

## Reference Manual

# Apollo IP

UK &amp; EUROPEAN MODELS



SHORTWAVE INFRARED HEATERS FOR OUTDOOR AND INDOOR\* USE -  
RESIDENTIAL\*\*, COMMERCIAL AND INDUSTRIAL  
IN NON-HAZARDOUS LOCATIONS ⚠ ⚡ ⚠

*\*APOLLO IP HEATERS ARE DESIGNED AND MANUFACTURED FOR OUTDOOR USE. THEY CAN BE USED INDOORS BUT SHOULD BE USED IN CONJUNCTION WITH SUITABLE ENERGY SAVING CONTROLLERS TO COMPLY WITH EU 2015/118 (PLEASE CONTACT TANSUN FOR DETAILS)*

*\*\*HEATERS RATED OVER 2000W ARE NOT SUITABLE FOR INDOOR RESIDENTIAL OR HOUSEHOLD USE.*



**EASY COMFORT**  
INFRAROOD VERWARMING


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## CAUTION

When using Easy Comfort electrical heaters, basic precautions should always be followed to reduce the risk of fire, electric shock, and injury to persons, including the following:

### **Read all instructions before using this heater.**

- Before using this appliance:
  - Check that the voltage indicated on the type plate corresponds to the mains supply voltage.
  - Ensure that the heater has been securely fastened in its final mounting position.
- Do not locate the heater immediately below a socket outlet.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- Children of less than 3 years should be kept away unless continually supervised.
- Children aged from 3 years and less than 8 years shall only switch on/off the appliance provided that it has been placed or installed in its intended normal operating position and they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children aged from 3 years and less than 8 years shall not plug in, regulate and clean the appliance or perform user maintenance.
- **CAUTION—Some parts of the product can become very hot and cause burns. Particular attention has been given where children and vulnerable people are present.**
- Remove the plug from the mains socket (or disconnect pole switch) during installation, cleaning and/or replacing the element and always ensure that the element is cool.

- Do not use an extension cord with this product because the extension cord may overheat and cause a risk of fire.
- Keep the mains supply cord away from the body of the heater which will get hot during use.
- Arrange the mains supply cord so it cannot be tripped over or damaged.
- Do not cover or obstruct the heater while it is in use.
- Do not insert any object through any slot or opening in the heater.
- Do not use if a guard is not present.
- Do not install less than the minimum mounting distance from the floor.
- **WARNING:** This heater is not equipped with a device to control the room temperature so should only be used indoors with an energy saving controller/thermostat. Do not use this heater in small rooms when they are occupied by persons not capable of leaving the room on their own, unless constant supervision is provided.
- Never locate the heater where it may fall into a bathtub or other water container.
- Do not use the heater in a bathroom, laundry areas and similar locations. Never locate the heater where it may fall into a bathtub or other water container.
- A heater has hot parts inside. Do not use it in areas where petrol, paint, or flammable liquids are used or stored.
- **WARNING:** This appliance must be connected to a supply that is earthed! 

## IMPORTANT -

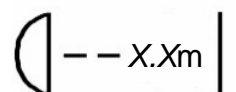
## SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE



### WARNING: RISK OF FIRE



**Keep combustible material such as furniture, papers, clothes and curtains at least 'distance stated on rating label' from the front of the heater and away from the sides and rear.**



# INTRODUCTION

The Apollo IP heater produces radiant heat like the sun, warming people and objects and not the air in between, providing the only form of heat that will not blow out or away. It is designed to blend into environments old and new, providing a cost effective, pollution free heater. The Apollo IP heater is weatherproof so is suitable for outdoor use or can be used indoors in conjunction of a suitable energy saving control device (contact Easy Comfort BV for details).

**Please read the caution notes and following instructions carefully before use. The safety of this heater is guaranteed only by its correct usage in accordance with these instructions, therefore it is recommended that they are retained for future reference.**

## INSTALLATION

The models A1A2-010IP, A1A2-015IP, A1A-020IP, A1B-020IP, A1B2-030IP and A1C2-030IP are fitted with 2.0 meters of supply cord for hard wiring therefore it is unnecessary to remove the terminal cover plate in order to carry out normal installation of these models. They can also be specified with 1.9 meters of supply cord and a moulded UK or EU Schucko plug (at an additional cost). Again it is unnecessary to remove the terminal cover plate in order to carry out normal installation of these models.

All other models are fitted with 2.0 metres of supply cord for hard wiring therefore it is unnecessary to remove the terminal cover plate in order to carry out normal installation of these models.

**⚠ WARNING:** This appliance must be earthed! 

**⚠ WARNING:** If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

**⚠ CAUTION:** Please observe the minimum safe distance between the heater body and any inflammable surfaces.

**⚠ CAUTION:** All installations must be in accordance with the latest electrical safety regulations. **If in any doubt, please consult a suitably qualified electrician.**

**! NOTE:** When hard wiring, a large double pole switch with a 3.0mm contact disconnection should be fitted.

**! NOTE:** We recommend using a RCD where applicable.

**! NOTE:** When installing indoors the heater should be connected to a suitable energy saving controller (please contact Easy Comfort for details).

# SPECIFICATION

Table 1. UK and European Heaters

Model	Voltage (V)	Lamps × power (kW)	Total power (kW)	Phase supply	Current per phase (A)	Minimum height from floor (cm)	Minimum distance from ceiling (cm)	Minimum Distance from side wall (cm)	Dimensions (L × W × D) (cm)	Weight without guard (kg)
A1A*-010IP	230	1 × 1.0	1.0	1	4.3	200	22	100	42 × 26 × 12	3.0
A1A*-015IP		1 × 1.5	1.5		6.5					
A1A*-020IP		1 × 2.0	2.0		8.7					
A1B2-020IP	230	2 × 1.0	2.0	1	8.7	200	50	150	42 × 39 × 12	4.0
A1B2-030IP		2 × 1.5	3.0		13.0					
A1B2-040IP		2 × 2.0	4.0		17.4	250				
A1C2-030IP	230	3 × 1.0	3.0	1	13.0	200	50	150	42 × 53 × 12	5.5
A1C2-045IP		3 × 1.5	4.5		19.6	250				
A1C2-060IP		3 × 2.0	6.0		25.0	300				
A1J*-020IP	230	2 × 1.0	2.0	1	8.7	250	22	100	86 × 26 × 12	6.0
A1J*-030IP		2 × 1.5	3.0		13.0					
A1J*-040IP		2 × 2.0	4.0		17.4					
A1K*-030IP	230	3 × 1.0	3.0	1	13.0	250	22	150	128 × 26 × 12	8.0
A1K*-045IP		3 × 1.5	4.5		19.6					
A1K*-060IP		3 × 2.0	6.0		25.0	300				
A3C2-030IP	400	3 × 1.0	3.0	3*	4.3	200	50	150	42 × 53 × 12	5.5
A3C2-045IP		3 × 1.5	4.5		6.5	250				
A3C2-060IP		3 × 2.0	6.0		8.7	300				
A3E2-060IP	400	6 × 1.0	6.0	3*	8.7	300	50	150	86 × 63 × 12	12.0
A3E2-090IP		6 × 1.5	9.0		13.0	400				
A3E2-120IP		6 × 2.0	12.0		17.4	450				
A3F2-090IP	400	9 × 1.0	9.0	3*	13.0	400	50	150	128 × 63 × 12	20.0
A3F2-135IP		9 × 1.5	13.5		19.6	500				
A3F2-180IP		9 × 2.0	18.0		26.1	600				
A3K*-030IP	400	3 × 1.0	3.0	3*	4.3	250	50	150	128 × 26 × 12	8.0
A3K*-045IP		3 × 1.5	4.5		6.5					
A3K*-060IP		3 × 2.0	6.0		8.7	300				
A3L2-060IP	400	6 × 1.0	6.0	3*	8.7	300	50	150	128 × 44 × 12	17.0
A3L2-090IP		6 × 1.5	9.0		13.0	400				
A3L2-120IP		6 × 2.0	12.0		17.4	450				

Notes: Use MCB Type C. \*Star connection with neutral star point to balance load  
For standard models replace \* with '2' and recess models replace with 'R'

# MOUNTING - WALL MOUNTED WITH MIDDLE BRACKET (A, B, C, J & K MODELS ONLY)

!

