



Full mechanical services for a new build school extension.

Appointed as mechanical subcontractor to the main building contractor, we delivered a complete mechanical package — designed, installed and commissioned to meet the demands of a high-occupancy educational environment, current building regulations, and the school's sustainability targets.

| SECTOR | ROLE | PROJECT TYPE | OUTCOME |
|-----------|--------------------------|---------------------|--------------------------|
| Education | Mechanical Subcontractor | New Build Extension | On Programme + On Budget |

01 — SCOPE OF WORKS PROJECT BUDGET
Design, supply, install & commission. **Circa 450k**

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| 01 Variable Refrigerant Flow (VRF) Heating & cooling across classrooms and communal areas | 02 Server room cooling Dedicated split air conditioning system |
| 03 Mechanical Heat Recovery Ventilation MHRV systems for indoor air quality & heat reclaim | 04 Domestic plumbing services Incorporating an air source heat pump |
| 05 Above-ground drainage Full drainage installation throughout the extension | 06 Sanitary ware installation Full fit-out of all sanitary fixtures |
| 07 Extract ventilation Complete extract ventilation systems | 08 Building Management System Integration of additional BMS controls |
| 09 Commercial kitchen ventilation Specified for catering operations | 10 Building sprinkler system Full installation across the extension |



02 — CHALLENGES

What we had to solve.

- + A live school environment**
Phased working and careful planning to keep disruption to ongoing school operations to a minimum.
- + Multi-system integration**
Coordinating VRF, ventilation, plumbing and BMS demanded precise scheduling and close work with other trades.
- + Energy efficiency targets**
Systems specified to reduce long-term operational cost while meeting the school's environmental standards.
- + Constrained plant & service routes**
Limited plant areas required efficient design and installation to maintain access for future maintenance.

03 — SOLUTIONS

How we delivered.

- Programme-led coordination**
Regular site meetings and live programme tracking with the main contractor and other subcontractors.
- Considered routing & access**
Installation planned to maximise space and to keep all systems accessible for ongoing maintenance.
- High-efficiency VRF + MHRV**
Flexible heating and cooling, paired with heat-recovery ventilation to cut energy loss and improve air quality.
- Air source heat pump & full BMS**
Sustainable hot water generation, with full BMS integration so the client can monitor and control everything centrally.

04 — RESULTS

Delivered on programme, on budget — and built for the long term.

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| <p>01</p> <p>A comfortable, well-ventilated learning environment for staff and pupils.</p> | <p>02</p> <p>Improved energy efficiency and lower long-term running costs for the school.</p> | <p>03</p> <p>Reliable systems specified and installed for straightforward future maintenance.</p> | <p>04</p> <p>Full compliance with current building, safety and environmental regulations.</p> |
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In short —

This project demonstrates our capability to deliver complex mechanical packages within the education sector. Through effective coordination, attention to detail, and a focus on quality, we contributed to a modern, efficient and future-proof school extension.