

## Ascot Solarium Installation Instructions



**Please note:** This equipment must be installed in accordance with the current edition of the IEE wiring regulations BS7671 18<sup>th</sup> edition by suitably qualified personnel. These regulations contain important requirements regarding the safety of electrical equipment. For International Standards refer to IEC 60364.

### 1.0 Overview

The **BaskZone® Ascot** 6kW solarium is designed to deliver a broad infrared heat distribution by the positioning of the heaters above and to both sides of the horse at approximately two meters from the horse's flanks. The twin elements and parabolic reflectors provide a broad and even infrared distribution at this distance. The IP25 rated infrared heaters are splashproof and can be wiped clean. Regular removal of any dust on the reflectors is recommended to ensure performance and maintain maximum heat output.

- Instant heat output – no warm-up required
- Fully controllable using supplied controllers
- Tilt-adjustable mounting brackets
- Full wrap-around heat
- Stainless steel safety grille (optional)
- Integral eyelets for suspension from chains / wire rope

A key principle of the BaskZone® Ascot Solarium is that the heaters are mounted at a safe distance from the horse.

This allows access to the horse for treatment and handling, and the horse is free to move around within the infrared zone.

In open areas, cross tying or ring tying may be appropriate.

The infrared elements are available as replacement parts from BaskZone®

**Figure 1 – Ascot Solarium layout:**



## 2.0 Installation

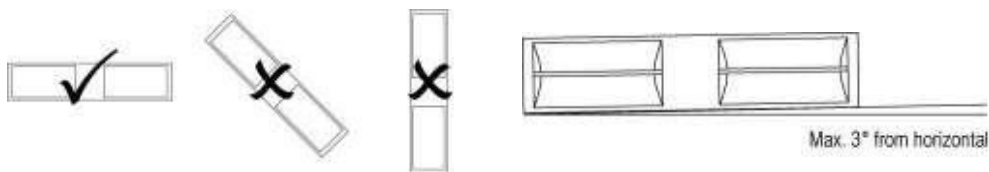
### 2.1 Siting the Ascot infrared Heaters

The Ascot heaters should be mounted on a sound, vibration-free wall or ceiling using the brackets supplied. Alternatively, the heaters can be suspended using the four eyelets on the casing.

**Figure 2 - Siting the Ascot infrared Heaters:**



**Figure 3 – Heater orientation:**

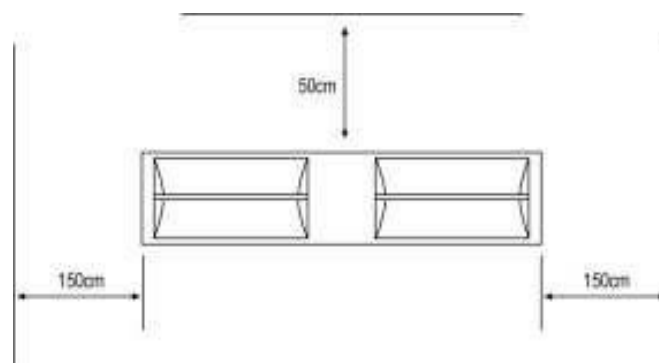


The Ascot Solarium comprises of two Infrared heaters of which both should be within 3° of horizontal. The heaters must be mounted above and to the sides of the horse, aiming down at approximately 45° as shown in Figure 2. The heaters produce a broad and even distribution of infrared radiation at 1.8 to 2.5 meters from the face of the heaters. Ideal mounting heights for a horse of 17.2 hands are:

Distance between side walls	Height to underside of heater bracket
4.2m	2.55m
3.0m	3.0m

Adjust height downwards by 102mm per hand for smaller horses (a hand measures 4" or 101.6mm). Please note, the distances indicated are for guidance. Below are guidelines for recommended clearances to the sides and above the infrared heaters. In situations where these clearances cannot be achieved, it may still be possible to install the solarium satisfactorily.

