

## Bristol Zoo, 'Butterfly House' - Kalorina/E 2406



The Butterfly House

### Customer

Bristol Zoo- Butterfly House  
2x Tatano Kalorina/E 2406 (70kW) hot air machine

### Job Specification

The zoo contacted TRECO enquiring about the possibility of heating their 'Butterfly House' with a biomass hot air machine. TRECO underwent a site survey and instructed the Zoo to construct a large enclosure reaching 8 meters high and to section off a control boiler room at either end. Then TRECO installed the boilers, flues, ducting system and heating control system so the boiler's would work together. However, in the event that one boiler should break down the other boiler would take over. Due to the nature of this project (being that the butterflies need heat to survive) it was imperative that this contingency plan was put in place.

## Model/System Used

2x Tatono Kalorina/E 2406 (70kW each)  
Built in 190 litre hoppper  
239,000 BTU

## Fuel

Woodchip & wood pellets

*Always* make sure that the correct fuel is ordered as these boilers need G30 (which specifies the size) & W30 (which specifies the water content).

## Follow Up Assessment

Currently providing heat from both boilers with no recorded problems.

Things to take into consideration when undertaking an installation of this scale:

The impact of not having any heat: there is a contingency plan in place as the second boiler can take over the work whilst the broken boiler is fixed.

Controllability of the machines: temperature levels must be consistent and manageable

Noise level: to the customers and wildlife

Where the ducting goes as it needed to be discreet.



Kalorina 2406 (70kW)



The Butterfly House, with boiler fitted.