



Shadow Chandelier Manual

7.6kW, 8.7kW and 9.6kW

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BRIEF INTRODUCTION

The Shadow Chandelier is a powerful, elegant infrared heating solution for churches and heritage buildings. It offers efficient, zero-light heating, preserving historic interiors while reducing energy consumption and maintenance, making it ideal for sustainable, comfortable heating.

IMPORTANT INFORMATION

Please carefully read all instructions provided before using this appliance. This heater must be installed and used as instructed.

This Operation Manual contains the important safety information, as well as some recommendations on correct use, installation and maintenance of the appliance.

When operating this infrared heater observe necessary safety precautions, as improper use may result in personal injury or damage to property.

Please keep this manual along with your sales receipt, and if possible, cardboard package and packing material in case return of the unit is necessary.

- **Unpack the infrared heater making sure that all the items are present, there are no components left in the box and the heater heads are free from any packing material.**
- **Using the detailed diagrams follow the steps to assemble your infrared heater.**
- **Do NOT connect the infrared heater to the power supply until the assembly is complete.**
- **Do NOT connect the infrared heater to the power supply if any of the components are damaged in any way**

SAFETY INSTRUCTIONS

Read these instructions before using.

WARNING

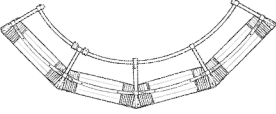
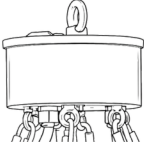
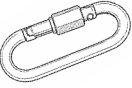
Potential fire risk if the heater is covered by any flammable materials.

- CAUTION — Some parts of the heater can become very hot and cause burns. Do NOT touch the appliance during operation to avoid the risk of injury.
- Check that the voltage indicated on the nameplate of the appliance corresponds to the local mains voltage before the appliance is hardwired.
- To avoid overheating do NOT cover the heater.
- The heater must NOT be located immediately below a socket outlet.
- The heater must be installed at least 3.7m to 5m above the floor.
- It's dangerous to install the heater close to combustible materials.
- Do NOT use where gas, petrol, paint or other flammable materials are stored.
- Do NOT push any items through, obstruct or cover the grills of the heater head.
- Do NOT move the heater when it is connected to the power supply.
- Always wait till the heater has cooled down completely before servicing.
- The heater must be placed with a clearance of 75cm to the wall.
- Improper use of the appliance can result in electric shock or fire hazard.
- In case of damage, the heater must only be repaired by a professional electrician.

CLEANING & MAINTENANCE

- Isolate the appliance from the power supply system and wait until it has sufficiently cooled off.
- After the appliance has cooled down, the housing can be wiped clean with a damp cloth.
- Wipe the appliance only with a clean and lint-free cloth or a soft brush.
- Do NOT use any abrasive or hard cleaning products on any part of this heater.
- Wait until the unit is completely dry before use.

PARTS LIST

Part	Part Name	Quantity
	A) Chandelier Arc	3
	B) Central Connection Hub	1
	C) Connection Module	3
	D) Chains	6
	E) Karabiner Screw Lock	12
	F) M4 Screw Pack - M4 x 12mm brass bolts, locking washers and nuts	12
	G) M5 Screw Pack - M5 x 16mm brass bolts, locking washer and nuts	12
	H) M8 Screw Pack - M8 x 40mm washers and nuts	12

To ensure a smooth and efficient installation, we recommend having the following tools on hand:

- Extra long nose pliers
- Phillips Screwdriver
- 10mm and 5/16 Socket Spanner

LIGHTING

The Shadow Chandelier combines efficient heating with elegant, adjustable lighting. It features six decorative ES candle bulbs (supplied), in a warm white configuration that are dimmable for creating a cosy and unobtrusive atmosphere. For brighter, more practical illumination, the unit also includes 6 GU10 lamp fittings. Whether you need soft ambient lighting for quiet reflection or enhanced brightness for services, the dimmable ceiling light provides the perfect balance of warmth and functionality.

Please Note: Standard GU10 bulbs are included. However, given the wide range of variations available, you may choose to upgrade to bulbs with a beam angle and colour temperature that best suit your requirements.

SUSPENSION INFORMATION

The Shadow Chandelier weighs approximately 49 kg. The chandelier must only be suspended from a suitable structural fixing point capable of safely supporting the chandelier and all associated suspension components.

