

Mounting

- 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.
- 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.
- 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 2 and 3.

Always isolate the heater from the mains supply when adjusting the angular position.

Maintenance

In the event of heater failure or for spare parts or advice, please contact the manufacturer in the first instance.

- Disconnect from the mains before commencing any maintenance procedure including cleaning.
- To ensure optimum heat effectiveness, periodically it is recommended the guards and lamps should be removed to gain access to the reflector, which should be wiped with a lint-free cloth before reassembling. Please take care not to handle the lamp with bare hands.

Replacing the Lamp

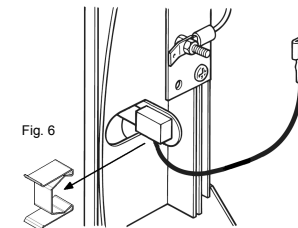
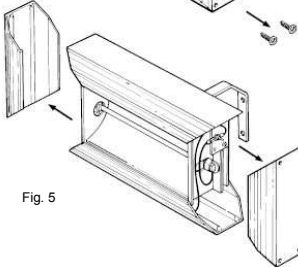
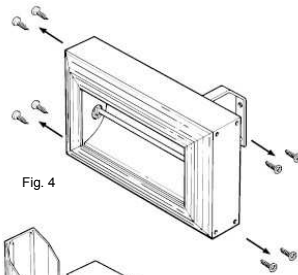
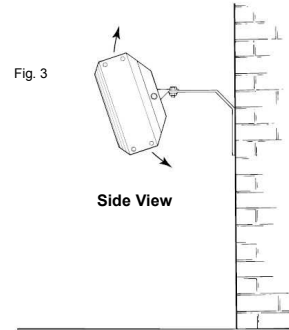
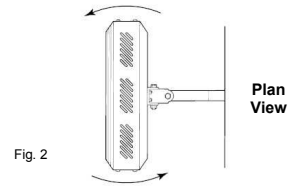
1. Disconnect from the power supply and remove the heater from wall fixings before attempting to replace any lamp.
2. If a guard is fitted, remove it by flexing one end.
3. Remove the screws from the end extrusion(s) and fascia panels (fitted between lamps on large models) adjacent to the failed lamp (see Fig.4).
4. Remove the panels to expose the lamp connections (see Fig.5).
5. Disconnect lamp leads from terminal plates, and remove lamp retaining clips (see Fig.6).
6. Slide the lamp out through the extrusion.
7. Fit a new lamp, taking care not to mark the reflector or handle the lamp (see caution note).
8. Replace lamp retaining clips and connect the new lamp leads to the terminal plates, ensuring live/neutral leads are also reconnected.
9. Replace the end extrusion(s) and fascia panels securely, using the fixings previously removed and refit the guard.

Caution. Do not handle lamp with bare hands. Remove finger marks with a soft cloth and methylated spirit or rubbing alcohol. Finger marks will burn into the quartz glass causing premature lamp failure.

Please note: Apollo outer casing can reach high temperatures.

Following information is only 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.



TANSUN QUARTZHEAT

Reference Manual

Apollo

UK & EUROPEAN MODELS



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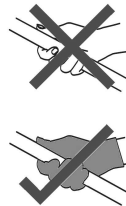
Introduction

Tansun's range of linear quartz heaters are carefully designed to blend into environments old and new, providing a cost effective, pollution free heater.

Please read the 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.

Caution

- 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 fixed to the mounting bracket on the wall.
- Disconnect from the supply by removing the plug from the mains socket (or disconnect pole switch) during installation, cleaning and/ or lamp replacement and always ensure that the lamp is cool.
- The heater must not be located immediately below a socket outlet.
- Do not handle the halogen lamp with bare hands. If it is inadvertently touched, remove finger marks with a soft cloth and methylated spirit or rubbing alcohol, otherwise the marks will burn into the quartz glass, causing premature heater failure.
- Do not use an extension cord with this product.
- Keep the mains cord away from the body of the heater which will get hot during use.
- Do not cover or obstruct the heater when in use.
- Ensure that children do not tamper with the heater.
- Do not insert any object through any slot or opening in the heater.
- Do not install less than the minimum mounting distance from the floor.
- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
- WARNING: This heater is not equipped with a device to control the room temperature. 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.
- This heater is for indoor use only - do not install outdoors or use the heater in a damp area, for example a bathroom or near to a swimming pool.
- WARNING: This appliance must be connected to a supply that is earthed!



Risk of Fire

Keep combustible materials such as furniture, papers, clothes and curtains at least 1.8m (6 feet) from the front of the heater and away from the sides and rear.



