

LEGEND

- FRESH AIR INTAKE DUCT
- EXHAUST AIR DUCT
- SUPPLY AIR DUCT
- RETURN AIR DUCT
- FRESH AIR/EXHAUST LOUVRE
- SUPPLY/RETURN VALVE



MVHR SCHEDULE			
UNIT REFERENCE	FLAT	FAN MANUFACTURER	FAN MODEL
MVHR.01	04	VENT AXIA	LO-CARBON SENTINEL CONNECT PLUS
MVHR.02	05	VENT AXIA	LO-CARBON SENTINEL CONNECT PLUS
MVHR.03	06	VENT AXIA	LO-CARBON SENTINEL CONNECT PLUS

Notes:

- This drawing is intended to be printed and read in colour.
- Unless otherwise specified, all dimensions are nominal values in millimeters.
- This drawing shall be read in conjunction with all other contract documentation.
- The Contractor shall be responsible for fully coordinating all services to be installed by others.
- The Contractor shall liaise with the electrical Contractor to ensure all adequately rated power supplies are allowed to support the full mechanical services installation.
- All service routes are approximate. The Contractor shall be responsible for determining the exact routes and positions of all installed proposed services and equipment.
- All services items made redundant by this scheme, or as existing already redundant, shall be removed unless specified otherwise.
- All equipment proposed for this scheme shall be installed, commissioned and operated in accordance with the manufacturer's equipment specifications and instructions manuals to guarantee correct operation and warranties.
- All internal supply and extract terminals shall be Ø100mm valve types.
- The Contractor shall liaise with the architect to determine suitable louvres that maintain the heritage of the building. Where possible, the louvres should maintain a free area of 90%.
- All penetrations to the building shall be confirmed with the architect and the local planning authority, prior to commencement of works.
- The Contractor shall liaise with a suitably qualified fire engineering specialist to ensure that the system meets the requirements of the fire strategy.
- Each MVHR unit shall be controlled via a manual switch with integrated boost function located in wet areas.
- All ductwork shall be rigid PVC or steel and be insulated throughout.
- Thermal insulation on ductwork shall be a minimum of 25mm with a thermal conductivity no greater than 0.04W/mK.
- No joists shall be cut/cored without express written consent from a qualified structural engineer. Any alterations shall be suitable to accommodate ductwork without impacting the integrity of the structure.
- Flexible duct shall be used in lengths no greater than 300mm and are only to be used for final connections to MVHR units, grilles/valves and louvres. Any flexible duct used within the building shall be pulled taught with smooth, correctly supported bends only.
- Any MVHR units installed outside of the insulated region of the home (e.g. within a ceiling void, above any insulation), the unit itself shall be insulated.
- All vertical legs of exhaust ductwork shall be complete with a drainoff point at low level, connecting to the foul water drainage system.
- All drainage pipework connecting to ductwork or MVHR units shall be 21.5mm and run with a fall of 10mm/m to 40mm/m. Where applicable, and in accordance with the manufacturer's recommendations, MVHR unit drainage shall also be complete with a waterless trap. All drainage pipework shall be insulated when run through unheated spaces.
- Where possible, all fresh air intake and exhaust louvres shall be placed a minimum of 3m apart, to avoid recirculation.
- Appropriately sized maintenance hatches shall be provided to allow access to MVHR units mounted above the ceiling.

P01	ISSUED FOR INFORMATION	MB	28-07-24
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A02	ISSUED FOR APPROVAL	MB	06-11-24
Rev:	Description:	By:	Date:
Status:	PRELIMINARY		

27-32 MARKET PLACE

SECOND FLOOR VENTILATION LAYOUT

Scale @ A1:	Date created:	Drawn by:	Checked by:
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