The suspension chain required to hang the Shadow Chandelier from the ceiling is **not supplied** with the product. A suitable chain must be purchased separately at the required length to suit the installation and mounting height.

Important: Ensure the selected chain and all associated fixings are suitably rated to safely support the full weight of the chandelier.

CERAMIC ELEMENTS

Please Note: As the heating elements within the heaters are individually handcrafted, subtle variations in the level of visible light they emit may naturally occur. This is a normal characteristic of the manufacturing process and has no impact on the warmth or heating performance provided.

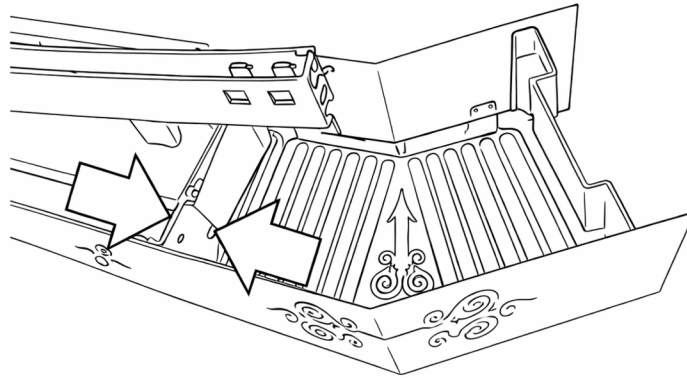
ASSEMBLY INSTRUCTIONS

Before beginning assembly, ensure you have a clear and level work surface measuring at least 2m x 2m. The surface must be soft and non-abrasive (e.g., covered with a blanket, foam, or other protective material) to prevent scratching the heater during assembly.

The heater features a powder-coated finish that is durable but can be easily scratched if placed on or handled against hard or rough surfaces. Taking this precaution will help maintain the appearance and integrity of the finish.

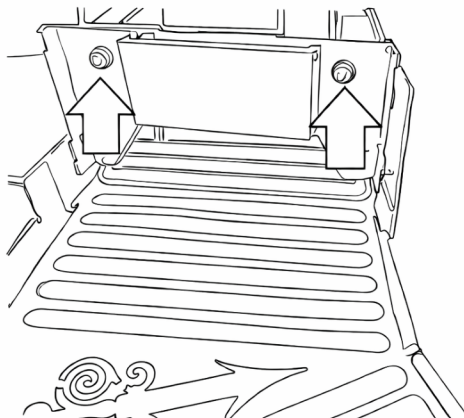
1 Step 1: Prepare the Heater Sections

- Place the heater sections on a work surface with the grill side facing down.
- Slide a corner connection module over one end of the chandelier arc until it slots into place, as shown in the reference image.



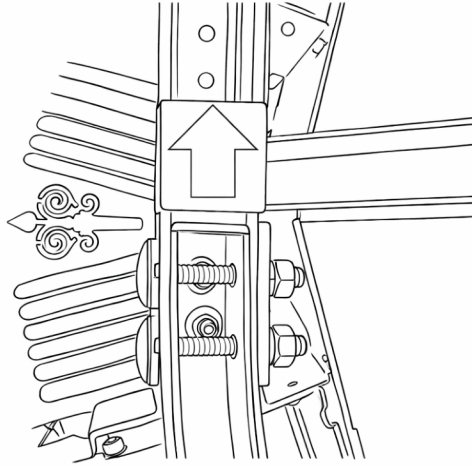
2 Step 2: Secure the Corner Connection Module

- Use 2 x M4 screws, a locking washer, and a washer to secure the corner connection module. Refer to the image with arrows for placement.
- Repeat this process for each section until the entire grill ring is fully assembled.

