



High Street

Harrods

Payback in
1.09 years

Case Study Harrods

Harrods

Harrods has been trading since 1849 as a family run company which prides itself on a reputation for excellence. Harrods is so vast selling 'Everything for Everyone Everywhere' it is considered a city within a city with the store covering 4.5 acres. Harrods approached Quintex to enhance its already excellent environmental performance.

Project Highlights

217,778 kWh saved per annum

114.3 tonnes carbon saved per annum

Reduced energy consumption – 46%

Annual saving in pounds – £15,271

Pay back of initial investment – 1.09 years

Harrods already have a first class energy service and pride themselves on a reputation for excellence. This has been further enhanced using Quintex's ventilation control system.

As well as the Knightsbridge store, Harrods also has subsidiary companies including Harrods Bank, Estates, Aviation and Air Harrods. Harrods has 25 restaurants within the property as well as its famous Food Hall.

Being environmentally savvy Harrods store generates over 70% of its own electricity from its own generators, as well as drawing water from its three artesian wells.

Due to the large size of the fan, 38kW, in the sub-basement kitchen of the Knightsbridge store Quintex's system has saved Harrods a considerable amount in both energy and carbon savings, resulting in a pay back of just 1.09 years.

The system uses intelligent controls and sensors to detect when cooking activity is taking place, and then uses this information to adjust the speed of the kitchen extract and supply fans accordingly. Due to the laws



of affinity when the fan speeds are reduced to 40% in standby mode of their full speed only 6% of energy is consumed leading to impressive savings.

The system is regularly monitored so savings can be calculated and reported. The system identifies not only energy consumption but flow rates in the ducts assisting in preventative maintenance of the fans and belts.

Harrods continue to improve their energy efficiency and lower their dependence on grid power and Quintex are proud to be part of such a large energy reduction campaign in a complex and challenging building.

With energy price increases now happening on a regular basis, the system will continue to provide savings for Harrods and hopefully savings for "Everyone Everywhere".

The Cheetah system was installed across all kitchens at Harrods.