MITSUBISHI ELECTRIC

Case Study

Ecodan heating is just what the doctor ordered

ecodan®
Renewable Heating Technology

When a South London medical facility needed to replace its heating, the practice was looking for something that would not only deliver the year-round comfort levels that patients and staff require, but also reduce carbon emissions and lower heating bills.

Paxton Green Health Centre South London

Renewable Heating Technology

Paxton Green Group Practice is one of the largest practices in South-East London. serving the West Dulwich area.

As well as the normal GP surgery, the six-partner practice has been running a COVID-19 support service throughout the pandemic. In addition, it offers a wellbeing centre, a health review and assessment clinic alongside the full range of GP services.

Dartford-based Opus Air Conditioning was commissioned to replace the old gas boilers and worked carefully with the doctor's surgery which had to remain open during the refurbishment as they were also a vaccination centre for the local community. A key objective for the practice was to reduce both long-term running costs and CO_2 emissions, to ensure that they could future-proof the building.

"When we first started to discuss their heating requirements, they were very open to the idea of renewable heating and were keen to replace the existing gas system," explained Andy Booth, Project Manager for Opus.

The solution was the installation of three Ecodan CAHV air source heat pumps to deliver 116kW of heat to the building, replacing the two commercial gas boilers. The Ecodan CAHV monobloc system can operate singularly, or form part of a multiple system of up to 688kW capacity.

The low-maintenance CAHV models need water and electrical connections and can operate in a cascade system meaning that it can continually match the heating but only consume the power needed to keep the practice comfortable, whatever the weather.

"They certainly liked the idea of installing a more environmentally-friendly and cost-effective form of heating and these commercial Ecodan heat pumps were the perfect match," added Andy Booth.

Paxton Green Health Centre South London

“One of the things that amazed me was how quickly the CAHV units heated the water in the tank,” he added, **“we picked up water temperatures of 70 degrees in less than 30 minutes.”**

If you would like to know more about the Ecodan CAHV, **visit ecodan.co.uk**

For more information on Opus Air Conditioning, **visit opusair.co.uk**

Heat pumps offer a more sustainable form of heating as every kilowatt of electricity consumed can produce an average of three kilowatts of heating. The Opus team had to remove the existing commercial gas installation and fit the new systems in close association with the practice.

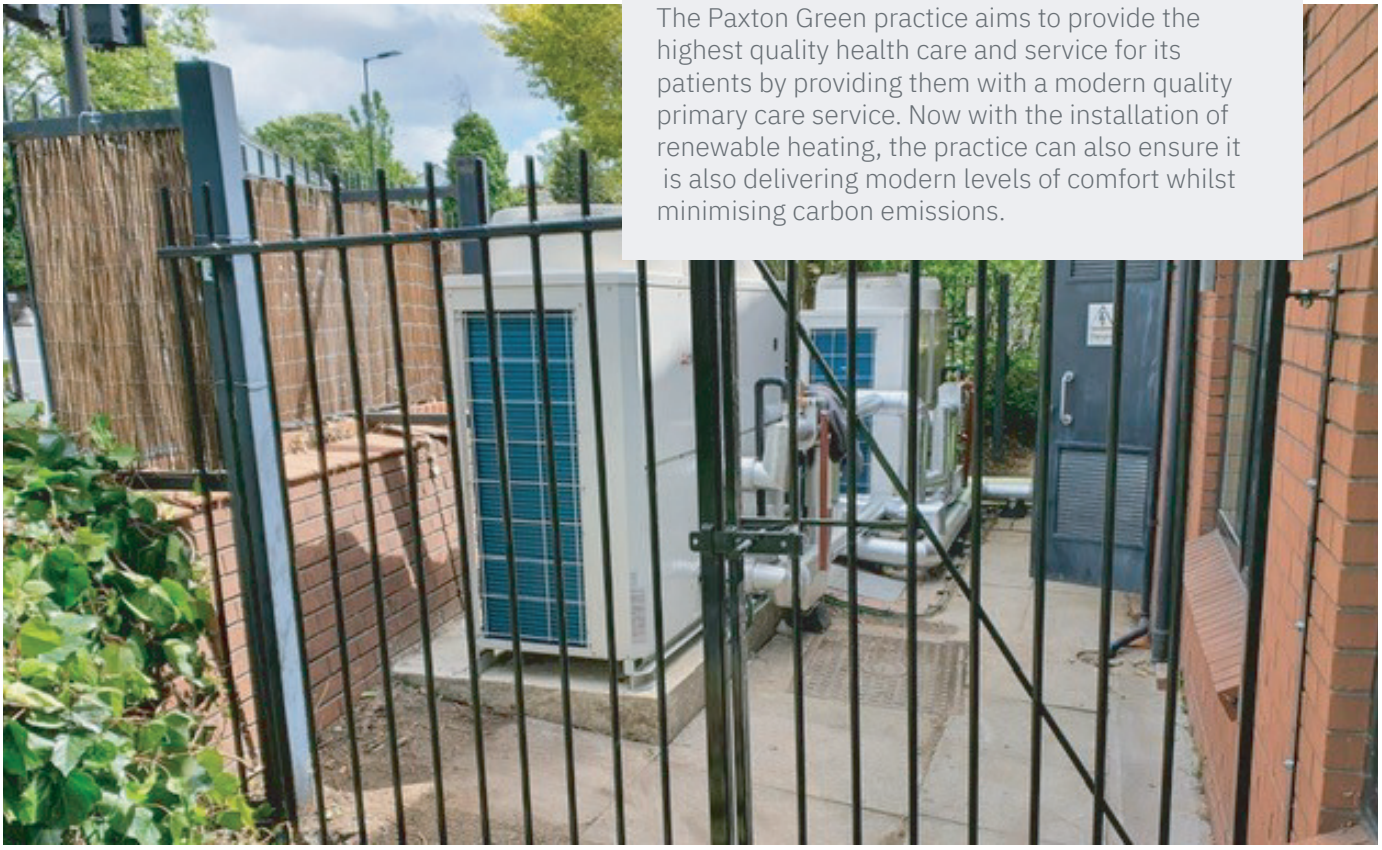
“The team had to be completely flexible so that we could get in around the working hours of the vaccination centre,” added Andy.