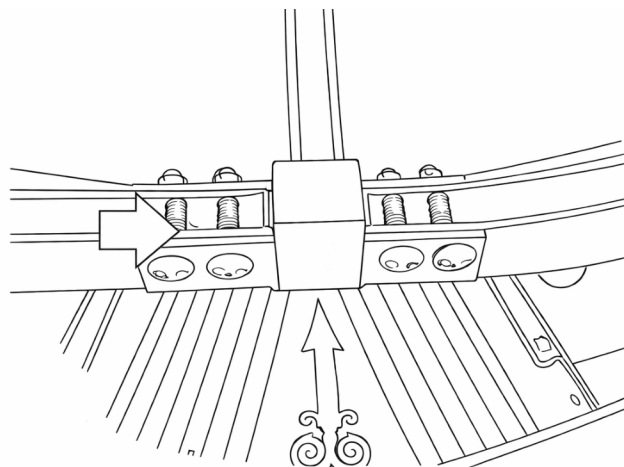


3**Step 3: Assemble the Lower (Larger) Ring**

- Align the holes on the two adjacent sections of main chassis (looking down from above)
- Attach using M5 × 16 bolts inserted from beneath, with washers visible from the top. Ensure this aligns with the preassembled side opposite to maintain symmetry.
- Repeat this process around the entire heater for a complete assembly.

**4****Step 4: Secure with Brass Bolts**

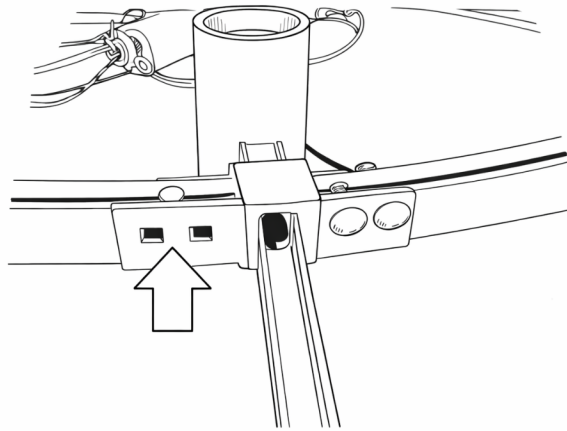
- Attach two M8 x 40 brass bolts on the outer ring to further secure the sections. Ensure these bolts match the configuration of the preassembled side, as shown in the image.
- Repeat this process around the entire heater for a complete assembly.



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Step 5: Attach the Upper Ring Sections

- On the upper ring, align the sections and secure them together using M8 x 40 bolts.
- Follow the same method as in Step 4 to ensure consistency.

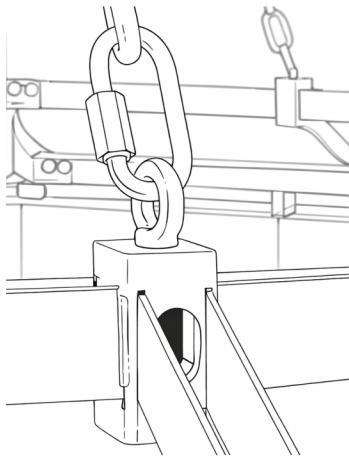


*The heater shown in this image includes optional light fittings and may differ slightly from the model you have purchased.

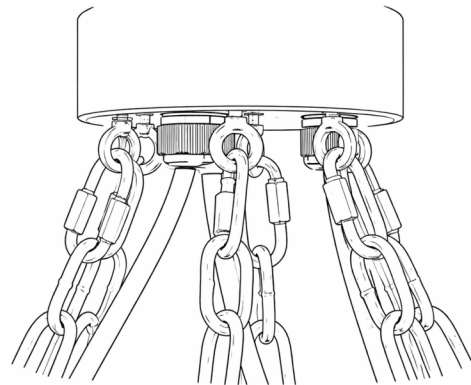
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Step 6: Attach the Chains

- Attach the 6 chains to their designated loop holes on the upper ring. Secure the chains to the central connection hub as well.
- Lock the karabiner screws to ensure the chains are firmly in place.



bottom of chain



top of chain

HANGING THE CHANDELIER

It is essential that suitable mounting points are tested (load) to ensure they are suitable for the weight and strengthened if necessary with bracing or other means before installation.

