



# Kings Park Village



## Some like it hot – especially when a heat pump cuts energy bills

Owners of a two-bedroom park home on Canvey Island, Essex, replaced an electric boiler with a Daikin air source heat pump, slashing their energy costs by more than 40% and saving around £65 a month.

On top of that, they are getting around £600 a year from the government’s domestic Renewable Heat Incentive.

The retired business owner and his wife now have a 5kW Daikin Altherma Monobloc heat pump outside their home. The compact, low noise outdoor unit serves radiators on the peripheral walls of the 72m<sup>2</sup> house and the new 150 litre Daikin unvented domestic hot water cylinder.

The heat pump delivers a flow temperature of 45°C, to suit the calculated space heating load of 3.5kW and heat loss of 44W/m<sup>2</sup>, according to Peter Graham, director of installer Reina Group.

With help from increased insulation in the walls, floor and ceiling, the system enables the owners to enjoy year-round economical indoor comfort at 23°C. The owner says: “My wife does not wear cold.”

The switch to new technology came seven years after the couple moved from their home of 36 years in Barkingside to Kings Park Village, a 70 acre secure gated community for over 50s that has some 750 owner-occupied homes.

They were woken at 2am when the circuit board of the 9kW electric boiler failed, and the system was “blowing out hot water”.

The owner says: “That convinced me that it was time to try a different technology. There’s no gas here, so a heat pump was the obvious alternative..”

“Sound level was a key factor in selection. Another homeowner in the park had a heat pump installed some time ago, but it was so loud that it was a disturbance and had to be taken out. I chose the Daikin Altherma Monobloc because of its low sound levels and the specification was readily approved by park management.”

### Year of installation

› 2017

### Project requirements

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

### Installed systems

- › Daikin Altherma Monobloc
- › Unvented Cylinder



With the new system in place for more than a year – and a cold Thames Estuary winter comfortably passed – The owner says: “It was particularly cold outside, but we did not suffer at all indoors. If anything, the only problem was that water coming out of the taps seemed too hot.”

Peter Graham says:

“The Daikin Altherma Monobloc is a brilliant solution for homes at King Park Village and similar estates where homes are relatively close together. The outdoor unit has all the components needed for the heating water circuit and it’s very quick and easy to install.”

Daikin’s easy-to-use wall-mounted controller allows a homeowner to adjust radiator and hot water temperatures and schedule on/off times for maximum comfort and economy. A boost function accommodates additional hot water demand. Normally, DHW is heated during off-peak periods (for Economy 7 and 10 customers) or during the day for others. For bacteria control, the system automatically raises the DHW to 60°C once a week.

#### Kit List

Code	Description	No of units
UK.MONO5GROUND	5kW Daikin Altherma Monobloc	1
UK.EKHWSU150B3V3	150L Unvented Cylinder	1