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We're Having a Heat Wave



***Salamander* ESE Heaters for Use with Animals**

The use of infrared heat is most commonly associated with the needs of people, but the Edison Screw Base (ESE) heater is especially adaptable for use with animals. It's delicate nature provides natural sun-like heat to provide animals with the warmth they require, whether it be for comfort, incubating or therapeutic needs. The Edison screw-base design fits in an ordinary light bulb socket with a sufficient wattage rating.

Ceramic heating elements were designed specifically for use with pets such as lizards, iguanas, geckos and other reptiles, birds, domestic pets, exotic and tropical animals, arboreal snakes, and in environments such as zoos, veterinary clinics, and animal boarding or breeding. They are an improvement over ruby red heat lamps or regular light bulbs which emit

light, have hot spots because the coil is visible, break or shatter easily, have a short life span, and emit a lower percentage of infrared heat. Infrared heat travels through the air until it contacts a solid object. It heats objects, not the air, which makes it a more efficient heat source than heat rocks, mats or bulbs, or the above mentioned lamps.

Ceramic heaters do not emit light, which can be irritating and disturb the natural light/dark awake/asleep cycle. Using a gentle, evenly heated, ceramic heater instead of heat lamps also eliminates infrared hot spots created by the glowing element inside the bulb. Replacing fan-forced air heating avoids the problems of blowing dust around and creating drafts, and high heat loss where the heated air rises to the ceiling.

Infrared energy also promotes health and healing of animals because it dilates the blood vessels and increases the bloods circulation of oxygen and nutrients. It penetrates deep into skin and muscle tissue, provides comfortable heat, reduces soreness and stiffness of joints and muscles. It also benefits the immune system and reduces stress by creating a more ideal environment, similar to the way an infrared sauna effects humans. Some users of ceramic heaters have reported that their animals are larger, healthier, lay more eggs, eat better and are much more active when using infrared heat.

Because all species of animals have specific temperature requirements, and there are a variety of cages available, the distance from the cage and wattage of the heater you should use, will vary. Research the internet or other herpetology resources for information about the animal being heated and the geographical region it is native to, for temperature ranges that are optimal. By checking temperatures at many different places in the cage you can learn how to best place the ceramic heater and reflector.

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An average guideline is as follows:

60 Watt: 10-14 inches, 100 Watt: 12-16 inches, 150 Watt: 14-24 inches, 250 Watt: 22+ inches

The use of infrared heat with animals is a huge market that is relatively untapped in the United States, and easily provides the most suitable alternative for existing heat sources or new applications. Consult this page on our web site for additional information: <http://www.InfraredHeaters.com/ESE.htm>.



Custom Design

One of the advantages of a small company is that we have no problem doing things “your way.” The above photo is of a recent oven fabrication designed for curing medical equipment in the production process.

The oven, designed to the customers specifications, by our engineer Mark Jackson, is simply composed of six SWB/R/A/3 reflector assemblies holding 18 FTE-400 elements. The fixtures are encased in a cylindrical stainless steel housing which opens in clam shell fashion.

The manufacturer, who wishes to remain anonymous due to the confidentiality of the process, supplied the basic concept parameters. The heating requirements and pattern were configured by our engineering staff and formed the basis for the finished product.

In this way, processes can be developed to conform to the end users exact needs. It’s fun, it’s exciting, and innovative to use the basic *Salamander* products to create a prototype piece of equipment exclusive to the customer, and easier than you may think. So, don’t hesitate to offer the customer the opportunity to do it “his way.”

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