

Wensum Place, Bromley



Homeowner hoping for a hot summer to try out new Daikin R32 system

One summer in a newly built south-facing house was enough to convince a Bromley homeowner that an air conditioning solution from Daikin UK should be top of the family's shopping list.

This year he's hoping for a really hot summer to put his new Daikin Bluevolution R32 Emura system to the test.

IT consultant Mr Russell and his family moved into the 1,200 sq.ft three bedroom semi-detached – part of a recent development in Hayes – in winter. They were very comfortable with the conventional heating system and its gas boiler.

Mr Russell says: "It was our first new-build home but we did not appreciate the effectiveness of modern air-tightness and insulation standards until summer came.

"We have quite a lot of glass on the south side of the house, making it fairly hot inside. We'd seen that some of our neighbours had already fitted air conditioning systems, so we started to look at the possibilities."

The family called in Daikin D1 Partner Technicool and chose the Daikin R32 system.

"For me, it was all about the technology and future-proofing," says Mr Russell. "We have Emura units in the three bedrooms and downstairs in the living room. I can control all the units over wi-fi with an app on my phone – and with the systems using R32 refrigerant we expect to score from their enhanced efficiency.

"The low global warming potential of R32 gives this system theoretically the longest possible life expectancy of any system currently available.

"We've chosen this system primarily for its cooling capabilities. I shall also try it in heating mode – especially during the 'in-between' seasons – to compare comfort levels and running costs against the original heating system."

Engineers from Coulsdon-based Technicool installed an 8kW R32 Multi condensing unit at the side of the house. Refrigerant pipes to the 3.5kW Emura unit downstairs and the three 2kW units upstairs were installed in dark trunking on the outside wall.

Year of installation

> 2017

Project requirements

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

Installed systems

- > R32 condensing unit
- > R32 Emura
- > Wireless LAN adapter

Technicool Contracts Manager Spencer Johnson, says:

“Daikin’s R32 systems are straightforward to install and commission. The Emura indoor units have a sleek, contemporary appearance and in this installation we were able to site them high on the walls so that even in the smallest bedroom they look good.”



With environmental concerns and a long-term phase-down of HFC refrigerants driving change in technology, Daikin pioneered the move towards R32. It is a 50% constituent of the earlier “standard” R410a, but used on its own, R32 has a GWP of 675 – compared to R410a’s 2088. It also brings additional benefits in terms of energy efficiency and a reduced refrigerant charge.

Daikin launched the first commercial R32 refrigerant air conditioning range in the UK and plans to have all its DX equipment running on R32 – including VRV systems – in the longer term.

Following the initial launch of the Bluevolution range for traditional split units, the range now includes the Daikin Emura and Sky Air products – including the Seasonal Smart High COP Roundflow Cassette and iTab controller.

Code	Description	No of units
4MXM80M	8kW R32 condensing unit	1
FTXJ20MW	2kW R32 Daikin Emura indoor unit	3
FTXJ35MW	3.5kW R32 Daikin Emura indoor unit	1
BRP069A41	Wireless LAN adapter	4



Daikin Airconditioning UK Ltd The Heights Brooklands Weybridge Surrey KT13 0NY Tel: 0845 6419000

To see our full range of case studies please visit our business portal my.daikin.co.uk
If you have a project that you would like turned into a case study please contact marketing on marketing@daikin.co.uk