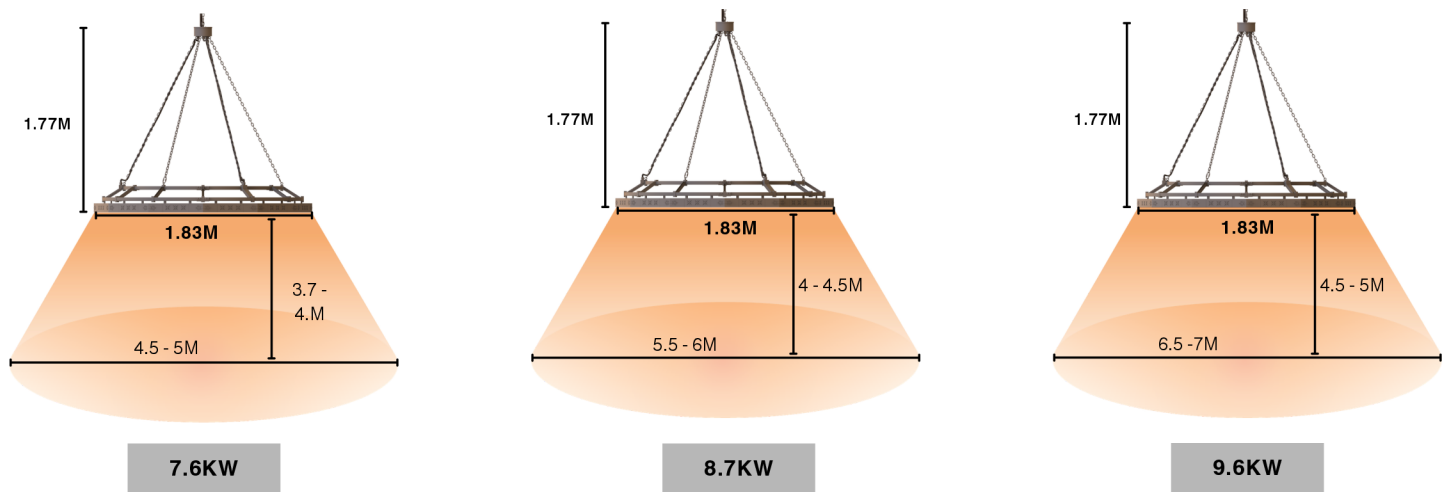
TECHNICAL SPECIFICATION

	Dimension (H) mm	Dimension (W) mm	Coverage (M sq.)	Phase Supply	Emitters	Total Power (kW)	Voltage (V)	Rec. height from floor (m)	Min. Distance from side wall (mm)	Weight (kg)
7.6KW	1770	1830	20 - 24	Single and 3 Phase	12	7.6	230	3.7 - 4	750	49
8.7KW	1770	1830	29 - 34	Single and 3 Phase	12	8.7	230	4 - 4.5	750	49
9.6KW	1770	1830	38 - 42	Single and 3 Phase	12	9.6	230	4.5 - 5	750	49

All heaters are rated at a nominal 230V supply.

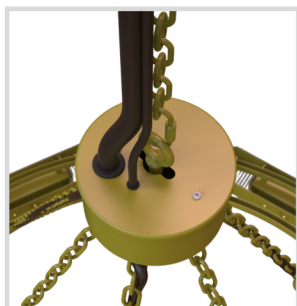
Actual power output may vary depending on site voltage, as heater performance increases or decreases with voltage.

HEAT MAPS AND MEASUREMENTS



Note: The coverage area is a guide only and calculated for effective heating in the colder months. The areas given can be influenced by a number of additional factors. Heat is subjective and different people feel warm at different heat levels. The mounting height will affect the maximum heat level felt at ground level, as well as the heat spread.

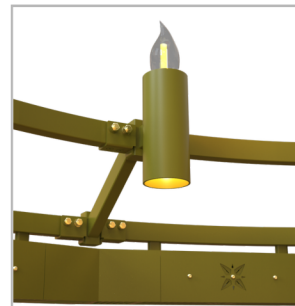
CENTRAL MOUNTING POINT AND LIGHTING



Mounting Data

- Central hanging point
- 49kg total weight
- Additional chain available (not supplied)

It is essential that suitable mounting points are tested (load) to ensure they are suitable for the weight and strengthened if necessary with bracing or other means before installation.



