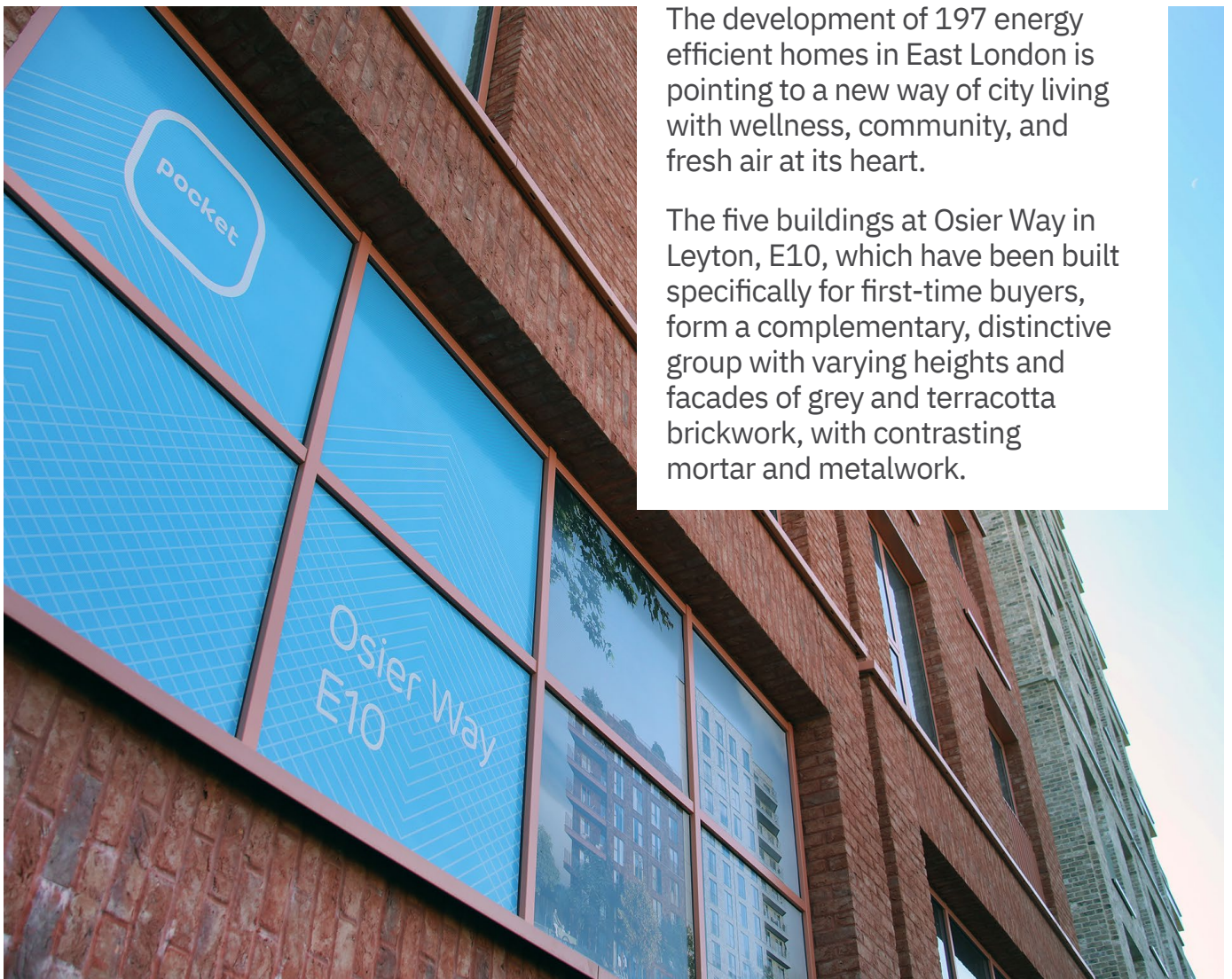


## Case Study

# A fresh approach to city living

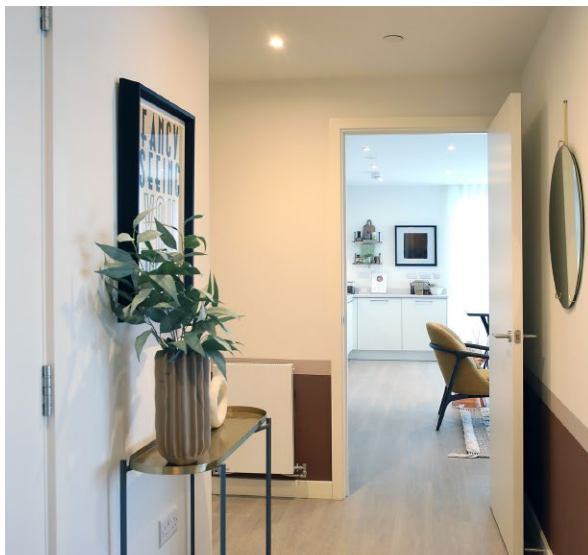


The development of 197 energy efficient homes in East London is pointing to a new way of city living with wellness, community, and fresh air at its heart.

The five buildings at Osier Way in Leyton, E10, which have been built specifically for first-time buyers, form a complementary, distinctive group with varying heights and facades of grey and terracotta brickwork, with contrasting mortar and metalwork.

Built by Pocket Living apartments, the homes at Osier Way are designed to be sustainable and eco-friendly. Well-insulated to retain heat, they minimise day-to-day energy costs.

They also maximise the power of the sun, as the floor-to-ceiling windows allow daylight to flood in.