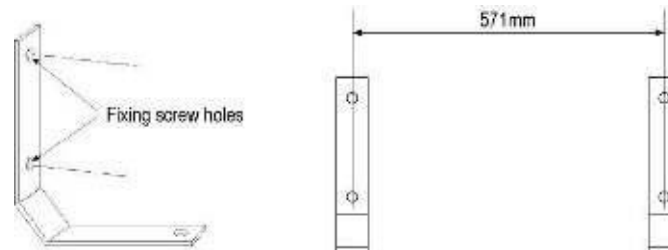
**Figure 4 - Recommended clearances:**



### 2.2 Mounting brackets

Two mounting brackets are provided for each heater. They should be spaced as follows:

**Figure 4 - Mounting Brackets:**

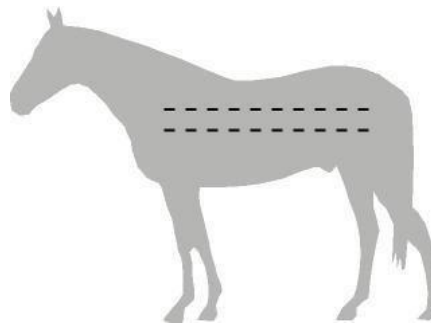


It makes no difference which way up the brackets are as long as they are securely fixed at the correct spacing.

### 2.3 Angling the Ascot infrared heaters

The infrared heaters should be centred on the horse's body on either side and angled so they are pointing at the midline of the body or slightly above (i.e., a line running between the shoulders and flanks). If the subjects are of differing sizes, the optimal angle will be an average of the midlines.

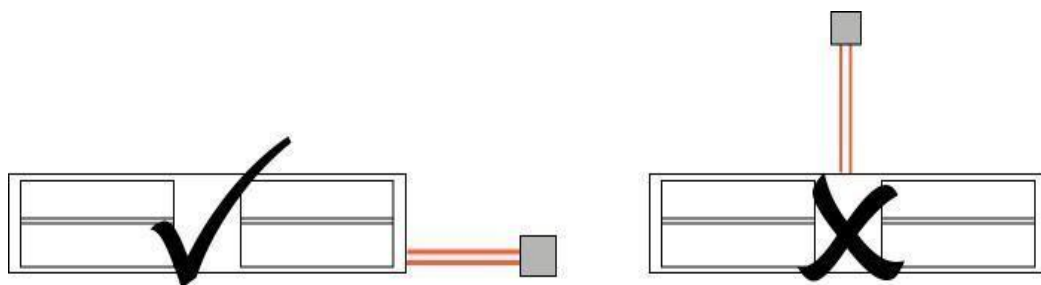
**Figure 5 - Where the infrared Heaters should be pointing:**



### 3.0 Wiring

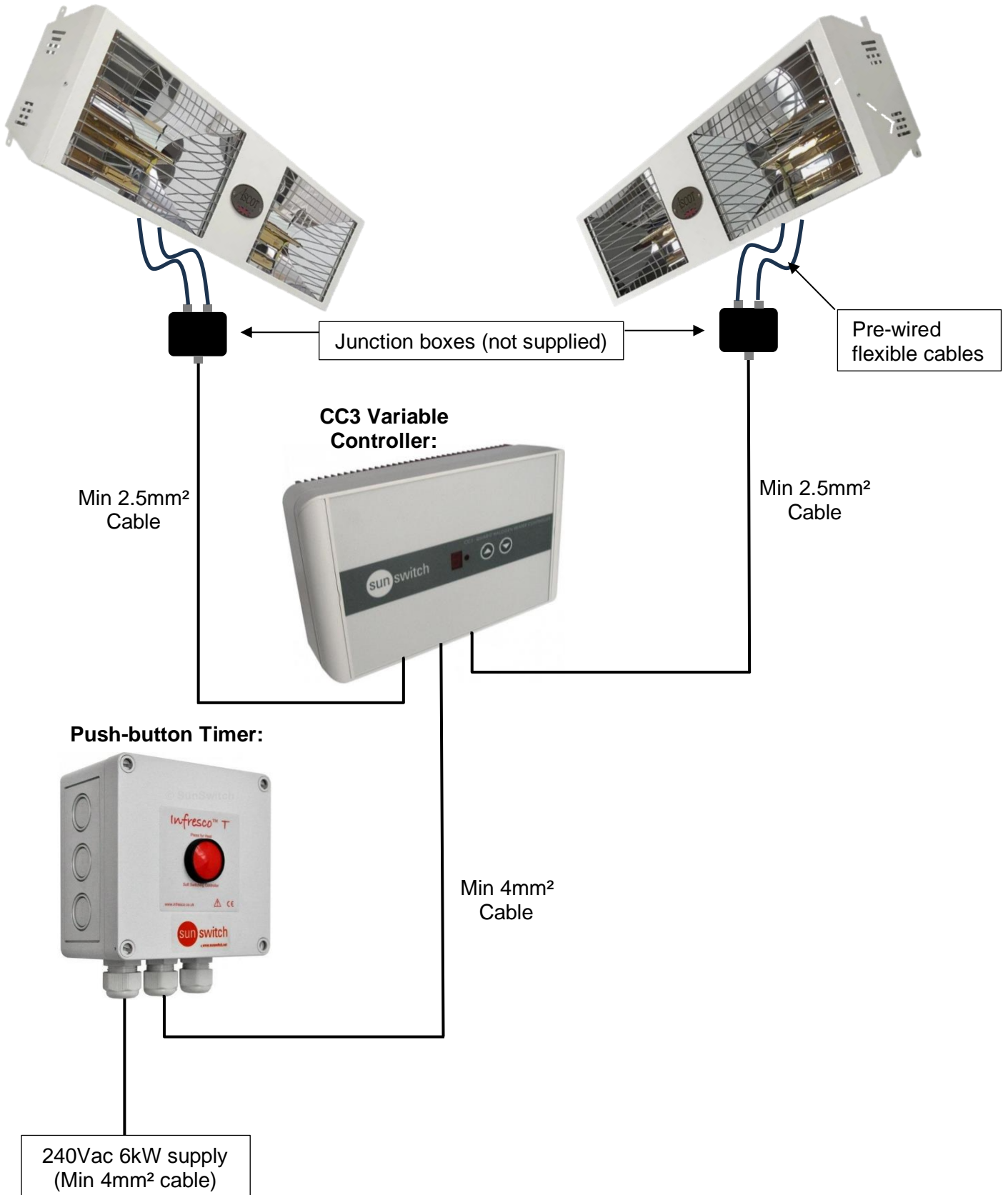
Both infrared heaters have two, 3-core flexible cables, exiting the rear of the heater; one for each infrared element. These two cables should be wired in parallel, in a waterproof-proof junction box with a rating of IP65 or above. The junction box should not be installed above the heater.