Optional Lighting

- Separately controlled from heat output
- Dimmable
- Low power LED
- Candle bulbs for decorative up-lighting
- Downlighter lamps available in range of colour tones and spread (supplied)

CERAMIC ZERO GLARE



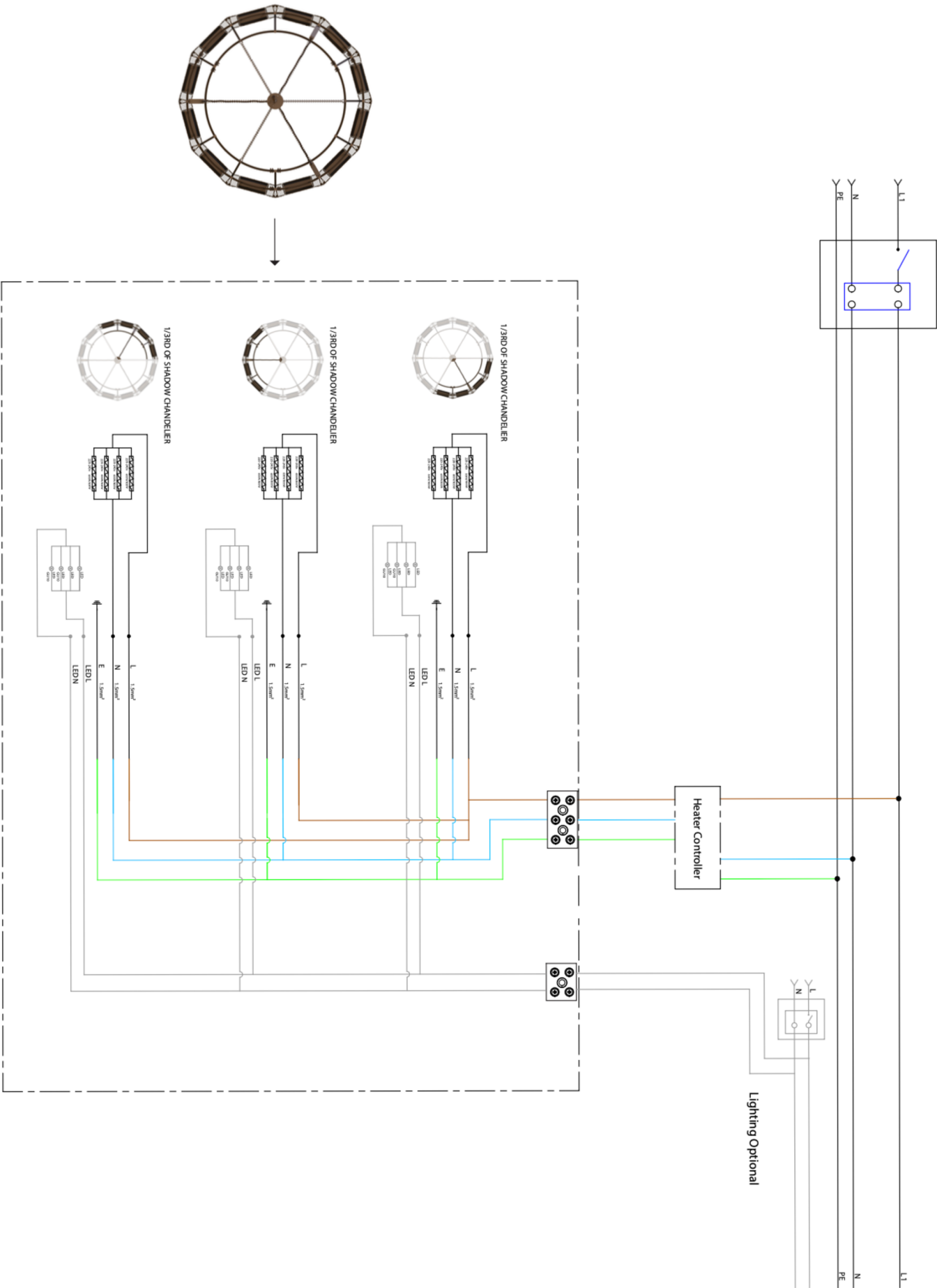
Industry leading Zero Light Ceramic Infrared Emitters

