

Lansdowne Road, Cambridge



Cambridge family graduates to a cool new Daikin R32 solution

When a Cambridge academic's stylish contemporary house proved to be several degrees too hot for comfort in summer, an R32 air conditioning solution from Daikin UK was the perfect solution.

The extensively modernised four bedroom house on the edge of the city now has high-tech, low-carbon climate control systems.

The systems were installed by Cambridge-based Daikin D1+ partner Airway Air Conditioning. Managing Director Mark Lewis says the R32 solution was an excellent fit for the family.

He says: "They've got a beautiful newbuild house but it's very well insulated and has a lot of glazing – therefore a lot of heat gain. Air conditioning was an absolute must for them.

"It was a house that was very nice to be in until the sun came out, but then it became too hot very quickly. Now, with systems that can also provide heat, it's a perfect space to be in all year round – regardless of temperature."

Airway installed three R32 split systems:

- An 8kW outdoor multi-split unit serves two 4.2kW FTXM wall mounted fan coil units in the kitchen area.
- A 9kW outdoor multi-split unit serves two stylish 5kW Emura fan coils – in the lounge and guest bedroom – plus a 2kW FTXM wall mounted unit in the gym.
- A 5kW outdoor single split unit serves an FTXM wall mounted fan coil in the main bedroom.

All the FTXM fan coils feature Daikin's latest Flash Streamer air purification technology.

"All the units have individual infra-red controllers, but they are also fitted with wi-fi cards, so the owners can control their systems via the internet and an app on their mobile phones," says Mark Lewis.

And, he says, the units are grouped so that they can be turned on or off in a single action.

Year of installation

› 2017

Project requirements

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

Installed systems

- › R32 Multi split outdoor units
- › R32 Single split outdoor unit
- › Wall Mounted unit
- › Emura indoor unit

He says because of their environmental concern, the owners had insisted the systems should have the lowest possible carbon footprint, so the low global warming potential of the Daikin R32 systems was a big attraction.

"We introduced them to the possibilities of Daikin R32 systems when we were exhibiting at Grand Designs in London last year.

"As a family, they are very technology-focused. They chose the Daikin solution because they are early adopters of new technology and they liked the ability to control their systems through wi-fi, the Daikin Flash Streamer air purification technology and the flexibility that the R32 range could offer them.

"As a retrofit installation it was quite challenging because we wanted things to be as unobtrusive as possible. The outdoor pipework is concealed in trunking and indoors, we were able to route the pipe through hidden spaces. Overall, the result has been very good."

Airway provides ventilation, air conditioning and refrigeration services across East Anglia and further afield to areas such as North London, Milton Keynes and Northampton.

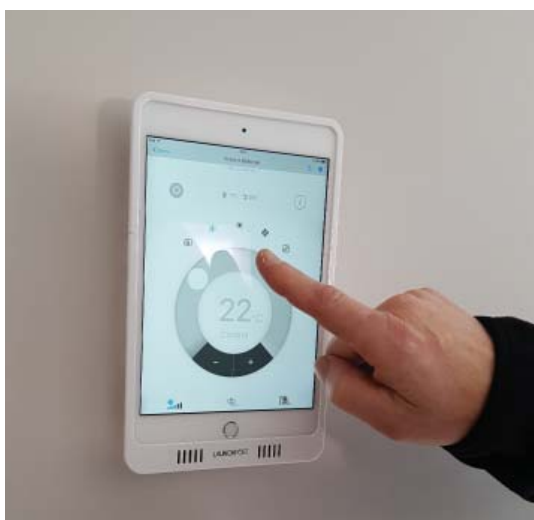
Mark Lewis says: "A colleague and I attended one of the first R32 training sessions at Daikin. We were instructed about the differences between R410a and R32 – and the different tools and equipment. As R32 is a 50% component of R410a, there's basically very little difference from an installation point of view."



Daikin UK says the key benefit of R32 is its low GWP – 675 against the 2088 of R410a – which makes it an ideal refrigerant to use through the phase-down of HFC gases. Used on its own, R32 is actually more efficient than R410a, and this leads to other benefits such as systems requiring a smaller refrigerant charge.

Kit List

Code	Description	No of units
System 1		
4MXM80	8kW R32 multi split outdoor unit	1
FTXM42	4.2kW wall mounted unit	2
System 2		
5MXM90	9kW R32 multi split outdoor unit	1
FTXJ50MW	5kW Emura indoor unit	2
FTXM20M	2kW wall mounted unit	1
System 3		
RXM50M	5kW R32 single split outdoor unit	1
FTXM50M	5kW wall mounted unit	1



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