



Velocity

Daikin air conditioning boosts Velocity's 'green' credentials

Energy efficient heat recovery air conditioning from Daikin UK enhances the green credentials of a stylish office development designed to attract 'head office' tenants at Brooklands, in Surrey.

With their Breeam 'excellent' rating and low B ratings for energy performance, the two buildings in the 9,885m² Velocity development sport a range of environment friendly systems to create a top-class workplace that is economically attractive to both landlord and tenants.

Named to evoke memories of Brooklands' aviation and motor racing past, the five-storey Velocity buildings symbolise streamlined speed and their systems reflect the best in technology.

Solar shading on the south-facing aspects reduces solar gain, while rooftop photovoltaic and solar thermal arrays provide renewable alternatives for some of the buildings' energy needs.

Daikin UK's VRV III heat recovery systems were specified for Velocity's office heating and cooling needs by building services engineer Peter Wright.

He explained, "We are using heat recovery in its simplest sense – using waste energy from warm areas to heat cold areas.

"Daikin is a personal preference of mine as I have had a longstanding relationship with them. They were first with VRV and have led the field with improvements to the concept. Their systems are very reliable."

Some 28 VRV III HR compact condensing units and two VRV III heat pumps were installed at Velocity, giving a total of 358hp of air conditioning power. This is used to supply 256 ducted fan coil units of various capacities.

The entire air conditioning system is controlled automatically by the Building Energy Management System, which is programmed to keep indoor temperatures at 22-23°C all year.

The project, developed by Exton Estates for the Rockspring Property investment Fund, was built speculatively in readiness for the end of the recession. It was originally intended to achieve a ‘very good’ Breeam rating, but this was raised to ‘excellent’ when points for better building practices were added to those already scored for active and passive energy management.

KIT LIST

Code	Description	No of units
REMQ P8	VRV Heat Recovery compact	28
RXYQ P9	VRV Heat Pump compact	2
FXSQ P	Ducted fan coil unit	256
DCS601C51	I-touch Controller	10