WARRANTY

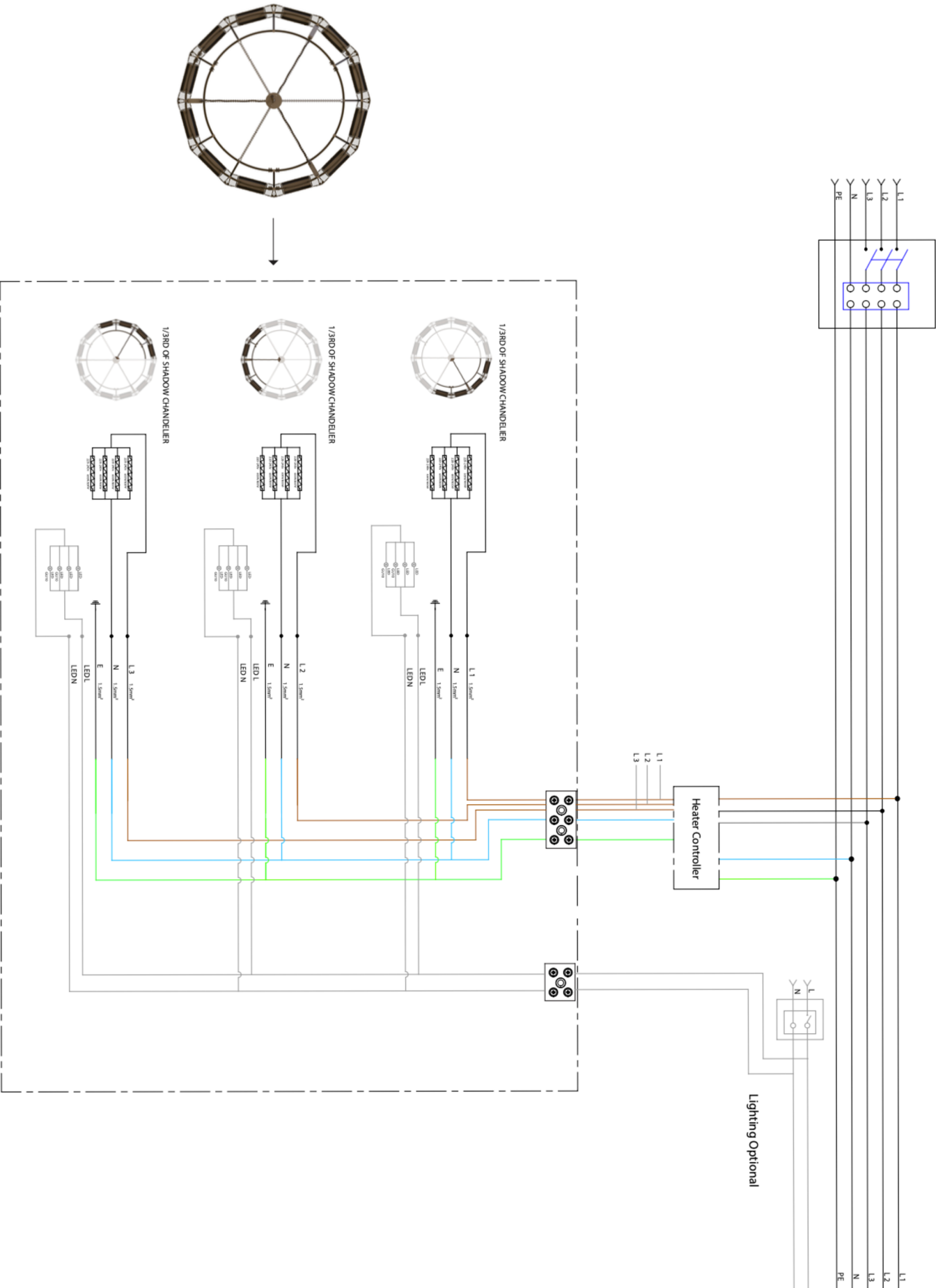


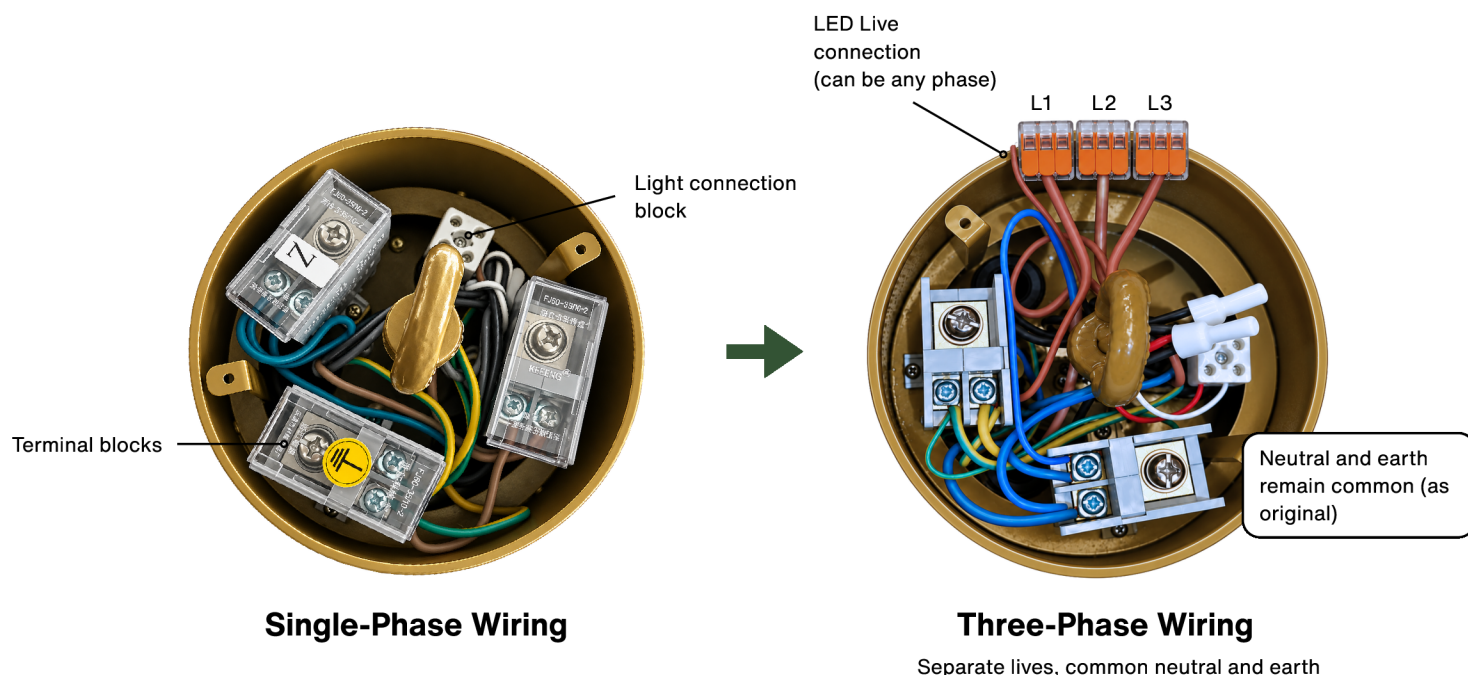
5 year warranty direct from the manufacturer

WIRING DIAGRAM - SINGLE PHASE



WIRING DIAGRAM - THREE PHASE





Converting from Single-Phase to Three-Phase Wiring

The chandelier is supplied wired for 230 V single-phase operation. To convert it for use on a **400/230 V three-phase supply**:

1. **Remove the connector block** joining the live wires together.
2. **Separate the three heavy live wires** from the three chandelier sections. Connect one to each incoming phase:
 - **Section 1** → L1
 - **Section 2** → L2
 - **Section 3** → L3
3. **LED indicator:** The smaller live wire supplies the power-on LED. Connect this wire to **any one of the three phases (L1, L2 or L3)**.

Important

Each chandelier section is a **230 V** load and must be connected **between one phase and neutral**. Do not connect any chandelier section directly between two phases, as approximately 400 V exists phase-to-phase.

The three sections are of equal load, so connecting one section to each of L1, L2 and L3 provides a **balanced three-phase load**.

The **neutral and earth connections remain common and unchanged from the original single-phase configuration**. There is no need to separate or modify the existing neutral or earth wiring.

ELECTRICAL ISOLATION / DISCONNECTION

The Shadow Chandelier is a stationary appliance designed to be permanently connected to the fixed electrical installation.

A suitable means of disconnection from the electrical supply must be incorporated into the fixed wiring in accordance with the applicable wiring regulations. The disconnection arrangement must provide full disconnection of the appliance from the supply.

The electrical installation, including the means of isolation, must be carried out by a suitably qualified electrician and comply with all applicable electrical regulations.



SHADOW

Industrial Infrared

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