**Figure 6 - Cable routing to Junction box:**

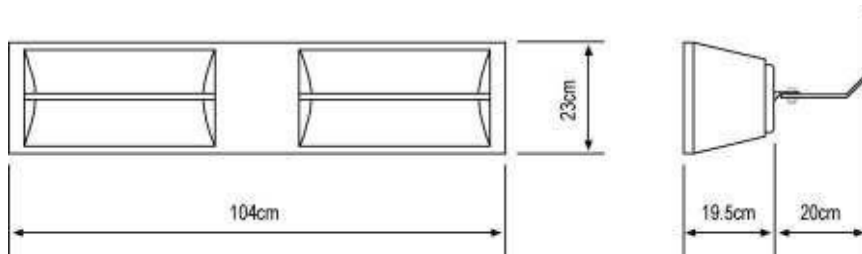


### 3.1 Wiring Diagram Layout

The Ascot Solarium runs at 220 – 240Vac single phase. The maximum load of the two heaters combined is 6kW 240Vac, which will require a 6kW rated supply and earth. The supply first goes to the push button timer controller, then out into the CC3 variable controller. From here, two outgoing cables will supply two separate junction boxes which terminate both heaters. (cable and junction boxes not supplied)



## 4.0 Technical Specifications



Heater rating	3kW (2 x 1.5kW) (IP25)
Push-button timer rating	6kW (IP65)
Variable controller rating	6kW (IP65)
Supply voltage	220 - 240Vac 50 to 60 Hz single phase
Wiring	2x 3-core 1mm <sup>2</sup> cables (pre-wired)
Enclosure	Mild steel powder coated
Safety grilles	Stainless Steel
Reflectors	Optically designed parabolic reflectors
Reflector material	Polished aluminium
Heater rating	IP25
Dimensions	104 x 23 x 19.5 cm
Weight	8.5 kg (nom.) each
Gross shipping weight	22.5kg (complete Solarium)



CE Approved



This product must be disposed of responsibly at the end of its operating life. Please take to a waste collection Centre for electrical or electronic equipment

### Warranty

This product is covered by a 2-year warranty covering defective materials and manufacture. This does not affect your statutory rights.

*Specifications may change without notice. No liability can be accepted for any errors or omissions, or for any loss or injury arising from the incorrect installation, use or disposal of this product.*

**BaskZone® - The Equine brand of SunSwitch®**

Telephone +44(0)1424 533 215

[www.baskzone.com](http://www.baskzone.com)