 1.8 m and 2.5 m. If installation is only possible higher than 3 m, then consider the 3000-watt heater. Sometimes it is more economical in terms of cost to rather use a 3000-watt heater at a height of 3.5 m, than two 1500-watt heaters at the same height.

Position the heater according to the heat spread. You can use the diagram below to decide on the optimal height to mount your new heater. It is based on an average level of optimal comfort for each heater and is generally the optimal heigh you could choose.

Shade: Think of infrared heat as being like light rays, which means it can cast shadows. Imagine your heater is a light. The shaded areas will not receive direct heat, although it receives a lower level of "scattered" light. The more heaters you install in an area, the higher the "scattered heat" will be. If you use more than one heater in a specific area, try and position them either in a zig-zag pattern or opposite each other.

Direction: At 12 o'clock (noon) the sun shines almost directly from above and is warmer than during early morning, because there are less shaded areas. This is the same with infrared. The larger the angle of installation (when wall mounted) the more shade there is. For safety reasons, units connected to sensors and/or dimmers must not be installed facing downwards.

Current available: Each 1500-watt heater draws about 8 amperes, while a 3000-watt heater draws about 16 amperes. A typical residential "trip switch" can accommodate two 1500-watt heaters or one 3000-watt heater. If you require more than that, you will have to run a separate supply from the distribution box. Industrial clients must ensure that they have sufficient amperes available for larger installations. **To be legally complaint, all installations must be done by an electrician.**

Location: Always keep the area that you are living in, as well as the positioning of the installation (e.g., south) in mind. You will have to compensate for this when choosing the optimal place and angle of installation. You can either install more heaters by moving them closer together or use the double element heaters.

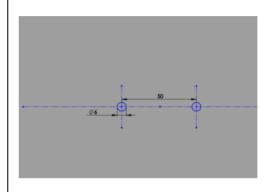
• The heater can be used outside, but must be sheltered from any rain or water.

Installation of the heater

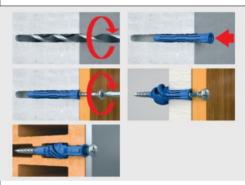
Decide on the position / location and adhering to all safety instructions stipulated on page 4

Wall installation

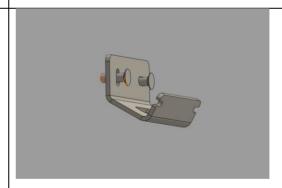
 Mark two holes, 50mm from each other on the same horizontal level where the heater must be installed



2. **For Masonry / Concrete installation:** Drill a 6 mm hole about 70 mm deep on both positions. The supplied Raw plugs do offer substantial improved grip.

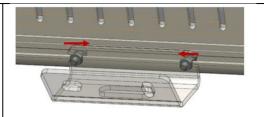


- 3. Fix the Wall bracket with the 2-x supplied Raw plugs into the wall
- Other non-combustible surfaces: Use Strong enough screws that are minimum of 3.5mm thickness and 25mm length in place of the Rawl plugs
- 5. Ensure that the bracket is level and tightly fixed as per the diagram on the right. Use the slots in the bracket to adjust the bracket up and down / left or right.
- 6. Fix the heater to the brackets using the supplied M4 hex bolt.

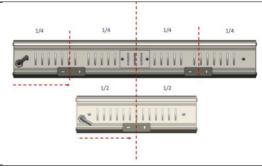




- Ensure that both hex bolts/ screws are sitting tightly on inside the slot of the bracket
- 8. Tighten the screws with spanner or pliers



9. Single element heaters: Ensure that the ONE Bracket is space in the centre
Twin element heaters: Ensure that both brackets are evenly spaces roughly dividing the heater in 3rds.



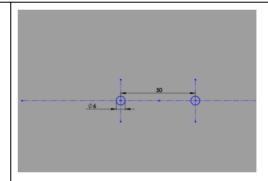
Ceiling Installation (downward installation, parallel to floor)

Ceiling Bracket not suitable for any Twin element heater

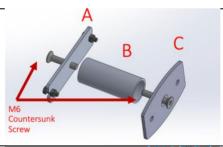
The following Instructions is when the optional Ceiling Bracket is used. The length of the Ceiling bracket will be between 60mm and 300mm. The fitment instructions are the same.

