

# CASE STUDY

Elmgrove Primary School



## 14 Tonnes of carbon reduction in exchange for fresh air for students at Elmgrove Primary School

Monodraught are pleased to have been awarded the Heating and Ventilation contract for the refurbishment of the Grade A listed building and new extension of Elmgrove Primary School, Harrow.

Elmgrove is a four-form entry primary school with 26-place Nursery that has additional funding to provide places for up to 19 pupils with physical disabilities.

47 Monodraught HVR Zero systems were installed throughout the school in classrooms and corridors. This was complemented by 6 Windcatcher X-Air natural ventilation systems in larger spaces such as the main hall and dining area.

### EDUCATION



### REFURB



#### Location

Harrow, London

#### Value

£10.5m

#### Main Contractor

Kier Construction - Southern  
Maple Cross

#### Systems Installed

- 47 HVR Zero V systems
- 6 Windcatcher X-Air 200 systems



Hybrid ventilation with heat recovery operates effectively throughout the year. Its advanced technology provides a greater level of occupant satisfaction because of the increased ability to exercise control over the ventilation and heating provided. The system operates completely autonomously to ensure optimum indoor air quality with the lowest possible energy use.

HVR Zero is the first hybrid heat recovery system of its kind with zero embodied carbon, which is achieved by careful material selection and through a carbon offset programme. Materials have been selected to minimise embodied CO<sub>2</sub> values, and to ensure they are fully recyclable at end of life thereby supporting the circular economy and minimising waste.

## Zero Operational Carbon

Monodraught have partnered with a UK based tree planting scheme to off-set the residual operational carbon. One recognised tool to tackle the climate crisis and prevent temperatures from rising above 1.5°C is to plant trees, and our selected partner plants millions of trees around the world each month.

When placing an order with Monodraught, all clients will receive a certificate of the CO<sub>2</sub> offset value and the number of trees planted.



Visit Monodraught's forest at:  
[www.ecologi.com/monodraught](https://www.ecologi.com/monodraught)

## Operational carbon offset impact







We are pioneers in the design and manufacture of advanced sustainable ventilation, cooling, heating and lighting solutions for new and refurbished commercial and public buildings. We deliver outstanding temperature-control and indoor air quality whilst minimising the consumption of both electricity and refrigerants so as to reduce our carbon footprint. Monodraught have over 45 years' experience and our products have saved the equivalent of nearly 390,000 tonnes CO<sub>2</sub> over the last two decades.

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