

Edinburgh Zoo Tiger Enclosure Heating

HEATCOM

SMART HEATING SOLUTIONS



200W heating mats



Edinburgh
Scotland



Thermostat
controller



The Goal

The Royal Zoological Society of Scotland (RZSS) Edinburgh Zoo recently invested in a new enclosure for an adult breeding pair of Sumatran tigers. The state of the art enclosure named 'Tiger Tracks' is triple the size of their old home, with heated areas to mimic the warmth of their native Indonesia. The enclosure required the best possible finish for these precious animals, which led the zoo to install Heatcom's high-quality underfloor heating (UFH) in the den.

Opened in June 2016, the £0.5m Tiger Tracks enclosure features a spectacular ground level viewing tunnel for visitors, covered pathways, feeding post and cubbing den. The immersive facility also boasts climbing structures, ponds to splash in, a new indoor house and heated rocks to relax on, courtesy of Heatcom.

RZSS CEO, Chris West was delighted to develop a modern, dynamic enclosure to cater for the needs of visitors as well as animals. "As part of the ongoing Big Cat Strategy of RZSS, we are extremely pleased to be able to create this tailor-made enclosure that truly delivers on welfare, breeding and visitor experience," he said. "It is our hope that we will be able to increase a captive bred reserve population of this endangered species.

"The zoo approached Heatcom to develop a heating solution for three dens that range in size from 1.87m² - 7.84m². The heating mats are the

About Heatcom

At Heatcom, we are specialists in electric heating solutions for indoor and outdoor environments.

Founded in Denmark, we deliver high-quality, energy-efficient, and easy-to-install systems to customers around the world. Our product range includes underfloor heating, ice and snow melting

latest the zoo has specified from Heatcom. Meerkats and Pandas are already enjoying the benefits of their UFH systems fitted within their enclosures. Heatcom has worked with other zoos including ZSL Whipsnade and Dartmoor Zoo to provide enclosure heating for a variety of species such as Monkeys, Tapirs and Lions.

The Solution

Heatcom's team of specialists advised the zoo on the best system to fit within Tiger Tracks and supplied the products via the zoo's wholesaler, Ross Electrical, in Sighthill Edinburgh.

High output 200W heating mats have been fitted on top of concrete plinths, beneath bonded sand and soil inside three of the tiger's dens and another in the cubbing box, providing a comfortable environment for them to relax in.

The zoo's staff can easily control the UFH using Heatcom's intelligent NGTouch thermostats.

The Result

Tiger Tracks is an impressive enclosure intended to be as close as possible to the pair's natural environment and a spacious, stimulating home. Sumatran tigers are rapidly losing their natural habitats and prey; less than 400 now exist in the wild, making conservation and breeding success in captivity crucial to their survival.

200W heating mats were chosen to keep the animals warm and replicate their natural habitat. Heated rocks draw Baginda and Jambi outdoors in any weather, while underfloor heating keeps their dens cosy year-round. With proven experience in animal enclosures, Heatcom was the obvious choice. 'We wanted to use the market leaders in electric underfloor heating,' says Stephen McNamee, Senior Electrician at Edinburgh Zoo

Project in detail

Date Installed

2016

Location

Edinburgh, Scotland

Client

Edinburgh Zoo

Installer

Edinburgh Zoo's electrical engineers

System Specifications:

- 200W Underfloor heating mats
- NGTouch thermostat

INSTALLTION

the system was installed by the Zoo's expert electrical team with support from heatcom. the high output 200W heating mats sit on top of concrete panels within the following spaces providing differing heat outputs:

Cubbing box - 310W

Den 1 - 1,438W

Den 2 - 1,291W

Den 3 - 1,291W