CAUTION

!

**Switch off/unplug the heater from the mains supply when mounting or adjusting the heater position.**

- The heater must be mounted in such a way that the halogen lamp does not slant more than 4° from the horizontal, when viewed from the front.
- The heater is suitable for installation only on a normally non-flammable surface. Observe the minimum safe distance between the heater body and inflammable surfaces when mounting. Please refer to Table 1 for the recommended positioning of the heater with regards to minimum distances. Do not install the heater in a corner! If installing near a corner, always ensure minimum side wall distance is observed.
- Do not position the heater near to furniture or curtains as this could present a fire hazard.
- Refer to Table 1 for the recommended mounting height for the heater.
- Do not position the heater at an angle more than 75° and less than 45° when viewed from the side as shown in Fig. A.
- Please refer to Table 1 for the recommended installation height of the heater.
- Keep out of the reach of children.

1. Separate the heater from the mounting bracket by loosening the two nuts at the rear of the heater.
2. Securely fasten the bracket to the mounting surface using the fixing holes in the bracket.
3. Replace the heater on the bracket using the nut and bolt supplied and fix in the required angular position by tightening the fixing bolt on the bracket. See Figs A and B.

**Always isolate the heater from the mains supply when adjusting the angular position and allow to**

**Plan View**

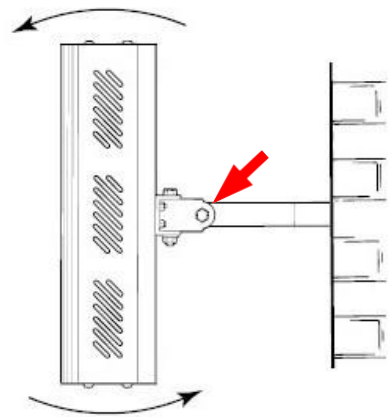


Fig. A

**Side View**

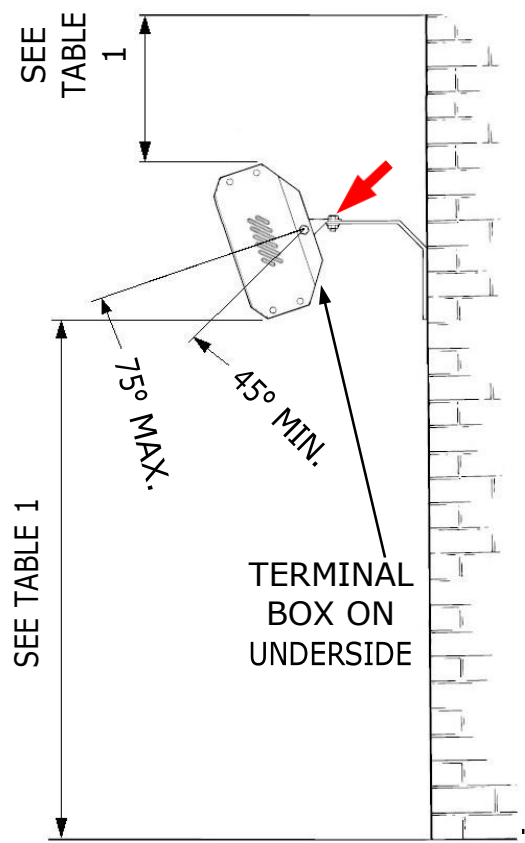


Fig. B

## MOUNTING - CHAIN HUNG



### CAUTION



**Switch off/unplug the heater from the mains supply when mounting or adjusting the heater position.**

- The heater is suitable for installation on chains that are suitably fixed to a structure sufficient to hold the weight of the heater. Observe the minimum safe distance between the heater body and inflammable surfaces when mounting.
  - Please refer to Table 1 for the recommended positioning of the heater with regards to minimum distances. Do not install the heater in a corner! If installing near a corner, always ensure minimum side wall distance is adhered to.
  - Do not position the heater near to furniture or curtains as this would present a fire hazard.
  - Always allow the heater to cool before attempting to reposition/move. Never attempt to move the heater while it is switched on!
1. When chain hung, ensure chains are of adequate size and securely fixed to support the weight of the heater.
  2. Fix the heater assembly to the chains via the holes in the channel brackets. If the heater is to be angled, always ensure the terminal box is at the lower part of the heater (so it's closest to the ground) as shown in Fig. D.
  3. Ensure the supply cord does not rest on the heater.

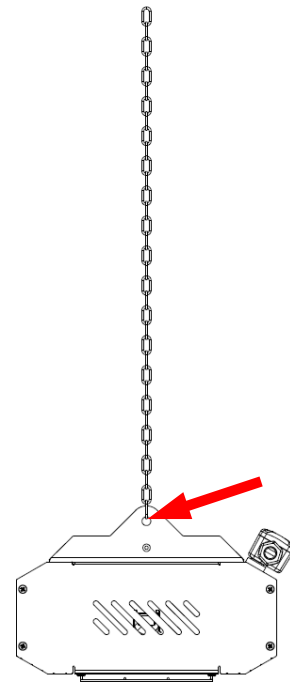
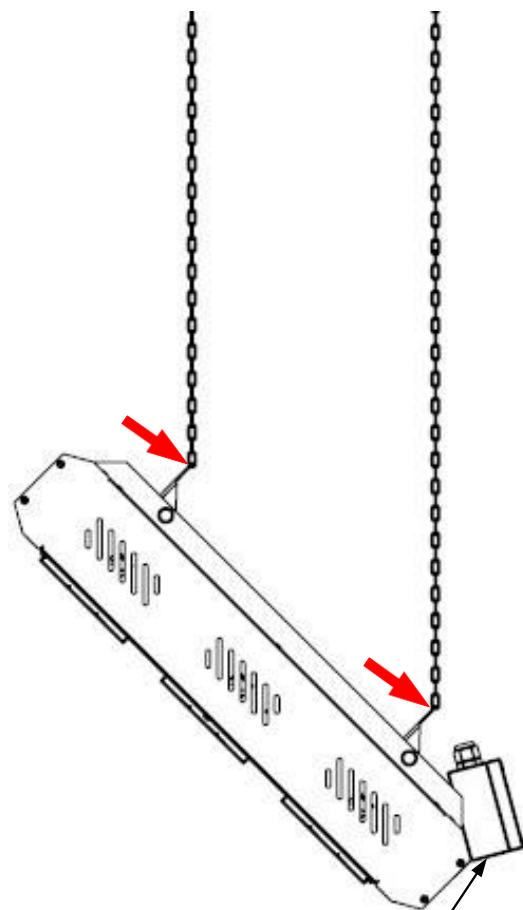