 Mark two holes on the ceiling, 50mm from each other on the same line level where the heater must be installed

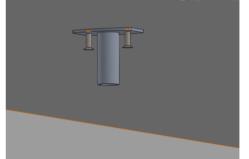
Adhere to all safety distances as indicated on page 4



2. Unscrew the heaterplate (A) from the celling Bracket using a Allen Key. Leave Extender pipe (B) and Ceiling plate (C) attached.



Fix the top part of the ceiling bracket (B+C) with the 2-x supplied Raw plugs into the ceiling as per the marked holes.
 (See points 2, 3, 4 and 5 under Wall installation for details on how to fix the wallplate with Rawl plugs)



Ceiling bracket ordered separate from the heater 4. You will need to move one of the M4 Hex bolts to the opposite slot of the heater first. A) Unscrew the 4 round sideplate bolts and remove the sideplate B) Slide one of the M4 Bolts out and insert it in the opposite slot as indicated on the picture C) Close the Sideplate again 5. Fix the heaterplate (A) to the bottom of the heater using the supplied M4 hex bolt. Ensure that the M6 countersink screw is in position as per the diagram 6. Ensure bracket is positioned in the middle of the heater. 7. Ensure that both hex bolts/ screws are sitting tightly on inside the slot of the bracket 8. Tighten the screws with spanner or pliers 9. BEFORE you connect the electrical cable screw the 2 parts together until the bottom heater portion is securly fit to the top bracket 10. The heater can be hand tightened to the top portion of the bracket. It will be posible to swivel the heater parralel or perpendicular to the brack. As long as it is tighten.

Electrical Connection

All our heaters come standard with a special silicone wire that can withstand the heat. Before connecting the heater to the power supply, please carefully review the following points:



Fitting a standard plug to the supply cord:

To connect the heater, fit a standard plug to the supply cord. Ensure that the plug is compatible with the wall socket and can handle the appropriate amperage. Adhere to the Wiring Standards of your country or region.



Connect to an open end to a junction box: Alternatively, you can connect the open end of the heater's supply cord to a junction box using suitable and approved connectors. Ensure that the connectors are appropriate for the purpose and meet the necessary safety standards.



Additional approved connectors: In some cases, specific connectors approved under the South African standards may be required for certain installations, such as connecting the heater to a ceiling-mounted power source. Use these additional connectors only if they comply with the relevant safety standards.

Extending the cable: If necessary, you may use a cable extension to connect the heater to the power supply. However, ensure that the extension cord has a nominal cross-sectional area and rated current suitable for the appliance's requirements. Using an inadequate extension cord may result in overheating or other hazards.

Important safety precautions:

- Avoid installing the heater directly below the electrical supply. This placement can pose safety risks due to potential contact between the heater and the power source.
- In the event that the supply cord becomes damaged, it is crucial to replace it with a similar SILICONE cord provided by the manufacturer. Do not substitute it with any other type of cable, as it may compromise the safety and proper functioning of the heater.

Please follow these instructions carefully to ensure a safe and reliable connection between the heater and the power supply. If you have any doubts or questions, contact the manufacturer for further guidance.

Operating the heater

Using the G5 heater range is simple: switch them on when you need heat and off when you don't. Infrared heat is immediate, so there's no need to pre-heat an area.

Additionally, we offer a range of accessories that allow for remote switching and dimming of the heater to customize your heating experienceThere is also a range of accessories available that will allow remote switching and dimming of the heater.

Maintenance

Cleaning

- To keep your heater in top condition, clean it at least once a year.
- If you live in a coastal area, cleaning may be required once a quarter.
- Before cleaning, disconnect the heater from the electrical supply and allow it to cool down.
 Use compressed air or a damp clean paper towel to remove dust from the surface of the heater and reflector.
- Carefully remove the Nextrema Glass panel by
 - first remove one of the side plates by loosening the 4 screws
 - Carefully slide the glass panel out of the body
 - Make a note of the positioning of the glass clip when you replace he glass
- If you accidentally touch the element, wipe it gently with a paper towel or soft cloth dipped in alcohol, acetone (like Cutex remover), or methylated spirits.
- Do not use soap to clean the element, as it can damage it.
- Regular cleaning will ensure optimal reflection of the infrared beams and prolong the life of the heater."

Replacing Element

To watch an instructional video:				
Scan the 3D Barcode or				
 Go to http://youtu.be/6uEf6qXCxdY 				

Dismantling

- Disconnect the power supply completely. Ensure that the element is not illuminated and that both the heater and element are cool.
- Remove the four hex screws and side plates on both sides.