Specification

Table 1 UK AND EUROPEAN HEATERS

Model (without guard)	Voltage (V)	Lamps x power (kW)	Total power (kW)	Phase supply (V)	Amps per phase (A)	Minimum height from floor	Minimum distance from ceiling	Minimum distance from side wall	Dimensions (L x W x D) (mm)	Weight without guard
A1A 010	230	1 x 1.0	1.0	1	4.3	2.1m	0.3m	1.5m	420 x 225 x 115	4.0kg
A1A 015	230	1 x 1.5	1.5	1	6.5	2.1m	0.3m	1.5m	420 x 225 x 115	4.0kg
A1A 020	230	1 x 2.0	2.0	1	8.7	2.5m	0.5m	1.5m	420 x 225 x 115	4.0kg
A1A 030	230	1 x 3.0	3.0	1	13.0	3.0m	0.5m	1.5m	600 x 225 x 115	4.6kg
A1B 020	230	2 x 1.0	2.0	1	8.7	2.5m	0.5m	1.5m	420 x 390 x 115	5.0kg
A1B 030	230	2 x 1.5	3.0	1	13.0	3.0m	0.5m	1.5m	420 x 390 x 115	5.0kg
A1B 040	230	2 x 2.0	4.0	1	17.4	3.5m	0.5m	1.5m	420 x 390 x 115	5.0kg
A1C 030	230	3 x 1.0	3.0	1	13.0	3.0m	0.5m	1.5m	420 x 525 x 115	6.5kg
A1C 045	230	3 x 1.5	4.5	1	19.6	3.5m	0.5m	1.5m	420 x 525 x 115	6.5kg
A1C 060	230	3 x 2.0	6.0	1	26.0	4.5m	0.5m	1.5m	420 x 525 x 115	6.5kg
A1J 020	230	2 x 1.0	2.0	1	8.7	2.5m	0.5m	1.5m	855 x 255 x 115	7.0kg
A1J 030	230	2 x 1.5	3.0	1	13.0	3.0m	0.5m	1.5m	855 x 255 x 115	7.0kg
A1J 040	230	2 x 2.0	4.0	1	17.4	3.5m	0.5m	1.5m	855 x 255 x 115	7.0kg
A1K 030	230	3 x 1.0	3.0	1	13.0	3.0m	0.5m	1.5m	1280 x 225 x 115	10.0kg
A1K 045	230	3 x 1.5	4.5	1	19.6	3.5m	0.5m	1.5m	1280 x 225 x 115	10.0kg
A1K 060	230	3 x 2.0	6.0	1	26.0	4.5m	0.5m	1.5m	1280 x 225 x 115	10.0kg
A3C 030	400	3 x 1.0	3.0	3*	4.3	3.0m	0.5m	1.5m	420 x 525 x 115	6.5kg
A3C 045	400	3 x 1.5	4.5	3*	6.5	3.5m	0.5m	1.5m	420 x 525 x 115	6.5kg
A3C 060	400	3 x 2.0	6.0	3*	8.7	4.5m	0.5m	1.5m	420 x 525 x 115	6.5kg
A3E 060	400	6 x 1.0	6.0	3*	8.7	4.5m	0.5m	1.5m	855 x 632 x 115	13.5kg
A3E 090	400	6 x 1.5	9.0	3*	13.0	5.0m	0.5m	1.5m	855 x 632 x 115	13.5kg
A3E 120	400	6 x 2.0	12.0	3*	17.4	5.0m	0.5m	1.5m	855 x 632 x 115	13.5kg
A3K 030	400	3 x 1.0	3.0	3*	4.3	3.0m	0.5m	1.5m	1280 x 255 x 115	10.0kg
A3K 045	400	3 x 1.5	4.5	3*	6.5	3.5m	0.5m	1.5m	1280 x 255 x 115	10.0kg
A3K 060	400	3 x 2.0	6.0	3*	8.7	4.5m	0.5m	1.5m	1280 x 255 x 115	10.0kg

Use MCB Type 3 or C.

* Star connection with neutral star point to balance load.

Installation

The models A1A 010, A1A 015, A1A 020, A1B 020, A1B 030 and A1C 030 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 5.0 meters of supply cord and a moulded UK or Euro 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.

The models A1B 040, A1C 045 and A1C 060 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. All other models have a terminal box in which the mains supply cord can be connected.

- Warning - this appliance must be earthed!
- Please observe the minimum safe distance between the heater body and any inflammable surfaces.
- All installations must be in accordance with I.E.E. safety regulations. If in any doubt, please consult a suitably qualified electrician.
- 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.

For industrial installations, the units must be supplied via double pole miniature circuit breakers (MCB) with instantaneous coefficients in the range 7 to 10 with a separation of at least 3mm between contacts. Refer to Table 1 for MCB ratings.

1. Remove cover from terminal box mounted at the rear of the heater.

2. Select which knock-out hole is to be used in the terminal box and remove the blanking piece and fit the strain relief bush.

3. Select a suitable heat resistant supply cord (see Table 1 for ratings) and feed the through strain relief bush and connect to the terminal block and earth stud (as shown in Fig. 1).

4. Fully tighten the cord grip on the strain relief bush.

5. Replace the terminal box cover.

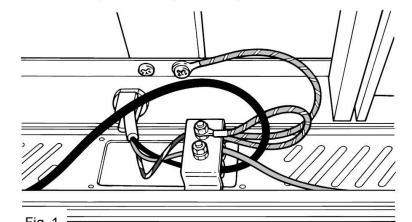
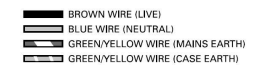


Fig. 1