Fig. C



TERMINAL BOX

Fig. D

## MOUNTING - CEILING RECESSED (A, J, K MODELS ONLY)

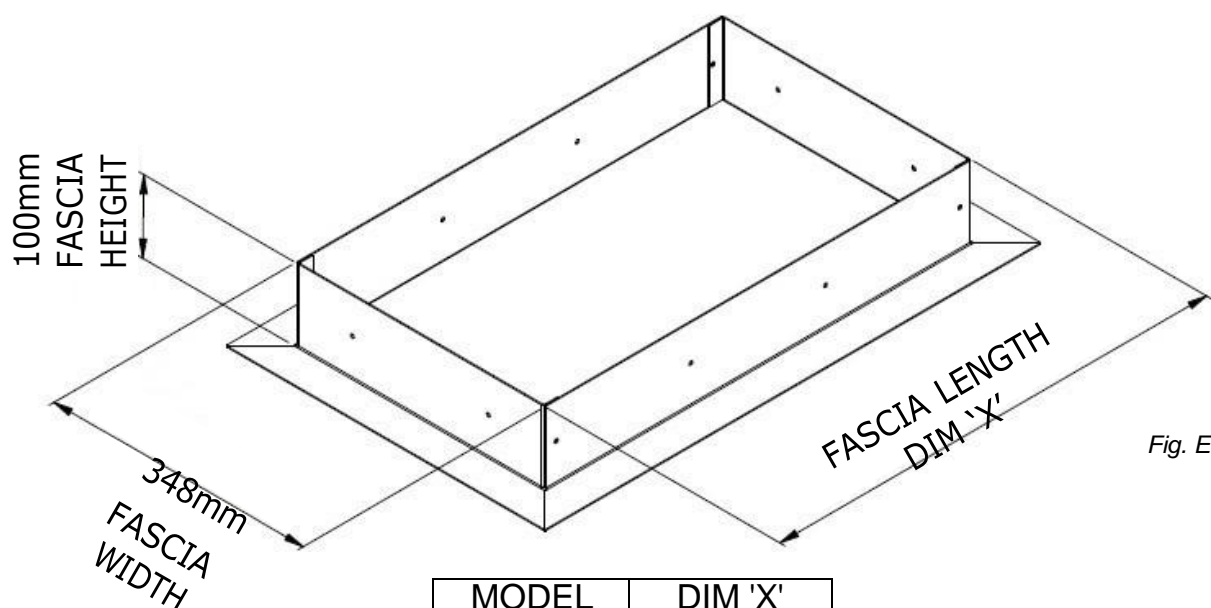


Switch off/unplug the heater from the mains supply when mounting or adjusting the heater position.

- See Fig. H below showing typical recessed mounting arrangement.
- Please refer to Table 1 for the recommended positioning of the heater with regards to minimum distances. Do not install the heater in a corner! If installing near a corner, always ensure minimum side wall distance is observed.
- Do not position the heater near to furniture or curtains as this would present a fire hazard.
- Always allow the heater to cool before attempting to reposition/move. Never attempt to move the heater while it is switched on!
- When recess mounting the heater it must be accompanied with a enclosure box made from a suitable material with a 1 hour fire rating. See Fig. E for dimensions of fascia flange trim detailing the box length and width (not supplied). The fascia flange trim should always be used when installing in a recess. Please note, the enclosure box and fascia flange can weigh in excess of 12.8kg (K model) so adequate structural provision is required for the installation.
- When exiting the heater cord through the enclosure box always position the hole at the nearest possible position to the terminal box and do not run cord to the end of the heater.
- Refer to Fig. F for mounting hole centres for the recess brackets.

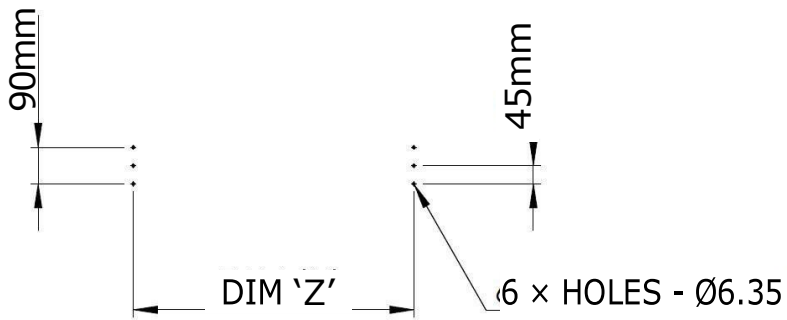
### DIMENSIONS OF FASCIA FLANGE TRIM FOR ENCLOSURE BOX

