

Re St. Michael Wandsworth Common [2023] ECC Swk 2

[6]. The *ChurchEcoMiser* system mimics a 'traditional' radiator and pipework heating system in both style and appearance but without the need for a boiler. Instead, stylish, unobtrusive electric radiators are sited throughout the church to gently warm the fabric of the building, not just the air within it.

The heat output from the *ChurchEcoMiser* radiators is approx. 90% radiant heat and approx. 10% convected heat. Radiant heat will warm the fabric of the building, providing a more even, comfortable temperature which will also help to protect the fabric of the church, which is an important factor when dealing with listed buildings.

When the radiator is first switched on, the internal cells store as much heat as possible; this takes approx. 10 - 20 minutes depending on the size of the radiator. After that, the surplus heat is radiated out from the core and the radiator starts to feel warmer and because of the large surface area of the ribs, heat is dispersed over a wide angle.

The ribs are hollow and full of air and as such act like mini chimneys. This ribbed design allows cold air to be drawn from the floor and warmed as it passes through the top. This 'chimney effect' helps to provide an optimal mixture of convected and radiant heat.