

ASCOT Equine Solarium

Twin Infrared Emitter

Installation Instructions



Please note: This equipment must be installed in accordance with the current edition of the IEE wiring regulations (BS7671) by suitably qualified personnel. These regulations contain important requirements regarding the safety of electrical equipment. For International Standards refer to I.E.C. Directive IEC950.

1.0 Overview

The ASCOT infrared emitters are intended to be mounted above and to both sides of the horse, approximately 2 metres from the horse's flanks. The twin elements in the heaters and parabolic reflectors provide a broad and even infrared distribution at this distance. The ASCOT infrared emitters are IP25 rated and can be rinsed clean. Regular removal of any contaminants is recommended to prolong the operating life of the emitters and maintain infrared output.

- Instant heat output – no warm-up required
- Fully controllable using Solarium Pro controller
- Tilt-adjustable wall-mounting brackets
- Rinse clean
- Stainless steel safety grille
- Integral eyelets for suspension from chains

A key principle of Equine SunSwitch Solariums is that the emitters are mounted at a safe distance from the horse. This permits 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 high-grade infrared elements are available as replacement parts only from Equine SunSwitch.

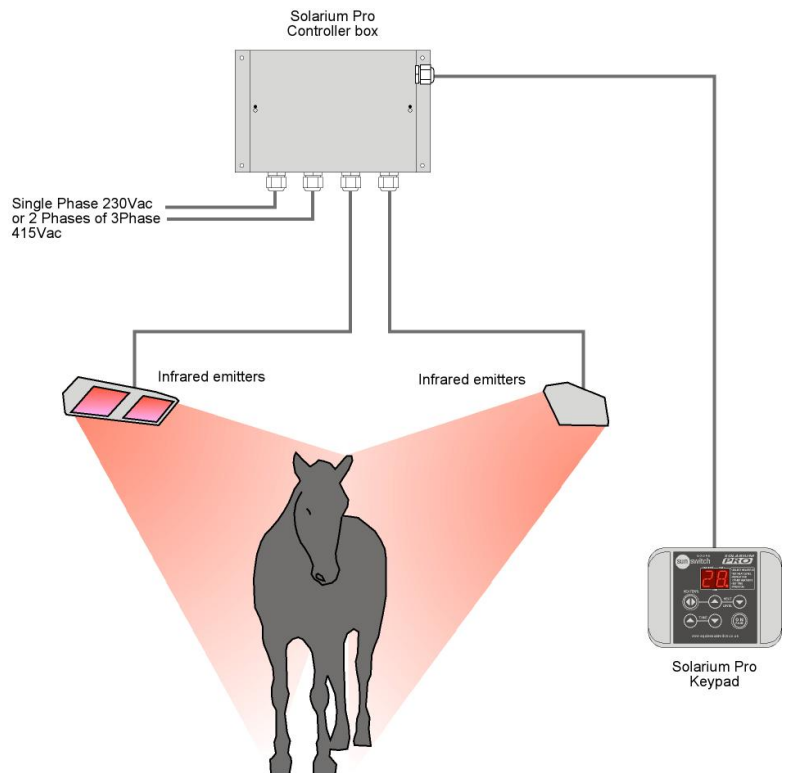


Figure 1. Typical solarium layout (ASCOT model)

2.0 Installation

2.1 Siting the ASCOT infrared emitters

The ASCOT emitters must be mounted on a sound, vibration-free wall using the wall brackets supplied. Alternatively, the emitters can be suspended using the four eyelets on their backs.

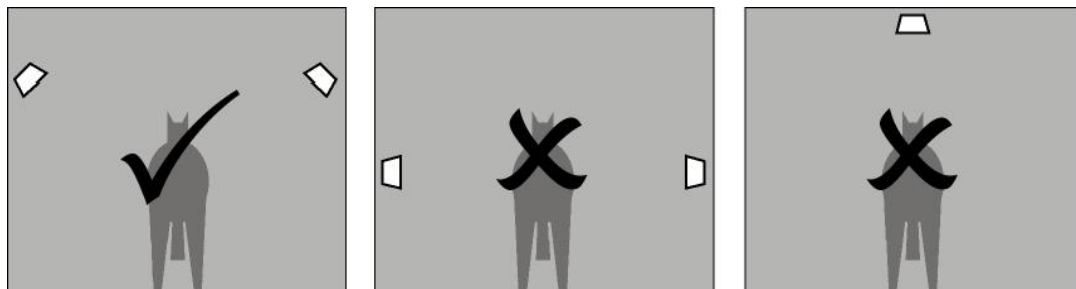


Figure 2. Siting the ASCOT infrared emitters

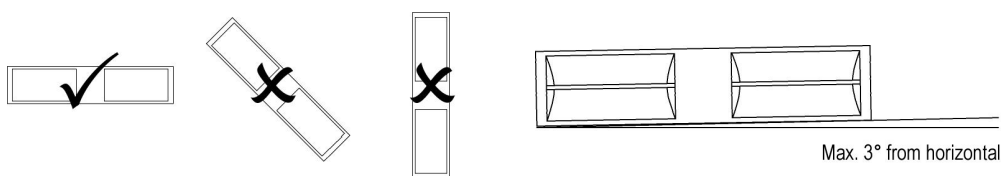


Figure 3. Emitter orientation

Two twin emitters are required per solarium. Both must be mounted with the elements within 3° of horizontal. The emitters must be mounted above and to the sides of the horses as shown in Figure 2. The emitters produce a broad and even distribution of infrared at a distance of 1.8 – 2.5 metres from the front of the emitters. 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 top of the infrared emitters. In situations where these clearances cannot be achieved, it may still be possible to install the solarium satisfactorily. Please telephone us for advice on 01424 883344.