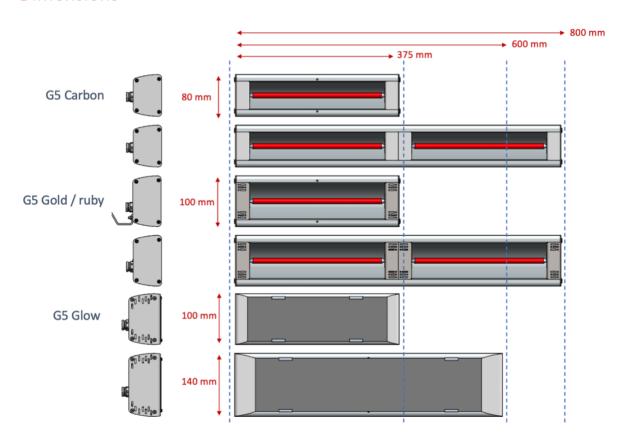
Single Element Heaters	Double Element heaters		
 G5 Glow: Carefully remove the Nextrema Glass panel by first remove one of the side plates by loosening the 4 screws Carefully slide the glass panel out of the body 	Remove the additional two screws at the back of the heater		

Make a note of the positioning of the glass clip when you replace he glass Locate the two reusable white ceramic connectors linking the brown and blue electrical wires coming from the element. Unscrew them without damaging the wires or connectors. Unscrew the third ceramic connector located between the two elements. Unbend the small reflective inserts back to 90° and push them out carefully. Lift the element so that you can slide it through the large openings. Proceed to carefully slide the element out one side and remove from the heater. Remove your new element from its box. Tear the box open rather than pulling by the white ceramic caps on the element, as it may easily break and render the element useless. Proceed to insert the element from the front of the heater. Feed one of the cables through the opening and follow with the ceramic cap. Carefully push the element through so that the other side can be inserted Lower the element into the smaller parts of the openings. Assembly Replace the small reflective inserts carefully. Bend them back towards each other, but only about ¾ of the way in order to allow for easy removal in the future. Repeat steps 1 to 3 for the second element Reconnect the wires by first sufficiently merging the metal wires (twist together tightly with pliers) and then tightly connecting the small ceramic connector blocks. Take special care that no metal parts of the wires are exposed when finished as it may cause heater failure. The wires from the elements need to be shortened to about 100 mm in length and connected together with the wire present in the middle of the reflector Reconnect the side plates. If possible, ensure that the wires do not directly touch the reflector, as this will help to prolong the life of all the parts. Replace the Nextrema Glass by inserting the 4 brackets into the guides of the body and then insert the glass into the brackets Reconnect the electricity. NB If the supply cord is damaged, it must be replaced by a similar SILICONE cord available from the manufacturer. Do not replace this cable with any other cable