KIT OF 4 × SIDES SHOWN AS ASSEMBLED



MODEL	DIM 'X'
A1AR	596mm
A1JR	1031mm
A1KR	1456mm
A3KR	

## DIMENSIONS OF MOUNTING HOLES FOR RECESS/CEILING BRACKET



APOLLO	DIM 'Z'
A1AR	440mm
A1JR	875mm
A1KR	1300mm
A3KR	

Fig. D

## TYPICAL RECESSED INSTALLATION

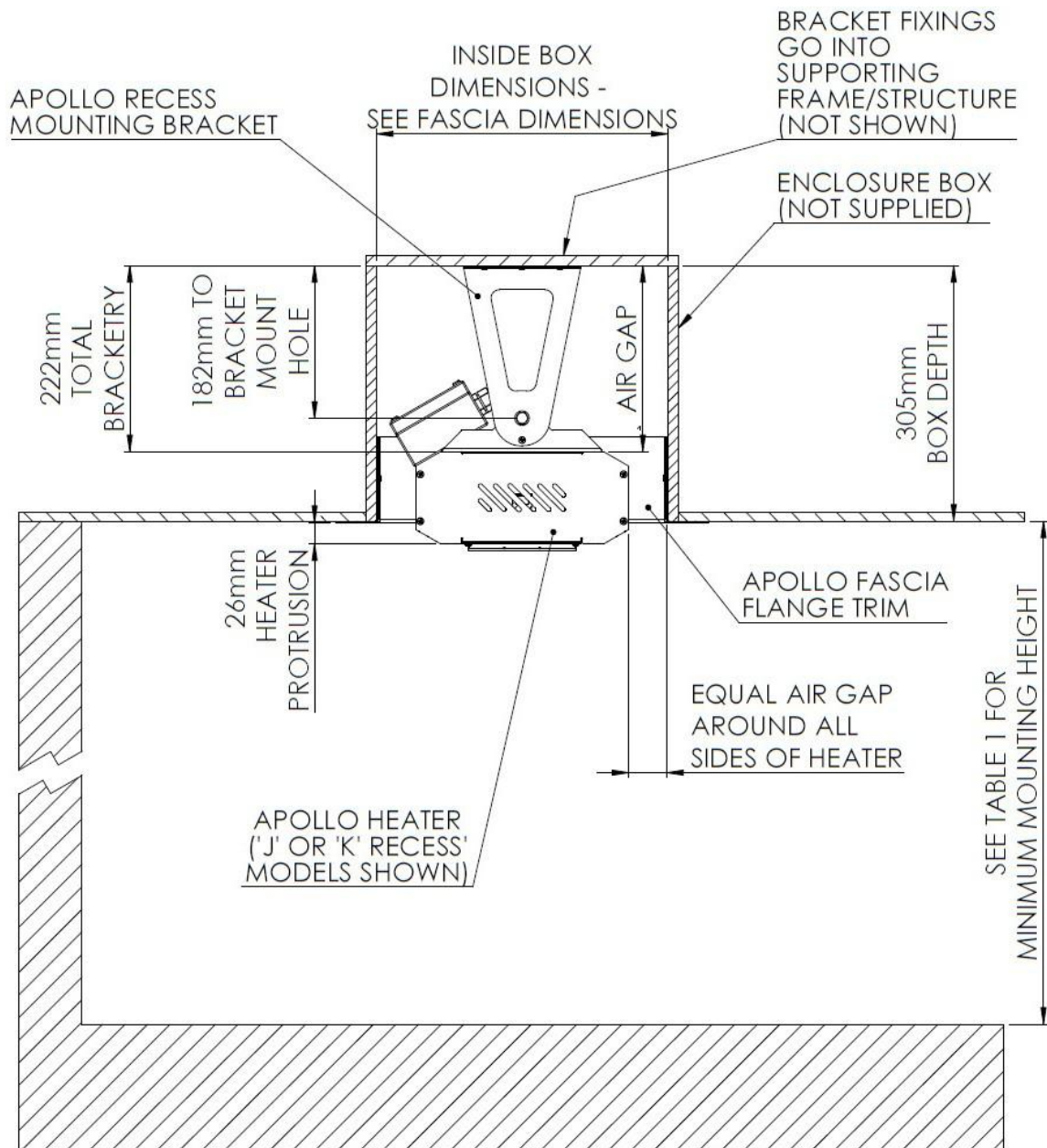


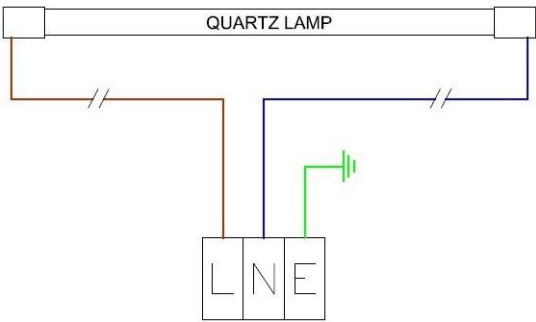
Fig. E

**▲ CAUTION: DO NOT ANGLE THE HEATER!** The heater must be mounted so it points face down as shown above in Fig. E.

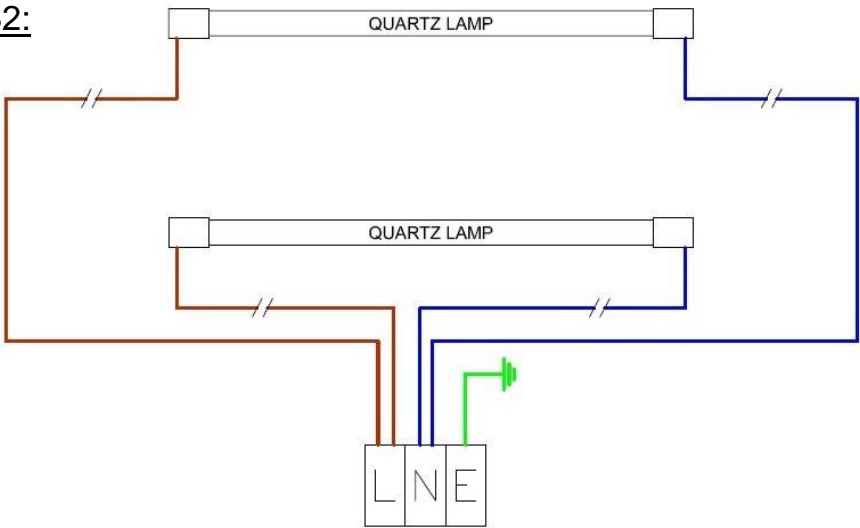
- See back page for photo of typical recess installations.

# CIRCUIT DIAGRAMS

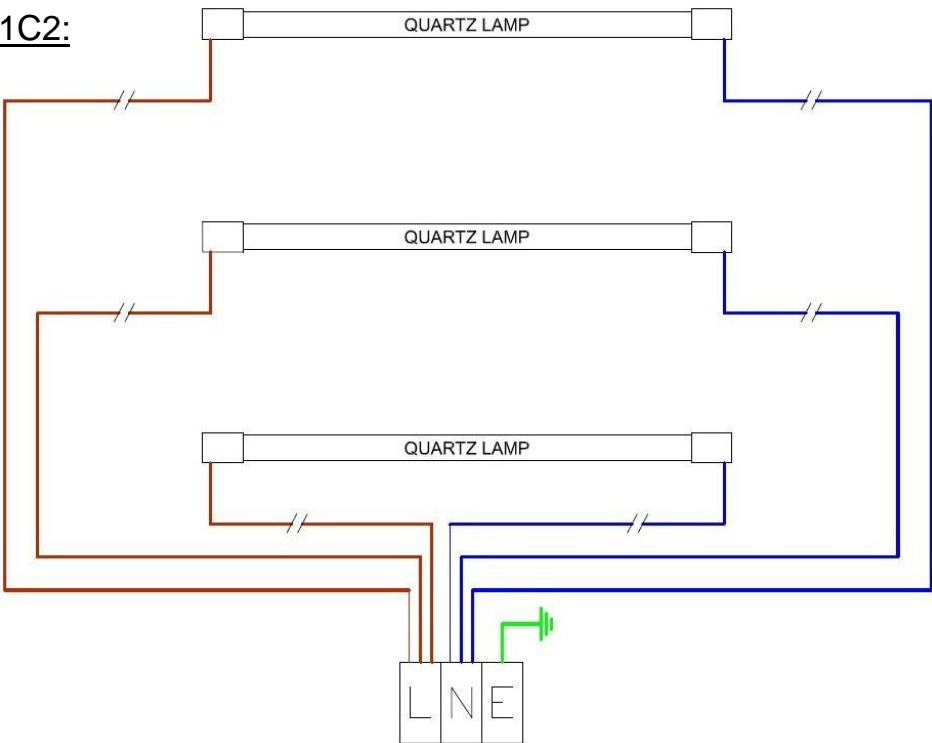
Apollo  
A1A2 & A1AR:



Apollo A1B2:

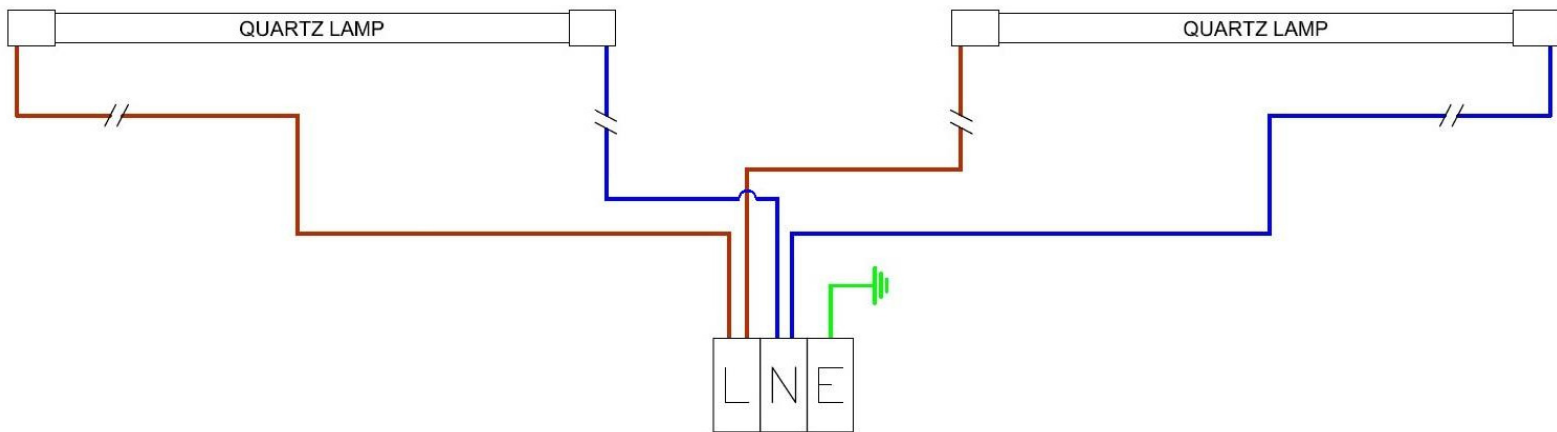


Apollo A1C2:

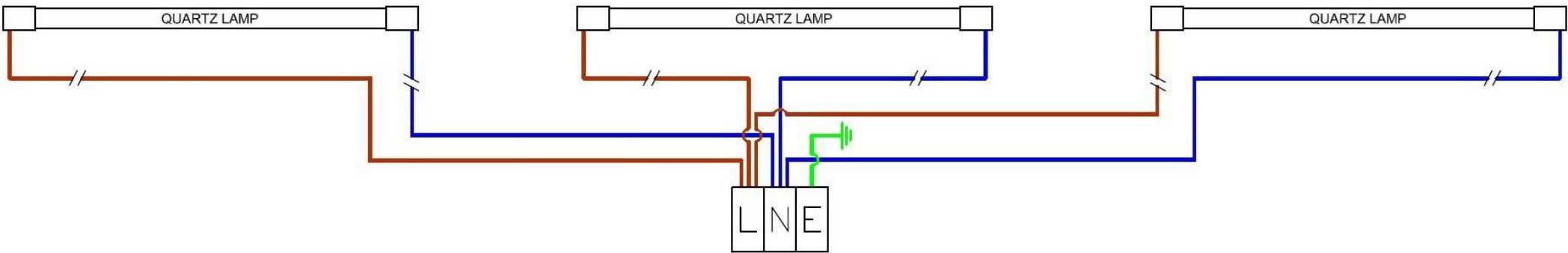


# CIRCUIT DIAGRAMS

Apollo  
A1J2 & A1AR:

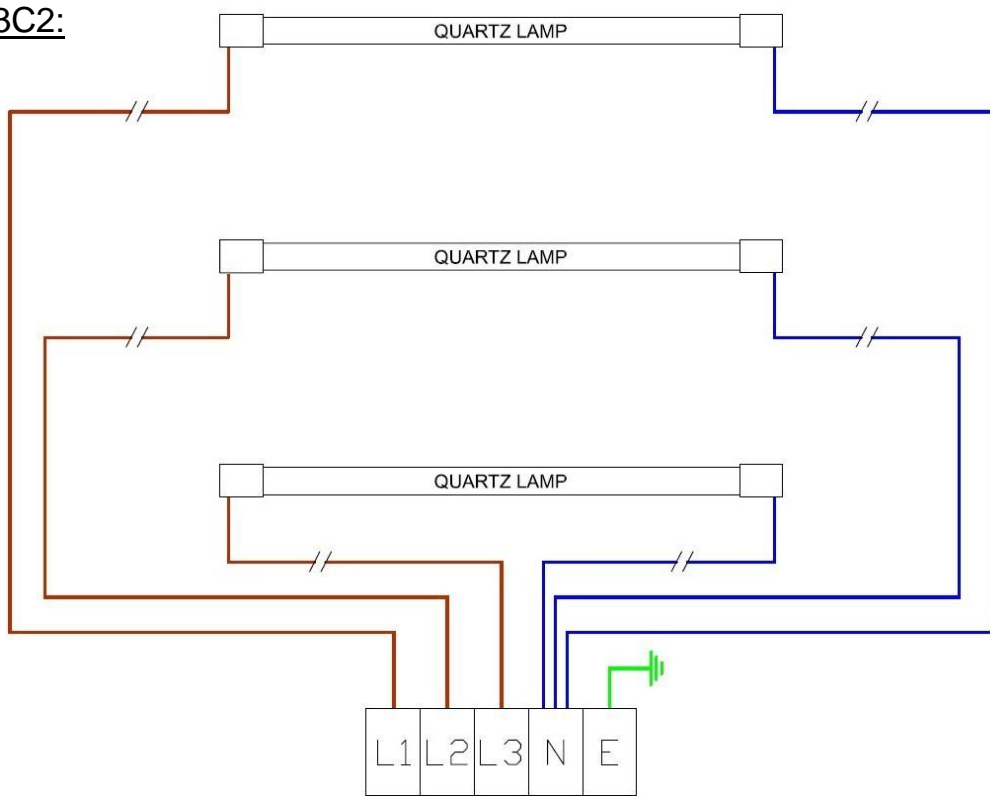


Apollo  
A1K2 & A1KR:

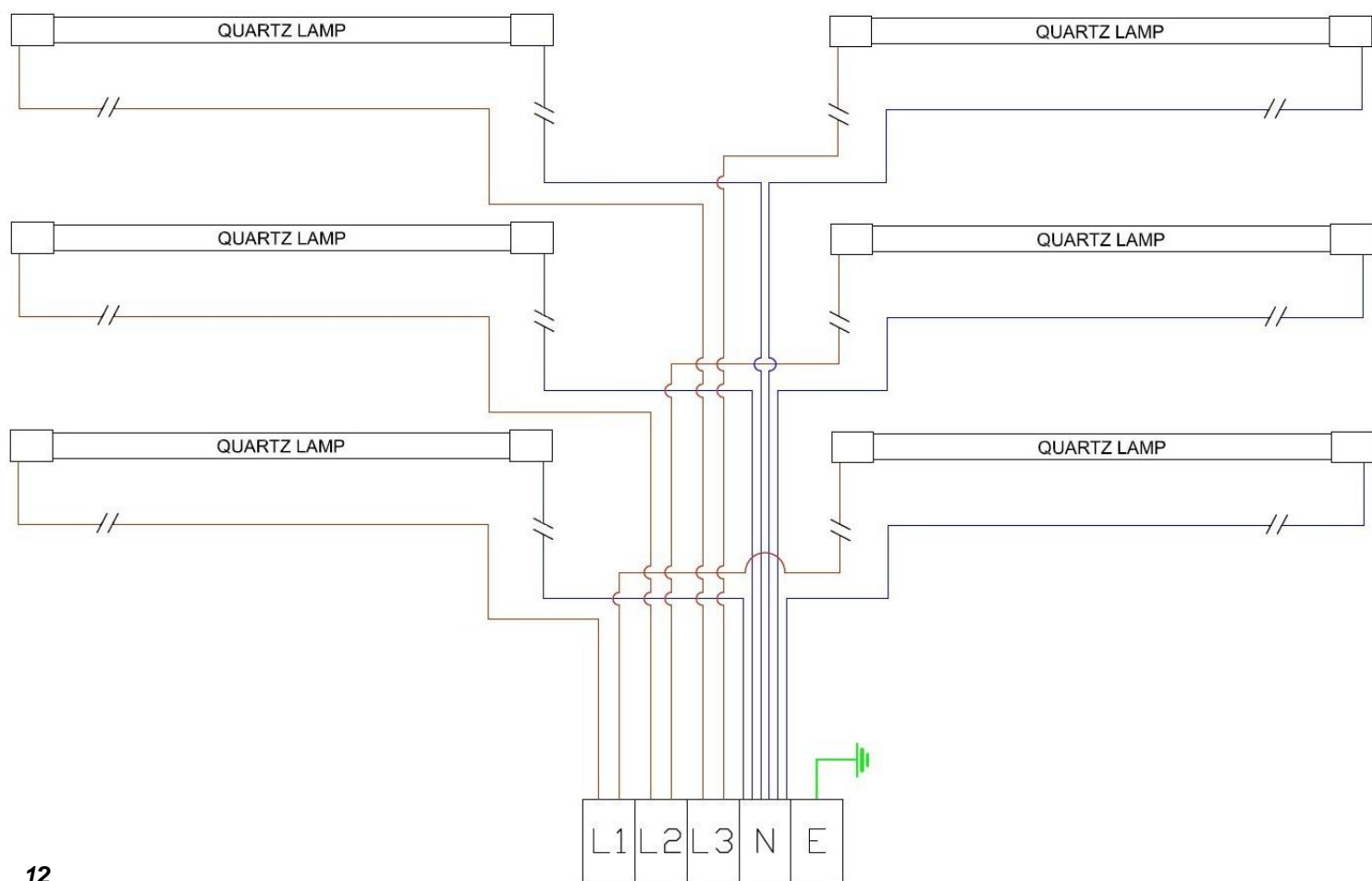


# CIRCUIT DIAGRAMS

Apollo A3C2:



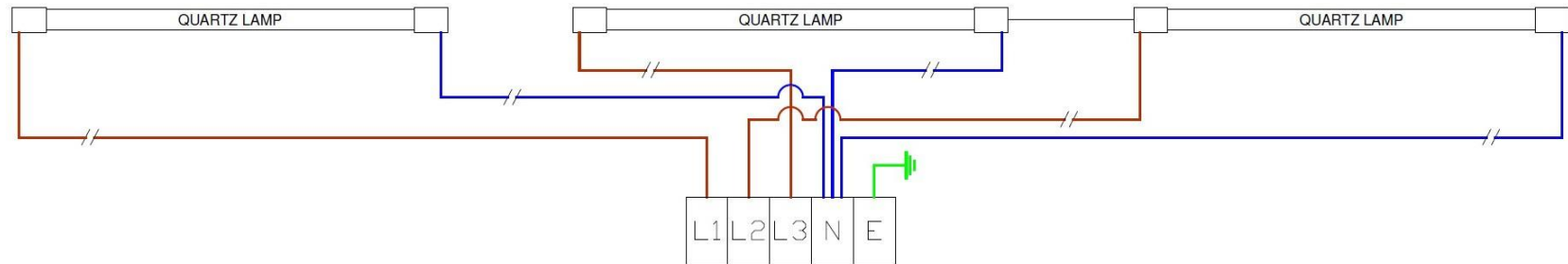
Apollo A3E2:



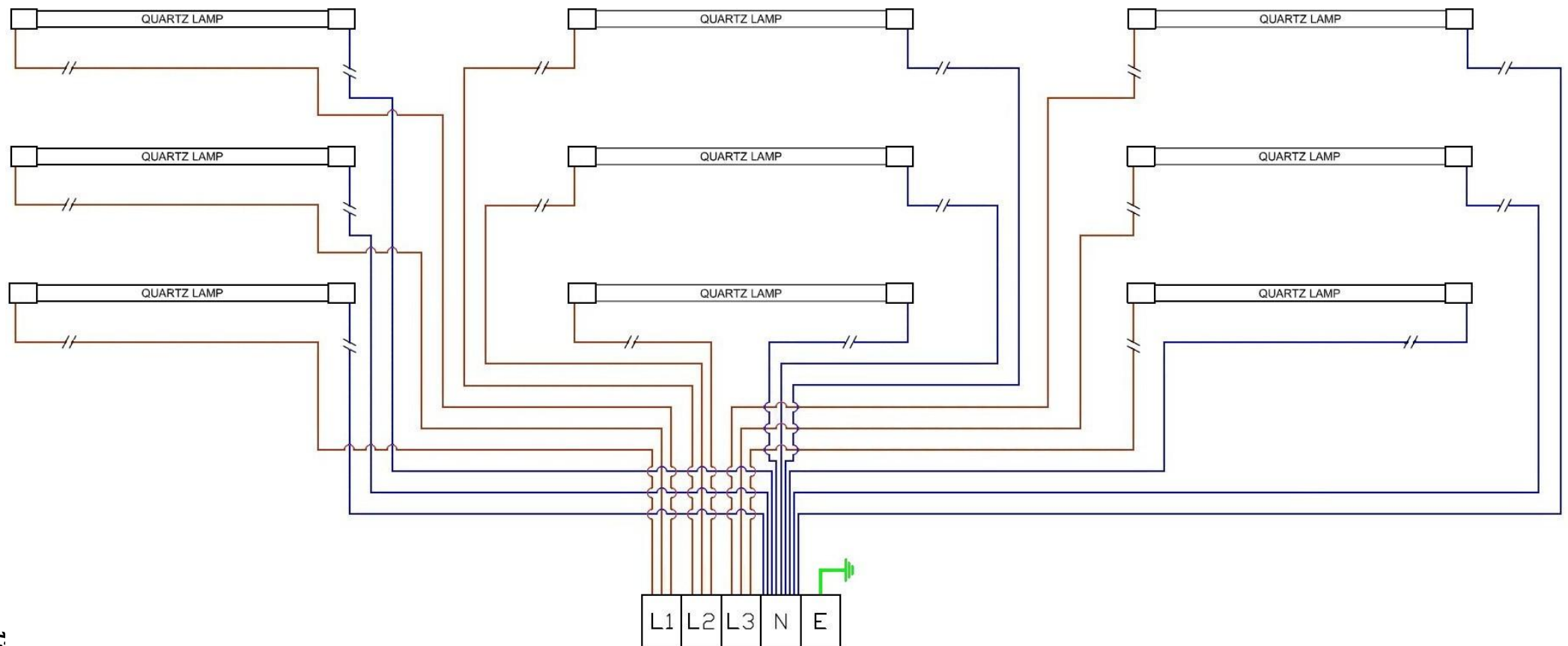
# CIRCUIT DIAGRAMS

Apollo

A3K2 & A3KR:

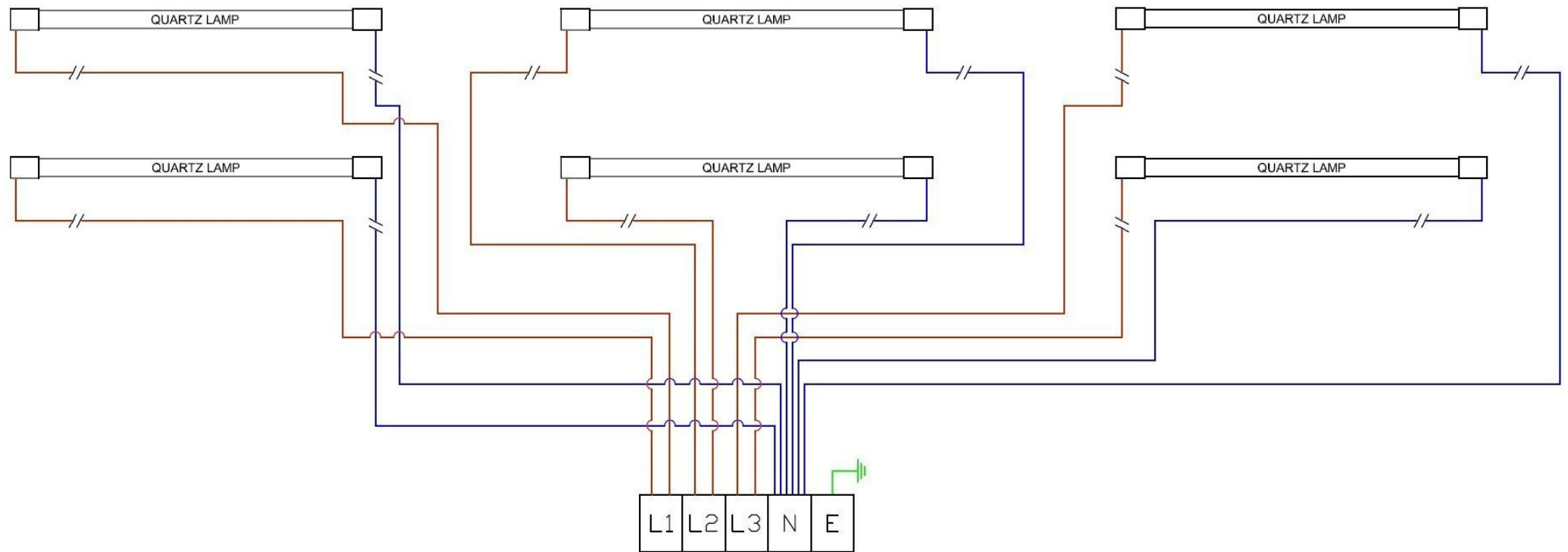


Apollo A3F2:



# CIRCUIT DIAGRAM

Apollo A3L2:

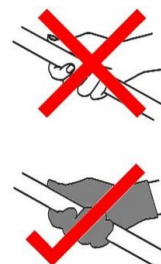


## YOUR REPLACEMENT LAMP

It is very important that your replacement lamp is exactly the same as the one it was supplied with. Failure to fit the exact same type could cause the heater to fail or even become dangerous especially when used in an outdoor environment. Please contact Easy Comfort BV to purchase your replacement lamp and state the model number of the heater you wish to fit the lamp to.

## HANDLING A REPLACEMENT LAMP

Your new lamp(s) should not be handled with bare hands. Remove finger marks with a soft cloth and methylated spirits or rubbing alcohol. Finger marks will burn into the lamps quartz glass causing premature failure.



## REPLACING A LAMP

	<b>CAUTION</b>	
<p><b>Unplug/switch off from the mains power to the heater power before any attempts are made to replace the lamp. Contact your service agent for the correct replacement lamp quoting model type and rating from rating label. It is important that you read through the lamp replacement procedure before commencing.</b></p>		

1. Disconnect the power supply to the heater.
2. Remove guard (where fitted) by flexing one end and releasing from it's locating holes on the lamp to be replaced.
3. Remove the three screws from both front side covers (Fig. F) on the 'A, B & C' models and depending on the other models, the middle cover(s) will need to be removed by removing the screws from both sides as shown in Fig. G.

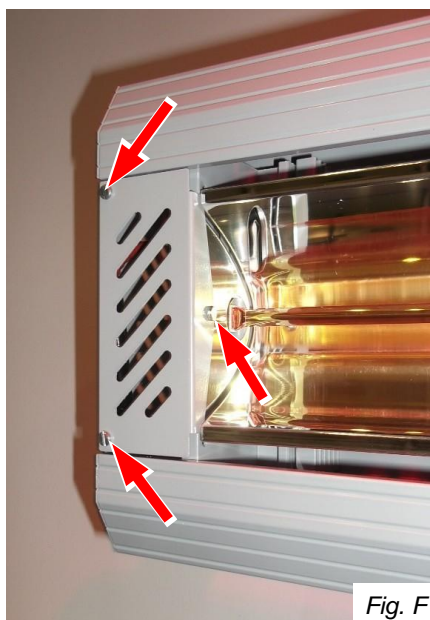


Fig. F

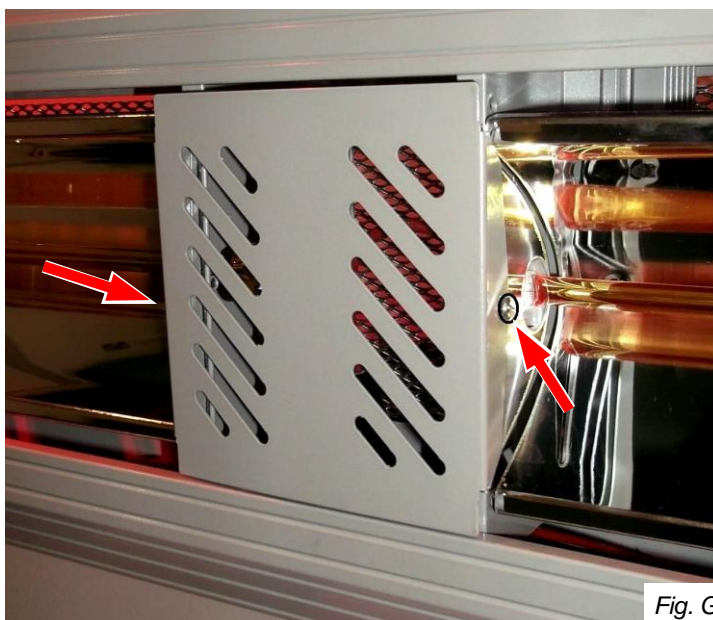
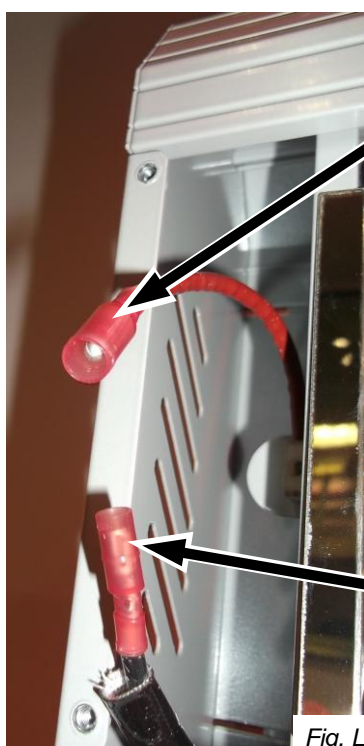
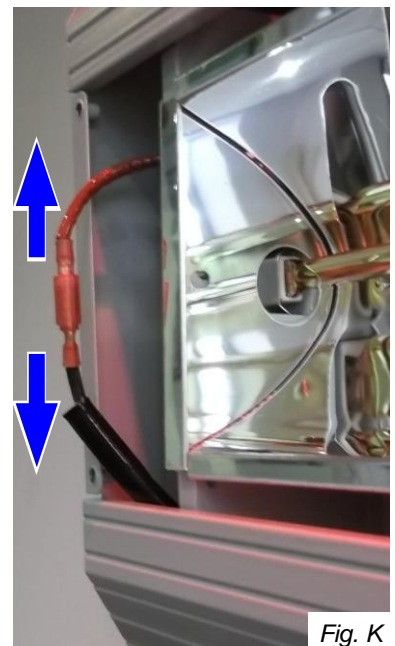
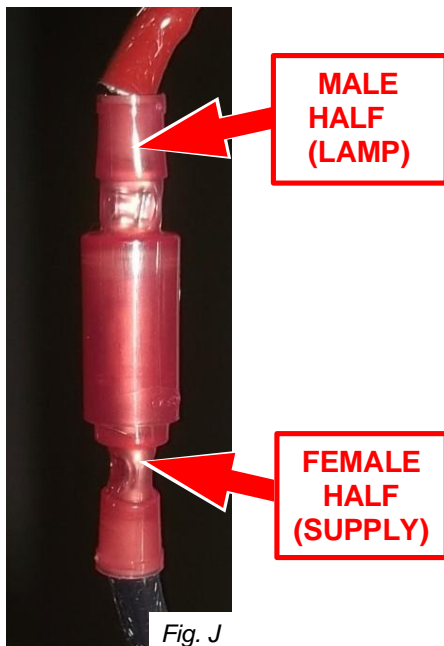
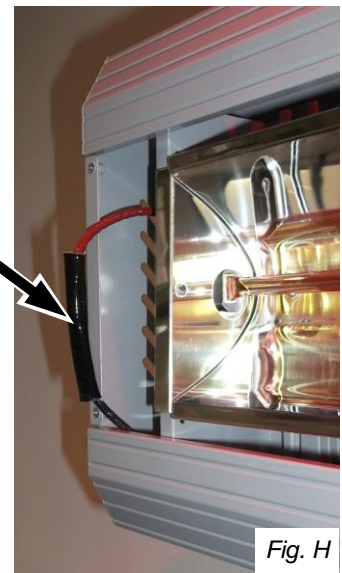