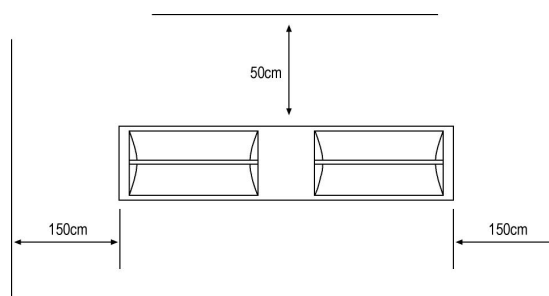


Figure 4. Recommended clearances

2.2 Mounting brackets

Two wall-mounting brackets are provided for each emitter. They should be spaced as follows:

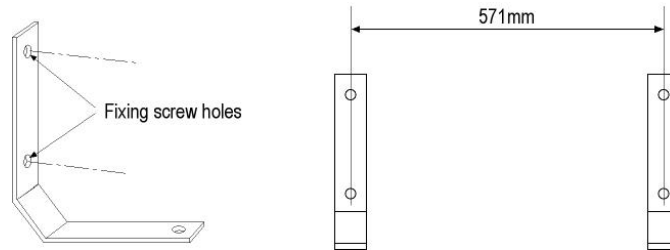


Figure 4. Mounting Brackets

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

2.3 Angling the Ascot infrared emitters

The infrared emitters 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.

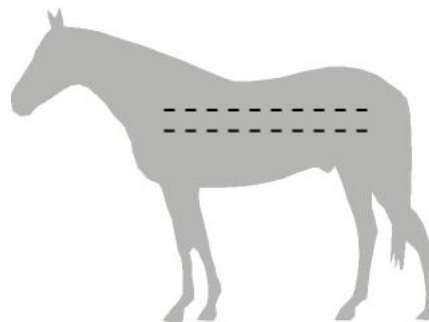


Figure 5. Where the infrared emitters should be pointing

3.0 Wiring

Each emitter has two 3-core high temperature silicone insulated flexes, one for each infrared element. It is vital that the emitters are properly earthed by both flexes. The elements must be wired in parallel to the splitter box provided or to a similar splash-proof box with a rating of IP65 or above. The splitter box should not be installed above the emitter:

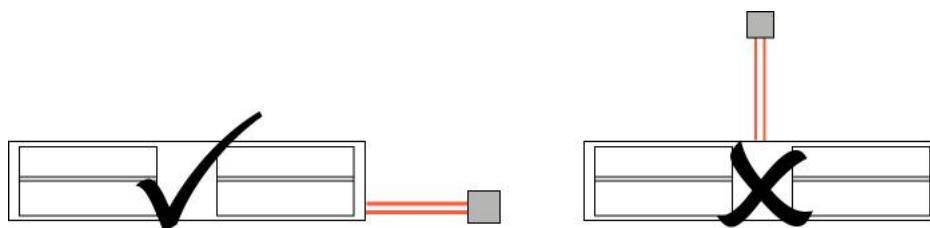
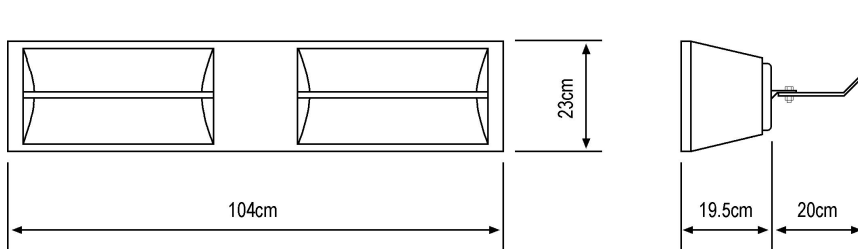


Figure 6. Cable routing to splitter box

4.0 Technical Specifications



Maximum load per twin emitter	3kW (2 x 1.5kW)
Supply voltage	220-240V ac 50 – 60 Hz single phase
Wiring	Two 3-core 1.5mm ² cables
Enclosure	Mild steel powder coated RAL 9016
Safety grilles	Stainless Steel
Reflectors	Optically designed parabolic reflectors
Reflector material	Polished aluminium
Protection	IP25
Dimensions	104 x 23 x 19.5 cm (whd)
Weight	6.9 kg (nom.) each
Gross shipping weight	7.5kg (nom.) each



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 12month 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.

CUSTOMER HELPLINE: 01424 883344

SunSwitch Limited Unit 3 Burnt House Farm Broad Oak East Sussex TN31 6BX UK
Telephone +44(0)1424 883344 Fax +44(0)1424 882310 www.equinesunswitch.co.uk