Technical Data

Series	G5 Glow			G5 Carbon		G5 Gold		G5 Ruby		
Models	G5 C 900 Glow	G5 + 2000 Glow	G5 + 2000 Hex	G5 C 500 / 900	G5 C 1800	G5 Gold 1500 / 2000	G5 Gold 3000	G5 Ruby 1500/2000	G5 R 3000	
Dimensions	370mm (W) x 114mm (H) x 155mm (D)	605mm (W) x 142mm (H) x 155mm (D)	605mm (W) x 142mm (H) x 155mm (D)	370mm (W) x 94mm (H) x 140mm (D)	735mm (W) x 94mm (H) x 140mm (D)	370mm (W) x 114mm (H) x 140mm (D)	735mm (W) x 114mm (H) x 140mm (D)	370mm (W) x 114mm (H) x 140mm (D)	735mm (W) x 114mm (H) x 140mm (D)	
Weight	1.5kg	1.5kg	1.5kg	1.5kg	1.5kg	1.5kg	1.5kg	1.5kg	1.5kg	
Materials used	Powder coated 6063 Aluminium Extrusion, Stainless Fasteners									
Heating Technology										
Frequency	Medium Wave 0.9Kw	Medium Wave 2Kw	Medium Wave 2Kw	Medium Wave 0.5 or 0.9Kw	Medium Wave 2 x 0.9Kw	Short Wave 1,5 or 2Kw	Short Wave 3Kw	Short Wave 1,5 or 2Kw	Short Wave 3Kw	
Element model Used	EL C 900	EL G+ 2000	EL G+ 2000	EL C 500 or 900	2 x EL C 900	EL G 1500 or 2000	2 x EL G 1500	EL R 1500 or 2000	2 x EL R 1500	
Reflector		Miro reflector with 96% deflectability								
Technical Specification										
Operating Voltage	220-240 V AC ~, 50/60 Hz	220-240 V AC ~, 50/60 Hz	220-240 V AC ~, 50/60 Hz	220-240 V AC ~, 50/60 Hz	220-240 V AC ~, 50/60 Hz	220-240 V AC ~, 50/60 Hz	220-240 V AC ~, 50/60 Hz	220-240 V AC ~, 50/60 Hz	220-240 V AC ~, 50/60 Hz	
Power @ 230 volt	900 watt	2000 watt	2000 watt	500 / 900 watt	1800 watt	1500 / 2000 watt	3000 watt	1500 / 2000 watt	3000 watt	
Current	3.9	8.7	8.7	2.17 / 3.9	7.82	6.5 / 8.7	13	6.5 / 8.7	13	
Power Card	0,9m	0,9m	0,9m	0,5m	0,9m	0,9m	0,9m	0,5m	0,5m	
Max. housing temperature (Top and back)	≤ 150 °C	≤ 150 °C	≤ 150 °C	≤ 100 °C	≤ 100 °C	≤ 150 °C	≤ 150 °C	≤ 150 °C	≤ 150 °C	

Dimensions



Warranty Information

Striking Energy. - STANDARD EQUIPMENT WARRANTY

Summary

This passage explains the procedures and conditions for making warranty claims for products manufactured by Striking Energy. If a customer discovers a defect in a product, they must notify Striking Energy in writing within 30 days of discovering the defect. If Striking Energy determines that the reported problem is covered by the warranty, the customer must obtain a return authorization from Striking Energy before shipping the defective product to a service facility designated by Striking Energy. Striking Energy will then provide new or refurbished equipment to replace the defective equipment. However, Striking Energy is not obligated to service or replace equipment that has been damaged or modified, or to provide support for third-party software.

Striking Energy warrants that all Striking Energy. manufactured equipment will be free of any defect in materials or workmanship for the following period:

- G5 Space Heaters 5 years (Excluding coastal usage)
- G5 Coastal Usage 1 Year (replicable reflector)
- All electronic components 1 year.

Warranty begins from the date of shipment from a Striking Energy facility. The warranty is extended to customers and applies to all Striking Energy manufactured equipment purchased, installed, and used for the purpose for which such equipment was originally designed. The above warranties cover only defects arising under normal use and do not include malfunctions or failures resulting from misuse, abuse, neglect, alteration, problems with electrical power, usage not in accordance with product instructions, acts of nature, or improper installation or repairs made by anyone other than Striking Energy or a Striking Energy authorised third-party service provider. Striking Energy reserves the right to substitute functionally equivalent new or serviceable used parts.

WARRANTY CLAIMS AND PROCEDURES

- During the applicable Standard Equipment Warranty Period outlined above, customer's sole and exclusive remedy for any breach of the Standard Equipment Warranty will be, at Striking Energy's sole discretion and option, the repair or replacement of the defective product. Components that customer claims to be defective must be available to Striking Energy for inspection and evaluation. To be entitled to rights under the Standard Equipment Warranty, the customer must notify Striking Energy in writing within thirty (30) days after discovering a suspected defect in any product, but in any event prior to the expiration of the applicable Standard Equipment Warranty Period. Notice to a Striking Energy dealer, systems integrator, sales representative or other third party is not noticed to Striking Energy. Following its receipt of any such customer notice, Striking Energy will determine whether the reported problem is covered by this Standard Equipment Warranty. If Striking Energy determines that the problem is covered, Striking Energy will authorise repair or replacement of the defective product, as deemed appropriate by Striking Energy in its sole discretion.
- Before shipping any product to Striking Energy, the customer must obtain a written return
 authorization from Striking Energy and provide any proof of warranty eligibility requested by
 Striking Energy. Any product received by Striking Energy without a return authorization may,
 at Striking Energy's option, be returned to the customer collect. If a warranty replacement
 part is required, customer shall provide Purchase Order to Striking Energy prior to shipment
 of the replacement, to guarantee the return of the rejected unit. Purchase Order is valid