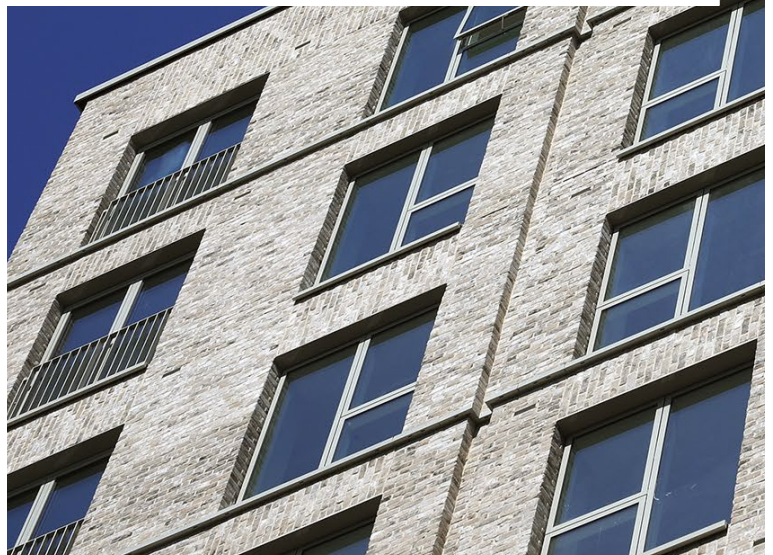
To ensure the highest levels of comfort, each apartment includes the latest in energy efficient, fresh air ventilation with the award-winning Residential Lossnay Mechanical Ventilation with Heat Recovery (MVHR) unit from Mitsubishi Electric.

Adding to the development's green credentials, the homes are built on an under-used urban brownfield site, a move that helps to protect London's Green Belt. Each apartment is cleverly designed to make the best use of space and the two landscaped rooftop gardens are an urban retreat where residents can meet to socialise.

One also has a play area for children. Importantly, in a major move to foster a sense of community, the developers have added five 'amenity rooms' for residents' use only. These include spaces to work, exercise, dine, play pool, quietly reflect or simply get together after work or at weekends. All benefit from Mitsubishi Electric Mr Slim air conditioning and commercial Lossnay MVHR to offer modern levels of comfort, all year round.

The 10-storey Salix House part of the development has 61 one-bedroom homes, 14 two-bedroom homes and 5 two-bedroom wheelchair-adaptable homes. Like all the apartments in the development, each carefully designed home comes with every modern essential and is ready for owners to personalise. With a focus on high-quality craftsmanship, the Pocket apartment interiors are designed to match modern city makers' lifestyles.

The mechanical, electrical and plumbing (MEP) works on the project were provided by G&H Group, who provide a complete turnkey service, tailor-made for each individual project.



For Osier Way, G&H Group developed a prefabricated utility module for each apartment, which includes plumbing and electrical connections and a **Lossnay ventilation unit**, making installation much easier and quicker on site.



Each module contains a Lossnay **VL-250CZPVU-R/L-E MVHR** which can recover up to 92% of the heat energy from outgoing stale air. This is then used to heat up the incoming air, making the whole system incredibly energy efficient, while delivering constant clean fresh air for the homeowners.

In the height of summer, the Lossnay units can also offer a full bypass function, which is ideal for cooling down apartments that have overheated during the day. Using temperature sensors, the unit automatically enters bypass mode when it detects the space is hotter than desired and the outside air is cool enough.

The Residential Lossnay units were chosen not only for their energy efficiency and performance but also for their super quiet performance of only 24 dBA (at 38 litres / sec at 100 Pa). This makes Lossnay perfect for residential homes and apartments where occupants can enjoy all the benefits of fresh air ventilation without even knowing the unit is running.

Uniquely for ventilation systems of this type, the Residential Lossnay includes a third filter which can incorporate an optional NOx filter on the supply air side to clean the air even in the most polluted environments.

**“A traditional approach to proving NOx filtration is to remotely mount separate filters for the MVHR, but this would have created access and maintenance issues for the client,”** explained David Davis, director at G&H Group.



**“We selected the Mitsubishi MVHR units as a NOx filter can be added within the unit, which was required to comply with the planning requirements, and also as the filter can easily be replaced by the residents when needed.”**

David Davis, director at G&H Group



With an intelligent, internal LCD controller, homeowners have easy control of the unit with a clear display showing normal and boost modes. The in-built digital controls allow easy and accurate commissioning of up to 4 speeds. Apartment owners are also able to download the unique MELCloud app which then allows them to control their ventilation from anywhere or through smart home systems. (additional MELCloud interface and internet connection required).

Pocket Living apartments are designed to offer homeowners an urban retreat and a sustainable community, based on city living, with excellent transport links nearby. With the addition of the latest Lossnay ventilation systems, these modern, comfortable homes are offering first-time buyers a way of city living with the sweet smell of fresh air.

G&H Group is a complete MEP service provider. Since the company was established in 1998, it has evolved to become a multi-million pound business employing more than 180 staff across five complementary divisions: Building Services, Projects, Maintenance, Engineering Services and Air Conditioning.

The experienced team take on the design, management, delivery and maintenance of every aspect of MEP schemes for main contractors and end users across both public and private sector, with clients in residential, commercial, retail, education, industrial, leisure and health.



# Installation Summary

## Outdoor Units:

Mr Slim air conditioning and commercial Lossnay MVHR

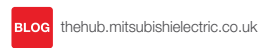
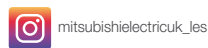
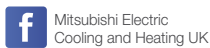


## Outdoor Units:

197 x VL-CZPVU-R/L-E  
Residential Mechanical Ventilation  
Heat Recovery Unit



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**Note:** The fuse rating is for guidance only and 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), R290 (GWP:3), R32 (GWP:675), R407C (GWP:1774), R134a (GWP:1430), R513A (GWP:631), R454B (GWP:466), R454C (GWP:148), 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 February 2024