Fig. G

4. Slide the black sleeving (Fig. H) downwards away from the lamp to reveal the quick-fit female/male connector.

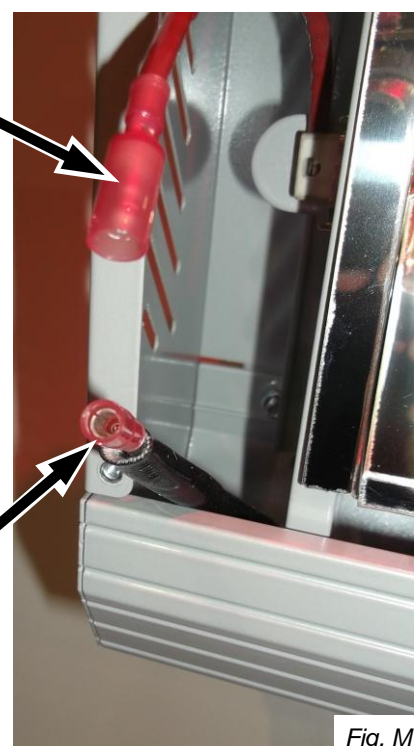
5. Holding the two connector halves as shown in Fig. J on the next page (don't hold by the wires), gently pull apart in the direction shown in Fig. K to separate the connection as shown in Fig. L and Fig. M. Repeat at opposite end of lamp.

**MOVABLE  
PROTECTION  
SLEEVE**



**MALE CONNECTOR  
FROM LAMP  
WIRE**

**FEMALE  
CONNECTOR  
FROM LIVE  
SUPPLY**



6. Remove the lamp holding clips (Fig. N) by squeezing the clip together and lifting away as shown in Fig. P.

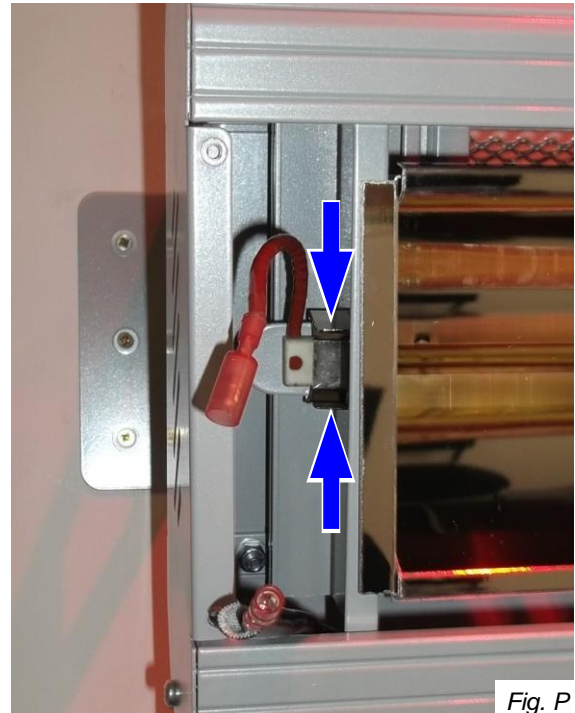
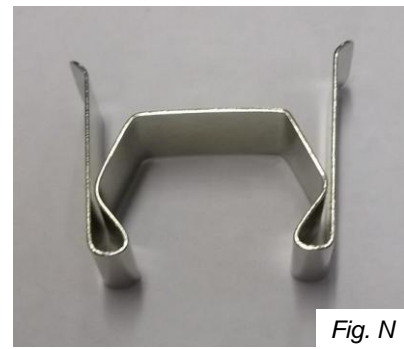
7. Slide the lamp out through the extrusion feeding one way first with the wire and then the opposite way to take out and remove. Take care not to scratch the reflector surface.

8. Refit the new lamp. Take care not to mark the reflector or touch the new lamp with the hands (see note on page 17).

8. Replace the lamp holding clips. Make sure they are firmly in place over the white ceramic ends of the lamp.

10. Refit the male and female connectors by fully pushing together. Cover and refit the black sleeve.

11. Replace the front side and or middle covers in reverse order and then refit the wire guard(s) if originally fitted.



## PRODUCT GUARANTEE - PLEASE READ CAREFULLY

This product carries a full 24 month warranty from original date of purchase when used in accordance with these instructions. This excludes lamp\* when used in a commercial application which then carry a 30 day warranty from original date of purchase. This is subject to the heater being installed correctly. Should you be in any way uncertain, please contact us via +31 (0)78 850 3031 or mail [info@easycomfortwarmte.nl](mailto:info@easycomfortwarmte.nl).

Should your product be faulty, please contact the distributor your purchased it from in the first instance.

Always retain your receipt as proof of purchase.

\*(excludes breakages)

*Apollo 'A' type**Apollo 'J' type**Apollo 'K' type**Apollo 'B' type**Apollo 'C' type**Apollo 'E' type**Apollo 'F' type**Apollo 'L' type**Apollo 'A' Recess type**Apollo 'J' Recess type**Apollo 'K' Recess type*

## INFORMATION FOR EU-MEMBER STATES:

The use of this symbol indicates that this product may not be treated as household waste. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. For more detailed information about recycling of this product, please contact your local council, your household waste disposal service or the shop where you purchased the product.



## DECLARATION OF CONFORMITY

This product complies with the Harmonised European Standard: EN 60335-1:2012 in conjunction with EN 60335-2-30:2009 + A11 and EN 62233 and the European Standard Electromagnetic Compatibility EEC Directives 2004/108/EC and 89/336/EEC.



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