until suspected part is received and warranty is confirmed by assessment. Once a return authorization is obtained, the customer is responsible for packing and shipping the product/component to which its warranty claim relates to a service facility designated by Striking Energy, within thirty (30) days after receipt of the return authorization. Upon receipt of replacement equipment (or part thereof), customer has thirty (30) days to tender the defective equipment (or part thereof) to the return carrier for shipment to the service centre designated by Striking Energy. If customer does not timely return the defective equipment (or part thereof), Striking Energy shall invoice customer for the list price of such equipment (or part thereof), plus applicable shipping. Such failure to return the equipment (or part thereof) may, in Striking Energy's discretion, be grounds for termination of the warranty and/or suspension of any future advance exchange privileges until such outstanding defective equipment has been returned.

Striking Energy will provide customer with new, rebuilt, refurbished or alternate equipment (or part thereof) of equal or improved quality, as exchange equipment (or part thereof) to replace eligible defective equipment (or part thereof). Any alternate equipment (or part thereof) will meet or exceed the specifications of the replaced equipment (or part thereof). Rebuilt or refurbished equipment may bear cosmetic blemishes that do not affect performance. Unless otherwise specified by Striking Energy in writing, repaired or replaced equipment (or parts thereof) are covered only for the remainder of the term of the applicable Standard Equipment Warranty. All defective equipment (or parts thereof) replaced by Striking Energy become the property of Striking Energy. Striking Energy has no obligation to (a) service, exchange or otherwise replace any equipment (or part thereof) that has been damaged, modified, abused, misused or over-used as determined by Striking Energy or has been used with non-Striking Energy supplies or products that have caused damage or malfunction; (ii) paint, refinish, refurbish, restore or exchange any equipment (or part thereof) with cosmetic blemishes; (iii) service, exchange or otherwise replace any equipment (or part thereof) if the same would interfere with, impede or be redundant with normal or scheduled maintenance of such equipment (or part thereof); (iv) service, exchange or otherwise replace any equipment (or part thereof) that is within sixty (60) days of the end of its production life; or (v) provide any 3rd party application software support or service involving application hardware or replace any accessories. If Striking Energy elects to perform any such services at customer's request, then such services will be deemed a service call and all labour, parts and materials used for the service call will be charged at Striking Energy's then- prevailing rates.

EQUIPMENT WARRANTY EXCLUSIONS

Striking Energy does not warrant or guarantee, and is not responsible for:

- Any heating element.
- Defects, failures, damages or performance limitations caused in whole or in part by (A) power failures, surges, fires, floods, snow, ice, lightning, excessive environmental heat or cold, highly corrosive environments, salt deposit from sea spray, accidents, actions of third parties, or other events outside of Striking Energy's control, or (B) customer's abuse, mishandling, misuse, negligence, improper storage, servicing or operation, or unauthorised attempts to repair or alter the equipment in any way. Customer must provide qualified technical personnel to maintain and repair the equipment.
- Alterations and/or Modifications to any part of Striking Energy's product, without Striking Energy's written authorization unconditionally VOIDS the Striking Energy Standard Warranty. Equipment built to customer's specifications that are later found not to meet customer's needs or expectations.

- The performance of the equipment when used in combination with equipment not purchased, specified, or approved by Striking Energy.
- Batteries and other consumable goods.
- Wearable items, such as elements, tooling, cables, part harnesses, contacts etc.

ADDITIONAL WARRANTY NOTES

- OEM or third-party equipment that is incorporated into Striking Energy equipment is covered under the applicable Striking Energy Standard Equipment Warranty unless the OEM or Third-Party equipment carries its own limited warranty, in which event the OEM or third-party warranty will apply to such equipment incorporated into Striking Energy equipment. For example, and not limitation, PCs, LCDs, PLCs, motors, and drives are OEM products that have a limited 1-year manufacturer's warranty.
- Items Sold as Resale. Items sold as resale are such items that are not manufactured by Striking Energy but may be utilised in conjunction with or independently of Striking Energy manufactured equipment (such as computers, printers, and network adapters) and shall be covered only by the specific warranty terms of the supplier or original equipment manufacturer of those items.
- The Striking Energy Warranty applies to the original purchaser and is not transferrable. Used Equipment.



Updates to these instructions are available from our

website: visit www.striking.co.za

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