

Office premises in Malvern



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'Techno' firm future-proofs new premises with Daikin R32 systems

Office premises for a newcomer to the cluster of technology companies in Malvern, Worcestershire, have been future-proofed with the latest R32 air conditioning systems from Daikin UK.

The company recently moved into the two-storey unit, which totals about 100m². The ground floor consists of a reception area, meeting room and a small server room. There is an open office on the upper floor.

When the property was being refurbished for the new tenant, Wayne Young of Malvern-based Daikin D1 Partner Young Air Conditioning, was called in to advise on a new heating and cooling solution.

He says: "We were recommended by the landlord, for whom we had worked previously.

"The premises had electric storage heaters and some existing air conditioning split systems. The heaters fell short of modern energy efficiency

standards and the air conditioning systems were nearing the end of their economic lives – there were both R407c and R410a systems that would eventually have to be replaced.

"Rather than facing the need for systems to be upgraded in a few years' time, the new tenant opted for the Daikin R32 alternative for heating and cooling.

"This decision means the company should not need to be disturbed for anything more than routine servicing of its air conditioning systems for at least a decade – and possibly even more than 15 years. Meanwhile, it will enjoy the economy and efficiency of a modern heating and cooling system."

The storage heaters and old systems have gone and in their place is a neat line of four outdoor units, each connected to a wall-mounted indoor unit. There is a 7.1kW system for the double volume reception area, a 3.5kW system in the meeting room, a 2.5kW system in the server room and a 5.0kW system in the upstairs office.

Year of installation

> 2016

Project requirements

- Air conditioning
- Air curtain
- Air purification
- Control
- Heating
- Hot water
- Refrigeration
- Ventilation

Installed systems

- > FTXM-M R32 wall mounted unit
- > RXM-M R32 Out door unit



Wayne Young is no stranger to Daikin R32 systems, having installed one of the first in the UK – for a first floor bedroom in a barn conversion.

He says: “The solution chosen was a Daikin R32 Emura wall mount system in matt Crystal White. The property had been furnished to a very high standard: therefore the Emura’s sleek modern design was well-suited to the room. The outdoor condensing unit was mounted at high level because the base of the external wall kicked out. The condensing unit was complemented with matching cream/ivory trunking.”

Daikin’s R32 systems are designed to smoothe the transition from high to low global warming potential (GWP) refrigerants during the phase-down of HFC gases such as R410a. R32 is a 50% component of R410a, but used on its own has a substantially lower GWP rating – 675 against 2088.

Although very similar to their R410a counterparts, Daikin UK’s R32 systems need a smaller refrigerant charge and offer greater energy efficiency.

Kit List

Code	Description	No of units
FXTM-M	R32 wall mounted unit	4
RXM-M	R32 outdoor unit	4

Wayne Young says:

“Switching to R32 is a sensible alternative for any user needing to replace split systems. Energy efficiency translates to long-term savings on operating costs, while the lower GWP and smaller refrigerant charge reduce carbon footprints.”