“We then had to test and commission the system and ensure the controls all worked exactly as the practice wanted,” he added.

Opus specialises in the design, supply, installation, service and maintenance of boilers and heating systems, along with heat pumps, air conditioning and ventilation systems.

The company is an Accredited Installer Partner for Mitsubishi Electric and this was the first Ecodan CAHV installation that Opus had carried out. Based on the success of this project they will be looking at promoting the use of air source heat pumps on future projects.

The Paxton Green practice aims to provide the highest quality health care and service for its patients by providing them with a modern quality primary care service. Now with the installation of renewable heating, the practice can also ensure it is also delivering modern levels of comfort whilst minimising carbon emissions.



Case Study

Paxton Green Health Centre
South London

ecodan
Renewable Heating Technology

Installation Summary

Outdoor Units:

3 x Ecodan CAHV Air Source Heat Pumps

ecodan
Renewable Heating Technology

MITSUBISHI ELECTRIC
Changes for the Better

Telephone: **01707 282880**
email: **air.conditioning@meuk.mee.com**
les.mitsubishielectric.co.uk

@meuk_les
@green_gateway

Mitsubishi Electric Living
Environmental Systems UK

Mitsubishi Electric
Cooling and Heating UK

mitsubishielectricuk_les

Mitsubishi Electric Living
Environmental Systems UK

BLOG thehub.mitsubishielectric.co.uk

UNITED KINGDOM Mitsubishi Electric Europe Living Environment Systems Division, Travellers Lane, Hatfield, Hertfordshire, AL10 8XB, England. Telephone: 01707 282880 Fax: 01707 278881
IRELAND Mitsubishi Electric Europe, Westgate Business Park, Ballymount, Dublin 24, Ireland. Telephone: (01) 419 8800 Fax: (01) 419 8890 International code: (003531)

Note: The fuse rating is for guidance only. Please refer to the relevant databook for detailed specification. It is the responsibility of a qualified electrician/electrical engineer to select the correct cable size and fuse rating based on current regulation and site specific conditions. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a fluorinated greenhouse gas, R410A (GWP:2088), R32 (GWP:675), R407C (GWP:1774), R134a (GWP:1430), R513A (GWP:631), R454B (GWP:466), R1234ze (GWP:7) or R1234yf (GWP:4). *These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. In case of Regulation (EU) No.626/2011 from IPCC 3rd edition, these are as follows. R410A (GWP:1975), R32 (GWP:550), R407C (GWP:1650) or R134a (GWP:1300).

Effective as of April 2021

Green Gateway greengateway.mitsubishielectric.co.uk